CasaFan

Ceiling Fans
Summer Fans

DSV44

WiFi

Many models now available with Smart Life control

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Intro

The following symbols depict specific features of your ceiling fan

Operation with remote control + No. of speed levels

Operation with pull chain + No. of speed levels

Operation with wall control + No. of speed levels

For projects Optional with 0-10 V interface available

Forward / reverse switchable

All Functions can be operated by Smart Life App

Recommended for room size (m^2)

Permanently installed LED + Wattage

Suitable lamp + Lamp Info + Wattage

Energy saving, commutated motor with latest DC/EC technology

Ceiling Fans

CasaFan

VORTICE

Accessories

Summer Fans

CasaFan Ceiling Fans – Index

Determine the ceiling fan that that suits your individual project

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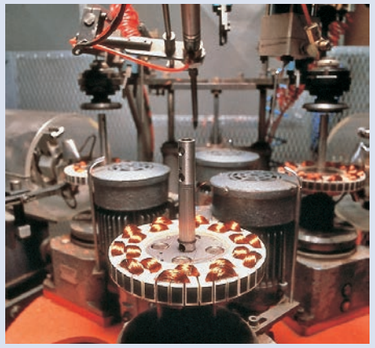
Key to Symbols: ✳ Ceiling fan | Wi-Fi Remote control | Pull chain | Smart Life App | F Wall switch/RF | K Wall switch/wired | Light kit

Over the past years ceiling fans have become increasingly popular - even in countries with a moderate climate. Ceiling fans not only create a pleasant living and working environment. They also prevent „stale air“, provide a fresh breeze and - the most important argument in times of high energy costs - they save heating costs. By means of this catalogue we try to pass on the entire experience we have gained over the past 38 years in an easy-to-understand form. Take some time to choose your fan, because besides shape and colour, there are other important factors that will soon make a ceiling fan indispensable in your home or office. Here you can find the suitable model for every taste and every application. If you have any questions, your specialist dealer will be happy to help you. When choosing a product, be sure to look for quality. Starting with the balancing and synchronisation of a fan, through the design to the workmanship - all factors that are a guarantee for your satisfaction. When we include a fan in our catalogue, you can be sure that it meets the highest quality standards. Unlike many other manufacturers, who produce cheap goods for hardware stores and discounters, all CasaFan products are designed for long-term operation and are very efficient terms of total cost of ownership. In times of growing responsibility for the environment, we, as the market leader in the specialised trade, consider it important to use pioneering energy-saving technologies. The new ECO models of the ECO GENUINO and ECO PALLAS series are extremely economical with 20 watts and consume only one third of the electrical power compared to most available AC fans! Still, with the same air delivery capacity and effective range!

Have lots of fun selecting your fan! Best wishes from all of us at CasaFan VENTILATOREN

Quality and Safety – Identical Appearance = Identical Quality?



Many ceiling fans may look very similar to the CasaFan models. Even so, identical appearance does not mean identical performance. In fact, the major aspects that account for the quality of a fan are invisible at the first glare. The heart of a fan is its motor. The materials used in the core and the windings affect performance and thus the motor’s energy consumption. The windings must be tight and as even as possible. Important factors in achieving smooth running are balanced stators and accessories such as the blades and the blade mountings. High quality switches and capacitors ensure long life and trouble-free operation. And if something goes wrong during delivery or installation the fan comes with a balancing kit. All these aspects are invisible for the client‘s eye. Separating “the wheat from the chaff” is therefore only possible during daily operation. Nothing is more unpleasant than a ceiling fan that is unbalanced, makes a lot of noise or stops working entirely when in continuous operation. CasaFan devices are comprised of high-quality, tested components entirely. The motors are designed for continuous operation and have sufficient extra capacity.

Only after many years, when a blade gets bent while moving house or the motor housing gets dented, it becomes apparent whether the manufacturer has a systematic replacement parts service. And whoever has tried to purchase a 3-speed pull-cord switch on its own, appreciates that we keep every spare part in stock - from the switch to the motor - even for devices that we delivered 20 years ago.

DEKRA GS geprüfte Sicherheit

TÜV GS geprüfte Sicherheit

Intertek GS geprüfte Sicherheit

Your safety is our priority. Even when we are developing new models, we feed in our 38 years experience with ceiling fan products. Many small details that enhance the quality, durability and safety of the product are standard for us. That is why many of our CasaFan products carry the GS-tested safety mark (Geprüfte Sicherheit).

CasaFan Quality Warranty

In addition to the statutory warranty, we provide a quality guarantee for up to 25 years on the motors of our ceiling fans! But even after that, we keep all spare parts for your fan in stock. The motors of our units are designed for continuous operation and offer sufficient power reserves. A „cheap“ unit is often more expensive to repair or exchange than a high-quality brand product.

25 YEARS LIMITED MOTOR WARRANTY

Endless Selection

Through the CasaFan combination system, you can individually put together the unit that suits you best. The wood colour of the blades, the light, the housing - everything according to your personal taste and matching your furnishings. And if required, we have the perfect control unit for you - whether wireless remote control or wall switch. The extensive range of accessories enables installation in almost any situation.

Price-performance ratio

Your decision for a CasaFan product allows you to have access to the best quality with the longest service life at reasonable prices.

Compare for yourself!

The alternating current or AC motor - standard since more than 130 years

For over 130 years, ceiling fans with AC motors (Alternating Current) functioned more or less according to the same principle. A voltage-controllable, multi-pole single-phase asynchronous motor with squirrel-cage rotor, which is equipped with an auxiliary winding for start-up, provides the required torque and speed.

The external rotor motor is equipped with a stationary stator inside and a moving, rotating, outer part, the rotor. Although these types of motors are relatively inexpensive to produce, they do have some disadvantages.

They are prone to electromagnetic resonance, which can be noticeable in the form of humming noises. This can be reduced by an optimal design of the motor and the use of high-quality raw materials.

In addition, they cannot be controlled steplessly with the usual control methods, e.g. phase control or section control (comparable to electronic dimmers), without emitting loud buzzing noises; in living areas, possibly in the bedroom, this is an intolerable condition.

However, in times of expensive energy, the biggest disadvantage of the AC motor is its low efficiency. Compared to an optimally designed EC/DC motor, it requires up to 3 times more electrical energy for the same air performance.

Direct current or DC does not automatically mean energy-saving

More than 25 years ago, CasaFan supplied ceiling fans for a project that were pure DC fans. The aim was to operate a fan directly on 12 V DC generated by a solar panel. In the project, which was funded by the World Bank, simple huts in Central Africa were equipped with a solar panel together with a battery and control electronics. The aim was to improve the quality of life for the local population, that was cut off from the power supply infrastructure. Two energy-saving lights, a refrigerator, a television and a ceiling fan were part of the scope.

Compared to the latest CasaFan products the ceiling fan from back then our first direct current (DC) ceiling fan was not particularly efficient when comparing the electrical power in relation to the volume flow (SV = service value of 1.9 to our modern ECO ceiling fans (EC/DC) of today. Today, a SV of 6-10 is standard for EC/DC fans.

Our smallest and most economical DC/EC motor. On the left the stator with the windings, in the middle the rotor as a permanent magnet. On the right, the ready-to-operate state.

Commutation is crucial

14 years ago, CasaFan was the first ceiling fan manufacturer in Europe to launch an EC/DC ceiling fan. With the same airflow compared to the AC model ROYAL 132 with 69 watts, the electrical power of our first ECO model was 23.5 watts at that time and enabled a previously unimagined energy saving of over 60%. The success of this model confirmed our decision to focus more on the energy-saving EC/DC technology (EC: electronically commutated). In addition, the much smaller design of the EC/DC motors enables completely new designs. Models like the Eco Genuino, without any visible motor fully integrated into the blade design, would be impossible with conventional AC motors. Our ECO fans work exclusively with EC/DC motors, the most energy-saving type of a ceiling fan motor. These are also known as BLDC (brushless DC motors). As before, the ceiling fan is connected to 230 V~50 Hz alternating current.

A voltage transformer built into the control unit generates the required DC voltage. The electronic commutation (EC) of the BLDC external rotor motor is decisive for the high efficiency. Here, the rotor is equipped with a permanent magnet; the stator is fixed and is equipped with the windings. The windings are three-phase. CasaFan uses sensor-controlled or sensorless motors, depending on the model.

In the first case, with our sensor-controlled motors, a hall sensor permanently reports the position of the rotor to the electronics. The electronics thus know the current position and which windings are how strongly to be powered, so that the desired direction of rotation and speed can be achieved.

Our sensorless motors work purely according to electrical parameters. The electronics evaluate the inductance generated in the windings and control the voltage in the different windings depending on the value.

DC/EC Motors - the Advantages:

- state-of-the-art technology
- energy-saving
- almost noiseless
- long-lasting
- maintenance-free
- 6 speed levels, subtly divided
- compact design

Smart Life App

Many of our ceiling fans are now available with WiFi control via app for smartphones and tablets. They are recognisable by the blue symbol and the addition „W“ at the end of the item number.

All functions of the remote control can also be controlled via the Smart Life app. Complex scenes and connections to sensors are possible with the app.

Google Home

WORKS WITH amazon alexa

Electrics - Which connection do you have?

Your new ceiling fan needs a power supply on the ceiling where it is to be mounted.

Since installing additional cables at a later date is often very costly or simply not possible, we have designed all our fans so that they can be exchanged with an existing ceiling light.

On pages 126 to 127 you will find the assignment of the connection diagrams to the respective models. Standard is a switched phase or continuous voltage.

If you have a second phase on the ceiling that is switched via a (light) switch, you can use this to switch the lighting on and off separately and independently of the motor of your ceiling fan on many of our models. If you replace your existing switch with a tap changer or transformer, you can use this to control the motor speed additionally (wiring diagrams 7 and 8).

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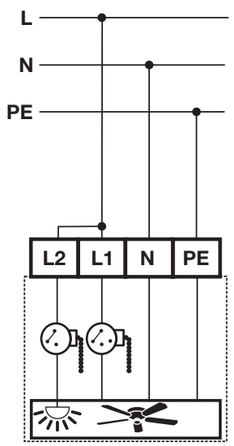

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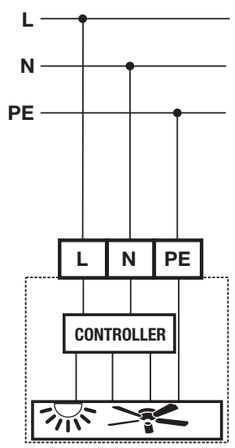

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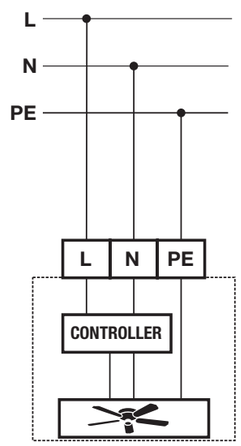

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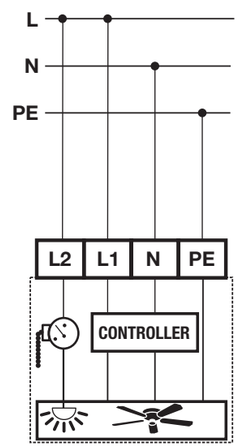

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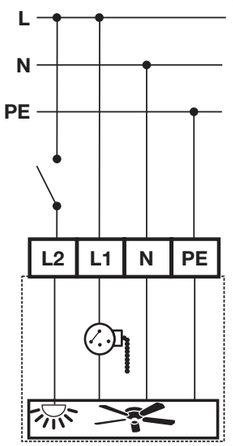

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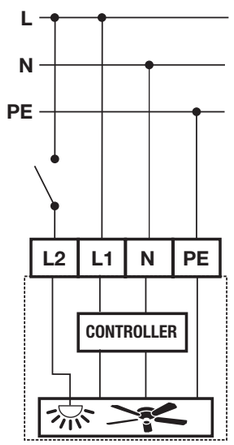

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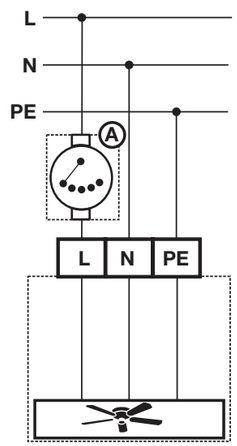

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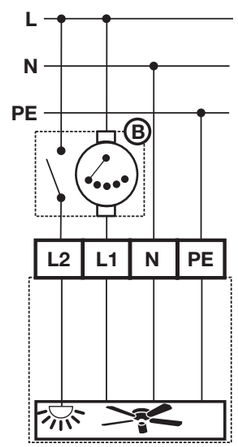


Memory

Almost all CasaFan ceiling fans are equipped with a memory function. A memory module is located in the receiver of the remote control. Do you exchange your current ceiling lamp for a fan with lighting? This is easily possible with the memory module.

If a simple light switch was previously available for this purpose, you can continue to use it. The motor of the fan is switched to OFF, the light to ON by remote control. Now you can turn the lamp on or off as before when entering the room with your light switch.

The memory module of the control unit „remembers“ the state before the voltage dropped (before the light switch was switched off) and restores it within 1.5 seconds. If necessary, the fan is turned on by the pull switch. The table on pages 126 and 127 shows you which models have this memory function.

If you are unsure which control is compatible with your application, please contact your electrician. He will give you expert advice.

Mounting of ceiling fans

When installing ceiling fans, a few points have to be considered especially for safety reasons.

First check the load-bearing capacity of the ceiling. The mounting must be able to support at least 4 times the weight of the fan. In rooms equipped with suspended wooden or plasterboard ceilings, a ceiling fan must never be screwed only to the plasterboard or wooden ceiling for reasons of fall protection, but also to avoid resonance noise (Fig. 3). Screwing into the load-bearing substructure of the ceiling is preferable (Fig. 2).

The ceiling mount of the fan with the suspended ceiling is braced against the fixed ceiling, usually made of concrete, with long screws and dowels (Fig. 1). For grid ceilings, which are common in offices, we recommend the length-adjustable suspension bracket type SST (Fig. 4 and Fig. 5), which is available in many lengths.

This ensures a safe and vibration-free suspension of all our ceiling fans.

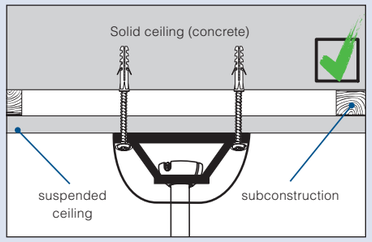


Fig. 1: Tensioning of a false ceiling

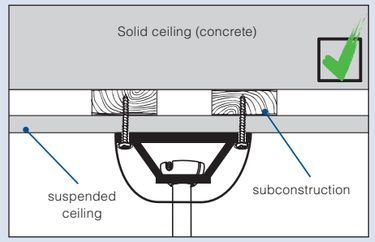


Fig. 2: Screw connection with substructure

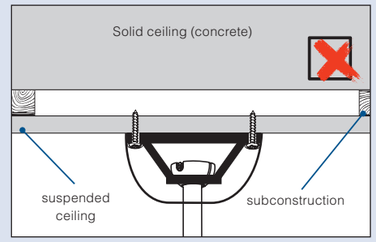


Fig. 3: Non-permitted fastening

When installing a ceiling fan, some minimum distances must be observed for safety reasons, but also to optimize the airflow.

Figure 6 shows these distances:

A: Distance to walls: should be at least 40 cm.

B: Distance to slopes: at least 15 cm horizontally.

C: Distance between blades and ceiling: at least 0.2 x fan Ø, except for extra-flat models. From a ceiling height of 3 m, „C“ should be at least 0.3 times, from 5 m 0.6 times and above 0.8 times the ceiling fan Ø. For rooms with low ceilings, always use our extra-flat models!

D: Distance between lower edge of blade and floor: at least 2.3 m (mandatory in commercial and public areas according to EN 60335-2-80, recommended in private areas).

Distances:

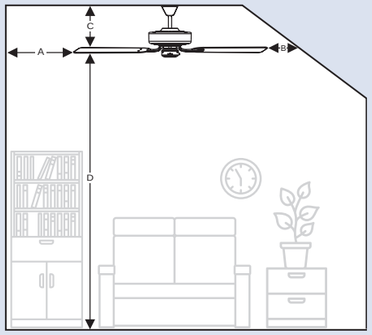


Fig. 6: Minimum distances when installing ceiling fans in rooms

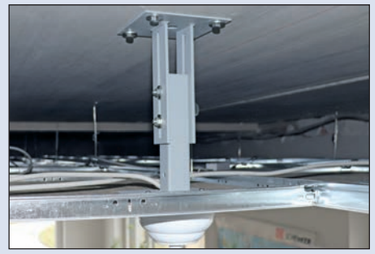


Fig. 4: Trimming support SST

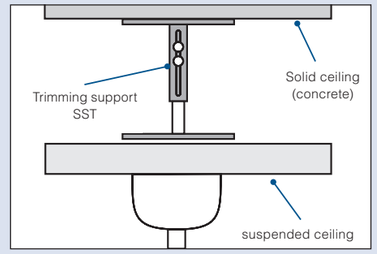


Fig. 5 Installation with trimming support SST

Mounting on roof and ceiling slopes

From a room height of approx. 2.7 m or when mounting on roofs or sloping ceilings, we recommend using a longer ceiling rod.

A ceiling fan always hangs vertically. Depending on the model, the suspension of our ceiling fans compensates for a tilt angle of the ceiling (Fig. 7, **A**).

The maximum possible pitch per model can be found on pages 126 - 127. For higher roof pitches, an on-site auxiliary construction in the form of a wedge made of wood or metal (**B**) is used, which ultimately enables the fan to be mounted on a horizontal surface.

To prevent the blade of the ceiling fan from hitting the pitch of the roof, a longer ceiling rod (accessories, see page 145) is required, which can easily be shortened by sawing it off to any intermediate size.

The minimum distance (Fig. 6, dimension C) depending on the angle of the roof or ceiling slope is shown in the following table:

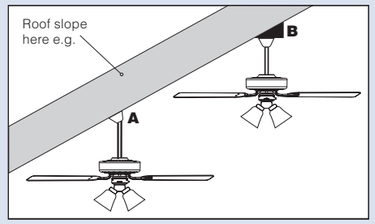


Fig. 7: Mounting ceiling fans on sloping roofs or ceilings

Roof slope	Ceiling fan Ø					
	75	103	132	152	180	221
10°	9	11	14	15	18	22
15°	13	17	20	23	27	33
20°	18	23	28	31	36	44
25°	23	29	35	40	46	57
30°	28	36	44	49	58	70
35°	34	44	53	60	70	85
40°	41	52	64	72	83	101
45°	49	63	76	86	100	121

On pages 126 - 127 you will find all total distances per model as supplied, as well as with the longer ceiling rods available as accessories. The rods also include a cable extension with patent plugs for easy electrical connection.

Addition/amendment to the installation

In addition to avoiding mounting on vibrating surfaces, it is essential to ensure that no objects reach into the radius of the ceiling fan's blades (cables, lights, cabinet doors, etc.). Always use the screws and dowels suitable for your ceiling type for mounting.

The avoidance of light effects is shown in fig. 8 and 9.

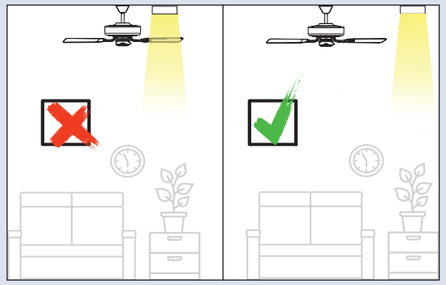


Fig. 8: When positioning ceiling fans, it should be ensured that the fan blades do not pass through a downward-facing luminaire. This leads to unpleasantly irritating stroboscopic effects.

Fig. 9: Especially at workplaces, the flickering of ceiling fan blades running through the lighting is disturbing. This should be taken into account during planning.

Fundamentals of thermal comfort

To determine the optimal ceiling fan for a room, you need to know the physical background and relationships.

First, the goal for which ceiling fans are to be used is determined:

If the aim is to improve comfort at high temperatures in summer, the purpose is **summer ventilation** with ceiling fans.

Also during winter times you can benefit from our ceiling fans. Warm air rises and accumulates under the ceiling. That effect leads to major temperature differences between the ceiling and the effective living space. Hence, by means of **winter ventilation** warm air is brought down slowly to the occupied living area.

In principle, there is nothing to be said against combining both objectives when using ceiling fans. The main difference is the respective air speed of both applications.

People perceive air currents completely different depending on the ambient temperature, humidity and air speed. If the environment is cooler, the same air flow in winter is perceived as unpleasant, draughty and may even promote illness. In summer, when temperatures are high, it is refreshing and beneficial.

What people perceive as pleasant is what experts call **comfort** or **thermal comfort**.

The American standard ASHRAE-55 describes 6 criteria that have an impact on a person's personal comfort range of temperature:

- *Physical activity:* Heavy physical work requires more cooling of the person than sitting or lying down quietly in order to keep the temperature balance in equilibrium.
- *Clothing:* In thin and short-sleeved clothing, the body's heat loss is disproportionately higher than in thick clothing that covers the entire body.
- *Heat radiation from objects in the environment:* A person standing next to a hot injection moulding machine needs much more cooling in the same environment than without this machine.
- *The ambient temperature:* At high ambient temperatures, the cooling requirement of humans is higher than at low temperatures in order to remain in thermal equilibrium.
- *The air velocity in the occupied zone:* In draughty rooms, the human body loses temperature very quickly.
- *The relative humidity:* The evaporative cooling of the body works much faster at low room humidity than at high room humidity, because dry air can absorb more water vapour than humid air.

Why does moving air cool the human body even though it hardly lowers the room temperature?

The movement of air extracts heat energy from the body by evaporating moisture on the skin, similar to driving fast in a car with the windows open. Even if the skin appears dry, there is a micro-fine film of moisture in the pores. At higher temperatures, the human organism promotes this natural cooling by releasing fluid on the surface of the skin through the sweat glands. This effect is easy to understand when you blow on your wet hand. The energy required for evaporation is thereby drawn from the body surface by heat conduction and cools it down.

This cooling of the body is shown in diagram 1 (bottom left).

Using the software tool „CBE Thermal Comfort Tool" from Berkeley University of California, the following diagrams were created to show the comfort range. With a ceiling fan in forward rotation, a distinction is made between the main air flow and the secondary air flow. The vertical main air stream forms a circle with approx. 1.3 times the diameter of the ceiling fan (B). The maximum air velocity in the main air stream at head/shoulder height in a room with 3 m ceiling height is listed in the tables on pages 122 to 125.

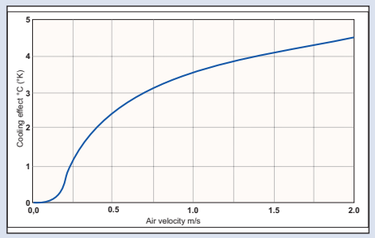
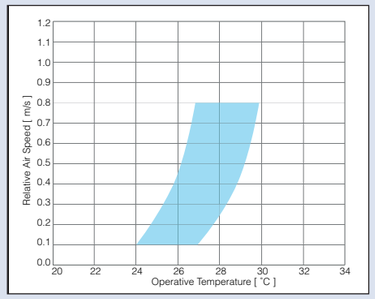
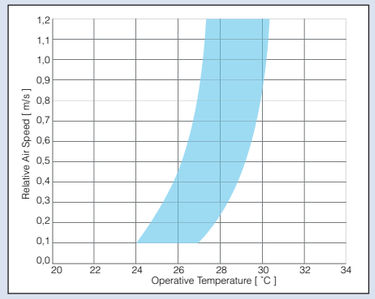


Diagram 1: Air flow velocity and cooling on the human body.





Diagrams 2 and 3: Thermal comfort in relation to air velocity

Source: ASHRAE 55 / Ceiling Fan Design Guide, Paul Raftery and David Douglass-Jaimes. Calculations: CBE Thermal Comfort Tool, Tartarini, F., Schiavon, S., Cheung, T., Hoyt, T., 2020.

The comfort range shows which air speeds are perceived as comfortable at which room temperatures. Diagram 2 (page 8) shows a central control of the speed where the users of the room have no influence on the control. This applies, for example, in schools or in open-plan offices where several ceiling fans are controlled centrally in the same way.

Diagram 3 (page 8) is valid for applications where the users can individually control the fans themselves by using the remote control or wall control. The air speed is unlimited here, as the users can adjust the air speed to their needs at any time with their „personal control".

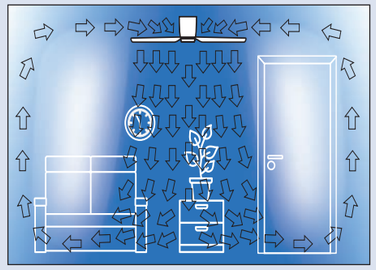


Fig. 13: Summer ventilation in a room with 2.5 m ceiling height with the low profile model Eco Plano II 132

Air flows with ceiling fans in summer operation

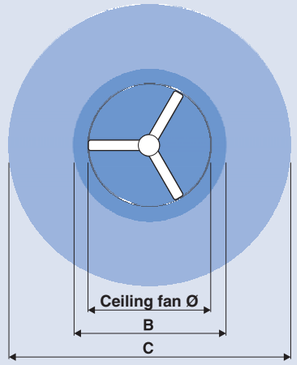


Fig. 10: Main and auxiliary airflow

The secondary airflow (**C**) is an area where the air velocity decreases outwards due to directional deflection and turbulence. The flow is diagonal to horizontal. The area of the secondary air flow is a circular area with approx. 2.4 times the diameter of the fan. These areas are the basis for the design of ceiling fans for summer ventilation in any room.

Under certain circumstances it may make sense to choose the next larger model when selecting the size, if the structural conditions permit. This is because a slightly larger dimensioned ceiling fan can run more slowly than a smaller model to deliver the same amount of air. This provides reserves that can be helpful in the case of very high temperatures.

Design example summer ventilation

In a living/dining room of approx. 28 m², the thermal comfort is to be improved in summer by means of ceiling fans.

This can be achieved with a 132 cm diameter ceiling fan in the seating area of the living corner. The area of the main and secondary air flow effectively covers an area of approx. 8 m². But even beyond this, there is still an air movement that can be perceived as pleasant, but according to Diagram 1 on page 8 can no longer be used for summer cooling.

If both the seating area and the dining area are to be provided with generous cooling at higher temperatures, two units of size 103 cm can be used instead of one ceiling fan of size 132 cm (Fig. 10) (Fig. 11).

The respective arrangement ensures good cooling through sufficient air movement in both areas.

Ceiling fans in bedrooms

Special attention should be paid to ceiling fans in the bedroom (Fig. 12). Especially during summer times, people tend to choose a higher air speed when going to bed. The body is sweaty, one is lightly clothed and is quickly cooled down pleasantly by the strong evaporation of sweat.

If you fall asleep during this phase and the ceiling fan runs at high speed all night, there is a risk of damage to your health. A stiff neck or even a cold can be the result!

Therefore, it is important to choose the speed of the fan so that the draught is only a faint breeze, depending on personal feeling ≤ 0.1 m/s). All our CasaFan ECO fans offer very low speeds for such cases, which do not cause any health consequences even for sensitive people.

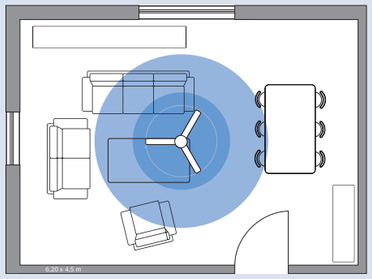


Fig. 10: Summer ventilation in the living/dining room with a ceiling fan Ø 132 cm

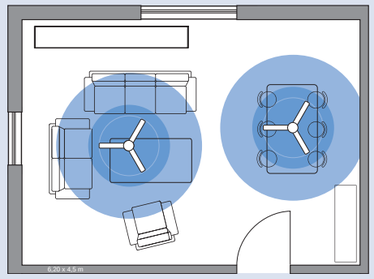


Fig. 11: Separate living/dining area with two ceiling fans, each Ø 103 cm

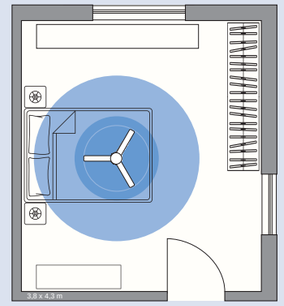


Fig. 12: Summer ventilation in the bedroom

A sleep timer that switches off the ceiling fan after a preset time is useful in the bedroom. This way, you can use pleasant cooling to fall asleep and do not expose yourself to the risk of health consequences from a strong draught that lasts all night.

A sleep timer is included as standard in many of our ECO fans and is operated via the fan's remote control.

Ceiling fans for heat recirculation in winter

Heated air has a lower specific weight than cold air. Following the laws of physics, it rises and accumulates under the ceiling of the room.

This phenomenon is familiar to anyone who has ever stood on a ladder in a heated room in winter and carried out work on the ceiling. This causes a considerable temperature difference between the ceiling and the floor. The higher the room, the greater the difference.

This enormous „heat reserve“ is conducted back into the occupied area without draughts by a ceiling fan with appropriate blade profiling. Without additional heating, the temperature at floor level is increased significantly. Thus the device pays for itself within 2 to 3 heating periods! The savings are fully automatic. This is because the thermostats of the radiators recognise the higher temperature and switch to heating mode later.

If you consider that, according to a rule of thumb, a 1 °C higher room temperature corresponds to about 6% more heating costs, a lot of money can be saved with little effort. The temperature difference between ceiling and floor can be calculated using the following simplified formula*:

$$t_{Ceiling} = t_{Floor} \times (1+(0{,}115 \times h))$$

$t_{Ceiling}$ = Temperature at the ceiling
t_{Floor} = Temperature at the floor
h = Ceiling height

This is without taking into account extraneous factors such as thermal insulation, solar radiation, etc. A lot of heating energy is wasted here. The heat „stands“ under the ceiling.

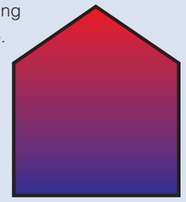


Fig. 13: Thermal layers in a heated, high ceilinged room.*

Example:

In a room 3 metres high, the temperature at floor level is 18°C. The temperature at the ceiling is calculated as follows:

$$18 \times (1+(0{,}115 \times 3)) = 24{,}21\ °C$$

In our example, the temperature difference is more than 6 °C*.

A lot of wasted heating costs.

Air flows with ceiling fans in winter

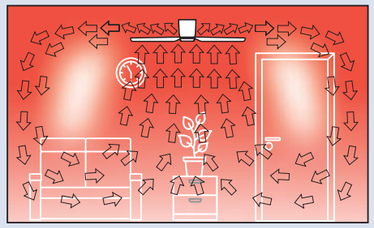


Fig. 14: Reverse running in low spaces

In contrast to summer ventilation, a much lower air velocity of max. 0.1 m/s. at the body is pursued in winter ventilation, in order to avoid a cooling effect.

In rooms with a ceiling height of up to 2.6 m, the ceiling fan runs optimally backwards for this purpose, i.e. it pushes the air towards the ceiling (Fig. 14). This flows down the ceiling along the walls to the floor and is sucked in again by the negative pressure under the fan and conveyed upwards. Since the air velocity at the fan on the suction side is much lower than on the pressure side, the air movement in the occupied zone is hardly perceptible.

If the room is higher than 2.6 m, a ceiling fan should be operated forward, i.e. conveying the air downwards, even in winter. Otherwise, due to the natural buoyancy of the warm air, there is a danger in reverse operation, so it will not reach the floor and will flow back upwards towards the ceiling (Fig. 15).

The room then remains cold underfoot and the desired effect is not achieved. Decisive for the heat recirculation in the forward direction (Fig. 16) in high rooms is the fine adjustment of the speed and thus of the air velocity. Our ECO ceiling fans have also been specially designed for this purpose. All these models have 6 speed levels, a very low lowest level and are subtly graduated.

This means that even in winter, when people are very sensitive to draughts, the best air speed can always be selected.

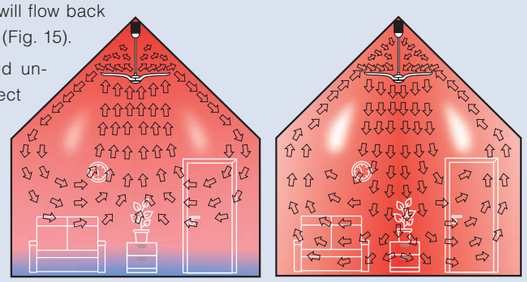


Fig. 15: Running backwards in high rooms, it remains cold underfoot

Fig. 16: Forward running, the warm air reaches the ground

Design of ceiling fans for heat recirculation in winter

Every ceiling fan that is designed for cooling in summer, in principle, can also be used for heat recirculation in winter. However, it is important to be able to generate an air flow that is as slow as possible. Due to the slower and draught-free flow, it can take up to 15 minutes to equalise the temperatures, depending on the area.

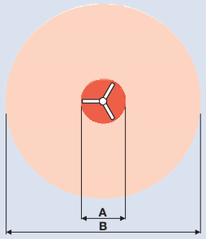


Fig. 17: Area of effect of a ceiling fan in heat recirculation in winter

The highest air velocity (Fig. 17) also prevails during heat recirculation with ceiling fans in winter directly under the fan's blade radius (A). The effective area, i.e. the surface area for heat recirculation in winter, is 4.5 times the diameter of the fan (B), which is considerably larger than the effective area for summer ventilation.

Especially in high rooms , such as an attic studio, with e.g. a stove, the warm air from the heat source rises directly upwards under the ceiling and gathers there.

For the users of the room, only the radiant heat of the stove arrives in its direct vicinity. Most of the heat emitted by the stove rises upwards to the ceiling as warm air and remains unused.

The correct use of a ceiling fan can save enormous heating costs.

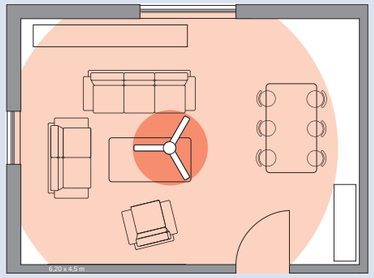
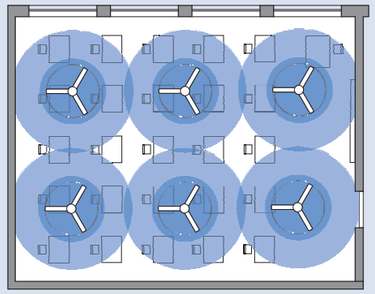


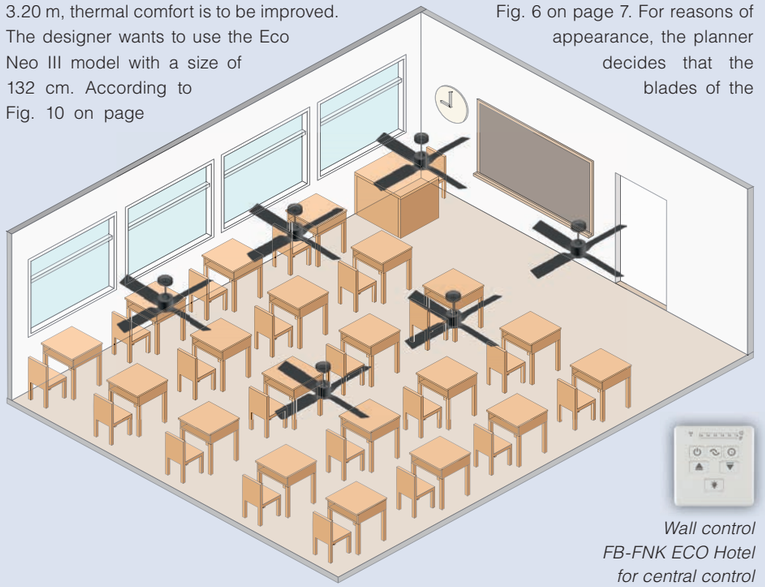
Fig. 18: The room in Figs. 10 and 11 when used purely for heat recirculation

*without air movement, air exchange and corresponding time period

Design example ceiling fans in schools

In Switzerland and France, ceiling fans have long been standard in schools. Relatively low investments are offset by high benefits in terms of improved thermal comfort for teaching staff and students. In a 9 x 7 m classroom with a ceiling height of 3.20 m, thermal comfort is to be improved. The designer wants to use the Eco Neo III model with a size of 132 cm. According to Fig. 10 on page 9, this results in an effective area in the secondary air flow of 2.4 x 1.32 m, i.e. a circular area with 3.168 m Ø. These circular areas are distributed accordingly on the adjacent floor plan. The distance ceiling - sash should be at least 0.3 x fan Ø, i.e. 0.396 m, according to Fig. 6 on page 7. For reasons of appearance, the planner decides that the blades of the ceiling fans should be arranged at 2.7 m. The distance between the ceiling and the fan is then calculated from the dimensions table on page 126. From the dimension table on page 126, this results in the use of a 60 cm ceiling rod that is shortened by (810 mm - 500 mm) 310 mm.





Wall control FB-FNK ECO Hotel for central control

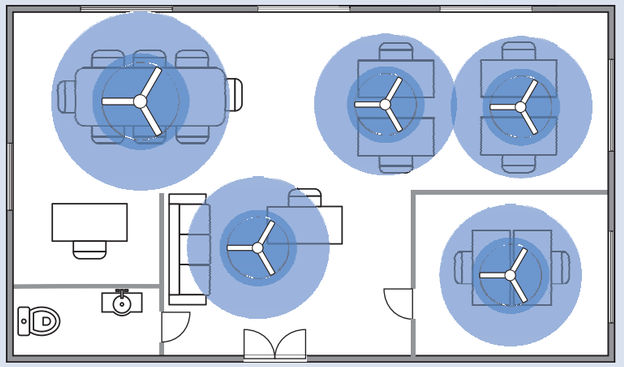
A central wall control **FB-FNK ECO Hotel A #86200** (page 133), which is mounted on the wall near the teacher's desk, is used to control the fans together.

Alternatively, a version of the fans with 0-10 VDC interface is used, which can be controlled in speed and running direction via the building management system or the wired wall potentiometer **POT-R 0-10V #85251** from page 133.

Design example of ceiling fans in offices

Ceiling fans also create more comfort for employees in offices and meeting rooms in summer, when temperatures are higher. In Central Europe, temperate climate zones, ceiling fans are the cost-effective choice both in terms of purchase, but much more importantly in terms of follow-up energy costs. The design is based on the effective area with 2.4 times the diameter of the fan (Fig. 10, page 9).

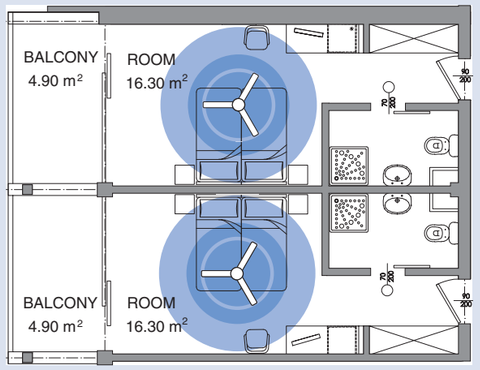
What is important here is the individual control of the ceiling fans by remote control or wall remote control or wall control, as every person perceives moving air differently.



Design example hotel room

In many hotel rooms, they are now a well-established team: the ventilation system and the ceiling fan. The ventilation system ensures that stale air is exchanged for fresh air and transports any moisture to the outside to prevent damage to the building fabric. A ceiling fan improves the thermal comfort of the guest at higher temperatures. And quite incidentally, a ceiling fan with or without a light can be a very decorative furnishing item in a hotel room. Here, too, the low consumption and the relatively low acquisition costs favour the use of ceiling fans.

FB-FNK ECO Hotel wall control - the hotel guests won't take it with them



Fans through History

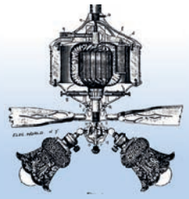
1896: Edison Orange, NY, USA, battery powered table fan with a 230 mm blade diameter

Late C19th: Junior C.T. Fardwell table fan operated by water pressure

Late C19th: Le Zephyr, Paris – clock-work, spring-driven, fan

1880

2. April 1898: Schematic representation of an electric ceiling fan in "The Electric World"



1908: AEG, Germany, Peter Behrens, cast iron and steel, 300 mm blade diameter

Circa 1910: Emerson, St.Louis, Table fan, 320 mm blade diameter

1910

1919: WJH Strong's Lake Breeze Motor, which was driven by the combustion of kerosene, using the principle of the Stirling engine. At that time it cost $22.50, representing about one fifth of the average monthly income. The blade diameter was 410 mm.

Ca. 1940: Aeros, Germany, aluminium and sheet steel, blade diameter 300 mm

1920: Extract from The Safety Car Heating and Light Company

1920

1945: Aeros, Germany, cast iron and sheet steel, blade diameter 250 mm

1948: Marelli, Italy, cast iron and sheet steel, blade diameter 200 mm

Ca. 1955: Hurricane Aghetto, Turin, Italy, synthetic resin, aluminium and vinyl, blade diameter 200 mm

Ca. 1950: Fabbriche Elettrotecniche Riunite, Italy, Rubber and Steel, blade diameter 250 mm

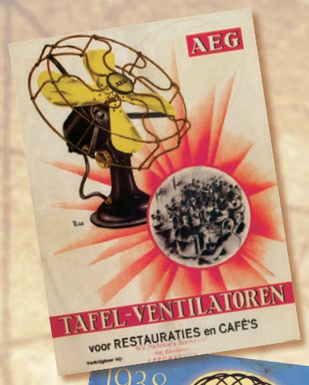
1950

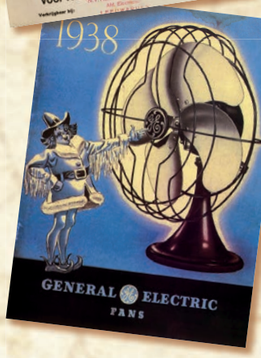
1971: Braun, Germany, HL70, designed by R. Weiss/ J. Geubel, plastic, tangential impeller, blade diameter 60 mm

1964: Vortice, Italy, VQ3, plastic and chromium plated steel, blade diameter 200 mm

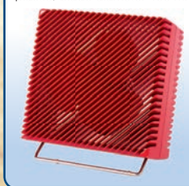
1955: Vortice, Italy, Atomium, Attilio Pagani, plastic and brass, blade diameter 200 mm

1955





1975: Vortice, Italy, Ariante, designed by M. Zanusoi, ABS plastic, blade diameter 150 mm



1975

The primary use of fans is to cool people during the summer heat. Even in ancient Egypt, fan bearers were a sign of a pleasant and active life.

Small fans that were operated by a wind-up spring mechanism could already be found in the 18th century. Thanks to an invention by the English naturalist Stephen Hales, fans moved large quantities of air. On ships or in industrial production, among other places, they sucked in the air from outside and conveyed fresh air into the interior. For a long time, fans were driven by muscle power, later by fuels such as kerosene or steam engines with idler pulleys and drive belts.

The first ceiling fans appeared in the United States in 1860. At the beginning of the Industrial Revolution, workers sweated in steam-powered factories and were grateful for cooling provided by these early, two-bladed ceiling fans: The air flow reduces heat build-up on the human skin surface, which creates a cooling effect.

In 1882, the German-American Philip Diehl, who worked as a technician for the Singer Company, fitted an electric motor with an impeller and mounted the construction on the ceiling, which was much more space-saving. Already by the turn of the century, many factories in the USA, as well as upper class households, were already equipped with this novel, cooling marvel.

For the first electrical table fan, the American electrical engineer Schyler Skaats Wheeler received the prestigious John Scott Award in 1904 for outstanding achievements in increasing living comfort and quality of life. The demand for small fans increased, so that European companies such as AEG also brought the first of their own devices onto the market.

Later, the developed ceiling fans were fitted with four rather than two blades, which improved their smoothness and energy efficiency. In the "Golden Twenties" there was hardly a bar, a restaurant, a drugstore, grocery store or a factory that did not use this new miracle of technology for cooling.

With the Great Depression and its consequences for the population, ceiling fans went completely out of fashion. Within a short time air conditioning units came to dominate the American market in spite of their enormous power requirements; electricity from fossil fuels like oil and coal was cheap and ceiling fans were only for those with nostalgia. Only a few US manufacturers still produced ceiling fans. This was the opportunity that some Far Eastern manufacturers grasped.

They were low priced and had sufficient experience in the field, because in many countries with tropical climates ceiling fans continued to be a product that was well-liked and in frequent use – especially where air conditioners did not succeed among the general population because of their price. Ceiling fans experienced a renaissance at the end of the 70s as a result of the oil crisis and rising electricity costs. Suddenly in the USA, the low priced and, compared to air conditioning units, power-saving ceiling fans became attractive again.

A real run on the traditional product set in and helped many newly founded US manufactures to flourish. Unlike in the first decade of the century, when every part was "Made in the USA", many components of this new generation of devices came from Asia, making the price of even high-quality products affordable for mass market consumers.

In Central European countries with a temperate climate, the ceiling fan remained a luxury product for the few hot summer months. In warmer countries such as Spain, Greece, the south of France and especially in Italy, it quickly found new friends as a cooling lifestyle product and conquered the mass market.

ECO PLANO II

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

25 YEARS
LIMITED MOTOR
WARRANTY

2, 3 or 4
blades installation as you prefer!

SLOW MOTION
Speed 1 is guaranteed to work "draught-free"

6 SPEEDS

WINTER/ SUMMER

MAX. 15/22 m²

0 - 10 V
Also available as 0 - 10 V Model

WiFi

in 2 sizes with Ø 112 and 132 cm available!

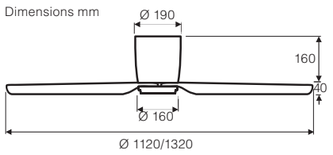
LOW PROFILE!
especially made for low-ceilinged rooms

- Very low profile for installation in low-ceilinged rooms.
- Available in two sizes: for small rooms up to 15 m² and for medium rooms up to 22 m².
- Forward/reverse (summer/winter) by remote control.
- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- Balanced motor and blades.
- 4 blades included: 2, 3 or 4 installable.

Options:

- Dimmable light kits type EP-LED adaptable
- Hotel wall control **FB-FNK ECO A #86200** (p. 133).

Dimensions mm



Model	112	132
No. of blades	4	
Power motor (W)	1.0 - 13	1.1 - 28
Voltage (V/Hz)	100-240/50-60	
Size Ø (cm/")	112/44	132/52
No. of speeds (with R/C)	6	
Rev. (RPM)	30 - 208	30 - 207
Weight (kg)	5.9	6.4

Installation: 2 screws Ø min. 4.5 mm
separation 68 - 94 mm

Further technical data on pages 122 and 126

LED-Light kit ECO PLANO II

Ultra-flat yet bright as day: the ready-to-install luminair complements the ECO PLANO II and immerses your room in a cosy, warm white light.

- Opal glass lamp with LED panel, 12 Watt.
- Dimmable via the remote control of ECO PLANO II.
- Quick and easy installation, subsequent connection possibe.
- Overall height only 35 mm.
- Available in all housing finishes.

Dimensions mm

Lamp	LED
Power max. (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

LED module QL2413N7Y

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

Product	Code No.	Housing Finish
Light kit EP-LED BN	**2761**	Brushed chrome
Light kit EP-LED WE	**2762**	White
Light kit EP-LED BG	**2763**	Basalt grey
Light kit EP-LED BZ	**2764**	Antique bronze
Light kit EP-LED LG	**2765**	Light grey

ECO PLANO II 112

Product	Code No.	Code No.	Ø cm	Housing Finish	Blade Finish
112 BN-SI	**311280**	**311280W**	112	Brushed chrome	Silver
112 WE-WE	**311283**	**311283W**	112	White	White
112 BG-BG	**311284**	**311284W**	112	Basalt grey	Basalt grey
112 BZ-NB	**311282**	**311282W**	112	Antique bronze	Walnut
112 LG-LG	**311285**	**311285W**	112	Light grey	Light grey

ECO PLANO II 132

Product	Code No.	Code No.	Ø cm	Housing Finish	Blade Finish
132 BN-SI	**313280**	**313280W**	132	Brushed chrome	Silver
132 WE-WE	**313283**	**313283W**	132	White	White
132 BG-BG	**313284**	**313284W**	132	Basalt grey	Basalt grey
132 BZ-NB	**313282**	**313282W**	132	Antique bronze	Walnut
132 LG-LG	**313285**	**313285W**	132	Light grey	Light grey

Eco Plano Wood

NEW

ECO PLANO WOOD BN-NT
#313287

Solid wood blades – less than 20 cm height!
This ceiling fan fits perfectly in rooms with a ceiling height of 2.5 m – and still keeps the distance of 2.3 m from the floor to the lower edge of the blades prescribed in EN 60335-2-80.

BG-SW
#313296

WE-WE
#313291

BN-NB
#313288

BZ-NB
#313294

LG-LG
#313286

WE-NT
#313292

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

25 YEARS
LIMITED MOTOR
WARRANTY

6 SPEEDS

WINTER/ SUMMER

MAX. 23 m²

0 - 10 V
Also available as 0 - 10 V Model

WiFi

LOW PROFILE!
especially made for low-ceilinged rooms

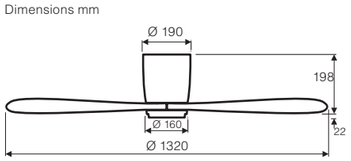
SLOW MOTION
Speed 1 is guaranteed to work "draught-free"

- Very low profile.
- 3 blades, handmade from solid wood.
- Many different housing and blade colours available.
- Forward/reverse (summer/winter) by remote control.
- 6 speeds by remote control, including sleep timer.
- Balanced motor and blades.
- Installation only on straight ceilings.

Options:

- Light kit not adaptable.
- Hotel wall control **FB-FNK ECO A #86200** (p. 133)

Dimensions mm



No. of blades	3
Power motor (W)	1.0 - 21.3
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/")	132/52
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 210
Weight (kg)	6.0

Installation: 2 screws Ø min. 4.5 mm
separation 68 - 94 mm

Further technical data on pages 122 and 126

Eco Plano Wood

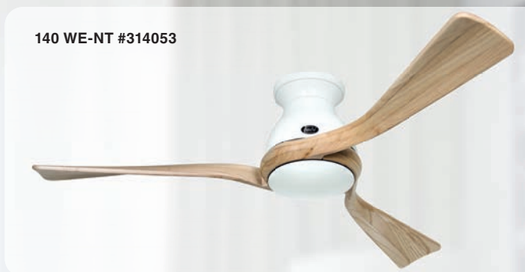
Product	Code No.	Code No.	Housing Finish	Blade Finish
BN-NB	313288	313288W	Brushed chrome	Solid wood walnut stained
BN-NT	313287	313287W	Brushed chrome	Solid wood natural
BN-WE	313289	313289W	Brushed chrome	Solid wood white
BN-SW	313290	313290W	Brushed chrome	Solid wood black
WE-WE	313291	313291W	White	Solid wood white
WE- NT	313292	313292W	White	Solid wood natural
WE-LG	313293	313293W	White	Solid wood light grey

Product	Code No.	Code No.	Housing Finish	Blade Finish
BZ-NB	313294	313294W	Bronze	Solid wood walnut stained
BZ-NT	313295	313295W	Bronze	Solid wood natural
BG-SW	313296	313296W	Basalt grey	Solid wood black
BG-LG	313297	313297W	Basalt grey	Solid wood light grey
LG-LG	313286	313286W	Light grey	Solid wood light grey
LG-SW	313299	313299W	Light grey	Solid wood black
LG-WE	313277	313277W	Light grey	Solid wood white

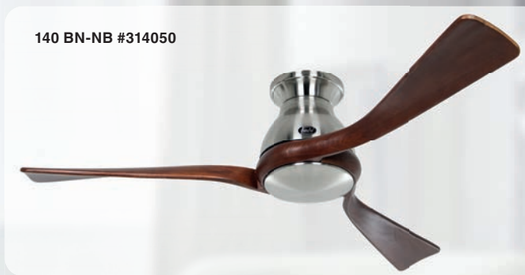
Eco Regento

ECO REGENTO 140 BN-NT
#314051 and
Light kit PR-LED BN #3161

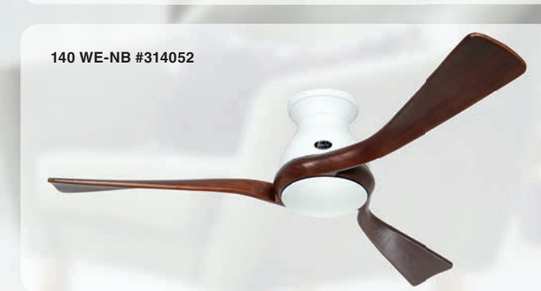
140 BN-NB
#314050 and
Light kit
PR-LED BN #3161



140 WE-NT #314053



140 BN-NB #314050



140 WE-NB #314052

140 BN-NT #314051

25 YEARS
LIMITED MOTOR
WARRANTY

6 SPEEDS

WINTER/ SUMMER

MAX. 25 m²

LOW PROFILE!
especially made for low-ceilinged rooms

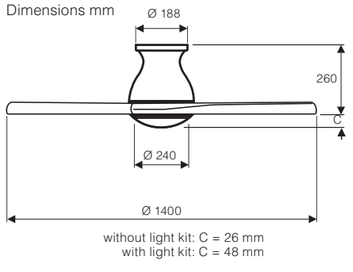
SLOW MOTION
Speed 1 is guaranteed to work "draught-free"

- Forward/reverse (summer/winter) by remote control.
- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- Balanced motor and blades.
- 3 blades, handmade from layered glued solid wood.
- Installation only on straight ceilings.
- Prepared for light kit installation.

Options:

- Optional light kit PR-LED combinable.
- Hotel wall control **FB-FNK ECO A #86200** (p. 133)

Dimensions mm



without light kit: C = 26 mm
with light kit: C = 48 mm

No. of blades	3
Power motor (W)	1.2 - 27
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/")	140/55
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 132
Weight (kg)	6.4

Installation: 2 screws Ø min. 4.5 mm
separation 66 - 90 mm

Further technical data on pages 122 and 126

Eco Regento

Product	Code No.	Size Ø	Housing Finish	Blade Finish
140 BN-NB	**314050**	140 cm	Brushed chrome	Walnut finish
140 BN-NT	**314051**	140 cm	Brushed chrome	Natural wood
140 WE-NB	**314052**	140 cm	White	Walnut finish
140 WE-NT	**314053**	140 cm	White	Natural wood

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

LED-Light kit Eco Regento

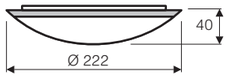
The light kit made of frosted, white glass is a special addition to the ECO REGENTO. Its shape fits seamlessly into the design of the fan.

- Opal glass lamp with LED panel, 12 Watt.
- Dimmable by remote control of ECO REGENTO.
- Light colour adjustable: 3,000, 4,000 or 5,000 K.
- Quick and easy installation, subsequent connection possibe.
- Low overall height.

Light kit PR-LED WE #3160

Light kit PR-LED BN #3161

Light kit PR-LED



Dimensions mm

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

LED module QL2415SYB

Lamp	LED
Power (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

Product	Code No.	Housing Finish
Light kit PR-LED BN	**3161**	Brushed chrome
Light kit PR-LED WE	**3160**	White

ECO PALLAS 116 NEW

ECO PALLAS 116 BN-AH/BU
#311670

116 BN-EA/NB
#311671 and **Light kit**
PR-LED BN #3161

116 BN-EA/NB #311671

116 WE-WE/LG
#311676 and **Light kit**
PR-LED WE #3160

116 WE-EA/NB #311675

116 WE-AH/BU #311674

116 BN-SI/KB #311673

25 YEARS
LIMITED MOTOR
WARRANTY

6 SPEEDS

WINTER/
SUMMER

MAX. 14 m²

LOW PROFILE!
especially made for
low-ceilinged rooms

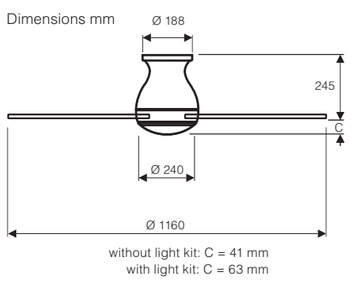
SLOW MOTION
Speed 1 is guaranteed
to work "draught-free"

- Extra flat design for low-ceilinged rooms.
- Forward/reverse (summer/winter) by remote control.
- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- Balanced motor and blades.
- 3 reversible wooden blades with 2 different finishes.
- Prepared for light kit installation.

Options:

- Optional light kit PR-LED combinable.
- Hotel wall control **FB-FNK ECO A #86200** (p. 133)

Dimensions mm



without light kit: C = 41 mm
with light kit: C = 63 mm

No. of blades	3
Power motor (W)	1.2 - 20
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/")	116/45
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 209
Weight (kg)	6.0

Installation: 2 Screws Ø min. 4.5 mm
separation 66 - 90 mm

Further technical data on pages 122 and 126

LED-Light kit ECO PALLAS

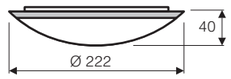
The light kit made of frosted, white glass is a special addition to the ECO VOLARE. Its shape fits seamlessly into the design of the fan.

- Opal glass lamp with LED panel, 12 Watt.
- Dimmable by remote control of ECO PALLAS.
- Light colour adjustable: 3,000, 4,000 or 5,000 K.
- Quick and easy installation, subsequent connection possibe.
- Low overall height.

Light kit PR-LED WE #3160

Light kit PR-LED BN #3161

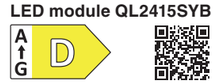
Light kit PR-LED



Dimensions mm

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

LED module QL2415SYB



Lamp	LED
Power (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

Product	Code No.	Housing Finish
Light kit PR-LED BN	**3161**	Brushed chrome
Light kit PR-LED WE	**3160**	White

ECO PALLAS 116

Product	Code No.	Size Ø	Housing Finish	Blade Finish
116 BN-AH/BU	**311670**	116 cm	Brushed chrome	Maple/Beech
116 BN-EA/NB	**311671**	116 cm	Brushed chrome	Antique Oak/Walnut
116 BN-WE/LG	**311672**	116 cm	Brushed chrome	White/Light grey
116 BN-SI/KI	**311673**	116 cm	Brushed chrome	Silber/Kirschbaum
116 WE-AH/BU	**311674**	116 cm	White	Maple/Beech
116 WE-EA/NB	**311675**	116 cm	White	Antique Oak/Walnut
116 WE-WE/LG	**311676**	116 cm	White	White/Light grey
116 WE-SI/KI	**311677**	116 cm	White	Silver/Cherry

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

Eco Pallas 142 NEW

ECO PALLAS 142 BN-SI/KI
#314273 and
Light kit PR-LED BN #3161

142 WE-WE/LG
#314276 and **Light kit**
PR-LED WE #3160

142 WE-EA/NB #314275

142 WE-AH/BU #314274

142 BN-WE/LG #314272

142 BN-EA/NB #314271

142 BN-AH/BU #314270

25 YEARS
LIMITED MOTOR
WARRANTY

6 SPEEDS

WINTER/
SUMMER

MAX. 20 m²

LOW PROFILE!
especially made for
low-ceilinged rooms

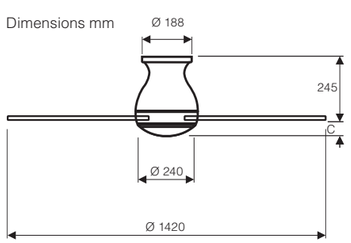
SLOW MOTION
Speed 1 is guaranteed
to work "draught-free"

- Extra flat design for low-ceilinged rooms.
- Forward/reverse (summer/winter) by remote control.
- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- Balanced motor and blades.
- 3 reversible wooden blades, with 2 different finishes.
- Installation only on straight ceilings.
- Prepared for light kit installation.

Options:

- Optional light kit PR-LED combinable.
- Hotel wall control **FB-FNK ECO A #86200** (p. 133)

Dimensions mm



without light kit: C = 41 mm
with light kit: C = 63 mm

No. of blades	3
Power motor (W)	1.2 - 27
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/")	142/56
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 182
Weight (kg)	6.2

Installation: 2 screws Ø min. 4.5 mm
separation 66 - 90 mm

Eco Pallas 142

Product	Code No.	Size Ø	Housing Finish	Blade Finish
142 BN-AH/BU	**314270**	142 cm	Brushed chrome	Maple/Beech
142 BN-EA/NB	**314271**	142 cm	Brushed chrome	Antique Oak/Walnut
142 BN-WE/LG	**314272**	142 cm	Brushed chrome	White/Light grey
142 BN-SI/KI	**314273**	142 cm	Brushed chrome	Silver/Cherry
142 WE-AH/BU	**314274**	142 cm	White	Maple/Beech
142 WE-EA/NB	**314275**	142 cm	White	Antique Oak/Walnut
142 WE-WE/LG	**314276**	142 cm	White	White/Light grey
142 WE-SI/KI	**314277**	142 cm	White	Silver/Cherry

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

Further technical data on pages 122 and 126

LED-Light kit Eco Pallas

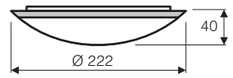
The light kit made of frosted, white glass is a special addition to the ECO PALLAS. Its shape fits seamlessly into the design of the fan.

- Opal glass lamp with LED panel, 12 Watt.
- Dimmable by remote control of ECO PALLAS.
- Light colour adjustable: 3,000, 4,000 or 5,000 K.
- Quick and easy installation, subsequent connection possibe.
- Low overall height.

Light kit PR-LED WE #3160

Light kit PR-LED BN #3161

Light kit PR-LED



Dimensions mm

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

LED module QL2415SYB

Lamp	LED
Power (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

Product	Code No.	Housing Finish
Light kit PR-LED BN	**3161**	Brushed chrome
Light kit PR-LED WE	**3160**	White

ECO CONCEPT

ECO CONCEPT 152
LG-WE/LG #921560

The cylindrical shape of the motor housing continues in the canopy and in the motor cover.

152 WE-WE/LG
#921562

152 BN-NB/KI
#921561

132 WE-WE/LG
#921362

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

2, 3 or 4
blades installation as you prefer!

25 YEARS
LIMITED MOTOR
WARRANTY

6 SPEEDS

WINTER/ SUMMER

MAX. 25/35 m²

0 - 10 V
Also available as 0 - 10 V Model

WiFi

in 2 sizes with Ø 132 and 152 cm available!

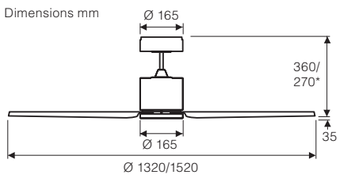
(((SLOW MOTION)))
Speed 1 is guaranteed to work "draught-free"

- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- Forward/reverse (summer/winter) by remote control.
- Balanced motor and blades.
- Installation on sloped ceilings up to 23°.
- 4 blades included.
- Prepared for light kit installation.

Options:

- Optional light kits type EN5x-LED combinable.
- Longer downrods for high ceilings (page 142).
- Hotel wall control **FB-FNK ECO A #86200** (p. 133).

Dimensions mm



*shows installation with shortened downrod

Model	132	152
No. of blades	4	
Power motor (W)	2.3 - 27	2.5 - 27
Voltage (V/Hz)	100-240/50-60	
Size Ø (cm/*)	132/52	152/60
No. of speeds (with R/C)	6	
Rev. (RPM)	30 - 185	30 - 146
Weight (kg)	5.9	6.1

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Further technical data on pages 122 and 126

LED-Light kit ECO CONCEPT

The light kit made of frosted, white glass is a special addition to the ECO CONCEPT. Profile and underside also appear straight and consistent.

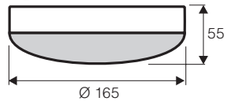
- Opal glass lamp with LED panel, 12 Watt.
- Quick and easy installation, subsequent connection possibe.
- Dimmable by remote control of ECO CONCEPT.
- Low overall height – two discreet forms:

Light kit EN5Z-LED
Flat glass cylinder

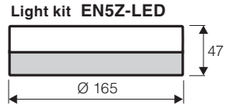
Light kit EN5R-LED
Flat glass bowl

Dimensions mm

Light kit EN5R-LED



Light kit EN5Z-LED



LED module QL2413N7Y

A ↑ G D

Lamp	LED
Power max. (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

Product	Code No.	Code No.	Housing Finish
Light kit	**EN5R-LED**	**EN5Z-LED**	
EN5x-LED BN	**2685**	**2785**	Brushed chrome
EN5x-LED WE	**2686**	**2786**	White
EN5x-LED LG	**2687**	**2787**	Light grey

ECO CONCEPT 132

Product	Code No.	Code No.	Ø cm	Housing Finish	Reversible Blade Finish
132 LG-WE/LG	**921360**	**921360W**	132	Light grey	White/Light grey
132 BN-NB/KI	**921361**	**921361W**	132	Brushed chrome	Walnut/Cherry
132 WE-WE/LG	**921362**	**921362W**	132	White	White/Light grey

ECO CONCEPT 152

Product	Code No.	Code No.	Ø cm	Housing Finish	Reversible Blade Finish
152 LG-WE/LG	**921560**	**921560W**	152	Light grey	White/Light grey
152 BN-NB/KI	**921561**	**921561W**	152	Brushed chrome	Walnut/Cherry
152 WE-WE/LG	**921562**	**921562W**	152	White	White/Light grey

Eco Dynamix II

25 YEARS LIMITED MOTOR WARRANTY

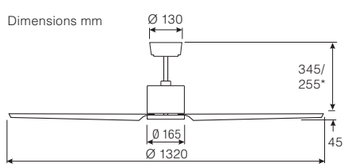
6 SPEEDS | WINTER/ SUMMER | MAX. 25 m² | 0 - 10 V Also available as 0 - 10 V Model | WiFi | **2, 3 or 4 blades installation as you prefer!** | SLOW MOTION Speed 1 is guaranteed to work "draught-free"

- Modern, dynamic blade design.
- Forward/reverse (summer/winter) by remote control.
- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- 4 high-quality plastic blades included.
- Installation on sloped ceilings up to 22°.
- Balanced motor and blades.

Options:

- Optional light kits type EN5x-LED combinable.
- Longer downrods for high ceilings (page 142).
- Hotel wall control **FB-FNK ECO A #86200** (p. 133).

Dimensions mm



*shows installation with shortened downrod

No. of blades	4
Power motor (W)	2.3 - 28
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/*)	132/52
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 177
Weight (kg)	7.2

Installation: 2 screws Ø min. 4.5 mm
separation 70 - 110 mm

Further technical data on pages 122 and 126

LED-Light kit Eco Dynamix

The light kit made of frosted, white glass is a special addition to the ECO DYNAMIX II.

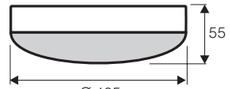
- Luminaire with LED panel, 12 Watt.
- Quick and easy installation, subsequent connection possibe.
- Dimmable by remote control of ECO DYNAMIX II.
- Low overall height.
- Available as glass bowl or glass cylinder.

Light kit EN5Z-LED
Glass cylinder

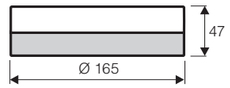
Light kit EN5R-LED
Glass bowl

Dimensions mm

Light kit EN5R-LED



Light kit EN5Z-LED



LED module QL2413N7Y

Lamp	LED
Power max. (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

Product	Code No.	Code No.	Housing Finish
Light kit	**EN5R-LED**	**EN5Z-LED**	
EN5x-LED BN	**2685**	**2785**	Brushed chrome
EN5x-LED WE	**2686**	**2786**	White
EN5x-LED BG	**2688**	**2788**	Basalt grey

Eco Dynamix II

Product	Code No.	Code No.	Housing Finish	Blade Finish
132 BN-SI	**313273**	**313273W**	Brushed chrome	Composite silver
132 WE-WE	**313274**	**313274W**	White	Composite white
132 BG-BG	**313275**	**313275W**	Basalt grey	Composite basalt grey

Energy saving **DC/EC motor**

Voltage/ Frequency **100-240 V/ 50-60 Hz** suitable for many countries

Eco Genuino 122

ECO GENUINO 122 BN-NB
#312215

122 BN-NT
#312216

122 MG-NB
#312221

Shapely. Precious. Powerfull.
Handicraft perfection and fine materials distinguish the ECO GENUINO.

122 MS-NB
#312217

122 MW-NT
#312219

Energy saving DC/EC motor

6 SPEEDS

WINTER/ SUMMER

MAX. 16 m²

Low level even in winter guarantees "*draught-free*"

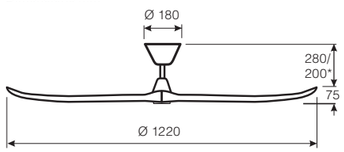
25 YEARS* LIMITED MOTOR *WARRANTY

- Model ECO GENUINO 122 for offices and living areas up to 16 m².
- Housing finish in brushed chrome or brushed brass, matt black or matt white.
- Forward/reverse (summer/winter) by remote control.
- 6 speeds by remote control, incl. sleep timer.
- Blades, milled from layer-glued solid wood.
- Balanced motor and blades.
- Installation on sloped ceilings up to 12°.

Options:

- Longer downrods for high ceilings (page 143).
- Hotel wall control **FB-FNK ECO B #86201** (p. 133).

Dimensions mm



*shows installation with shortened downrod

No. of blades	3
Power motor (W)	3.2 - 11.3
Voltage (V/Hz)	220-240/50
Size Ø (cm/*)	122/48
No. of speeds (with R/C)	6
Rev. (RPM)	50 - 144
Weight (kg)	6.8

Installation: 2 screws Ø min. 4.5 mm
separation 75 - 145 mm

Eco Genuino 122

Product	Code No.	Housing Finish	Blade Finish
122 BN-NB	**312215**	Brushed chrome	Walnut finished
122 BN-NT	**312216**	Brushed chrome	Natural wood, clear varnished
122 MG-NB	**312221**	Brushed brass	Walnut finished
122 MG-NT	**312222**	Brushed brass	Natural wood, clear varnished

Product	Code No.	Housing Finish	Blade Finish
122 MS-NB	**312217**	Matt black	Walnut finished
122 MS-NT	**312218**	Matt black	Natural wood, clear varnished
122 MW-NB	**312220**	Matt white	Walnut finished
122 MW-NT	**312219**	Matt white	Natural wood, clear varnished

Further technical data on pages 122 and 126

Eco Genuino 152

152 BN-MS
#315225

152 BN-MW
#315224

6 SPEEDS

WINTER/ SUMMER

MAX. 35 m²

Low level even in winter guarantees "*draught-free*"

25 YEARS LIMITED MOTOR **WARRANTY**

Energy saving DC/EC motor

ECO GENUINO BN-NB
3 blades milled from layer-glued, solid wood, walnut finished

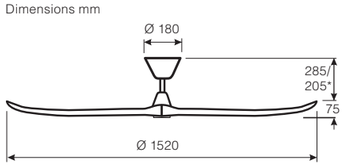
152 BN-NT
#315216

- Model ECO GENUINO 152 for offices and living areas up to 35 m².
- Forward/reverse (summer/winter) by remote control.
- 6 speeds by remote control, incl. sleep timer.
- Blades milled from layer-glued solid wood.
- Balanced motor and blades.
- Installation on sloped ceilings up to 12°.

Options:

- Longer downrods for high or sloped ceilings available (page 143).
- Hotel wall control **FB-FNK ECO B #86201** (p. 133).

Dimensions mm



*shows installation with shortened downrod

No. of blades	3
Power motor (W)	3.3 - 16.6
Voltage (V/Hz)	220-240/50
Size Ø (cm/*)	152/60
No. of speeds (with R/C)	6
Rev. (RPM)	50 - 143
Weight (kg)	7.0

Installation: 2 screws Ø min. 4.5 mm separation 75 - 145 mm

Eco Genuino 152

Product	Code No.	Housing Finish	Blade Finish
152 BN-MS	**315225**	Brushed chrome	Matt black
152 BN-MW	**315224**	Brushed chrome	Matt white
152 BN-NB	**315215**	Brushed chrome	Walnut finished
152 BN-NT	**315216**	Brushed chrome	Natural wood, clear varnished

Further technical data on pages 122 and 126

Eco Genuino 152


152 MG-MS
#315233


152 MG-NB
#315230


152 MG-MW
#315232


152 MG-NT
#315231


152 MS-MS
#315227


152 MS-MW
#315226


152 MS-NB
#315217


152 MS-NT
#315218


152 MW-MS
#315229


152 MW-MW
#315228

Eco Genuino 152

Product	Code No.	Housing Finish	Blade Finish
152 MG-MS	**315233**	Brushed brass	Matt black
152 MG-MW	**315232**	Brushed brass	Matt white

Product	Code No.	Housing Finish	Blade Finish
152 MG-NB	**315230**	Brushed brass	Walnut finished
152 MG-NT	**315231**	Brushed brass	Natural wood, clear varnished

Eco Genuino 152

Product	Code No.	Housing Finish	Blade Finish
152 MS-MS	**315227**	Matt black	Matt black
152 MS-MW	**315226**	Matt black	Matt white
152 MS-NB	**315217**	Matt black	Walnut finished
152 MS-NT	**315218**	Matt black	Natural wood, clear varnished

Product	Code No.	Housing Finish	Blade Finish
152 MW-MS	**315229**	Matt white	Matt black
152 MW-MW	**315228**	Matt white	Matt white
152 MW-NB	**315213**	Matt white	Walnut finished
152 MW-NT	**315214**	Matt white	Natural wood, clear varnished

Eco Genuino 180

ECO GENUINO 180 BN-NB
#318015

ECO GENUINO BN-NB
3 blades milled from layer-glued, solid wood, walnut finished

180 MG-NB
#318021

180 MS-NB
#318017

180 MS-NT
#318018

180 MW-NB
#318019

6 SPEEDS

WINTER/ SUMMER

MAX. 45 m²

Low level even in winter guarantees "*draught-free*"

25 YEARS LIMITED MOTOR WARRANTY

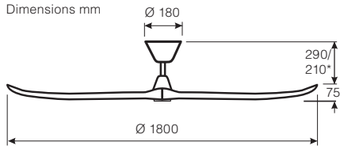
Energy saving
DC/EC motor

- Model ECO GENUINO 180 for offices and living areas up to 45 m².
- Housing finish in brushed chrome or brushed brass, matt black or matt white.
- Forward/reverse (summer/winter) by remote control.
- 6 speeds by remote control, incl. sleep timer.
- Balanced motor and blades.
- Installation on sloped ceilings up to 12°.

Options:

- Longer downrods for high or sloped ceilings available (page 143).
- Hotel wall control **FB-FNK ECO B #86201** (p. 133).

Dimensions mm



*shows installation with shortened downrod

No. of blades	3
Power motor (W)	4.1 - 30
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	180/71
No. of speeds (with R/C)	6
Rev. (RPM)	50 - 132
Weight (kg)	7.6

Installation: 2 screws Ø min. 4.5 mm separation 75 - 145 mm

Further technical data on pages 122 and 126

Eco Genuino 180

Product	Code No.	Housing Finish	Blade Finish
180 BN-NB	**318015**	Brushed chrome	Walnut finished
180 BN-NT	**318016**	Brushed chrome	Natural wood, clear varnished
180 MG-NB	**318021**	Brushed brass	Walnut finished
180 MG-NT	**318022**	Brushed brass	Natural wood, clear varnished

Product	Code No.	Housing Finish	Blade Finish
180 MS-NB	**318017**	Matt black	Walnut finished
180 MS-NT	**318018**	Matt black	Natural wood, clear varnished
180 MW-NB	**318019**	Matt white	Walnut finished
180 MW-NT	**318020**	Matt white	Natural wood, clear varnished

Eco Genuino-L 152

ECO GENUINO-L 152
BN-NT #315260

152 BN-NB
#315261

152 MS-NT
#315265

152 MG-NT
#315275

152 MW-NT
#315270

152 MS-NB
#315266

6 SPEEDS

WINTER/ SUMMER

LED 17 W

MAX. 35 m²

Low level even in winter guarantees "*draught-free*"

25 YEARS LIMITED MOTOR WARRANTY

Energy saving DC/EC motor

- Model ECO GENUINO-L with LED-light kit, 17 W.
- Forward/reverse (summer/winter) by remote control.
- 6 speeds by remote control, incl. light on/off/dimming.
- 3 blades milled from layerglued, solid wood.
- Balanced motor and blades.
- Installation on sloped ceilings up to 18°.

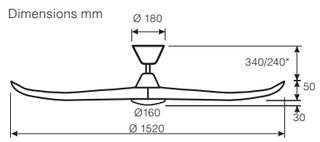
Integrated light kit LED module ML095A-1:

- Light warm white (3,000 K, 1,800 lm).
- Beam angle 120°, Life span 20,000 h.
- CRI 80, lamps dimmable, 17 W.
- Energy class F (Spectrum A to G).

Options:

- Longer downrods for high ceilings available (p. 143).
- Hotel wall control **FB-FNK ECO B #86201** (p. 133).

Dimensions mm



*shows installation with shortened downrod

A G F

LED module ML095A-1

The luminaire contains built-in LED lamps. Energy class F (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

No. of blades	3
Power motor (W)	3.3 - 16.5
Power Lamp max. (W)	17
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	152/60
No. of speeds (with R/C)	6
Rev. (RPM)	50 - 144
Weight (kg)	8.9

Installation: 2 screws Ø min. 4.5 mm separation 75 - 145 mm

Eco Genuino-L

Product	Code No.	Housing Finish	Blade Finish
152 BN-NB	**315261**	Brushed chrome	Walnut finished
152 BN-NT	**315260**	Brushed chrome	Natural wood, clear varnished
152 MS-NB	**315266**	Matt black	Walnut finished
152 MS-NT	**315265**	Matt black	Natural wood, clear varnished
152 MW-NB	**315271**	Matt white	Walnut finished
152 MW-NT	**315270**	Matt white	Natural wood, clear varnished
152 MG-NB	**315276**	Brushed brass	Walnut finished
152 MG-NT	**315275**	Brushed brass	Natural wood, clear varnished

Downrods

Product	Code No.	Housing Finish	Length (cm)
ST 60 BN-EG-L	**991079**	Brushed chrome	60
ST 100 BN-EG-L	**991080**	Brushed chrome	100
ST 60 MW-EG-L	**991084**	Matt white	60
ST 100 MW-EG-L	**991086**	Matt white	100
ST 60 MS-EG-L	**991081**	Matt black	60
ST 100 MS-EG-L	**991085**	Matt black	100
ST 60 MG-EG-L	**991087**	Brushed brass	60
ST 100 MG-EG-L	**991088**	Brushed brass	100

Further technical data on pages 122 and 126

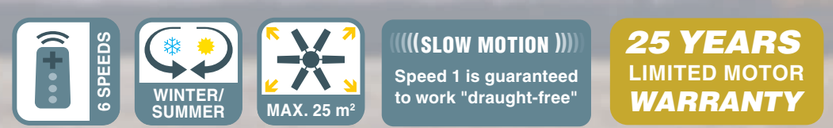
Eco Interior

ECO INTERIOR 140 BN-NT
#314230

140 BN-NB
#314231

140 BN-NB #314231
and **Light kit**
VIT-LED BN #3140

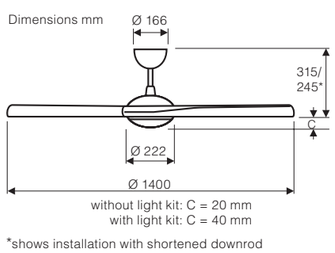
140 BN-NT # 314230
and **Light kit**
VIT-LED BN #3140



- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- Forward/reverse (summer/winter) by remote control.
- Balanced motor and blades.
- 3 blades, handmade from layered glued solid wood.
- Installation on sloped ceilings up to 18°.

Options:

- Light kit VIT-LED optional combinable.
- Longer downrods for high ceilings (page 143).



*shows installation with shortened downrod

No. of blades	3
Power motor (W)	8.6 - 28.5
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	140/55
No. of speeds (with R/C)	6
Rev. (RPM)	38 - 143
Weight (kg)	6.5

Installation: 2 screws Ø min. 4.5 mm
separation 73 - 127 mm

Further technical data on pages 122 and 126

Eco Interior

Product	Code No.	Ø cm	Housing Finish	Blade Finish
140 BN-NT	**314230**	140	Brushed chrome	Natural wood
140 BN-NB	**314231**	140	Brushed chrome	Walnut
140 WE-NT	**314232**	140	White	Natural wood
140 WE-NB	**314233**	140	White	Walnut

LED-Light kit Eco Interior

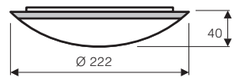
The light kit made of frosted, white glass is a special addition to the ECO INTERIOR. Their shape fits seamlessly into the design of the fan.

- Opal glass lamp with LED panel, 12 Watt.
- Dimmable by remote control of ECO INTERIOR.
- Light colour adjustable: 3,000, 4,000 or 5,000 K.
- Quick and easy installation, subsequent connection possibe.
- Low overall height.

Light kit VIT-LED BN #3140

Light kit VIT-LED BN #3140

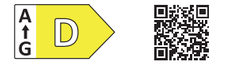
Light kit VIT-LED



Dimensions mm

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to E). The lamps cannot be changed in the luminaire. Replacement LED modules available.

LED module QL2415SYB



Lamp	LED
Power (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

Product	Code No.	Housing Finish
Light kit VIT-LED BN	**3140**	Brushed chrome
Light kit VIT-LED WE	**3143**	White

Downrods

for suspension of the ECO INTERIOR series ceiling fans in rooms with high ceilings.

Available in 60 cm and 120 cm length. Can be shortened to any intermediate size.

Product	Code No.	Finish	Length
ST 60 BN-VIT	**971048**	Brushed chrome	60 cm
ST 60 WE-VIT	**971039**	White	60 cm
ST 120 BN-VIT	**971049**	Brushed chrome	120 cm
ST 120 WE-VIT	**971059**	White	120 cm

AERODYNAMIX ECO

NEW: SIZE 112

AERODYNAMIX ECO
CH #313231 and
NB #19608

BN #313233
and **SI #19611**

WE #313232
and **NB #19608**

BG #313234
and **NT #19610**

WE #313232
and **WE #19609**

COMBINE YOUR DESIGN!

Always choose the appropriate motor finish and the desired blade decor. Popular combinations see price list.

6 SPEEDS

2 x 7 W | E 14 | 2 x 14 W

WINTER/ SUMMER

MAX. 16/25 m²

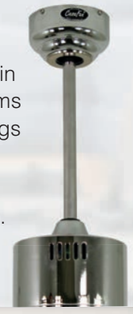
in 2 sizes with Ø 112 and 132 cm available!

Low level even in winter guarantees "*draught-free*"

25 YEARS LIMITED MOTOR *WARRANTY*

Energy saving DC/EC motor

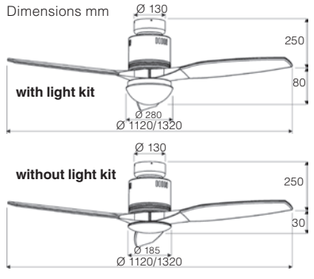
Downrods
for use of Aerodynamix ceiling fans in high ceilinged rooms or on sloped ceilings up to 28°.
Available in 60 cm and 120 cm length. (can be shortened to any length).



CH #313231
and **NB #19608**

- 3 handmade solid wood blades.
- 6 speeds, light on/off by remote control.
- Forward/reverse (summer/winter) by remote control.
- Balanced motor and blades.
- Installing only on straight ceilings – for installing on slopes (up to 28°) additional downrod required.
- Light kit (max. 2 x 40 W, E14, suitable for ESL) and metal light cover always included. Installation with or without light possible.
- Combination system: motor units and blade sets can be combined in any way. Please order motor and blades separately!
- Hotel wall control **FB-FNK ECO B #86201** (p. 133) can be used optionally.

Dimensions mm



No. of blades	3	
Power motor (W)	3.8-11.3	3.6-20.4
Power light kit max. (W)	2 × 40	
Voltage (V/Hz)	220-240/50	
Size Ø (cm/")	112/44	132/52
No. of speeds (w. R/C)	6	
Rev. (RPM)	74-190	72-188
Weight (kg)	9.7	10.0

Installation: 2 screws Ø min. 4.5 mm
separation 75 - 110 mm

Further technical data on pages 122 and 126

AERODYNAMIX ECO

Blades 112 and 132 cm

Product	Code No.	Blade Finish
132 NB	19608	Walnut
132 WE	19609	White
132 SI	19611	Silver
132 NT	19610	Natural wood
112 NB	19612	Walnut
112 WE	19613	White
112 SI	19617	Silver
112 NT	19614	Natural wood

Motor

Product	Code No.	Housing Finish
CH	313231	Polished chrome
WE	313232	White
BN	313233	Brushed chrome
BG	313234	Basalt grey

Light bulbs are not included.

Downrods

Product	Code No.	Finish	Length
ST 60 CH-AD	981037	Polished chrome	60 cm
ST 60 BN-AD	981048	Brushed chrome	60 cm
ST 60 BG-AD	981046	Basalt grey	60 cm
ST 60 WE-AD	981039	White	60 cm
ST 120 CH-AD	981057	Polished chrome	120 cm
ST 120 BN-AD	981049	Brushed chrome	120 cm
ST 120 BG-AD	981002	Basalt grey	120 cm
ST 120 WE-AD	981059	White	120 cm

Popular combinations of motor and blades can be found in our enclosed price list!

Eco Airscrew 152

ECO AIRSCREW 152
MS-GW #315221

6 SPEEDS

WINTER/ SUMMER

MAX. 40 m²

SLOW MOTION
Speed 1 is guaranteed to work "draught-free"

25 YEARS LIMITED MOTOR WARRANTY

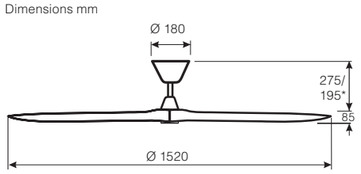
Energy saving DC/EC motor

- ECO AIRSCREW 152 in authentic propeller shape.
- 6 speeds by remote control, incl. sleep timer.
- Forward/reverse (summer/winter) by remote control.
- Housing in brushed chrome or brushed brass, in matt black or matt white.
- 3 blades milled from layer-glued wood.
- Balanced motor and blades.
- Installation on sloped ceilings up to 12°.
- Not suitable for light kits.

Options:

- Longer downrods for installation on high or sloped ceilings available (page 142).
- Hotel wall control **FB-FNK ECO B #86201** (page 133).

Dimensions mm



*shows installation with shortened downrod

No. of blades	3
Power motor (W)	4.4 - 28
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	152/60
No. of speeds (with R/C)	6
Rev. (RPM)	50 - 125
Weight (kg)	7.0

Installation: 2 screws Ø min. 4.5 mm
separation 75 - 145 mm

Further technical data on pages 122 and 126

Eco Airscrew 152


152 BN-BW #315240


152 MG-MW #315254


152 MS-GW #315221


152 BN-MS #315241


152 MG-BW #315252


152 MW-GW #315222


152 MS-BW #315244


152 BN-MW #315242


152 MG-MS #315253


152 MW-BW #315248


152 MS-MS #315245


152 BN-NT #315243


152 MG-NT #315255


152 MW-MW #315250

Eco Airscrew 152

Product	Code No.	Housing Finish	Blade Finish
152 MS-GW	315221	Matt black	Grey washed aged wood
152 MS-BW	315244	Matt black	Brushed white
152 MS-MS	315245	Matt black	Matt black
152 MS-MW	315246	Matt black	Matt white
152 MS-NT	315247	Matt black	Natural wood

Product	Code No.	Housing Finish	Blade Finish
152 BN-GW	315220	Brushed chrome	Grey washed aged wood
152 BN-BW	315240	Brushed chrome	Brushed white
152 BN-MS	315241	Brushed chrome	Matt black
152 BN-MW	315242	Brushed chrome	Matt white
152 BN-NT	315243	Brushed chrome	Natural wood

Eco Airscrew 152

Product	Code No.	Housing Finish	Blade Finish
152 MG-GW	315223	Brushed brass	Grey washed aged wood
152 MG-BW	315252	Brushed brass	Brushed white
152 MG-MS	315253	Brushed brass	Matt black
152 MG-MW	315254	Brushed brass	Matt white
152 MG-NT	315255	Brushed brass	Natural wood

Product	Code No.	Housing Finish	Blade Finish
152 MW-GW	315222	Matt white	Grey washed aged wood
152 MW-BW	315248	Matt white	Brushed white
152 MW-MS	315249	Matt white	Matt black
152 MW-MW	315250	Matt white	Matt white
152 MW-NT	315251	Matt white	Natural wood

AEROPLAN ECO NEW

AEROPLAN ECO BN-WE
#313248

LG-LG #313253

WE-WE #313252

BZ-NB #313243

BN-NB #313246

BN-NT #313247

BN-SW #313245

BG-SW #313242

BN-LG #313244

25 YEARS LIMITED MOTOR WARRANTY

SLOW MOTION
Speed 1 is guaranteed to work "draught-free"

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

- 3 blades milled solid wood.
- 6 speeds by remote control, incl. sleep timer.
- Forward/reverse (summer/winter) by remote control.
- Balanced motor and blades.
- Installation on sloped ceilings up to 30°.
- Light kit not adaptable.

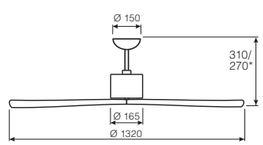
Optionen:

- Longer downrods for installation on high or sloped ceilings available (page 142).
- Hotel wall control **FB-FNK ECO A #86200** (page 133).

No. of blades	3
Power motor (W)	2.7 - 26.5
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/")	132/52
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 226
Weight (kg)	5.7

Installation: 2 screws Ø min. 4,5 mm
separation 70 - 110 mm

Dimensions mm



*shows installation with shortened downrod

Further technical data on pages 122 and 126

AEROPLAN ECO

Product	Code No.	Housing Finish	Blade Finish
BN-NB	**313246**	Brushed chrome	Walnut finished wood
BN-NT	**313247**	Brushed chrome	Natural solid wood
BN-WE	**313248**	Brushed chrome	White solid wood
BN-LG	**313244**	Brushed chrome	Light grey solid wood
BN-SW	**313245**	Brushed chrome	Black solid wood
WE-WE	**313252**	White	White solid wood

Product	Code No.	Housing Finish	Blade Finish
WE-NB	**313249**	White	Walnut finished wood
WE-NT	**313251**	White	Natural solid wood
WE-LG	**313250**	White	Light grey solid wood
BZ-NB	**313243**	Bronze	Walnut finished wood
LG-LG	**313253**	Light grey	Light grey solid wood
BG-SW	**313242**	Basalt grey	Black solid wood

ECO GENUINO-L 152 BN-NB
see page 36

Eco Elements 103

ECO ELEMENTS 103 BN-WN/AH
#510382

103 MA-EA/BU
#510380

103 WE-WE/LG
#510381

103 BA-NB/BU
#510383

103 GR-GR/SW
#510384

25 YEARS LIMITED MOTOR WARRANTY

Energy saving DC/EC motor

Voltage/ Frequency 100-240 V/ 50-60 Hz suitable for many countries

6 SPEEDS

WINTER/ SUMMER

MAX. 13 m²

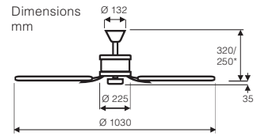
SLOW MOTION
Speed 1 is guaranteed to work "draught-free"

- 6 speeds by remote control, incl. light on/off, sleep timer.
- Forward/reverse (summer/ winter) by remote control.
- Balanced motor and blades.
- Installation on sloped ceilings up to 28°, higher pitch with on-site construction.
- Low profile by installation without downrod.

Options:

- Longer downrods available for high ceilings (page 142).
- Light kits only pre-installed (pages 136/137).
- Hotel wall control **FB-FNK ECO A #86200** (page 133).

Dimensions mm



*shows installation without downrod

Eco Elements 103

Product	Code No.	Housing Finish	Reversible Blade Finish
103 MA-EA/BU	**510380**	Antique brass	Antique oak/Beech
103 BN-WN/AH	**510382**	Brushed chrome	Wengé/Maple
103 WE-WE/LG	**510381**	White	White/Light grey
103 GR-GR/SW	**510384**	Graphite	Graphite/Black
103 BA-NB/BU	**510383**	Antique brown	Walnut/Beech

No. of blades	5
Power motor (W)	1.0 - 14.7
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/")	103/42
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 209
Weight (kg)	6.5

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Further technical data on pages 122 and 126

Eco Elements 132

ECO ELEMENTS
132 BA-NB-BU
#513283

132 BN-WN/AH
#513282

132 GR-GR/SW
#513284

132 MA-EA/BU
#513280

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

25 YEARS
LIMITED MOTOR
WARRANTY

SLOW MOTION
Speed 1 is guaranteed to work "draught-free"

6 SPEEDS

WINTER/ SUMMER

MAX. 25 m²

132 BN
#513282

with **light kit 15 BN #11001**, blade holders **FHN BN #19303**, blades rattan antique **#19902**

132 WE-WE/LG
#513281

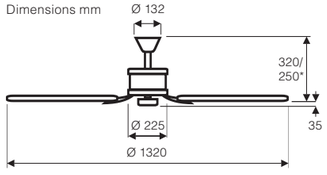
132 MA-EA/BU
#513280

- 6 speeds by remote control, incl. light on/off and sleep timer.
- Forward/reverse (summer/winter) by remote control.
- Installation on sloped ceilings up to 28°.
- Balanced motor and blades.
- Low profile by installation without downrod (only 25 cm ceiling - blades).

Options:

- Longer downrods for high ceilings available (p. 142).
- Light kits only pre-installed! (pages 136/137).
- All blades for dia Ø 132 cm can be used (p. 129 - 131).
- Hotel wall control **FB-FNK ECO A #86200** (page 133).

Dimensions mm



*shows installation without downrod

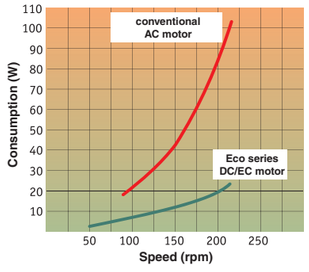
No. of blades	5
Power motor (W)	1.0 - 26
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/*)	132/52
No. of speeds (with RC)	6
Rev. (RPM)	30 - 204
Weight (kg)	6.8

Installation: 2 screws Ø min. 4.5 mm
separation 70 - 110 mm

Further technical data on pages 122 and 126

Eco Elements 132

Product	Code No.	Housing Finish	Reversible Blade Finish
132 MA-EA/BU	**513280**	Antique brass	Antique oak/Beech
132 BN-WN/AH	**513282**	Brushed chrome	Wengé/Maple
132 WE-WE/LG	**513281**	White	White/Light grey
132 GR-GR/SW	**513284**	Graphite	Graphite/Matt black
132 BA-NB/BU	**513283**	Antique brown	Walnut/Beech



Energy consumption of ceiling fans, comparing between conventional AC motors and the patented DC/EC commutated motors, depending on total surface, profile and pitch of blades

Eco Elements 180

ECO ELEMENTS 180
BN-WE/LG #518082

180 MA-EA/NB
#518080

180 WE-WE/LG
#518081

180 BA-EA/NB
#518083

Energy saving DC/EC motor

Voltage/ Frequency 100-240 V/ 50-60 Hz suitable for many countries

25 YEARS LIMITED MOTOR WARRANTY

6 SPEEDS

WINTER/ SUMMER

MAX. 35 m²

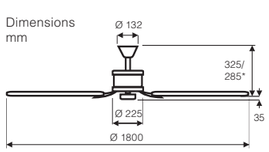
SLOW MOTION
Speed 1 is guaranteed to work "draught-free"

- 6 speeds by remote control, incl. light on/off, sleep timer.
- Forward/reverse (summer/ winter) by remote control.
- Balanced motor and blades.
- Installation on sloped ceilings up to 20°, higher pitch with on-site construction.
- Low profile by installation with short downrod.

Options:

- Longer downrods for high ceilings available (page 142).
- Light kits only pre-installed! (page 136/137).
- Hotel wall control **FB-FNK ECO A #86200** (page 133).

Dimensions mm



*shows installation with shortened downrod

No. of blades	5
Power motor (W)	1.3 - 27
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/*)	180/71
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 138
Weight (kg)	7.2

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Eco Elements 180

Product	Code No.	Housing Finish	Reversible Blade Finish
180 MA-EA/NB	**518080**	Antique brass	Antique oak/Walnut
180 BN-WE/LG	**518082**	Brushed chrome	White/Light grey
180 WE-WE/LG	**518081**	White	White/Light grey
180 BA-EA/NB	**518083**	Antique brown	Antique oak/Walnut

Further technical data on pages 122 and 126

Caribbean Dream Eco II

CARIBBEAN DREAM ECO II
MA-RTN #513721
Blades antique wicker

Note: due to the irregular surface of palm leafs, the air performance is reduced by about 40% compared to wooden blades of the same size!

CARIBBEAN DREAM ECO II BN-PLM #513722
Blades natural palm leaf

CARIBBEAN DREAM ECO II BA-RTN #513725
Blades antique wicker

25 YEARS LIMITED MOTOR WARRANTY

Energy saving DC/EC motor

Voltage/ Frequency 100-240 V/ 50-60 Hz suitable for many countries

6 SPEEDS

WINTER/ SUMMER

MAX. 25 m²

SLOW MOTION
Speed 1 is guaranteed to work "draught-free"

- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- Forward/reverse (summer/ winter) by remote control.
- Balanced motor and blades.
- Installation on sloped ceilings up to 20°, higher pitch with on-site construction.
- Natural blades antique wicker, woven, or real palm leaf, each on metal frame.

Options:

- Light kits only pre-installed! (page 136/137).
- Longer downrods available for high ceilings (page 142).
- Hotel wall control **FB-FNK ECO A #86200** (page 133).

Caribbean Dream Eco II

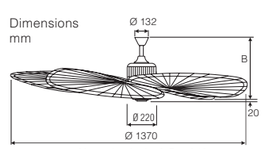
Product	Code No.	Housing Finish	Blade Finish
MA-PLM	**513720**	Antique brass	Natural palm leaf
MA-RTN	**513721**	Antique brass	Antique wicker
BN-PLM	**513722**	Brushed chrome	Natural palm leaf
BN-RTN	**513723**	Brushed chrome	Antique wicker
BA-PLM	**513724**	Antique brown	Natural palm leaf
BA-RTN	**513725**	Antique brown	Antique wicker

Further technical data on pages 122 and 126

No. of blades	5
Power motor (W)	1.1 - 25.6
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/*)	137/54
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 161
Weight (kg)	6.8

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Dimensions mm



Natural palm leaf: B = 340
Antique wicker: B = 335

Eco Talos

ECO TALOS 135 BN-EN
#313590

Energy saving
DC/EC motor

6 SPEEDS

WINTER/ SUMMER

MAX. 28 m²

2 or 3
blades installation as you prefer!

SLOW MOTION
Speed 1 is guaranteed to work "draught-free"

25 YEARS
LIMITED MOTOR
WARRANTY

135 BN-EN
#313590
with 2 blades

135 BN-NB
#313591

135 BN-NB #313591
and **Light kit**
VIT-LED BN #3140

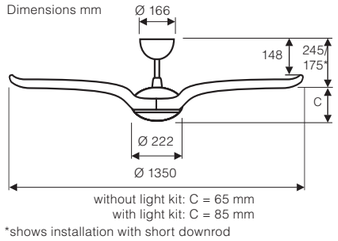
135 BN-EN #313590
and **Light kit**
VIT-LED BN #3140

- Forward/reverse (summer/winter) by remote control.
- 6 speeds by remote control, incl. light on/off/dimminn und sleep timer.
- Balanced motor and blades.
- 3 blades included, 2 or 3 installable.
- Installation on sloped ceilings up to 18°, higher pitch with on-site construction.

Optionen:

- Light kit VIT-LED optional combinable.
- Longer downrods for high ceilings (p. 143).

Dimensions mm



without light kit: C = 65 mm
with light kit: C = 85 mm

*shows installation with short downrod

No. of blades	3
Power motor (W)	9.1 - 30.5
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	135/53
No. of speeds (with R/C)	6
Rev. (RPM)	38 - 185
Weight (kg)	7.1

Installation: 2 screws Ø min. 4.5 mm
separation 73 - 127 mm

Further technical data on pages 122 and 126

Eco Talos

Product	Code No.	Ø cm	Housing Finish	Blade Finish
135 BN-EN	**313590**	135	Brushed chrome	Natural oak
135 BN-NB	**313591**	135	Brushed chrome	Walnut

LED-Light kit Eco Talos

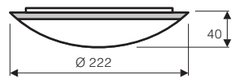
The light kit made of frosted, white glass is a special addition to the ECO TALOS. Its shape fits seamlessly into the design of the fan.

- Opal glass lamp with LED panel, 12 Watt.
- Dimmable by remote control of ECO TALOS.
- Light colour adjustable: 3,000, 4,000 or 5,000 K.
- Quick and easy installation, subsequent connection possibe.
- Low overall height.

Light kit VIT-LED BN #3140

Light kit VIT-LED BN #3140

Light kit VIT-LED



Dimensions mm

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

LED module QL2415SYB

Lamp	LED
Power (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

Product	Code No.	Housing Finish
Light kit VIT-LED BN	**3140**	Brushed chrome

Downrods

for suspension of the ECO TALOS series ceiling fans in rooms with high ceilings.

Available in 60 cm and 120 cm length. Can be shortened to any intermediate size.

Product	Code No.	Finish	Length
ST 60 BN-VIT	**971048**	Brushed chrome	60 cm
ST 120 BN-VIT	**971049**	Brushed chrome	120 cm

Eco Volare 116

ECO VOLARE 116 BN-NB
#511685

116 BN-WE
#511680

116 BG-BG
#511682

116 WE-WE
#511681

116 BN-LG
#511683

116 WE-BG
#511687

Energy saving
DC/EC motor

25 YEARS
LIMITED MOTOR
WARRANTY

6 SPEEDS

WINTER/
SUMMER

MAX. 18 m²

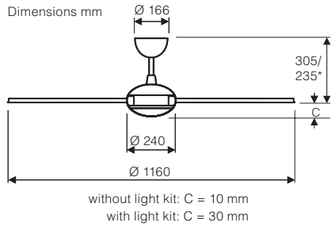
SLOW MOTION
Speed 1 is guaranteed to work "draught-free"

- Forward/reverse (summer/winter) by remote control.
- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- Balanced motor and blades.
- 5 plastic blades for high air performance.
- Prepared for installation of luminaires.
- Installation on sloped ceilings up to 18°, higher pitch with on-site construction.

Options:

- Light kit VIT-LED optional combinable.
- Longer downrods for high ceilings (p. 143).

Dimensions mm



without light kit: C = 10 mm
with light kit: C = 30 mm

*shows installation with short downrod

No. of blades	5
Power motor (W)	6.8 - 26.7
Voltage (V/Hz)	220-240/50
Size Ø (cm/*)	116/45
No. of speeds (with R/C)	6
Rev. (RPM)	37 - 157
Weight (kg)	7.1

Installation: 2 screws Ø min. 4.5 mm
separation 73 - 127 mm

Eco Volare 116

Product	Code No.	Ø cm	Housing Finish	Blade Finish
116 BN-WE	**511680**	116 cm	Brushed chrome	White
116 BN-LG	**511683**	116 cm	Brushed chrome	Light grey
116 BN-EN	**511684**	116 cm	Brushed chrome	Natural oak
116 BN-NB	**511685**	116 cm	Brushed chrome	Walnut
116 WE-WE	**511681**	116 cm	White	White
116 WE-LG	**511686**	116 cm	White	Light grey
116 WE-BG	**511687**	116 cm	White	Basalt grey
116 BG-BG	**511682**	116 cm	Basalt grey	Basalt grey

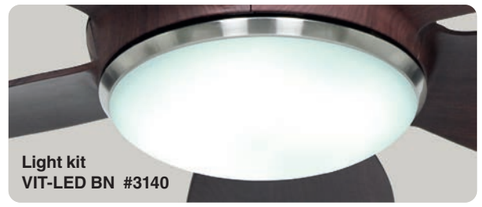
Further technical data on pages 122 and 126

LED-Light kit Eco Volare

The light kit made of frosted, white glass is a special addition to the ECO VOLARE. Its shape fits seamlessly into the design of the fan.

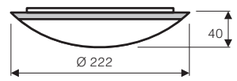
- Opal glass lamp with LED panel, 12 Watt.
- Dimmable by remote control of ECO VOLARE.
- Light colour adjustable: 3,000, 4,000 or 5,000 K.
- Quick and easy installation, subsequent connection possibe.
- Low overall height.

Light kit
VIT-LED BG #3144



Light kit
VIT-LED BN #3140

Light kit VIT-LED



Dimensions mm

LED module QL2415SYB

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

Lamp	LED
Power (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

Product	Code No.	Housing Finish
Light kit VIT-LED BN	**3140**	Brushed chrome
Light kit VIT-LED WE	**3143**	White
Light kit VIT-LED BG	**3144**	Basalt grey

Downrods

for suspension of the ECO VOLARE series ceiling fans in rooms with high ceilings.

Available in 60 cm and 120 cm length. Can be shortened to any intermediate size.

Product	Code No.	Finish	Length
ST 60 BN-VIT	**971048**	Brushed chrome	60 cm
ST 60 WE-VIT	**971039**	White	60 cm
ST 60 BG-VIT	**971046**	Basalt grey	60 cm
ST 120 BN-VIT	**971049**	Brushed chrome	120 cm
ST 120 WE-VIT	**971059**	White	120 cm
ST 120 BG-VIT	**971002**	Basalt grey	120 cm

Eco Volare 142

ECO VOLARE 142 BN-EN
#514284

142 BN-WE #514280 and
Light kit VIT-LED BN #3140

142 WE-WE
#514281

142 WE-LG #514286 and
Light kit VIT-LED WE #3143

142 BN-LG
#514283

142 BG-BG
#514282

Energy saving
DC/EC motor

25 YEARS
LIMITED MOTOR
WARRANTY

6 SPEEDS

WINTER/
SUMMER

MAX. 30 m²

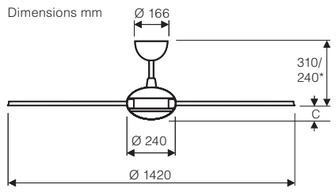
(((SLOW MOTION)))
Speed 1 is guaranteed
to work "draught-free"

- Forward/reverse (summer/winter) by remote control.
- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- Balanced motor and blades.
- 5 plastic blades for high air performance.
- Installation on sloped ceilings up to 18°, higher pitch with on-site construction.
- Prepared for light kit installation.

Options:

- Light kit VIT-LED optional combinable.
- Longer downrods for high ceilings (p. 143).

Dimensions mm



without light kit: C = 10 mm
with light kit: C = 30 mm

*shows installation with short downrod

No. of blades	5
Power motor (W)	7.2 - 26.8
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	142/56
No. of speeds (with R/C)	6
Rev. (RPM)	37 - 122
Weight (kg)	7.5

Installation: 2 screws Ø min. 4.5 mm
separation 73 - 127 mm

Further technical data on pages 122 and 126

Eco Volare 142

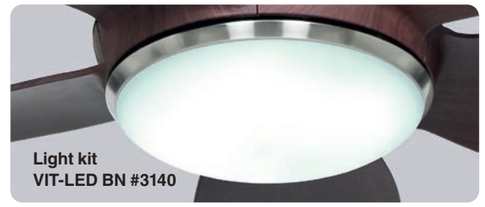
Product	Code No.	Ø cm	Housing Finish	Blade Finish
142 BN-WE	**514280**	142 cm	Brushed chrome	White
142 BN-LG	**514283**	142 cm	Brushed chrome	Lack lichtgrau
142 BN-EN	**514284**	142 cm	Brushed chrome	Eiche natur
142 BN-NB	**514285**	142 cm	Brushed chrome	Nussbaum
142 WE-WE	**514281**	142 cm	White	White
142 WE-LG	**514286**	142 cm	White	Light grey
142 WE-BG	**514287**	142 cm	White	Basalt grey
142 BG-BG	**514282**	142 cm	Basalt grey	Basalt grey

LED-Light kit Eco Volare

The light kit made of frosted, white glass is a special addition to the ECO VOLARE. Its shape fits seamlessly into the design of the fan.

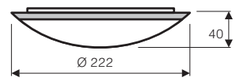
- Opal glass lamp with LED panel, 12 Watt.
- Dimmable by remote control of ECO VOLARE.
- Light colour adjustable: 3,000, 4,000 or 5,000 K.
- Quick and easy installation, subsequent connection possibe.
- Low overall height.

Light kit
VIT-LED BN #3140



Light kit
VIT-LED BN #3140

Light kit VIT-LED



Dimensions mm

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

LED module QL2415SYB

Lamp	LED
Power (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

Product	Code No.	Housing Finish
Light kit VIT-LED BN	**3140**	Brushed chrome
Light kit VIT-LED WE	**3143**	White
Light kit VIT-LED BG	**3144**	Basalt grey

Downrods

for suspension of the ECO VOLARE series ceiling fans in rooms with high ceilings.

Available in 60 cm and 120 cm length. Can be shortened to any intermediate size.

Product	Code No.	Finish	Length
ST 60 BN-VIT	**971048**	Brushed chrome	60 cm
ST 60 WE-VIT	**971039**	White	60 cm
ST 60 BG-VIT	**971046**	Basalt grey	60 cm
ST 120 BN-VIT	**971049**	Brushed chrome	120 cm
ST 120 WE-VIT	**971059**	White	120 cm
ST 120 BG-VIT	**971002**	Basalt grey	120 cm

ECO REVOLUTION

NEW

ECO REVOLUTION
136 BN-MMG
#313620

136 BN-MMG
#313620 and
Light kit ER-LED #3150

136 BN-MWE
#313621

136 WE-WE
#313623

136 MWE-MWE
#313623 and
Light kit ER-LED #3150

136 MNS-MNS
#313626

136 BN-MWE
#313621 and
Light kit ER-LED #3150

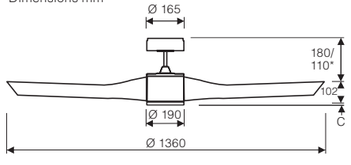
25 YEARS
LIMITED MOTOR
WARRANTY

- 3 dynamically curved plastic blades for maximum air performance at low noise.
- Forward/reverse (summer/winter) by remote control.
- 6 speeds by remote control, incl. light on/off and motor sleep timer.
- Balanced motor and blades.
- Installation on sloped ceilings up to 10°, higher pitch with on-site construction.

Optionen:

- Prepared for installation of light kit ER-LED.
- Longer downrods for high ceilings (page 143).
- Hotel wall control **FB-FNK ECO A #86200** (p. 133).

Dimensions mm



C = 10 mm
with /without light kit

*shows installation with enclosed short downrod

No. of blades	3
Power motor (W)	2.4 - 23.5
Voltage (V/Hz)	220-240/50
Size Ø (cm/“)	136/53.5
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 144
Weight (kg)	6.7

Installation: 2 screws Ø min. 4.5 mm
separation 73 - 127 mm

LED-Light kit ECO REVOLUTION

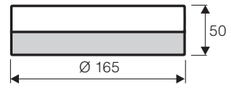
The light kit made of frosted, white glass is a special addition to the ECO REVOLUTION. Itsshape fits seamlessly into the design of the fan.

- Opal glass lamp with LED panel, 12 Watt.
- On/Off/Dimmable by remote control of ECO REVOLUTION.
- Light colour adjustable: 3,000, 4,000 or 5,000 K.
- Quick and easy installation, subsequent connection possibe.
- Very low overall height, unchanged fan overall height.

Light kit ER-LED #3150

Light kit ER-LED #3150

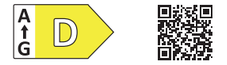
Light kit ER-LED



Dimensions mm

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

LED module QL2415SYB



Lamp	LED
Power (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

Product	Code No.	Housing Finish
Light kit ER-LED	**3150**	universal for all housing colours

ECO REVOLUTION

Product	Code No.	Size Ø	Housing Finish	Blade Finish
136 BN-MMG	**313620**	136 cm	Brushed chrome	Matt metal grey
136 BN-MWE	**313621**	136 cm	Brushed chrome	Matt white
136 BN-MNS	**313622**	136 cm	Brushed chrome	Matt night black
136 MWE-MWE	**313623**	136 cm	Matt white	Matt white
136 MWE-MMG	**313624**	136 cm	Matt white	Matt metal grey
136 MWE-MNS	**313625**	136 cm	Matt white	Matt night black
136 MNS-MNS	**313626**	136 cm	Matt night black	Matt night black
136 MNS-MWE	**313627**	136 cm	Matt night black	Matt white
136 MNS-MMG	**313628**	136 cm	Matt night black	Matt metal grey

Further technical data on pages 122 and 126

Eco Aviatos

ECO AVIATOS 132 BN-SI
#513285

132 WE-WE
#513286

132 BG-BG
#313298

162 BN-KI
#516088

162 BN-AH
#516087

162 BG-KI
#516096

162 BG-NB
#516095

162 BN-NB
#516089

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

25 YEARS LIMITED MOTOR WARRANTY

Interchangeable blades ECO AVIATOS: maple, cherry and walnut (from left) in dia Ø 132 and 162 cm.

6 SPEEDS

2 x 7 W E 27 2 x 14 W

WINTER/ SUMMER

MAX. 25/40 m²

2 sizes available: Ø 132 cm and 162 cm !

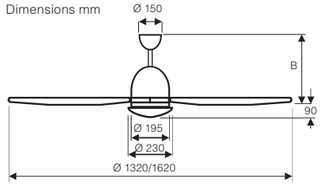
SLOW MOTION
Speed 1 is guaranteed to work "draught-free"

- 6 speeds, light on/off and sleep timer by remote control.
- Forward/reverse (summer/winter) by remote control.
- Balanced motor and blades.
- Installation on sloped ceilings up to 30°.
- Integrated frosted glass light kit, max. 2 × 40 W (E27), suitable for ESI.

Options:

- Longer downrods for high ceilings available (page 142).
- Interchangeable blades in different sizes (p. 129).
- Hotel wall control **FB-FNK ECO A #86200** (p. 133).

Dimensions mm



with blades Ø 132: B = 360/270*
with blades Ø 162: B = 365/275*

*shows installation with short downrod

Model	132	162
No. of blades	3	
Power motor (W)	2.4 - 25	2.8 - 36
Power light kit max. (W)	2 × 40	
Voltage (V/Hz)	100-240/50-60	
Size Ø (cm/")	132/52	162/64
No. of speeds (with R/C)	6	
Rev. (RPM)	36 - 188	36 - 150
Weight (kg)	5.9	6.4

Installation: 2 screws Ø min. 4.5 mm
separation 70 - 110 mm

Further technical data on pages 122 and 126

Eco Aviatos

Product	Code No.	Size Ø	Product	Code No.	Size Ø	Housing Finish	Blade Finish
132 BN-SI	513285	132 cm	162 BN-SI	516085	162 cm	Brushed chrome	Silver
132 BN-KI	513251	132 cm	162 BN-KI	516088	162 cm	Brushed chrome	Cherry
132 BN-NB	513252	132 cm	162 BN-NB	516089	162 cm	Brushed chrome	Walnut
132 BN-AH	513250	132 cm	162 BN-AH	516087	162 cm	Brushed chrome	Maple
132 WE-WE	513286	132 cm	162 WE-WE	516086	162 cm	White	White
132 BG-BG	313298	132 cm	162 BG-BG	516098	162 cm	Basalt grey	Basalt grey
132 BG-NB	513254	132 cm	162 BG-NB	516095	162 cm	Basalt grey	Walnut
132 BG-KI	513255	132 cm	162 BG-KI	516096	162 cm	Basalt grey	Cherry

Interchangeable blades

Blade Colour	Code No. Ø 132	Code No. Ø 162
Maple	19149	19146
Cherry	19148	19145
Walnut	19147	19144

Light bulbs are not included.

Eco Gamma

ECO GAMMA 137 BN-WE/LG
#9517250

137 BN-BU/AH
#9517249

103 BN-WE/LG
#9510350

137 BN-BU/AH
#9517249 with light kit
LA GAMMA, #9511001

137 BN-NB/SW
#9513745

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

25 YEARS
LIMITED MOTOR
WARRANTY

6 SPEEDS

WINTER/ SUMMER

MAX. 15/28 m²

in 2 sizes with Ø 103 and 137 cm available!

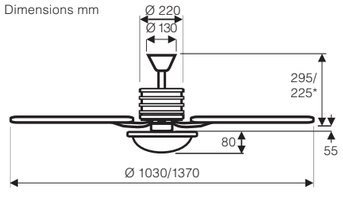
SLOW MOTION
Speed 1 is guaranteed to work "draught-free"

- Modern Design in the flair of the Roaring Twenties.
- Housing brushed chrome with black rings.
- 6 speeds by remote control, incl. light on/off and sleep timer.
- Forward/reverse (summer/winter) by remote control.
- Installation on sloped ceilings up to 28°.
- Balanced motor and blades.
- Low profile by installation wihout downrod (only 22 cm ceiling - blades).

Options:

- Light kit **LA GAMMA, #9511001** (E27, max. 2 x 40 W) optional
- Longer downrods for high ceilings available (page 142).
- Hotel wall control **FB-FNK ECO A #86200** (page 133).

Dimensions mm



*shows installation without downrod

Model	103	137
No. of blades	5	
Power motor (W)	1.0 - 14.6	1.1 - 26.4
Voltage (V/Hz)	100-240/50-60	
Size Ø (cm/")	103/42	137/54
No. of speeds (with R/C)	6	
Rev. (RPM)	30 - 193	30 - 183
Weight (kg)	8.1	8.4

Installation: 2 screws Ø min. 4.5 mm
separation 70 - 110 mm

Eco Gamma

Product	Code No. Ø 103 cm	Code No. Ø 137 cm	Reversible Blade Finish
BN-NB/SW	**9510345**	**9513745**	Walnut/Black
BN-BU/AH	**9510349**	**9517249**	Beech/Maple
BN-WE/LG	**9510350**	**9517250**	White/Light grey

Further technical data on pages 122 and 126

Eco Neo III 92

NEW

ECO NEO III WE
#413243 and
92 WE/LG #19494

25 YEARS
LIMITED MOTOR
WARRANTY

COMBINE YOUR DESIGN!

Always choose the appropriate motor finish and the desired blade decor. Popular combinations see price list.

CH #413248 and
92 SW/TK #19493

BN #413242 and
92 WE/LG #19494

BG #413252 and
92 SW/TK #19493

BZ #413249 and
92 NB/KI #19492

MA #413244 and
92 NB/KI #19492

6 SPEEDS

WINTER/ SUMMER

MAX. 9 m²

0 - 10 V
Also available as 0 - 10 V Model

WiFi

2, 3 or 4
blades installation as you prefer!

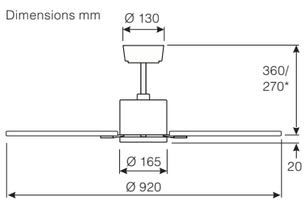
((((SLOW MOTION))))
Speed 1 is guaranteed to work "draught-free"

- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- Forward/reverse (summer/winter) by remote control.
- Balanced motor and blades.
- Installation on sloped ceilings up to 23°.
- Motor units in 6 different colors and the reversible blades in different finishes can be combined in any combination..

Optionen:

- Longer downrods for high ceilings available (page 143).
- Prepared for installation of light kit EN5x-LED.
- Hotel wall control **FB-FNK ECO A #86200** (page 133).

Dimensions mm



*shows installation with shortened downrod

No. of blades	4
Power motor (W)	1.1 - 12.2
Voltage (V/Hz)	100-240/50-60
Size Ø (cm)	92
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 209
Weight (kg)	5.8

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Further technical data on pages 122 and 126

Eco Neo III 92

Product (Motor)	Code No.	Code No.	Housing Finish
BN	**413242**	**413242W**	Brushed chrome
WE	**413243**	**413243W**	White
MA	**413244**	**413244W**	Antique brass
CH	**413248**	**413248W**	Polished chrome
BG	**413252**	**413252W**	Basalt grey
BZ	**413249**	**413249W**	Antique bronze

Product (4 blades Ø 92 cm)	Code No.	Reversible Blade Finish
92 AH/BU	**19491**	Maple/Beech
92 NB/KI	**19492**	Walnut/Cherry
92 SW/TK	**19493**	Black/Teak
92 WE/LG	**19494**	White/Light grey
92 WN/SI	**19495**	Wengé/Silver

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

Popular combinations of motor and blades can be found in our enclosed price list!

LED-Light kit Eco Neo III

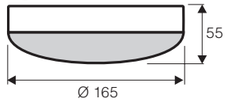
- LED-Light kit for combination with ECO NEO III.
- Quick and easy installation, subsequent connection possibe.
- Dimmable by remote control of ECO NEO III.
- Low overall height.
- Available as glass bowl or glass cylinder.

Light kit EN5Z-LED
Glass cylinder

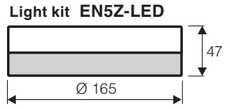
Light kit EN5R-LED
Glass bowl

Dimensions mm

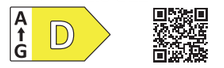
Light kit EN5R-LED



Light kit EN5Z-LED



LED module QL2413N7Y



Lamp	LED
Power max. (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

Product	Code No.	Code No.	Housing Finish
LED-Light kit	**EN5R-LED**	**EN5Z-LED**	
EN5x-LED BN	**2685**	**2785**	Brushed chrome
EN5x-LED WE	**2686**	**2786**	White
EN5x-LED LG	**2687**	**2787**	Light grey
EN5x-LED BG	**2688**	**2788**	Basalt grey
EN5x-LED BZ	**2689**	**2789**	Antique bronze
EN5x-LED CH	**2690**	**2790**	Polished chrome
EN5x-LED MA	**2691**	**2791**	Antique brass

Eco Neo III 103

ECO NEOIII BG
#413252 and
103 NB/KI #19511

CH #413248 und
103 WN/SI #19541

BZ #413249 und
103 NB/KI #19511

WE #413243 und
103 WE/LG #19531

BN #413242 and
103 AH/BU #19521

MA #413244 und
103 SW/TK #19501

25 YEARS
LIMITED MOTOR
WARRANTY

COMBINE YOUR DESIGN!
Always choose the appropriate motor finish and the desired blade decor. Popular combinations see price list.

6 SPEEDS | WINTER/ SUMMER | MAX. 13 m² | 0 - 10 V Also available as 0 - 10 V Model | WiFi

2, 3 or 4 blades installation as you prefer!

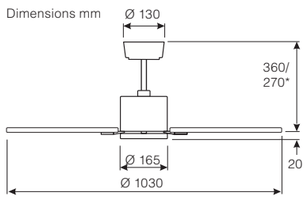
(((SLOW MOTION))) Speed 1 is guaranteed to work "draught-free"

- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- Forward/reverse (summer/winter) by remote control.
- Balanced motor and blades.
- Installation on sloped ceilings up to 23°, higher pitch with on-site construction.
- Motor units in 6 different colors and the reversible blades in different finishes can be combined in any combination.

Options:

- Longer downrods for high ceilings available (page 143).
- Prepared for installation of light kit EN5x-LED.
- Hotel wall control **FB-FNK ECO A #86200** (page 133).

Dimensions mm



*shows installation with shortened downrod

No. of blades	4
Power motor (W)	2.5 - 15.8
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/")	103/42
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 208
Weight (kg)	5.8

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Further technical data on pages 122 and 126

LED-Light kit Eco Neo III

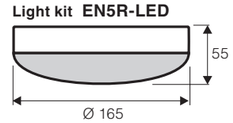
- LED-Light kit for combination with ECO NEO III.
- Quick and easy installation, subsequent connection possibe.
- Dimmable by remote control of ECO NEO III.
- Low overall height.
- Available as glass bowl or glass cylinder.

Light kit EN5Z-LED
Glass cylinder

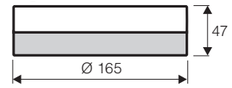
Light kit EN5R-LED
Glass bowl

Dimensions mm

Light kit EN5R-LED



Light kit EN5Z-LED



LED module QL2413N7Y

A ↑ G D

Lamp	LED
Power max. (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

Product	Code No.	Code No.	Housing Finish
LED-Light kit	**EN5R-LED**	**EN5Z-LED**	
EN5x-LED BN	**2685**	**2785**	Brushed chrome
EN5x-LED WE	**2686**	**2786**	White
EN5x-LED BG	**2688**	**2788**	Basalt grey
EN5x-LED BZ	**2689**	**2789**	Antique bronze
EN5x-LED CH	**2690**	**2790**	Polished chrome
EN5x-LED MA	**2691**	**2791**	Antique brass

Eco Neo III 103

Product (Motor)	Code No.	Code No.	Housing Finish
BN	**413242**	**413242W**	Brushed chrome
WE	**413243**	**413243W**	White
MA	**413244**	**413244W**	Antique brass
CH	**413248**	**413248W**	Polished chrome
BG	**413252**	**413252W**	Basalt grey
BZ	**413249**	**413249W**	Antique bronze

Product (4 blades Ø103 cm)	Code No.	Reversible Blade Finish
103 AH/BU	**19521**	Maple/Beech
103 NB/KI	**19511**	Walnut/Cherry
103 SW/TK	**19501**	Black/Teak
103 WE/LG	**19531**	White/Light grey
103 WN/SI	**19541**	Wengé/Silver

Popular combinations of motor and blades can be found in our enclosed price list!

Energy saving DC/EC motor

Voltage/ Frequency 100-240 V/ 50-60 Hz suitable for many countries

ECO NEO III 132

ECO NEO III WE
#413243 and
132 WE/LG #19532

BN #413242 and
132 AH/BU #19522

MA #413244 and
132 AH/BU #19522

BZ #413249 and
132 NB/KI #19512

CH #413248 and
132 AH/BU #19522

BG #413252 and
132 WE/LG #19532

25 YEARS
LIMITED MOTOR
WARRANTY

COMBINE YOUR DESIGN!
Always choose the appropriate motor finish and the desired blade decor. Popular combinations see price list.

6 SPEEDS | WINTER/ SUMMER | MAX. 25 m² | 0 - 10 V Also available as 0 - 10 V Model | WiFi

2, 3 or 4 blades installation as you prefer!

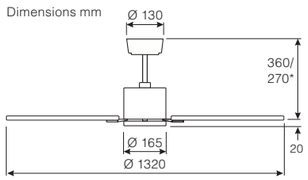
(((SLOW MOTION)))
Speed 1 is guaranteed to work "draught-free"

- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- Forward/reverse (summer/winter) by remote control.
- Balanced motor and blades.
- Installation on sloped ceilings up to 23°.
- Motor units in 6 different colors and the reversible blades in different finishes can be combined in any combination.

Options:

- Longer downrods for high ceilings available (p. 143).
- Prepared for installation of light kit EN5x-LED.
- Hotel wall control **FB-FNK EC #86200** (page 133).

Dimensions mm



*shows installation with shortened downrod

No. of blades	4
Power motor (W)	2.3 - 27
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/")	132/52
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 185
Weight (kg)	5.9

Installation: 2 screws Ø min. 4.5 mm
separation 70 - 110 mm

Further technical data on pages 122 and 126

LED-Light kit ECO NEO III

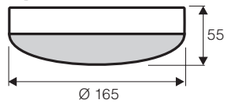
- LED-Light kit for combination with ECO NEO III.
- Quick and easy installation, subsequent connection possibe.
- Dimmable by remote control of ECO NEO III.
- Low overall height.
- Available as glass bowl or glass cylinder.

Light kit EN5Z-LED
Glass cylinder

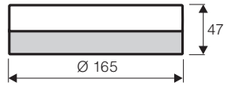
Light kit EN5R-LED
Glass bowl

Dimensions mm

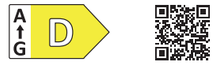
Light kit EN5R-LED



Light kit EN5Z-LED



LED module QL2413N7Y



Lamp	LED
Power max. (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

Product	Code No.	Code No.	Housing Finish
LED-Light kit	**EN5R-LED**	**EN5Z-LED**	
EN5x-LED BN	**2685**	**2785**	Brushed chrome
EN5x-LED WE	**2686**	**2786**	White
EN5x-LED BG	**2688**	**2788**	Basalt grey
EN5x-LED BZ	**2689**	**2789**	Antique bronze
EN5x-LED CH	**2690**	**2790**	Polished chrome
EN5x-LED MA	**2691**	**2791**	Antique brass

ECO NEO III 132

Product (Motor)	Code No.	Code No.	Housing Finish
BN	**413242**	**413242W**	Brushed chrome
WE	**413243**	**413243W**	White
MA	**413244**	**413244W**	Antique brass
CH	**413248**	**413248W**	Polished chrome
BG	**413252**	**413252W**	Basalt grey
BZ	**413249**	**413249W**	Antique bronze

Product (4 blades Ø132 cm)	Code No.	Reversible Blade Finish
132 AH/BU	**19522**	Maple/Beech
132 NB/KI	**19512**	Walnut/Cherry
132 SW/TK	**19502**	Black/Teak
132 WE/LG	**19532**	White/Light grey
132 WN/SI	**19542**	Wengé/Silver

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

Popular combinations of motor and blades can be found in our enclosed price list!

Eco Neo III 152

ECO NEO III CH
#413248 and
152 SW/TK #19503

WE #413243 und
152 WN/SI #19137

BN #413242 and
152 SW/TK #19503

BG #413252 and
152 AH/BU #19523

MA #413244 and
152 NB/KI #19513

BZ #413249 and
152 NB/KI #19513

25 YEARS LIMITED MOTOR WARRANTY

COMBINE YOUR DESIGN!
Always choose the appropriate motor finish and the desired blade decor. Popular combinations see price list.

6 SPEEDS

WINTER/ SUMMER

MAX. 35 m²

0 - 10 V
Also available as 0 - 10 V Model

WiFi

2, 3 or 4 blades installation as you prefer!

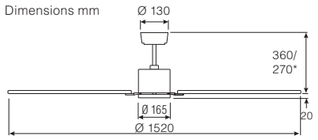
(((SLOW MOTION)))
Speed 1 is guaranteed to work "draught-free"

- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- Forward/reverse (summer/winter) by remote control.
- Balanced motor and blades.
- Installation on sloped ceilings up to 23°.
- Motor units in 6 different colors and the reversible blades in different finishes can be combined in any combination.

Options:

- Longer downrods for high ceilings available (p. 143).
- Prepared for installation of light kit EN5x-LED.
- Hotel wall control **FB-FNK ECO A #86200** (page 133).

Dimensions mm



*shows installation with shortened downrod

No. of blades	4
Power motor (W)	2.5 - 27
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/")	152/60
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 150
Weight (kg)	6.1

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Further technical data on pages 122 and 126

LED-Light kit Eco Neo III

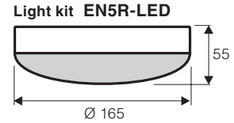
- LED-Light kit for combination with ECO NEO III.
- Quick and easy installation, subsequent connection possibe.
- Dimmable by remote control of ECO NEO III.
- Low overall height.
- Available as glass bowl or glass cylinder.

Light kit EN5Z-LED
Glass cylinder

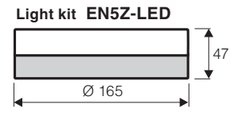
Light kit EN5R-LED
Glass bowl

Dimensions mm

Light kit EN5R-LED



Light kit EN5Z-LED



LED module QL2413N7Y

Lamp	LED
Power max. (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

Product	Code No.	Code No.	Housing Finish
LED-Light kit	**EN5R-LED**	**EN5Z-LED**	
EN5x-LED BN	**2685**	**2785**	Brushed chrome
EN5x-LED WE	**2686**	**2786**	White
EN5x-LED BG	**2688**	**2788**	Basalt grey
EN5x-LED BZ	**2689**	**2789**	Antique bronze
EN5x-LED CH	**2690**	**2790**	Polished chrome
EN5x-LED MA	**2691**	**2791**	Antique brass

Eco Neo III 152

Product (Motor)	Code No.	Code No.	Housing Finish
BN	**413242**	**413242W**	Brushed chrome
WE	**413243**	**413243W**	White
MA	**413244**	**413244W**	Antique brass
CH	**413248**	**413248W**	Polished chrome
BG	**413252**	**413252W**	Basalt grey
BZ	**413249**	**413249W**	Antique bronze

Product (4 blades Ø152 cm)	Code No.	Reversible Blade Finish
152 AH/BU	**19523**	Maple/Beech
152 NB/KI	**19513**	Walnut/Cherry
152 SW/TK	**19503**	Black/Teak
152 WE/LG	**19533**	White/Light grey
152 WN/SI	**19137**	Wengé/Silver

Energy saving DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

Popular combinations of motor and blades can be found in our enclosed price list!

ECO NEO III 180

ECO NEOIII CH
#413248 and
AH/BU #19525

25 YEARS
LIMITED MOTOR
WARRANTY

BN #413242 and
180 SW/TK #19510

WE #413243 and
180 WE/LG #19209

BG #413252 and
180 WN/SI #19210

MA #413244 and
180 NB/KI #19515

BZ #413249 and
180 SW/TK #19510

COMBINE YOUR DESIGN!
Always choose the appropriate motor finish and the desired blade decor. Popular combinations see price list.

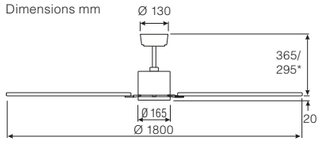
6 SPEEDS · WINTER/SUMMER · MAX. 45 m² · 0 - 10 V Also available as 0 - 10 V Model · WiFi

2, 3 or 4 blades installation as you prefer!

((((SLOW MOTION))))
Speed 1 is guaranteed to work "draught-free"

- 6 speeds by remote control, incl. light on/off/dimming and sleep timer.
- Forward/reverse (summer/winter) by remote control.
- Balanced motor and blades.
- Installation on sloped ceilings up to 23°.
- Motor units in 6 different colors and the reversible blades in different finishes can be combined in any combination.
- Longer downrods for high ceilings available (p. 143).
- Prepared for installation of light kit EN5x-LED.
- Hotel wall control **FB-FNK ECO A #86200** (page 133).

Dimensions mm



*shows installation with short downrod

No. of blades	4
Power motor (W)	1.5 - 28
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/")	180/71
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 110
Weight (kg)	5.8

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Further technical data on pages 122 and 126

ECO NEO III 180

Product (Motor)	Code No.	Code No.	Housing Finish
BN	413242	413242W	Brushed chrome
WE	413243	413243W	White
MA	413244	413244W	Antique brass
CH	413248	413248W	Polished chrome
BG	413252	413252W	Basalt grey
BZ	413249	413249W	Antique bronze

Product (4 blades Ø180 cm)	Code No.	Reversible Blade Finish
180 AH/BU	19525	Maple/Beech
180 NB/KI	19515	Walnut/Cherry
180 SW/TK	19510	Black/Teak
180 WE/LG	19209	White/Light grey
180 WN/SI	19210	Wengé/Silver

Popular combinations of motor and blades can be found in our enclosed price list!

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

LED-Light kit ECO NEO III

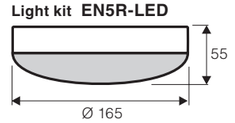
- LED-Light kit for combination with ECO NEO III.
- Quick and easy installation, subsequent connection possibe.
- Dimmable by remote control of ECO NEO III.
- Low overall height.
- Available as glass bowl or glass cylinder.

Light kit EN5Z-LED
Glass cylinder

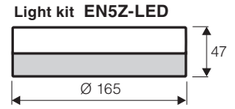
Light kit EN5R-LED
Glass bowl

Dimensions mm

Light kit EN5R-LED



Light kit EN5Z-LED



LED module QL2413N7Y

A ↑ G D

Lamp	LED
Power max. (W)	12
CRI	80
Luminous flux (lm)	1,800
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

The luminaire contains built-in LED lamps. Energy class D (Spectrum A to G). The lamps cannot be changed in the luminaire. Replacement LED modules available.

Product	Code No.	Code No.	Housing Finish
LED-Light kit	EN5R-LED	EN5Z-LED	
EN5x-LED BN	2685	2785	Brushed chrome
EN5x-LED WE	2686	2786	White
EN5x-LED BG	2688	2788	Basalt grey
EN5x-LED BZ	2689	2789	Antique bronze
EN5x-LED CH	2690	2790	Polished chrome
EN5x-LED MA	2691	2791	Antique brass

Eco Fiore

ECO FIORE 142 WE
#314226

142 RP #314228

- LED-Light kit, 17 Watt.
- Forward/reverse (summer/ winter) by remote control.
- 6 speeds, light on/off by remote control.
- Housing and blades made of polished ABS plastic with water transfer printing.
- Balanced motor and blades.
- Installation on sloped ceilings up to 30°, higher pitch with on-site construction.

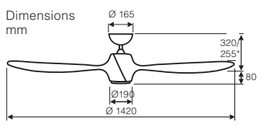
Options:

- Longer downrods available for high ceilings (page 142).

Integrated LED module ML111B:

- 17 W, warm white (3,000 K, 1,800 lm, CRI 80).
- Beam angle 120°, life span 30,000 h.
- Not dimmable.
- Energy class F (Spectrum A to G).

Dimensions mm



*shows installation with short downrod

No. of blades	3
Power motor (W)	2.3 - 47
Power light kit (W)	17
Voltage (V/Hz)	220-240/50
Size Ø (cm/*)	142/56
No. of speeds (with R/C)	6
Rev. (RPM)	30 -183
Weight (kg)	9.3

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Eco Fiore

Product	Code No.	Blades/Housing Finish
142 WE	**314226**	ABS polished, white
142 RP	**314228**	ABS, redpine water transfer printing/brushed chrome

The luminaire contains built-in LED lamps. The lamps cannot be changed in the luminaire. Replacement LED panels available.

Further technical data on pages 122 and 126

Eco Helix

ECO HELIX WE
#313254

- Fresh, floral design with aero-dynamically shaped bladetips.
- LED-Light kit, 17 Watt.
- 6 speeds, light on/off by remote control.
- Forward/reverse (summer/ winter) by remote control.
- Installation on sloped ceilings up to 30°.
- Balanced motor and blades.

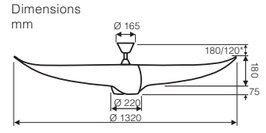
Options:

- Longer downrods available (page 143).

Integrated LED module ML111B:

- 17 W, warm white (3,000 K, 1,800 lm, CRI 80).
- Beam angle 120°, life span 30,000 h.
- Not dimmable.
- Energy class F (Spectrum A to G).

Dimensions mm



*shows installation with short downrod

No. of blades	3
Power motor (W)	2.0 - 30.5
Power light kit max. (W)	17
Voltage (V/Hz)	220-240/50
Size Ø (cm/*)	132/52
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 163
Weight (kg)	7.9

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Eco Helix

Product	Code No.	Housing Finish	Blade Finish
WE	**313254**	ABS polished, white	ABS polished, white

The luminaire contains built-in LED lamps. The lamps cannot be changed in the luminaire. Replacement LED panels available.

Further technical data on pages 122 and 126

Big Smooth Eco

BIG SMOOTH ECO
TS-TS #922012

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

6 SPEEDS

WINTER/ SUMMER

MAX. 54 m²

SLOW MOTION
Speed 1 is guaranteed to work "draught-free"

25 YEARS LIMITED MOTOR WARRANTY

BZ-BZ #922014

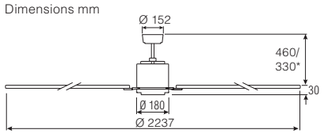
WE-WE #922013

- Massive air power at low Rev.
- 6 speeds by remote control, incl. sleep timer.
- Forward/reverse (summer/winter) by remote control.
- Balanced motor and blades.
- 9 ventilation-optimized profiled aluminium blades.
- Installation on sloped ceilings up to 24°, higher pitch with on-site construction.

Options:

- Longer downrods for high ceilings available (page 142).
- Hotel wall control **FB-FNK ECO A #86200** (page 133).

Dimensions mm



*shows installation with short downrod

No. of blades	9
Power motor (W)	1.8 - 35
Voltage (V/Hz)	100-240/50-60
Size Ø (cm/*)	223/88
No. of speeds (with R/C)	6
Rev. (RPM)	30 - 100
Weight (kg)	8.9

Installation: 2 screws Ø min. 4.5 mm
separation 83 - 110 mm

Further technical data on pages 122 and 126

Big Smooth Eco

Product	Code No.	Housing Finish	Blade Finish
TS-TS	**922012**	Titan silver	Aluminum profile, titan silver
WE-WE	**922013**	White	Aluminum profile, white
BZ-BZ	**922014**	Antique bronze	Aluminum profile, antique bronze

Classic Royal 75

ROYAL 75 BN-BU/KB
#507515

75 MP-EA/WI
#507509

75 CH-WE/LG
#507502

75 MA-EA/WI
#507501

75 WE-WE/LG
#507503

75 BA-NB/ND
#507513

15 YEARS LIMITED MOTOR WARRANTY

3 SPEEDS

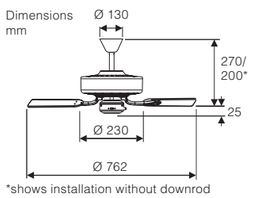
WINTER/ SUMMER

MAX. 8 m²

- 3-speeds pull chain switch.
- Forward/reverse (summer/ winter) slide switch.
- Balanced motor and blades.
- Installation on sloped ceilings up to 28°, higher pitch with on-site construction.
- Low profile by installation without downrod (only 20 cm ceiling - blades).

Options:

- Light kits adaptable (page 136/137).
- Optional remote and wall controls available (page 132 - 134).
- Longer downrods available for heigh ceilings (page 142).
- All blades for dia Ø 75 cm can be used (p. 129 - 131).



*shows installation without downrod

No. of blades	5
Power motor (W)	48.3
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	76.2/30
No. of speeds (w. P/C)	3
Rev. max. (RPM)	287
Weight (kg)	5.2

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Classic Royal 75

Product	Code No.	Housing Finish	Reversible Blade Finish
75 MA-EA/WI	**507501**	Antique brass	Antique oak/Wild oak
75 CH-WE/LG	**507502**	Polished chrome	White/Light grey
75 WE-WE/LG	**507503**	White	White/Light grey
75 MP-EA/WI	**507509**	Polished brass	Antique oak/Wild oak
75 BA-NB/ND	**507513**	Ant. Brown/bronze	Walnut/Dark walnut
75 BN-BU/KB	**507515**	Brushed chrome	Beech/Heartwood beech

Further technical data on pages 124 and 127

Classic Royal 103

ROYAL 103 BA-NB/ND
#510313

103 CH-WE/LG
#510302

103 MP-EA/WI
#510309

103 MA-EA/WI
#510301

103 WE-WE/LG
#510303

103 BN-BU/KB
#510315

15 YEARS LIMITED MOTOR WARRANTY

3 SPEEDS

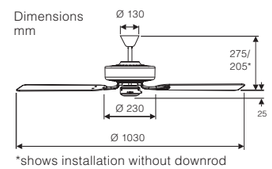
WINTER/ SUMMER

MAX. 13 m²

- 3-speeds pull chain switch.
- Forward/reverse (summer/ winter) slide switch.
- Balanced motor and blades.
- Installation on sloped ceilings up to 28°, higher pitch with on-site construction.
- Low profile by installation without downrod (only 21 cm ceiling - blades).

Options:

- Light kits adaptable (page 136/137).
- Optional remote and wall controls available (page 132 - 134).
- Longer downrods available for high ceilings (page 142).
- All blades for dia Ø 103 cm can be used (p. 129 - 131).



*shows installation without downrod

No. of blades	5
Power motor (W)	52.5
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	103/42
No. of speeds (w. P/C)	3
Rev. max. (RPM)	204
Weight (kg)	5.9

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Classic Royal 103

Product	Code No.	Housing Finish	Reversible Blade Finish
103 MA-EA/WI	**510301**	Antique brass	Antique oak/Wild oak
103 CH-WE/LG	**510302**	Polished chrome	White/Light grey
103 WE-WE/LG	**510303**	White	White/Light grey
103 MP-EA/WI	**510309**	Polished brass	Antique oak/Wild oak
103 BA-NB/ND	**510313**	Ant. Brown/bronze	Walnut/Dark walnut
103 BN-BU/KB	**510315**	Brushed chrome	Beech/Heartwood beech

Further technical data on pages 124 and 127

Classic Royal 132

ROYAL 132 BN-BU/KB
#513214

132 WE-WE/LG
#513203

132 GR-GR/MS
#513248

132 CH-WE/LG
#513202

132 MA-EA/WI
#513201

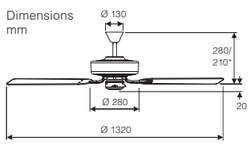
132 BA-NB/ND
#513213

15 YEARS LIMITED MOTOR WARRANTY | 3 SPEEDS | WINTER/SUMMER | MAX. 25 m²

- 3-speeds pull chain switch.
- Forward/reverse (summer/winter) slide switch.
- Reversible wooden blades with 2 different decors.
- Balanced motor and blades.
- Installation on sloped ceilings up to 28°, higher pitch with on-site construction.

Options:

- Light kits adaptable (page 136/137).
- Optional controls available (page 132 - 134).
- Longer downrods available for high ceilings (page 142).
- All blades for dia Ø 132 cm can be used (p. 129 - 131).



*shows installation without downrod

No. of blades	5
Power motor (W)	64
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	132/52
No. of speeds (w. P/C)	3
Rev. max. (RPM)	180
Weight (kg)	6.9

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Classic Royal 132

Product	Code No.	Housing Finish	Reversible Blade Finish
132 MA-EA/WI	**513201**	Antique brass	Antique oak/Wild oak
132 CH-WE/LG	**513202**	Polished chrome	White/Light grey
132 WE-WE/LG	**513203**	White	White/Light grey
132 MP-EA/WI	**513209**	Polished brass	Antique oak/Wild oak
132 BA-NB/ND	**513213**	Ant. Brown/bronze	Walnut/Dark walnut
132 GR-GR/MS	**513248**	Graphite	Graphite/Matt black
132 BN-BU/KB	**513214**	Brushed chrome	Beech/Heartwood beech

Further technical data on pages 124 and 127

Classic Royal 180

ROYAL 180 BN-EA/NB
#518015

180 WE-WE/LG
#518003

180 BA-EA/NB
#518013

180 MA-EA/NB
#518001

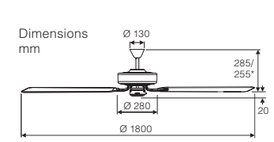
180 WE-EA/NB
#518019

15 YEARS LIMITED MOTOR WARRANTY | 3 SPEEDS | WINTER/SUMMER | MAX. 30 m²

- 3-speeds pull chain switch.
- Forward/reverse (summer/winter) slide switch.
- Reversible wooden blades with 2 different decors.
- Balanced motor and blades.
- Installation on sloped ceilings up to 28°, higher pitch with on-site construction.

Options:

- Light kits adaptable (page 136/137).
- Optional controls available (page 132 - 134).
- Longer downrods available for high ceilings (page 142).
- 'Slow motion' (approx. 35 RPM) in combination with remote control **FB-FNK Advanced #85229** (page 132).



*shows installation with short downrod

No. of blades	5
Power motor (W)	65.7
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	180/71
No. of speeds (w. P/C)	3
Rev. max. (RPM)	112
Weight (kg)	6.9

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Classic Royal 180

Product	Code No.	Housing Finish	Reversible Blade Finish
180 MA-AH/BU	**518017**	Antique brass	Maple/Beech
180 MA-EA/NB	**518001**	Antique brass	Antique oak/Walnut
180 MA-WE/LG	**518018**	Antique brass	White/Light grey
180 BN-AH/BU	**518014**	Brushed chrome	Maple/Beech
180 BN-EA/NB	**518015**	Brushed chrome	Antique oak/Walnut
180 BN-WE/LG	**518016**	Brushed chrome	White/Light grey
180 WE-AH/BU	**518020**	White	Maple/Beech
180 WE-EA/NB	**518019**	White	Antique oak/Walnut
180 WE-WE/LG	**518003**	White	White/Light grey
180 BA-AH/BU	**518022**	Antique brown/bron.	Maple/Beech
180 BA-EA/NB	**518013**	Antique brown/bron.	Antique oak/Walnut
180 BA-WE/LG	**518021**	Antique brown/bron.	White/Light grey

Further technical data on pages 124 and 127

Classic Flat 75-III

FLAT 75-III BN-NB/BU
#5075051

75-III BZ-AE/EK
#5075371

75-III MP-AE/EK
#5075001

75-III WE-WE/LG
#5075061

75-III MA-AE/EK
#5075041

15 YEARS LIMITED MOTOR WARRANTY

3 SPEEDS

WINTER/ SUMMER

MAX. 6 m²

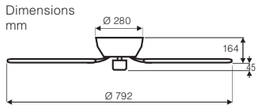
LOW PROFILE!
especially made for low-ceilinged rooms

- 3-speeds pull chain switch.
- Forward/reverse (summer/ winter) slide switch.
- Balanced motor and blades.
- Reversible wooden blades with 2 different decors.

Options:

- Optional remote and wall controls available (page 132 - 134).
- Light kits adaptable (page 136/137).
- All blades for dia Ø 79 cm can be used (p. 129 - 131).

Dimensions mm



No. of blades	5
Power motor (W)	63
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	79/32
No. of speeds (w. P/C)	3
Rev. max. (RPM)	315
Weight (kg)	4.5

Installation: 2 screws Ø min. 4.5 mm separation 70 - 90 mm

Classic Flat 75-III

Product	Code No.	Housing Finish	Reversible Blade Finish
75-III BZ-AE/EK	**5075371**	Antique bronze	Used wood oak/Colonial oak
75-III MA-AE/EK	**5075041**	Antique brass	Used wood oak/Colonial oak
75-III BN-NB/BU	**5075051**	Brushed chrome	Walnut/Beech
75-III WE-WE/LG	**5075061**	White	White/Light grey
75-III MP-AE/AH	**5075001**	Polished brass	Used wood oak/Maple

Further technical data on pages 124 and 127

Classic Flat 103-III

FLAT 103-III BN-NB/BU
#5103051

103-III BZ-AE/EK
#5103371

103-III WE-WE/LG
#5103061

103-III MA-EA/BU
#5103041

103-III MP-AE/AH
#5103001

15 YEARS LIMITED MOTOR WARRANTY

3 SPEEDS

WINTER/ SUMMER

MAX. 11 m²

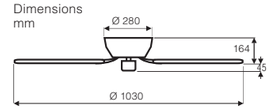
LOW PROFILE!
especially made for low-ceilinged rooms

- 3-speeds pull chain switch.
- Forward/reverse (summer/ winter) slide switch.
- Balanced motor and blades.
- Reversible wooden blades with 2 different decors.

Options:

- Optional remote and wall controls available (page 132 - 134).
- Light kits adaptable (page 136/137).
- All blades for dia Ø 103 cm can be used (p. 129 - 131).

Dimensions mm



No. of blades	5
Power motor (W)	63
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	103/42
No. of speeds (w. P/C)	3
Rev. max. (RPM)	225
Weight (kg)	4.7

Installation: 2 screws Ø min. 4.5 mm separation 70 - 90 mm

Classic Flat 103-III

Product	Code No.	Housing Finish	Reversible Blade Finish
103-III BZ-AE/EK	**5103371**	Antique bronze	Used wood oak/Colonial oak
103-III MA-EA/BU	**5103041**	Antique brass	Antique Oak/Beech
103-III BN-NB/BU	**5103051**	Brushed chrome	Walnut/Beech
103-III WE-WE/LG	**5103061**	White	White/Light grey
103-III MP-AE/AH	**5103001**	Polished brass	Used wood oak/Maple

Further technical data on pages 124 and 127

Classic Flat 132-III

FLAT 132-III BZ-AE/EK
#5132371

132-III MA-EA/BU
#5132041

132-III BN-NB/BU
#5132051

132-III WE-WE/LG
#5132061

132-III MP-AE/AH
#5132001

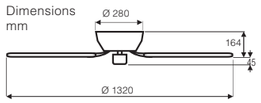
15 YEARS LIMITED MOTOR WARRANTY

LOW PROFILE!
especially made for low-ceilinged rooms

- 3-speeds pull chain switch.
- Forward/reverse (summer/ winter) slide switch.
- Balanced motor and blades.
- Reversible wooden blades with 2 different decors.

Options:

- Optional remote and wall controls available (page 132 - 134).
- All blades for dia Ø 132 cm can be used (page 129 - 131).



No. of blades	5
Power motor (W)	68
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	132/52
No. of speeds (w. P/C)	3
Rev. max. (RPM)	172
Weight (kg)	6.2

Installation: 2 screws Ø min. 4.5 mm separation 70 - 90 mm

Classic Flat 132-III

Product	Code No.	Housing Finish	Reversible Blade Finish
132-III BZ-AE/EK	**5132371**	Antique bronze	Used wood oak/Colonial oak
132-III MA-EA/BU	**5132041**	Antique brass	Antique oak/Beech
132-III BN-NB/BU	**5132051**	Brushed chrome	Walnut/Beech
132-III WE-WE/LG	**5132061**	White	White/Light grey
132-III MP-AE/AH	**5132001**	Polished brass	Used wood oak/Maple

Further technical data on pages 124 and 127

Black Magic

BLACK MAGIC SW-SW
#513207

BLACK MAGIC w/o L. SW-SW
#513297

15 YEARS LIMITED MOTOR WARRANTY

- Black lacquer housing with polished brass.
- 3-speeds pull chain switch.
- Forward/reverse (summer/ winter) slide switch.
- Balanced motor and blades.
- With or without 4 spotlights (E27), individually adjustable, pull switch luminaire 0-2-2-4, ESL possible.
- Installation on sloped ceilings up to 28°, higher pitch with on-site construction.

Options:

- Optional remote and wall controls available (p. 132 - 134).
- Longer downrods for high ceilings available (page 142).
- All blades for dia Ø 132 cm can be used (p. 129 - 131).
- Other light kits adaptable (page 136/137).

Black Magic

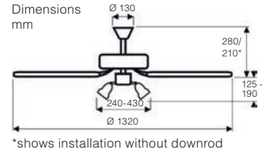
Product	Code No.	Housing Finish	Reversible blades
BLACK MAGIC SW-SW	**513207**	Black/ Polished brass	Black
BLACK MAGIC w/o L. SW-SW	**513297**	Black/ Polished brass	Black

Light bulbs are not included.

Further technical data on pages 124 and 127

No. of blades	5
Power motor (W)	64.5
Power light kit max. (W)	4 × 14
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	132/52
No. of speeds (w. P/C)	3
Rev. max. (RPM)	180
Weight/with light kit (kg)	6.5/7.7

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm



*shows installation without downrod

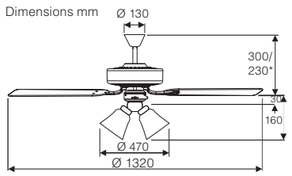
CENTURION

- Housing with ornaments.
- 3-speeds pull chain switch.
- Forward/reverse (summer/winter) slide switch.
- Balanced motor and blades.
- 5-tulip light kit, max. 5 × 60 W (E27) included. Mounting with or without light kit possible.
- Installation on sloped ceilings up to 28°, higher pitch with on-site construction.
- Low profile installation without downrod (only 23 cm ceiling - blades).

Options:

- Optional remote and wall controls available (p. 132 - 134).
- Longer downrods for high ceilings available (page 142).

Dimensions mm



* shows installation without downrod

15 YEARS LIMITED MOTOR WARRANTY

No. of blades	5
Power motor (W)	79
Power light kit max. (W)	5 × 14
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	132/52
No. of speeds (w. P/C)	3
Rev. max. (RPM)	216
Weight (kg)	9.7

Installation: 2 screws Ø min. 4.5 mm
separation 70 - 110 mm

CENTURION

Product	Code No.	Housing Finish	Rev.Blade Finish
132 MA-EA/NB	**513243**	Antique brass	Antique oak/Walnut

Light bulbs are not included.

Further technical data on pages 124 and 127

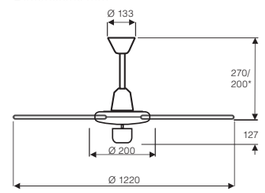
NEW TRISTAR-Z

- Forward/reverse (summer/winter) slide switch.
- 3-speeds pull chain switch.
- Balanced motor and blades.
- When installating with enclosed short downrod only 20 cm distance ceiling - blades.
- Installation on sloped ceilings up to 16°, higher pitch with on-site construction.

Options:

- Optional remote and wall controls available (p. 132 - 134).
- Longer downrods for high ceilings available (page 143).

Dimensions mm



* shows installation with short downrod

TRISTAR-Z 120

Product	Code No.	Housing Finish	Blade Finish
120 SW	**312012**	Black	Black
120 CH	**312011**	Polished chrome	Polished chrome
120 WE	**312010**	White	White

No. of blades	3
Power motor (W)	59
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	122/48
No. of speeds (m.Zugsch.)	3
Rev. max. (RPM)	286
Weight (kg)	4.5

Installation: 2 screws Ø min. 4.5 mm
separation 75 - 95 mm

Further technical data on pages 124 and 127

LIBECCIO 120/142

LIBECCIO BN-WN/KF
#9314253

WE-WE/LG
#9314254

BN-KI/AH
#9314253

WE-KI/AH
#9314254

BN-WN/KF
#9314253

WE-WE/LG
#9314254

15 YEARS LIMITED MOTOR WARRANTY

3 SPEEDS

2 x 10 W E 27 2 x 7 W

WINTER/ SUMMER

MAX. 28/35 m²

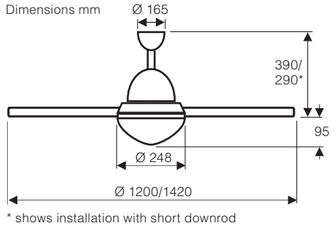
2, 3 or 4 blades installation as you prefer!

- Forward/reverse (summer/winter) slide switch.
- 3 speeds, light on/off and dimming by remote control, wall bracket included.
- Integrated frosted glass light kit, max. 2 × 10 W (E27), suitable for ESL.
- Balanced motor and blades.
- 2 blade sets Ø 120 and Ø 142 with 4 blades each included.
- Installation on sloped ceilings up to 17°, higher pitch with on-site construction.

Options:

- Optional wall controls available (pages 133/134).
- Longer downrods for high ceilings available (page 142).
- Hotel wall control **FB-FNK-D AC Hotel #86210** (page 133).

Dimensions mm



* shows installation with short downrod

Further technical data on pages 124 and 127

No. of blades	4 + 4
Power motor (W)	13 - 81 / 14 - 83
Power light kit max. (W)	2 × 10
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	120/47 / 142/56
No. of speeds (with R/C)	3
Rev. max. (RPM)	170 / 113
Weight (kg)	8.8

Installation: 2 screws Ø min. 4.5 mm
separation 70 - 110 mm

Further technical data on pages 124 and 127

LIBECCIO 120/142

Product	Code No.	Housing Finish	Reversible Blade Finish	
BN	**9314253**	Brushed chrome	**KI/AH** **WN/KF**	Ø 120 cm: Cherry/Maple Ø 142 cm: Wengé/Pine
WE	**9314254**	White	**KI/AH** **WE/LG**	Ø 120 cm: Cherry/Maple Ø 142 cm: White/Light grey

Light bulbs are not included.

TITANIUM

TITANIUM 132 BN-KF/BU
#9513260

LOW PROFILE POSSIBLE!
With direct mounting also suitable for low ceilings

25 YEARS LIMITED MOTOR WARRANTY

3 SPEEDS

2 x 10 W E 27 2 x 7 W

WINTER/ SUMMER

MAX. 15/27/38 m²

3 sizes from Ø 105 to 162 cm available!

132 BN-NB/KI
#9513262

TITANIUM 105: for room size up to 15 m²

105 WE-WE
#9510561

132 BN-NB/KI
#9513262

TITANIUM 132: for room size up to 27 m²

132 WE-WE
#9513261

132 BN-KF/BU
#9513260

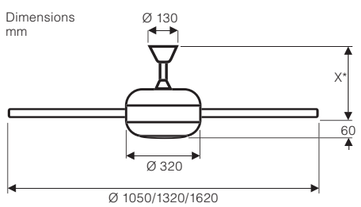
TITANIUM 162: for room size up to 38 m²

162 WE-WE
#9516261

- Forward/reverse (summer/winter) slide switch.
- 3 speeds, light on/off and dimming by remote control, wall bracket included.
- Integrated frosted glass light kit, max. 2 x 10 W (E27), suitable for ESL.
- Balanced motor and blades.
- Installation on sloped ceilings up to 14°, higher pitch with on-site construction.
- Low profile by installation without downrod (only valid for size 132 cm/52“).

Options:

- Optional wall controls available (pages 133/134).
- Longer downrods for high ceilings available (page 143).
- Interchangeable blade sets available (page 129 - 131).
- Hotel wall control **FB-FNK-D AC Hotel #86210** (page 133).



* X = Ø 1050/1320: 260 mm, 190 mm for installation without downrod;
X = Ø 1620: 260 mm, 235 mm for installation with shortened downrod

Model	105	132	162
No. of blades	5	5	5
Power motor (W)	15-66	15-73	14-79
Power light kit max. (W)		2 × 40	
Voltage (V/Hz)		220-240/50	
Size Ø (cm)	105	132	162
No. of speeds (with R/C)	3	3	3
Rev. max. (RPM)	279	187	140
Weight (kg)	8.5	8.7	9.0

Installation: 2 screws Ø min. 4.5 mm
separation 70 - 110 mm

TITANIUM

	room size up to 15 m² Size Ø 105			room size up to 27 m² Size Ø 132			room size up to 38 m² Size Ø 162		
	BN-KF/BU	BN-NB/KI	WE-WE	BN-KF/BU	BN-NB/KI	WE-WE	BN-KF/BU	BN-NB/KI	WE-WE
Code No.	9510560	9510562	9510561	9513260	9513262	9513261	9516260	9516262	9516261
Housing Finish	Brushed chrome	Brushed chrome	White	Brushed chrome	Brushed chrome	White	Brushed chrome	Brushed chrome	White
Reversible Blade Finish	Pine/ Beech	Walnut/ Cherry	Glossy white	Pine/ Beech	Walnut/ Cherry	Glossy white	Pine/ Beech	Walnut/ Cherry	Glossy white

Light bulbs are not included.

Further technical data on pages 124 and 127

Night Flight

NIGHT FLIGHT BN-BU
#9313224

WE-WE
#9313216

BN-WN
#9313215

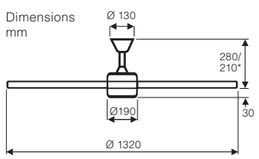
BN-TR
#9313217

- 3 speeds by remote control, incl. light on/off/dimming.
- Forward/reverse (summer/winter) slide switch.
- Balanced motor and blades.
- Installation on slopes up to 14°.
- Low profile by installation without downrod (only 21 cm ceiling - blades).

Options:

- Optional wall controls available (page 133/134).
- Interchangeable blade sets available (page 129 - 131).
- Longer downrods for high ceilings available (page 143).
- Light kits only pre-installed! (page 136/137).

Dimensions mm



*shows installation without downrod, not possible with acrylic blades.

15 YEARS LIMITED MOTOR WARRANTY

3 SPEEDS

WINTER/ SUMMER

MAX. 25 m²

No. of blades	3
Power motor (W)	14 - 70
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	132/52
No. of speeds (with R/C)	3
Rev. max. (RPM)	278
Weight (kg)	6.9

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Night Flight

Product	Code No.	Housing Finish	Blade Finish
BN-WN	**9313215**	Brushed chrome	Wengé
WE-WE	**9313216**	White	White
BN-BU	**9313224**	Brushed chrome	Beech
BN-TR	**9313217**	Brushed chrome	Acrylic transparent

Further technical data on pages 124 and 127

Mercury

MERCURY BN-SI/NB
#9513270

BN-SI/NB
#9513270

- Radio remote control (motor 3 speeds, light on/off or dimming), wall bracket included.
- Forward/reverse (summer/winter) slide switch.
- Balanced motor and blades.
- Installation on sloped ceilings up to 14°, higher pitch with on-site construction.
- Integrated frosted glass light kit, max. 2 x 10 W (E27), suitable for ESL.

Options:

- Optional wall controls available (page 133/134).
- Longer downrods for high ceilings available (page 143).

25 YEARS LIMITED MOTOR WARRANTY

3 SPEEDS

2 x 10 W E 27 2 x 7 W

WINTER/ SUMMER

MAX. 25 m²

Mercury

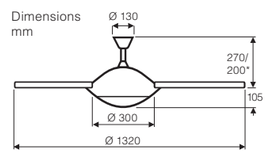
Product	Code No.	Housing Finish	Reversible Blade Finish
BN-SI/NB	**9513270**	Brushed chrome	Silver/Walnut

Light bulbs are not included.

No. of blades	5
Power motor (W)	14 - 70
Power light kit max. (W)	2 x 10
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	132/52
No. of speeds (with R/C)	3
Rev. max. (RPM)	162
Weight (kg)	9.2

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Dimensions mm



*shows installation without downrod

Further technical data on pages 124 and 127

MIRAGE

MIRAGE BN-SW
#9313211


BN-SW
#9313211


WE-WE
#9313220


BN-SI
#9313210


BN-TR
#9313209

25 YEARS LIMITED MOTOR WARRANTY

3 SPEEDS

2 x 10 W E 27 2 x 7 W

WINTER/ SUMMER

MAX. 32 m²

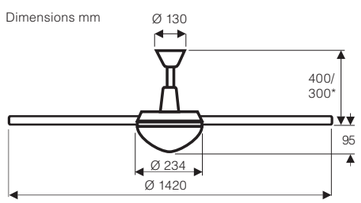
2, 3 or 4 blades installation as you prefer!

- 4 injection molded composite blades for best air delivery.
- 3 speeds, light on/off and dimming by remote control, wall bracket included.
- Forward/reverse (summer/winter) slide switch.
- Integrated frosted glass light kit, max. 2 x 10 W (E27), suitable for ESL.
- Balanced motor and blades.
- Installation on sloped ceilings (up to 14°), higher pitch with on-site construction.

Options:

- Optional wall controls available (page 133/134).
- Longer downrods available (page 143).
- Interchangeable blade sets available (page 129 - 131).
- Hotel wall control **FB-FNK-D AC Hotel #86210** (page 133).

Dimensions mm



* shows installation with short downrod

No. of blades	4
Power motor (W)	18 - 62
Power light kit max. (W)	2 × 10
Voltage (V/Hz)	220-240/50
Size Ø (cm/*)	142/56
No. of speeds (with R/C)	3
Rev. max. (RPM)	230
Weight (kg)	8.1

Installation: 2 screws Ø min. 4.5 mm
separation 70 - 110 mm

Further technical data on pages 124 and 127

MIRAGE

Product	Code No.	Housing Finish	Blade Finish
BN-SW	**9313211**	Brushed chrome	Composite, black
BN-SI	**9313210**	Brushed chrome	Composite, silver
WE-WE	**9313220**	White	Composite, white
BN-TR	**9313209**	Brushed chrome	Composite, semitransparent

Light bulbs are not included.

ROTARY

ROTARY BN-WN
#9513265

Interchangeable blades beech **#19103** / pine **#19102** (accessory)

WE-BU
#9513277

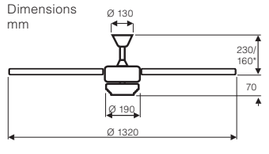
WE-WE
#9513269

- Forward/reverse (summer/ winter) slide switch.
- 3 speeds by remote controle, incl. light on/off/dimming.
- Balanced motor and blades.
- Installation on sloped ceilings up to 14°.
- Low profile by installation without downrod (only 16 cm ceiling - blades).

Options:

- Optional wall controls available (page 133/134).
- Light kits only pre-installed! (page 136/137).
- Longer downrods available for high ceilings (page 143).
- Interchangeable blades available (page 129 - 131).

Dimensions mm



*shows installation without downrod

No. of blades	5
Power motor (W)	14 - 72
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	132/52
No. of speeds (with R/C)	3
Rev. max. (RPM)	239
Weight (kg)	7.4

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

ROTARY

Product	Code No.	Housing Finish	Blade Finish
BN-WN	**9513265**	Brushed chrome	Wengé
WE-WE	**9513269**	White	White
WE-BU	**9513277**	White	Beech

Further technical data on pages 124 and 127

ALU

ALU AL-AL/KI
#513218

Interchangeable blades Maple/Chalked oak **#19018** (accessory)

WE-WE
#513219

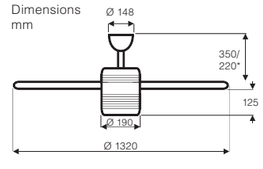
AL-AL/KI
#513218

- 3 speeds pull chain switch.
- Forward/reverse (summer/ winter) pull chain switch.
- Integrated light kit, max. 1 × 20 W (E27), suitable for ESL.
- Light pull chain switch.
- Storage compartment for unused pull chain switches.
- Balanced motor and blades.
- Installation on sloped ceilings up to 30°, higher pitch with on-site construction.

Options:

- Optional controls available (page 132 - 134).
- Longer downrods available for high ceilings (page 142).
- Interchangeable blade set available (page 129 - 131).

Dimensions mm



* shows installation with short downrod

ALU

Product	Code No.	Housing Finish	Reversible Blade Finish
AL-AL/KI	**513218**	Brushed Aluminum	Aluminium silver/Cherry
WE-WE	**513219**	White	White

Light bulbs are not included.

No. of blades	5
Power motor (W)	60
Power light kit max. (W)	1 × 20
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	132/52
No. of speeds (w. P/C)	3
Rev. max. (RPM)	180
Weight (kg)	7.7

Installation: 2 screws Ø min. 4.5 mm separation 70 - 125 mm

Further technical data on pages 124 and 127

ELICA

ELICA BN-WN
#9513278

WE-AH
#9513296

WE-WE
#9513279

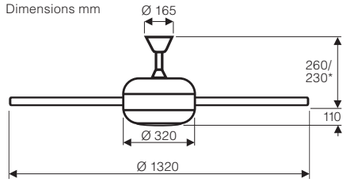
25 YEARS LIMITED MOTOR WARRANTY

- 3 speeds, light on/off and dimming by remote control, wall bracket included.
- Forward/reverse (summer/winter) slide switch.
- Integrated frosted glass light kit, max. 2 x 10 W (E27), suitable for ESL.
- Balanced motor and blades.
- Installation on sloped ceilings up to 17°, higher pitch with on-site construction.
- Low profile by installation with short downrod.

Options:

- Optional wall controls available (page 133/134).
- Longer downrods for high ceilings available (page 143).
- Interchangeable blade sets available (page 129 - 131).

Dimensions mm



* shows installation with short downrod

No. of blades	5
Power motor (W)	15 - 72
Power light kit max. (W)	2 × 10
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	132/52
No. of speeds (with R/C)	3
Rev. max. (RPM)	188
Weight (kg)	8.7

Installation: 2 screws Ø min. 4.5 mm
separation 70 - 110 mm

Further technical data on pages 124 and 127

ELICA

Product	Code No.	Housing Finish	Blade Finish
BN-WN	**9513278**	Brushed chrome	Wengé
WE-WE	**9513279**	White	White
WE-AH	**9513296**	White	Maple

Light bulbs are not included.

Helico Paddel

HELICO PADDEL BN-NB
#9313237

BN-BU
#9313236

20 YEARS LIMITED MOTOR WARRANTY

3 SPEEDS

WINTER/ SUMMER

1 x 10,5 W E 27 1 x 20 W

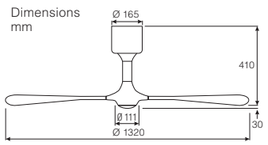
MAX. 25 m²

- Blades, milled from solid wood, stained beech or walnut finished.
- 3 speeds, light on/off by remote control.
- Forward/reverse (summer/ winter) slide switch.
- Balanced motor and blades.
- Integrated light kit, max. 20 W, E27 (Ø 97 mm, L 91 mm).
- Including 1 × MEGAMAN MM17242, 10,5 W (PAR30S), light warm white (2,800 K, 700 lm), Energy class G (Spectrum A to G).
- Installation only on straight ceilings.

Options:

- Optional wall controls available (page 133/134).

Dimensions mm



No. of blades	3
Power motor (W)	16 - 61
Power light kit max. (W)	1 × 20
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	132/52
No. of speeds (with R/C)	3
Rev. max. (RPM)	170
Weight (kg)	7.9

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Helico Paddel

Product	Code No.	Housing Finish	Blade Finish
BN-BU	**9313236**	Brushed chrome	Solid wood, stained beech
BN-NB	**9313237**	Brushed chrome	Solid wood, walnut

Further technical data on pages 124 and 127

Macau

MACAU BN-NT
#313266

BN-NB
#313265

ORB-NT
#313268

ORB-NB
#313267

15 YEARS LIMITED MOTOR WARRANTY

3 SPEEDS

WINTER/ SUMMER

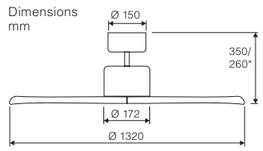
MAX. 25 m²

- 3 blades milled from solid wood.
- Modern shaped housing, made of steel.
- 3 speeds by remote control.
- Forward/reverse (summer/ winter) silde switch.
- Balanced motor and blades.
- Installation on sloped ceilings up to 18°, higher pitch with on-site construction.
- Additional short ceiling bar included in delivery.

Options:

- Optional wall controls available (page 133/134).
- Longer downrods available for high ceilings (page 143).

Dimensions mm



* shows installation with short downrod

No. of blades	3
Power motor (W)	21 - 39
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	132/52
No. of speeds (with R/C)	3
Rev. max. (RPM)	152
Weight (kg)	7.5

Installation: 2 screws Ø min. 4.5 mm separation 73 - 127 mm

Macau

Product	Code No.	Housing Finish	Blade Finish
BN-NB	**313265**	Brushed chrome	Solid wood, Walnut
BN-NT	**313266**	Brushed chrome	Solid wood, Natural
ORB-NB	**313267**	Oil Rubbed Bronze	Solid wood, Walnut
ORB-NT	**313268**	Oil Rubbed Bronze	Solid wood, Natural

Further technical data on pages 124 and 127

FALCETTO

FALCETTO AP-AL
#9513271

BA-NB #9513273

WE-WE #9513272

25 YEARS LIMITED MOTOR WARRANTY

3 SPEEDS

WINTER/ SUMMER

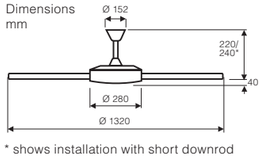
MAX. 25 m²

- 3 speeds by remote control.
- Forward/reverse (summer/ winter) slide switch.
- Balanced motor and blades.
- Aluminum die cast housing.
- Installation on sloped ceilings up to 17°, higher pitch with on-site construction.

Options:

- Optional wall controls available (page 133/134).
- Longer downrods available for high ceilings (page 143).
- Interchangeable blade sets available (page 129 - 131).

Dimensions mm



* shows installation with short downrod

No. of blades	5
Power motor (W)	13 - 83
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	132/52
No. of speeds (with R/C)	3
Rev. max. (RPM)	189
Weight (kg)	8.6

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

FALCETTO

Product	Code No.	Housing Finish	Blade Finish
AP-AL	**9513271**	Aluminum handpolished	Alu silver
WE-WE	**9513272**	White	White
BA-NB	**9513273**	Antique brown/bronze	Walnut

Further technical data on pages 124 and 127

LIBELLE

LIBELLE BN-TR
#9413250

WE-TR #9413251

BN-TR #9413250

15 YEARS LIMITED MOTOR WARRANTY

3 SPEEDS

WINTER/ SUMMER

MAX. 25 m²

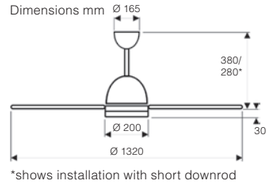
2, 3 or 4 blades installation as you prefer!

- 3 speeds by remote control.
- Forward/reverse (summer/ winter) slide switch.
- Balanced motor and blades.
- Installation on sloped ceilings up to 17°, higher pitch with on-site construction.

Options:

- Optional wall controls available (page 133/134).
- Longer downrods for high ceilings available (page 143).

Dimensions mm



*shows installation with short downrod

No. of blades	4
Power motor (W)	15 -75
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	132/52
No. of speeds (with R/C)	3
Rev. max. (RPM)	147
Weight (kg)	7.5

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

LIBELLE

Product	Code No.	Housing Finish	Blade Finish
BN-TR	**9413250**	Brushed chrome	Acrylic glass
WE-TR	**9413251**	White	Acrylic glass

Further technical data on pages 124 and 127

Outdoor Classic

OUTDOOR CLASSIC BZ-PR
PALM/WICKER
#513294

WE-PR #513295

WE-EW #513293

- Motor protection class IP44. Suitable for protected outdoor areas.
- 3 speeds pull chain switch.
- Forward/reverse (summer/winter) pull chain switch.
- Balanced motor and blades.
- Installation on sloped ceilings with on-site construction.
- Not suitable for light kits.

Options:

- Optional wall and remote controls available (p. 132 - 134).
- Longer downrods available for high ceilings (page 143).

IP44
splash-proof ideal for the covered terrace

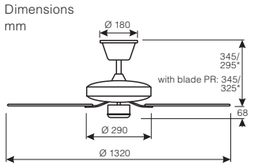
15 YEARS LIMITED MOTOR ***WARRANTY***

3 SPEEDS

WINTER/ SUMMER

MAX. 25 m²

Dimensions
mm



*shows installation with shortened downrod

No. of blades	5
Power motor (W)	27 - 61
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	132/52
No. of speeds (w. P/C)	3
Rev. max. (RPM)	190
Weight (kg)	8.6

Installation: 2 screws Ø min. 4.5 mm separation 70 - 110 mm

Outdoor Classic

Product	Code No.	Housing Finish	Blade Finish
BZ-EB	**513292**	Bronze	Brown oak decor composite
WE-EW	**513293**	White	White oak decor composite
BZ-PR	**513294**	Bronze	Palm/wicker composite
WE-PR	**513295**	White	White oak decor composite

Further technical data on pages 124 and 127

OUTDOOR CLASSIC BZ-EB
#513292

TRISTAR II

TRISTAR II 140 WE
#314004

Guaranteed Quality · 3 YEARS · CasaFan

120 WE #312005

90 WE #309004

MAX. 10/18/30 m²

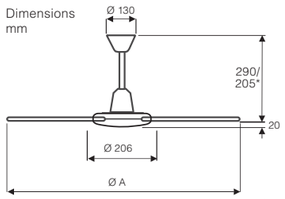
in 3 sizes from Ø 90 to 140 cm available!

- Forward function, non-reverse.
- Balanced motor and blades.
- No control unit. Choose a fan control that meets your needs.
- Installation on sloped ceilings up to 18°, higher pitch with on-site construction.

Options:

- Optional wall and remote controls available (page 132 - 134).
- Longer downrods for high ceilings available (page 143).

Dimensions mm



* shows installation with shortened downrod

Model	90	120	140
No. of blades	3	3	3
Power motor (W)	52	58	70
Voltage (V/Hz)		220-240/50	
Size A Ø (cm/*)	92/36	122/48	142/56
No. of speeds		1 (3 - 5)[1]	
Rev. max. (RPM)	362	300	280
Weight (kg)	4.1	4.5	5.6

Installation: 2 screws Ø min. 4.5 mm separation 75 - 95 mm

TRISTAR II

Product	Code No.	Housing Finish	Blade Finish	Dim. A (mm)
II 90 WE	**309004**	White	White	920
II 120 WE	**312005**	White	White	1220
II 140 WE	**314004**	White	White	1420

[1] Always order control unit separately!

Further technical data on pages 124 and 127

ECO CONCEPT 152 LG-WE/LG
see page 24

ECO GENUINO 180 MS-NB
see page 34

THE SENSU PUNKAH

OLIVERKESSLER

THE SENSU PUNKAH Off White #941805

Red #941802

Black #941803

Blue #941804

White #941805

- A large fabric fan glides gently back and forth.
- Incomparably natural and refreshing airflow.
- Perfect for selective ventilation in large rooms.
- Absolutely quiet and smooth running.
- 3 speeds selectable by remote control.
- Moves to a rest position on the ceiling by the touch of a button when not in use.

Options

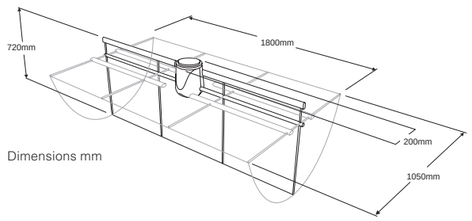
- Several devices run synchronously via sync cable (accessory).

Remote control included.

15 YEARS LIMITED MOTOR WARRANTY

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries



Dimensions mm

No. of blades	1
Power motor max. (W)	20
Power opt. light kit max. (W)	9
Voltage (V/Hz)	100-240/50-60
Size (cm)	180 × 72
No. of speeds (with R/C)	3
Rev. max. (RPM)	30,8
Weight (kg)	7.5

Installation: 4 screws Ø min. 6 mm on a bolt circle of 96 mm

THE SENSU PUNKAH

Code No.	Blade Finish	Material
941802	Red	Aluminum, Steel
941803	Black	
941804	Blue	
941805	White	

Nordik EVOLUTION

Nordik EVOLUTION 120 SI
#61754

140 WG
#61758

140 WE
#61752

140 SW
#61759

EVOLUTION light kit* #22413 (l.) with opal glass shade, max. 150 W (E27) and **#22414** (r.) made of polished methacrylate for ESL max. 15 W (E27).

COMMERCIAL USE
Approved according Machinery Directive 2006/42/EC Part 1 for commercial use

15 YEARS LIMITED MOTOR WARRANTY

WINTER/ SUMMER

in 4 sizes from Ø 92 to 159 cm available!

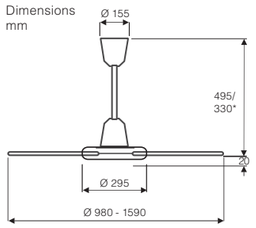
MAX. 15/22/32/40 m²

- Motor housing made of shock-proof, thermoplastic resin, blades made of metal.
- Motor and blades finished with a scratchproof polyester paint.
- Balanced motor and blades.
- Forward/reverse selectable.
- Installation on sloped ceilings with on-site construction.

Options:

- Optional wall and remote control available (page 132-134). *Always order control unit separately.*
- Longer downrods for high ceilings available (page 144).

Dimensions mm



*shows installation with shortened downrod

No. of blades	3
Power motor (W)	24 - 78
Voltage (V/Hz)	220-240/50
Size Ø (cm/*)	98-159/36-62
No. of speeds	1 (3 - 5)[1]
Rev. max. (RPM)	200
Weight (kg)	6.1 - 7.6

1x 35 mm or 10 mm

[1] Always order control unit separately!
* Light bulbs are not included.

NORDIK EVOLUTION

Product	Code No.	Housing Finish	Blade Finish	Ø cm
90 WE	**61750**	White	White	98
120 WE	**61751**	White	White	128
140 WE	**61752**	White	White	149
160 WE	**61753**	White	White	159
120 SI	**61754**	Metallic silver	Metallic silver	128
140 SI	**61757**	Metallic silver	Metallic silver	149
120 SW	**61756**	Black	Black	128
140 SW	**61759**	Black	Black	149
120 WG	**61755**	Wood grain	Wood grain	128
140 WG	**61758**	Wood grain	Wood grain	149

Nordik DESIGN 1S

Nordik DESIGN 1S 120 WE
#61260

Nordik DESIGN
1S/L* 120 WE #61101

COMMERCIAL USE
Approved according Machinery Directive 2006/42/EC Part 1 for commercial use

15 YEARS LIMITED MOTOR WARRANTY

WINTER/ SUMMER

in 4 sizes from Ø 92 to 152 cm available!

MAX. 13/20/30/38 m²

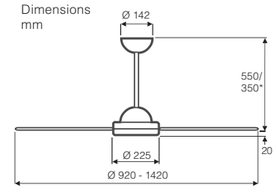
awarded design by IF84 Design Award Die gute Industrieform

- Balanced motor and blades.
- Motor housing made of UV-restistant and shockproof thermoplastic resin, blades made of metal, pure white.
- Surface stove enamelled.
- Forward/reverse selectable.
- Installation on sloped ceilings up to 22°, higher pitch with on-site construction.
- Without (**1S**) and with opal glass lamp (**1S/L**), max. 150 W, E27) available.

Options:

- Optional wall or remote control available (page 133/134). *Always order control unit separately.*
- Longer downrods for high ceilings available (page 144).

Dimensions mm



*shows installation with shortened downrod

NORDIK DESIGN 1S

Product	Code No.	Housing/ Blade Finish	Light kit	Ø cm
1S 90 WE	**61160**	White	no	92
1S 120 WE	**61260**	White	no	122
1S 140 WE	**61360**	White	no	142
1S 160 WE	**61460**	White	no	152
1S/L 90 WE	**61001**	White	max. 150 W (E27)	92
1S/L 120 WE	**61101**	White	max. 150 W (E27)	122
1S/L 140 WE	**61301**	White	max. 150 W (E27)	142
1S/L 160 WE	**61401**	White	max. 150 W (E27)	152

No. of blades	3
Power motor (W)	24 - 70
Voltage (V/Hz)	220-240/50
Size Ø (cm/*)	92-152/36-60
No. of speeds	1 (3 - 5)[1]
Rev. max. (RPM)	231
Weight (kg)	5.6 - 7.8

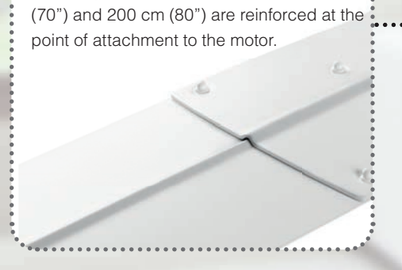
1x 35 mm or 10 mm

[1] Always order control unit separately!
* bulbs are not included.

Nordik Eco

Hanger
A special plate with 4 holes for tight and durable fastening, which can also be used to suspend the appliance from sloping ceilings.

Blades
For additional mechanical strength and durability over time, the blades with 180 cm (70") and 200 cm (80") are reinforced at the point of attachment to the motor.



Nordik ECO 120
#61060

Telenordik Eco
#21200

IR remote control, forward/reverse, 5 speeds, with wall bracket

Continuously variable wall regulator
POT-R #12829

Forward/reverse operation for surface-mounting and flush mounting

Differential temperature controller Vort Delta T WIFI #21175

for fully automatic heat recirculation in winter

Receiver MD-WIFI
#21399
(1 is required for each fan)

25 YEARS LIMITED MOTOR WARRANTY

WINTER/ SUMMER

in 6 sizes with Ø 92 to 200 cm available!

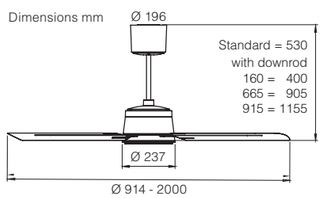
MAX. 15 - 54 m²

- State-of-the-art, economical EC motor technology.
- Forward/reverse (summer/winter) function.
- Balanced motor and blades.
- Controled[1] by optional IR-remote control **Telenordic Eco** or optional wall controller **POT-R**.
- Housing ABS white, RAL 9016 satin finished, blades steel, RAL 9016 satin-finished, powdercoated.
- Installation on sloped ceilings only with on-site construction.

Options:

- Longer downrods for high ceilings available (p. 144).

Dimensions mm



[1] Always order control unit separately
Cannot be operated without control unit!

No. of blades	3
Power motor (W)	2.7 - 40
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	92-202/36-80
No. of speeds	stepless/5[1]
Rev. max. (RPM)	200 - 250
Weight (kg)	5.5 - 10.0

Installation: 4 screws min. Ø 4.5 mm separation □ 80 mm

Nordik Eco

Product	Code No.	W	U/min	m² max.	Ø (mm)	Housing finish	Blade finish
ECO 90	**61060**	27	250	15	914	ABS White	White
ECO 120	**61061**	30	235	22	1218	ABS White	White
ECO 140	**61062**	30	235	32	1422	ABS White	White
ECO 160	**61063**	30	210	40	1524	ABS White	White
ECO 180	**61064**	40	205	46	1800	ABS White	White
ECO 200	**61065**	40	200	54	2000	ABS White	White

Downrods in 3 different lengths:

Finish	Code No. 160 mm	Code No. 665 mm	Code No. 915 mm
White	**21150**	**21154**	**21155**

Nordik AirDesign

Three lighting scenarios can be selected by remote control:

Home: 60 internal LEDs with 120° beam angle.

Work: 50 outer LEDs with 60° beam angle.

Mixed: All 110 LEDs combined (light colour 3,000 K).

Each scenario can be dimmed by remote control.

The luminaire contains built-in LED lamps.
Energy class E (Spektrum A to G). The lamps cannot be changed in the luminaire.

Nordik AirDesign
MOTOR WE #21021

LED module 3-601014

Lamp	LED
Power max. (W)	37
CRI	80
Luminous flux (lm)	3,683
Luminous colour (K)	3,000
Beam angle (°)	120
Service life (h)	30,000

25 YEARS LIMITED MOTOR WARRANTY

5 SPEEDS

LED 12/37 W

WINTER/ SUMMER

in 3 sizes from Ø 120 to 160 cm available!

MAX. 22/32/40 m²

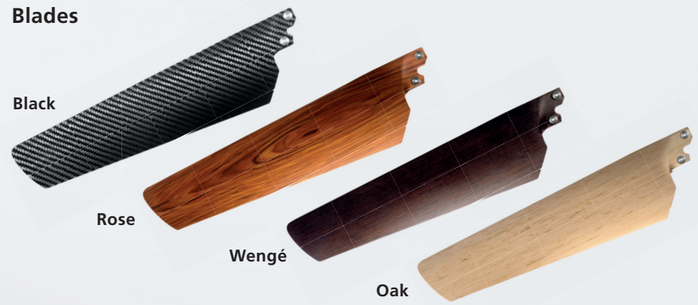
Downrod
Titan 290 #21047
MOTOR TI #21022
Blades
Carbon rose
160 cm #21069

Downrod
White 290 #21046
MOTOR WE #21021
Blades
Carbon oak
160 cm #21070

Downrods

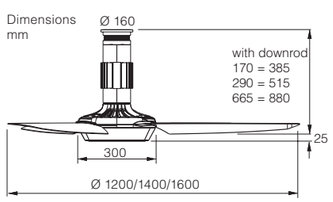
Downrod
White 290 #21046
MOTOR RO #21023
Blades
Carbon black
160 cm #21068

Blades



Motor units

- Motor housing and downrods made of polycarbonate.
- 3 blades made of baked carbon, available in 3 different sizes.
- State-of-the-art LED technology for the integrated, dimmable luminaire.
- Balanced motor and blades.
- Forward/reverse (summer/winter) function.
- Radio remote controle (5 speeds, light on/ off or dimming, sleep timer) included.



No. of blades	3
Power motor + light (W)	120
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	120-160/48-63
No. of speeds (with R/C)	5
Rev. max. (RPM)	45 - 146
Weight (kg)	9.7 - 10.0

Installation: 4 - 6 screws Ø min. 4.5 mm on a bolt circle of 140 mm

Nordik AirDesign

Downrods in 3 different lengths:

Finish	Code No. L = 170	Code No. L = 290	Code No. L = 665
White	21041	21046	21051
Red	21043	21048	21053
Clear	21040	21045	21050
Titan	21042	21047	21052

Set of 3 blades selectable in 3 dimensions and 4 finishes:

Finish	Code No. Ø 120 cm	Code No. Ø 140 cm	Code No. Ø 160 cm
Carbon black	21060	21064	21068
Carbon rose	21061	21065	21069
Carbon wengé	21063	21067	21071
Carbon oak	21062	21066	21070

Motor units in 4 finishes:

Finish	Code No.	Colour
MOTOR WE	21021	White
MOTOR RO	21023	Red
MOTOR TR	21020	Clear
MOTOR TI	21022	Titan

Nordik INTERNATIONAL PLUS

COMMERCIAL USE
Approved according Machinery Directive 2006/42/EC Part 1 for commercial use

I-plus light kit #22415
Opal glass
(max. 150 W, E27)

Nordik INTERNATIONAL
140 plus #61721

15 YEARS LIMITED MOTOR WARRANTY

WINTER/ SUMMER

in 4 sizes from Ø 92 to 152 cm available!

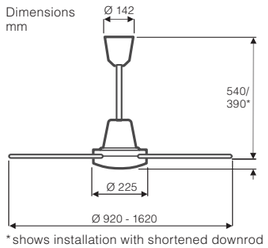
MAX. 13/20/30/38 m²

- Balanced motor and blades.
- Motor housing made of shock-proof, thermoplastic resin, colour light grey.
- Surface stove enamelled.
- Forward/reverse selectable.
- Installation on sloped ceilings up to 22°.

Options:

- Optional wall and remote control available (page 132-134). *Always order control unit separately.*
- Longer downrods for high ceilings available (page 144).
- Light kit **I-plus #22415** available.

Dimensions mm



*shows installation with shortened downrod

No. of blades	3
Power motor (W)	24 - 76
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	90-152/35-60
No. of speeds	1 (3 - 5)[1]
Rev. max. (RPM)	207 - 238
Weight (kg)	5.5 - 6.8

1 x 35 mm or 10 mm

Nordik INTERNATIONAL PLUS

Product	Code No.	Housing Finish	Blade finish	Ø cm
I 90 plus	**61701**	Light grey	Light grey	92
I 120 plus	**61711**	Light grey	Light grey	122
I 140 plus	**61721**	Light grey	Light grey	142
I 160 plus	**61731**	Light grey	Light grey	152

[1] Always order control unit separately!

Nordik TROPICAL IPX5

IPX5
Splash proof protection
insensitive to water, humidity, dust and dirt

Nordik TROPICAL
140 IPX5 #61742

15 YEARS LIMITED MOTOR WARRANTY

WINTER/ SUMMER

MAX. 30 m²

COMMERCIAL USE
Approved according Machinery Directive 2006/42/EC Part 1 for commercial use

- IPX5 splash protection according EN 60529:1997+A1:2000.
- Balanced motor and blades.
- Motor and blades finished with a scratchproof polyester paint.
- Blades, downrod and motor shaft made entirely from galvanised, rust-proof steel.
- Casing in impact-resistant, PP plastic resin with anti-UV, anti-yellowing treatment.
- Forward/reverse selectable.
- Installation only on straight ceilings.

Options:

- Optional wall control available (page 132-134). *Always order control unit separately.*
- Longer downrods for high ceilings available (page 144).

Nordik TROPICAL IPX5

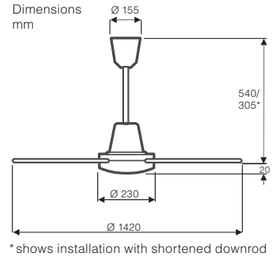
Product	Code No.	Housing Finish	Blade finish
140 IPX5	**61742**	Light grey	Light grey

[1] Always order control unit separately!

No. of blades	3
Power motor (W)	24 - 74
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	142/56
No. of speeds	1 (4 - 5)[1]
Rev. max. (RPM)	231
Weight (kg)	6.1

1 x 35 mm or 10 mm

Dimensions mm



*shows installation with shortened downrod

Nordik HEAVY DUTY BASE

IP55
Splash proof protection
insensitive to water, humidity, dust and dirt

Nordik HD 160 BASE
#61022

The hanger consists of a special plate with 4 holes for tight and durable fastening, which can also be used to suspend the appliance from sloping ceilings.

COMMERCIAL USE
Approved according Machinery Directive 2006/42/EC Part 1 for commercial use

Nordik HEAVY DUTY ideal for use in agriculture, production and wherever dirt, dust and wetness are part of everyday life – the special encapsulation of the motor and the anti-corrosive treatment of the components guarantee the highest quality.

15 YEARS LIMITED MOTOR WARRANTY

WINTER/ SUMMER

in 4 sizes from Ø 120 to 200 cm available!

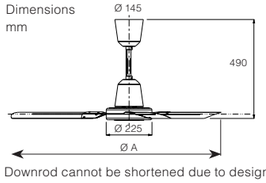
MAX. 22/32/40/54 m²

- Available in 4 sizes.
- Blades made of electrolytic zinccoated steel, treated with an epoxy base coat.
- Balanced motor, insulation class H.
- Motor housing made of die-cast aluminium, treated with an anthracite epoxy base topcoat with hammered finish.
- Forward/reverse selectable.
- Protection class I.

Optionen:

- Optional wall controls available (page 132-134). Suitable for control with TDA-Control! *Always order control unit separately.*
- Longer downrods for high ceilings (page 144). For example: Brushed chrome

Dimensions mm



Downrod cannot be shortened due to design

No. of blades	3
Power motor (W)	24 - 85
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	120-200/47-80
No. of speeds	1 (3 - 5)[1]
Rev. max. (RPM)	186 - 239
Weight (kg)	7.3 - 9.1

Installation: 4 screws min Ø 5.5 mm

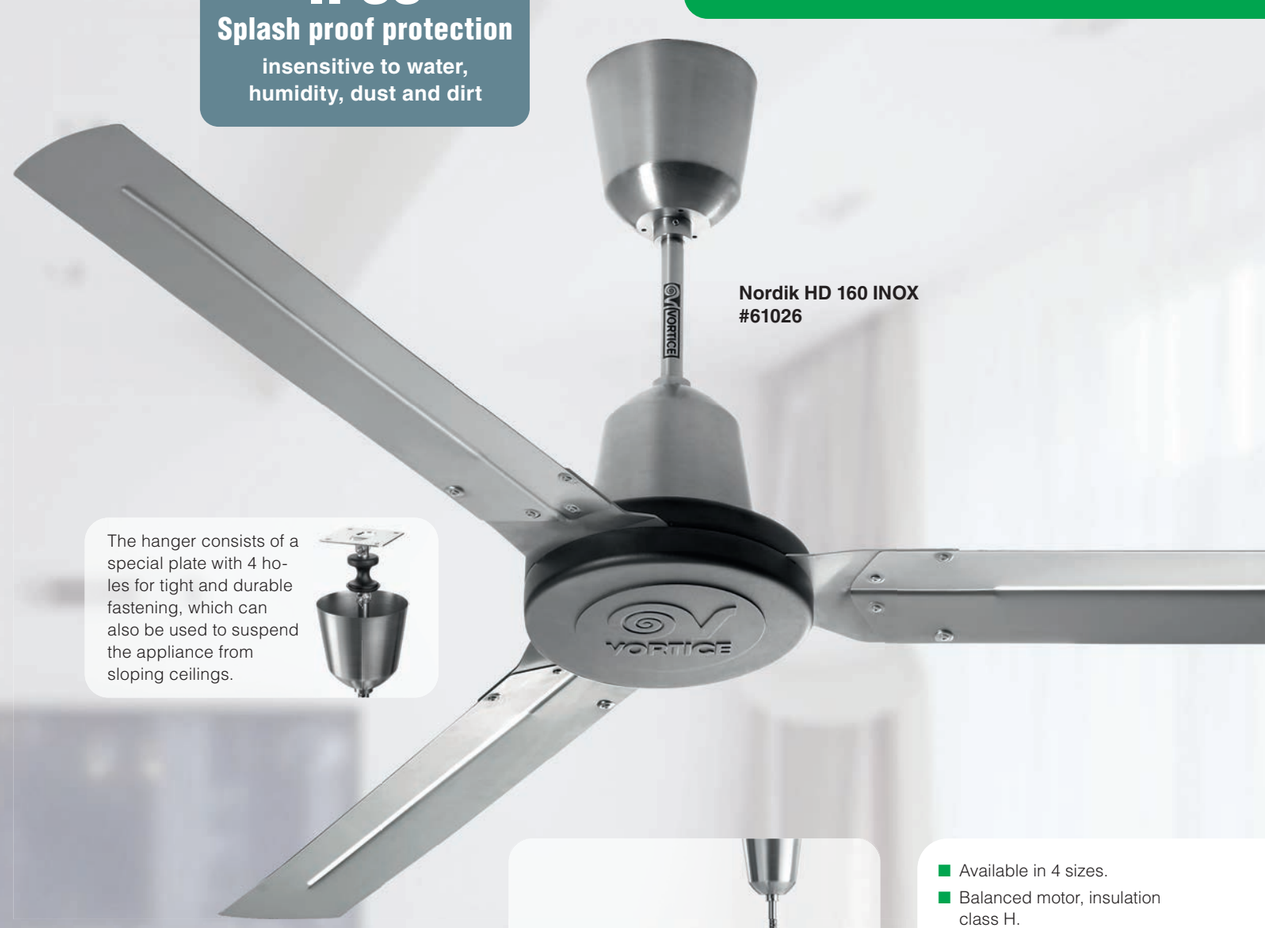
Nordik HEAVY DUTY BASE

Product	Code No.	Housing finish	Blade finish	Air delivery[2] m³/min	Power (W)	Dim. A (mm)
120 Base	**61020**	anthracite powder coating hammered finish	anthracite powder coating hammered finish	234	80	1,218
140 Base	**61021**			266.6	80	1,422
160 Base	**61022**			321.6	85	1,524
200 Base	**61023**			367.5	85	2,000

[1] Always order control unit separately! [2] according IEC 60879

Nordik HEAVY DUTY INOX

IP55
Splash proof protection
insensitive to water, humidity, dust and dirt



Nordik HD 160 INOX
#61026

The hanger consists of a special plate with 4 holes for tight and durable fastening, which can also be used to suspend the appliance from sloping ceilings.

COMMERCIAL USE
Approved according Machinery Directive 2006/42/EC Part 1 for commercial use

15 YEARS LIMITED MOTOR WARRANTY

WINTER/ SUMMER

in 4 sizes from Ø 120 to 200 cm available!

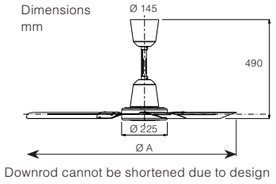
MAX. 22/32/40/54 m²

- Available in 4 sizes.
- Balanced motor, insulation class H.
- Blades, Downrod an canopy made of stainless steel 304.
- Motor housing made of die-cast aluminum, treated with an anthracite epoxy base topcoat with hammered finish.
- Forward/reverse selectable.
- Protection class I.

Options:

- Optional wall controls available (pages 132-134). Suitable for control with TDA-Control! *Always order control unit separately.*
- Longer downrods for high ceilings (page 144). For example: Stainless steel

Dimensions mm



Downrod cannot be shortened due to design

No. of blades	3
Power motor (W)	24 - 85
Voltage (V/Hz)	220-240/50
Size Ø (cm/")	120-200/47-80
No. of speeds	1 (3 - 5)[1]
Rev. max. (RPM)	186 - 239
Weight (kg)	7.3 - 9.1

Installation: 4 screws min Ø 5.5 mm

Nordik HEAVY DUTY INOX

Product	Code No.	Housing finish	Blade finish	Air delivery[2] m³/min	Power (W)	Dim. A (mm)
120 Inox	**61024**	anthracite powder coating hammered finish	Stainless steel 304	234.0	80	1,218
140 Inox	**61025**			266.6	80	1,422
160 Inox	**61026**			321.6	85	1,524
200 Inox	**61027**			367.5	85	2,000

[1] Always order control unit separately! [2] according IEC 60879

Technical Data DC/EC Models

[1] The table shows the maximum speed at the highest setting at 1.5 m above the floor in a 3 m high room. This is to help you estimate draughts at head height, sitting under the ceiling fan. This specification refers to the highest speed. A fine gradation of the speed with as many steps as possible enables you to have draught-free operation even in winter when returning the warm air that is under the ceiling.

[2] Noise measurements were carried out at the VDE Testing and Certification Institute in Offenbach/Main. The lower limit for the laboratory measurement is 32 dB(A) for sound power L_W and 15 dB(A) for sound pressure L_P -3m.

[3] Since many ceiling fans on the market are published with one or the other value, we provide the measured noise values both as sound power L_W and sound pressure L_P-3m.

Model | Size cm	Motor Type	Catalogue Page	Air flow at highest level (m³/h)	Maximum Fan Flow Rate F (m³/min)	Service Value SV ((m³/min)/W)	Air Velocity 1.5 m above floor (m/s)	RPM (min-1)							Fan Power Input P (W)						Fan Sound Power Level LW (dB(A))[2,3]						Fan Sound Pressure Level LP -3m (dB(A))[2,3]					
							Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Eco Plano II 112*	EC/DC	14	4,258	71.0	**5.5**	2.01	30	65	102	135	171	208		1.0	1.8	3.4	5.7	8.8	13.0	<32	<32	<32	33.2	38.4	44.7	<15	<15	<15	<15	17.9	24.2
Eco Plano II 132*	EC/DC	14	7,594	126.6	**4.5**	2.44	30	63	98	131	165	207		1.1	2.3	5.0	9.5	16.6	28.0	<32	<32	<32	37.7	44.8	51.1	<15	<15	<15	17.2	24.3	30.6
Eco Plano Wood 132	EC/DC	16	8,570	142.8	**6.7**	2.16	30	66	102	136	176	210		1.0	2.2	4.6	8.1	13.2	21.3	<32	<32	<32	35.4	42.4	47.3	<15	<15	<15	17.9	24.9	29.8
Eco Regento 140	EC/DC	18	9,891	164.9	**6.1**	2.19	30	62	74	95	117	132		1.2	2.4	5.2	10.5	18.5	27.0	<32	<32	<32	<32	34.3	38.2	<15	<15	<15	<15	13.8	17.7
Eco Pallas 116	EC/DC	20	6,762	112.7	**5.6**	2.11	30	65	102	139	173	209		1.2	2.3	4.6	8.0	13.5	20.0	<32	<32	<32	36.6	43.4	49.7	<15	<15	<15	16.1	22.9	29.2
Eco Pallas 142	EC/DC	22	8,927	148.8	**5.5**	2.16	30	61	91	122	154	182		1.2	2.5	5.2	9.7	16.6	27.0	<32	<32	<32	37.9	44.8	50.1	<15	<15	<15	17.4	24.3	29.6
Eco Concept 132*	EC/DC	24	9,575	159.6	**5.9**	2.44	30	65	90	123	155	185		2.3	3.5	6.3	11.2	18.3	27.0	<32	<32	32.4	38.9	45.9	51.8	<15	<15	<15	18.4	25.4	31.3
Eco Concept 152*	EC/DC	24	11,410	190.2	**7.0**	2.13	30	53	74	97	129	146		2.5	3.8	6.5	11.5	18.5	27.0	<32	<32	<32	35.7	41.8	47.1	<15	<15	<15	15.2	21.3	26.6
Eco Dynamix II*	EC/DC	26	9,357	156.0	**5.6**	2.60	30	60	92	121	150	177		2.3	3.6	6.2	10.8	18.0	28.0	<32	<32	32.0	37.4	45.0	51.2	<15	<15	<15	16.9	24.5	30.7
Eco Genuino 122	EC/DC	28	6,627	110.5	**9.8**	1.98	50	57	78	96	117	144		3.2	3.4	4.3	5.5	7.1	11.3	<32	<32	<32	<32	32.1	34.4	<15	<15	<15	<15	<15	<15
Eco Genuino 152	EC/DC	30	9,220	153.7	**9.3**	1.78	50	64	79	96	118	143		3.3	3.7	5.2	6.7	9.5	16.6	<32	<32	<32	32.4	35.4	40.6	<15	<15	<15	<15	<15	20.1
Eco Genuino 180	EC/DC	34	14,382	239.7	**8.0**	1.96	50	57	77	95	114	132		4.1	4.8	7.5	12.7	19.8	30.0	<32	<32	<32	33.7	39.4	42.5	<15	<15	<15	<15	18.9	22.0
Eco Genuino-L 152	EC/DC	36	9,176	152.9	**9.3**	1.78	50	57	77	96	114	144		3.3	3.6	4.8	6.6	9.4	16.5	<32	<32	<32	32.4	35.4	40.6	<15	<15	<15	<15	<15	20.1
Eco Interior 140	EC/DC	38	11,805	196.8	**6.9**	2.21	38	60	83	105	120	143		8.6	10.1	12.4	16.4	20.5	28.5	<32	<32	32.0	37.1	37.5	40.2	<15	<15	<15	16.6	17.0	19.7
Aerodynamix Eco 112	EC/DC	40	5,423	90.4	**8.0**	2.19	74	98	118	142	176	190		3.8	4.5	5.4	7.0	9.9	11.3	<32	<32	<32	34.1	40.8	48.3	<15	<15	<15	15.2	20.3	27.8
Aerodynamix Eco 132	EC/DC	40	10,882	181.4	**8.9**	2.39	72	98	120	144	180	188		3.6	5.3	7.1	10.6	17.8	20.4	<32	<32	<32	34.3	41.8	49.7	<15	<15	<15	<15	21.3	29.2
Eco Airscrew 152	EC/DC	42	11,712	195.2	**7.0**	2.24	50	61	81	98	117	125		4.4	5.9	11.0	18.7	27.3	28.0	<32	<32	<32	32.4	34.1	34.4	<15	<15	<15	<15	<15	<15
Aeroplan Eco 132	EC/DC	46	8,581	143.0	**5.4**	2.16	30	72	111	150	190	226		2.7	3.5	5.1	8.4	13.8	26.5	<32	<32	<32	32.1	41.6	47.3	<15	<15	<15	<15	21.1	29.8
Eco Elements 103	EC/DC	49	5,272	87.9	**6.0**	1.69	30	66	102	137	172	209		1.0	1.8	3.5	6.0	9.7	14.7	<32	<32	<32	32.2	40.4	45.9	<15	<15	<15	<15	19.9	24.4
Eco Elements 132	EC/DC	50	9,053	150.9	**5.8**	1.92	30	65	100	135	171	204		1.0	2.2	5.0	9.1	16.2	26.0	<32	<32	32.6	39.5	46.5	51.5	<15	<15	<15	19.0	26.0	31.0
Eco Elements 180	EC/DC	52	13,187	219.8	**8.1**	1.82	30	53	73	95	116	138		1.3	2.7	5.3	9.6	16.4	27.0	<32	<32	32.6	39.5	46.5	50.7	<15	<15	17.9	27.4	30.2	30.3
Caribbean Dream Eco/palm	EC/DC	53	3,119	52.0	**2.0**	0.26	30	53	76	98	121	152		1.2	2.6	5.2	8.8	15.2	25.8	<32	<32	<32	32.1	40.8	42.5	<15	<15	<15	<15	20.3	22.0
Caribbean Dream Eco/wicker	EC/DC	53	10,237	170.6	**6.7**	1.36	30	59	81	105	135	161		1.1	2.5	5.0	9.5	16.5	25.6	<32	<32	<32	34.1	41.8	48.2	<15	<15	<15	15.2	21.3	27.7
Eco Talos 135*	EC/DC	54	11,193	186.6	**6.1**	2.71	38	61	84	127	164	185		9.1	10.0	11.5	16.8	25.5	30.5	<32	<32	32.1	39.3	47.1	51.2	<15	<15	<15	18.8	26.6	30.7
Eco Volare 116	EC/DC	56	9,890	164.8	**6.2**	2.56	37	60	82	112	135	157		6.8	8.3	10.2	14.3	19.5	26.7	<32	<32	32.6	39.2	44.7	49.8	<15	<15	<15	18.7	24.2	29.3
Eco Volare 142	EC/DC	58	13,121	218.7	**8.2**	2.31	37	60	82	107	113	122		7.2	9.2	12.8	19.4	21.5	26.8	<32	<32	36.1	46.0	51.3	53.2	<15	<15	15.6	25.5	30.8	32.7
Eco Revolution 136	EC/DC	60	11,176	186.3	**7.9**	2.36	30	63	83	97	111	144		2.4	3.5	5.7	8.2	11.8	23.5	<32	<32	32.6	39.5	46.5	50.7	<15	<15	17.9	27.4	30.2	30.3
Eco Aviatos 132	EC/DC	62	10,112	168.5	**6.7**	2.25	36	61	96	125	156	188		2.4	3.0	4.5	7.0	11.3	25.0	<32	<32	<32	35.7	41.6	48.2	<15	<15	<15	15.2	21.1	27.7
Eco Aviatos 162	EC/DC	62	13,973	232.9	**6.5**	2.31	36	62	95	126	139	150		2.8	4.4	9.0	14.9	30.1	36.0	<32	<32	32.1	39.3	47.1	51.2	<15	<15	<15	18.8	26.6	30.7
Eco Gamma 103	EC/DC	64	5,522	92.0	**6.3**	1.68	30	61	99	134	153	193		1.0	2.0	3.8	6.6	10.0	14.6	<32	<32	<32	41.2	49.3	51.6	<15	<15	<15	20.7	28.8	31.1
Eco Gamma 137	EC/DC	64	8,956	149.3	**5.7**	1.92	30	64	99	133	164	183		1.1	2.6	5.8	11.3	19.0	26.4	<32	<32	34.3	43.8	51.4	53.9	<15	<15	<15	23.3	30.9	33.4
Eco Neo III 92*	EC/DC	66	3,820	63.7	**5.2**	2.18	30	66	102	138	172	209		1.1	2.0	3.6	5.5	8.3	12.2	<32	<32	<32	32.5	39.8	44.5	<15	<15	<15	<15	18.9	24.0
Eco Neo III 103*	EC/DC	68	5,720	95.3	**6.0**	2.02	30	69	102	147	179	208		2.5	3.5	5.4	8.3	12.2	15.8	<32	<32	<32	34.4	40.8	46.4	<15	<15	<15	<15	20.3	25.9
Eco Neo III 132*	EC/DC	70	9,575	159.6	**5.9**	2.44	30	65	90	123	155	185		2.3	3.5	6.3	11.2	18.3	27.0	<32	<32	32.4	38.9	45.9	51.8	<15	<15	<15	18.4	25.4	31.3
Eco Neo III 152*	EC/DC	72	11,410	190.2	**7.0**	2.13	30	53	74	97	129	146		2.5	3.8	6.5	11.5	18.5	27.0	<32	<32	<32	35.7	41.8	47.1	<15	<15	<15	15.2	21.3	26.6
Eco Neo III 180*	EC/DC	74	11,838	197.3	**7.0**	1.65	30	46	63	80	94	110		1.5	3.0	5.7	10.3	17.4	28.0	<32	<32	<32	34.1	39.3	44.1	<15	<15	<15	15.2	18.8	23.6
Eco Fiore 142	EC/DC	76	12,489	208.2	**4.4**	3.13	30	60	89	119	151	183		2.3	3.7	7.1	13.5	27.0	47.0	<32	<32	<32	37.6	44.4	50.6	<15	<15	<15	17.1	23.9	30.1
Eco Helix 132	EC/DC	77	14,356	239.3	**7.8**	3.68	30	56	80	109	140	163		2.0	3.0	5.0	10.2	20.0	30.5	<32	<32	<32	34.1	42.4	47.1	<15	<15	<15	<15	21.9	26.6
Big Smooth Eco 223	EC/DC	78	16,112	268.5	**7.7**	1.46	30	45	55	70	82	100		1.8	3.7	5.7	10.2	14.2	35.0	<32	<32	<32	32.4	37.6	41.8	<15	<15	<15	<15	17.1	21.3

* For ceiling fan models that offer the option of mounting with 2, 3 or 4 blades, all measurements were taken with 4 blades.

Technical Data AC Models

[1] The table shows the maximum speed at the highest setting at 1.5 m above the floor in a 3 m high room. This is to help you estimate draughts at head height, sitting under the ceiling fan. This specification refers to the highest speed. A fine gradation of the speed with as many steps as possible enables you to have draught-free operation even in winter when returning the warm air that is under the ceiling.

[2] Noise measurements were carried out at the VDE Testing and Certification Institute in Offenbach/Main. The lower limit for the laboratory measurement is 32 dB(A) for sound power L_W and 15 dB(A) for sound pressure L_P -3m.

[3] Since many ceiling fans on the market are published with one or the other value, we provide the measured noise values both as sound power L_W and sound pressure L_P-3m.

Model | Size cm	Motor Type	Catalogue Page	Air flow at highest level (m^3/h)	Maximum Fan Flow Rate F (m^3/min)	Service Value SV ($(m^3/min)/W$)	Air Velocity 1.5 m above floor (m/s)[1]	RPM (min-1)				Fan Power Input P (W)			Fan Sound Power Level LW (dB(A))[2,3]			Fan Sound Pressure Level LP -3m (dB(A))[2,3]		
							Level 1	Level 2	Level 3		Level 1	Level 2	Level 3	Level 1	Level 2	Level 3	Level 1	Level 2	Level 3
Classic Royal 75	AC	80	3,877	64.6	**1.3**	1.70	183	254	287		25.6	37.7	48.3	32.5	41.1	51.7	<15	23.6	34.2
Classic Royal 103	AC	81	6,082	101.4	**1.9**	1.82	108	171	204		27.0	40.7	52.5	<32	34.0	44.9	<15	16.5	27.4
Classic Royal 132	AC	82	8,919	148.7	**2.3**	1.90	99	164	180		27.2	46.1	64.0	<32	<32	47.7	<15	<15	30.9
Classic Royal 180	AC	83	9,371	156.2	**2.4**	1.41	59	90	112		28.5	48.9	65.7	<32	38.4	45.2	<15	17.9	24.7
Classic Royal 132 palm blades	AC	-	1,592	26.5	**0.4**	0.25	56	92	119		28.3	48.8	65.5	32.7	41.5	44.8	<15	21.0	24.3
Classic Royal 132 wicker blades	AC	-	7,684	128.1	**2.0**	1.33	75	112	133		28.2	47.9	64.5	32.1	42.7	50.4	<15	22.2	29.9
FLAT III 75	AC	84	3,431	57.2	**0.9**	2.07	189	217	315		23.3	35.9	63.0	39.2	47.8	48.3	18.7	27.3	27.8
FLAT III 103	AC	85	7,492	124.9	**2.0**	2.31	123	185	225		25.1	40.2	63.0	32.2	46.6	52.2	<15	26.1	31.7
FLAT III 132	AC	86	9,382	156.4	**2.3**	2.08	70	129	172		25.8	42.0	68.0	<32	43.8	50.0	<15	23.3	29.5
Black Magic 132/BM 132 w/o L.	AC	87	8,919	148.7	**2.3**	1.90	99	164	180		27.2	46.1	64.5	<32	< 32	47.7	<15	<15	30.9
Centurion 132	AC	88	11,614	193.6	**2.5**	2.40	91	165	216		34.4	58.6	79.0	35.9	53.7	60.2	15.4	33.2	39.7
Tristar-Z 120	AC	89	7,856	130.9	**2.2**	2.00	130	242	286		55.0	56.0	59.0	36.9	56.0	57.0	16.4	35.5	36.5
Libeccio 120*	AC	90	10,034	167.2	**2.1**	2.64	54	100	170		13.4	43.1	81.1	<32	<32	46.0	<15	<15	28.5
Libeccio 142*	AC	90	10,714	178.6	**2.2**	2.02	44	83	116		13.9	44.7	83.0	<32	<32	38.8	<15	<15	21.9
Titanium 105	AC	92	9,286	154.8	**2.3**	2.51	141	237	279		14.6	38.6	66.0	39.6	49.4	55.8	19.1	28.9	35.3
Titanium 132	AC	92	9,096	151.6	**2.1**	2.18	81	147	187		14.5	40.0	73.0	37.6	41.6	51.1	17.1	21.1	30.6
Titanium 160	AC	92	12,361	206.0	**2.6**	1.98	54	98	140		14.0	41.2	79.6	<32	36.8	48.0	<15	16.3	27.5
Night Flight 132	AC	94	10,729	178.8	**2.6**	2.82	97	159	278		14.2	42.0	70.0	36.9	50.4	57.0	16.4	29.9	36.5
Mercury 132	AC	95	9,075	151.3	**2.2**	1.96	68	115	162		13.5	37.1	69.8	<32	< 32	48.4	<15	<15	30.9
Mirage 142*	AC	96	11,112	185.2	**3.0**	2.70	86	165	230		17.8	49.5	61.7	<32	45.1	58.3	<15	27.6	40.8
Rotary 132	AC	98	10,630	177.2	**2.4**	2.30	97	183	239		13.9	41.8	72.4	32.1	51.4	61.6	<15	30.9	41.1
ALU 132	AC	99	9,320	155.3	**2.6**	1.80	94	148	180		15.0	34.3	59.3	<32	42.7	50.4	<15	22.2	29.9
Elica 132	AC	100	9,749	162.5	**2.3**	2.10	85	150	188		14.9	40.9	71.5	<32	44.5	53.8	<15	24.0	33.3
Helico Paddel 132	AC	102	8,504	141.7	**2.3**	2.58	83	140	170		15.5	39.9	61.1	32.1	42.2	48.2	<15	21.7	27.7
Macau 132	AC	103	8,108	135.1	**3.5**	1.76	107	137	152		21.1	33.8	39.0	<32	37.4	44.8	<15	17.9	24.3
Falcetto 132	AC	104	11,927	198.8	**2.4**	2.51	74	129	189		13.1	41.0	83.0	<32	39.3	53.0	<15	18.8	32.5
Libelle 132*	AC	105	7,575	126.3	**1.7**	2.38	95	109	147		14.5	43.1	74.9	<32	<32	42.5	<15	15.7	25.0
Outdoor Classic 132	AC	106	8,317	138.6	**2.3**	1.91	90	151	190		26.6	44.7	60.0	<32	40.8	48.3	<15	20.3	27.8
Outdoor Classic 132 palm/wicker	AC	106	7,852	130.9	**2.1**	1.41	90	143	176		26.9	45.5	61.0	<32	39.2	48.1	<15	18.7	27.6
Tristar II 90	AC	108	6,001	100.0	**2.0**	2.74	233	352	362		16.8	40.3	51.1	39.4	51.5	52.5	18.9	31.0	32.0
Tristar II 120	AC	108	8,094	134.9	**2.3**	2.75	130	266	300		14.5	37.0	58.0	36.9	56.0	57.0	16.4	35.5	36.5
Tristar II 140	AC	108	10,976	182.9	**2.6**	2.83	69	128	280		14.6	39.3	70.0	33.7	53.4	60.3	<15	32.9	39.8

* For ceiling fan models that offer the option of mounting with 2, 3 or 4 blades, all measurements were taken with 4 blades.

Dimensions

Model | Size cm	Catalogue Page	No. of Blades Included in Delivery	Number of Blades Assembly possible	No. Speed Levels	Control	Standard Distance Ceiling - Blades (A)	Shortest possible Distance Ceiling - Blades (A)	Distance Ceiling - Blades with 60 cm Downrod (A)	Distance Ceiling - Blades with 100 cm Downrod (A)	Distance Ceiling - Blades with 120 cm Downrod (A)	Roof slope max. °	Winter / Summer Switching	Room Size max. m²	Light Kit incl.	Wiring Diagram	Memory Light/Motor
Eco Plano II 112	14	4	2, 3, 4	6	RC	200	200	-	-	-	-	Y	15	O	2	L/M
Eco Plano II 132	14	4	2, 3, 4	6	RC	200	200	-	-	-	-	Y	22	O	2	L/M
Eco Plano Wood	16	3	3	6	RC	198	198	-	-	-	-	Y	23	N	2	M
Eco Regento	18	3	3	6	RC	260	260	-	-	-	-	Y	25	O	2	L/M
Eco Pallas 116	20	3	3	6	RC	245	245	-	-	-	-	Y	14	O	2	L/M
Eco Pallas 142	22	3	3	6	RC	245	245		-	-	-	Y	20	O	2	L/M
Eco Concept 132	24	4	2, 3, 4	6	RC	360	270	810	-	1,410	23	Y	25	O	2	L/M
Eco Concept 152	24	4	2, 3, 4	6	RC	360	270	810	-	1,410	23	Y	35	O	2	L/M
Eco Dynamix II	26	4	2, 3, 4	6	RC	390	300	840	-	1,440	22	Y	25	O	2	L/M
Eco Genuino 122	28	3	3	6	RC	355	275	755	1,155	-	12	Y	16	N	3	M
Eco Genuino 152	30	3	3	6	RC	360	280	760	1,160	-	12	Y	35	N	3	M
Eco Genuino 180	34	3	3	6	RC	365	285	765	1,165	-	12	Y	45	N	3	M
Eco Genuino-L	36	3	3	6	RC	390	290	790	1,190	-	18	Y	35	LED	2	L/M
Eco Interior	38	3	3	6	RC	315	245	765	-	1,365	18	Y	25	O	2	L/M
Aerodynamix Eco 112	40	3	3	6	RC	250	250	825	-	1,425	28	Y	16	Y	2	L/M
Aerodynamix Eco 132	40	3	3	6	RC	250	250	825	-	1,425	28	Y	25	Y	2	L/M
Eco Airscrew	42	3	3	6	RC	360	280	760	1,160	-	12	Y	40	N	3	M
Aeroplan Eco	46	3	3	6	RC	310	270	810	-	1,410	30	Y	25	N	3	M
Eco Elements 103	49	5	5	6	RC	320	250	820	-	1,420	28	Y	13	O	2, 4, 6	L/M
Eco Elements 132	50	5	5	6	RC	320	250	820	-	1,420	28	Y	25	O	2, 4, 6	L/M
Eco Elements 180	52	5	5	6	RC	325	285	825	-	1,425	28	Y	35	O	2, 4, 6	L/M
Caribbean Dream Eco II/palm	53	5	5	6	RC	340	340	840	-	1,440	20	Y	25	O	2, 4, 6	L/M
Caribbean Dream Eco II/wicker	53	5	5	6	RC	335	335	835	-	1,435	20	Y	25	O	2, 4, 6	L/M
Eco Talos	54	3	2, 3	6	RC	245	175	695	-	1,295	18	Y	28	O	2	L/M
Eco Volare 116	56	5	5	6	RC	305	235	755	-	1,355	18	Y	18	O	2	L/M
Eco Volare 142	58	5	5	6	RC	310	240	760	-	1,360	18	Y	30	O	2	L/M
Eco Revolution	60	3	3	6	RC	282	212	732	-	1,332	10	Y	35	O	2	L/M
Eco Aviatos 132	62	3	3	6	RC	360	270	810	-	1,410	30	Y	25	Y	2	L/M
Eco Aviatos 162	62	3	3	6	RC	365	275	815	-	1,415	30	Y	40	Y	2	L/M
Eco Gamma 103	64	5	5	6	RC	295	225	795	-	1,395	28	Y	15	O	2, 4, 6	L/M
Eco Gamma 137	64	5	5	6	RC	295	225	795	-	1,395	28	Y	28	O	2, 4, 6	L/M
Eco Neo III 92	66	4	2, 3, 4	6	RC	360	270	810	-	1,410	23	Y	9	O	2	L/M
Eco Neo III 103	68	4	2, 3, 4	6	RC	360	270	810	-	1,410	23	Y	13	O	2	L/M
Eco Neo III 132	70	4	2, 3, 4	6	RC	360	270	810	-	1,410	23	Y	25	O	2	L/M
Eco Neo III 152	72	4	2, 3, 4	6	RC	360	270	810	-	1,410	23	Y	35	O	2	L/M
Eco Neo III 180	74	4	2, 3, 4	6	RC	365	295	815	-	1,415	23	Y	45	O	2	L/M
Eco Fiore	76	3	3	6	RC	320	255	795	-	1,395	30	Y	30	LED	2	L/M
Eco Helix	77	3	3	6	RC	360	300	830	-	1,430	30	Y	35	LED	2	L/M
Big Smooth Eco	78	9	9	6	RC	460	330	860	-	1,460	24	Y	54	N	3	M

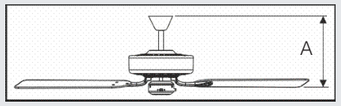
All dimension are mm

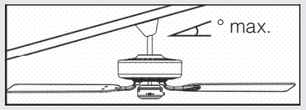
Model | Size cm	Catalogue Page	No. of Blades Included in Delivery	Number of Blades Assembly possible	No. Speed Levels	Control	Standard Distance Ceiling - Blades (A)	Shortest possible Distance Ceiling - Blades (A)	Distance Ceiling - Blades with 60 cm Downrod (A)	Distance Ceiling - Blades with 120 cm Downrod (A)	Roof slope max. °	Winter / Summer Switching	Room Size max. m²	Light Kit incl.	Wiring Diagram	Memory Light/Motor
Classic Royal 75	80	5	5	3	PC	270	200	770	1,370	28	Y	8	O	1, 2*, 5, 8*	L/M
Classic Royal 103	81	5	5	3	PC	275	205	775	1,375	28	Y	13	O	1, 2*, 5, 8*	L/M
Classic Royal 132	82	5	5	3	PC	280	210	780	1,380	28	Y	25	O	1, 2*, 5, 8*	L/M
Classic Royal 132/palm	-	5	5	3	PC	280	250	780	1,380	28	Y	25	O	1, 2*, 5, 8*	L/M
Classic Royal 132/wicker	-	5	5	3	PC	275	245	775	1,375	28	Y	25	O	1, 2*, 5, 8*	L/M
Classic Royal 180	83	5	5	3	PC	285	255	785	1,385	28	Y	30	O	1, 2*, 5, 8*	L/M
Classic Flat 75-III	84	5	5	3	PC	164	164	-	-	-	Y	6	O	1, 2*, 5, 8*	L/M
Classic Flat 103-III	85	5	5	3	PC	164	164	-	-	-	Y	11	O	1, 2*, 5, 8*	L/M
Classic Flat 132-III	86	5	5	3	PC	164	164	-	-	-	Y	20	N	1, 2*, 5, 8*	M
Black Magic w.L.	87	5	5	3	PC	280	210	780	1,380	28	Y	25	Y	1, 2*, 5, 8*	L/M
Black Magic	87	5	5	3	PC	280	210	780	1,380	28	Y	25	O	1, 2*, 5, 8*	L/M
Centurion 132	88	5	5	3	PC	300	230	800	1,400	28	Y	25	Y	1, 2*, 5, 8*	L/M
Tristar-Z 120	89	3	3	3	PC	270	200	690	1,290	16	Y	20	N	1, 3*, 7*	M
Libeccio 120/140	90	2×4	2, 3, 4	3	RC	390	290	790	1,390	17	Y	28/35	Y	2*, 5, 8*	L/M
Titanium 105	92	5	5	3	RC	260	190	760	1,360	14	Y	15	Y	2*, 5, 8*	L/M
Titanium 132	92	5	5	3	RC	260	190	760	1,360	14	Y	27	Y	2*, 5, 8*	L/M
Titanium 160	92	5	5	3	RC	265	235	765	1,365	14	Y	38	Y	2*, 5, 8*	L/M
Night Flight 132	94	3	3	3	RC	280	210	780	1,380	14	Y	25	O	2*, 5, 8*	L/M
Mercury 132	95	5	5	3	RC	270	200	770	1,370	14	Y	25	Y	2*, 5, 8*	L/M
Mirage 142	96	4	2, 3, 4	3	RC	400	300	800	1,400	14	Y	32	Y	2*, 5, 8*	L/M
Rotary 132	98	5	5	3	RC	230	160	730	1,330	14	Y	25	O	2*, 5, 8*	L/M
ALU 132	99	5	5	3	PC	350	220	750	1,350	30	Y	25	Y	1, 2*, 5, 8*	L/M
Elica 132	100	5	5	3	RC	260	230	760	1,360	17	Y	25	Y	2*, 5, 8*	L/M
Helico Paddel 132	102	3	3	3	RC	410	410	-	-	-	Y	25	Y	2*, 5, 8*	L/M
Macau 132	103	3	3	3	RC	350	260	800	1,400	18	Y	25	N	3*, 7*	M
Falcetto 132	104	5	5	3	RC	270	240	770	1,370	17	Y	25	N	3*, 7*	M
Libelle 132	105	4	2, 3, 4	3	RC	380	290	780	1,380	17	Y	25	N	3*, 7*	M
Outdoor Classic 132	106	5	5	3	PC	345	295	795	1,395	-	Y	25	N	1, 3*, 7*	L/M
Outdoor Classic132 with palm/wicker blades	106	5	5	3	PC	375	325	825	1,425	-	Y	25	N	1, 3*, 7*	L/M
Tristar II 90	108	3	3	-	3 - 5 opt.	290	205	725	1,325	18	Y	10	N	3*, 7*	M
Tristar II 120	108	3	3	-	3 - 5 opt.	290	205	725	1,325	18	Y	18	N	3*, 7*	M
Tristar II 140	108	3	3	-	3 - 5 opt.	290	205	725	1,325	18	Y	30	N	3*, 7*	M

* optional accessories such as remote control, wall control or light kit required

Control incl.:
RC = Remote Control
PC = Pull Chain

Light Kit incl.:
Y = yes
N = no
O = optional
LED = LED Lamp



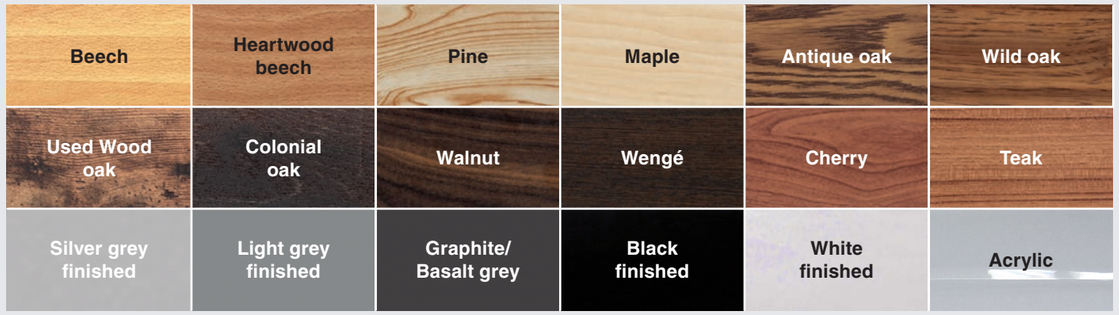


All dimension are mm

Additional blades

To allow an optimal adaption of the ceiling fans to your interior, for selected models we offer a variety of additional and interchangeable blades for the ceiling fans. These will be shipped instead of the original blades.

Prices are extra charges to the ceiling fan. Depending on the model, the blade set consists of 3, 4 or 5 balanced blades, made of multi-layer glued hardwood, lacquered and impregnated, or of plastic with and without wood decor.



Decorative Natural Blades

Handmade blades of natural materials. Suitable for medium-sized ceiling fans (Ø = 132 cm) of series CLASSIC ROYAL, CLASSIC FLAT III, CENTURION and ECO ELEMENTS.

The natural blade sets **palme leaf**, **code.-nr. 19901**, and **antique wicker, code.-nr. 19902**, consist of 5 handmade blades. Irregularities arise from manual work and the natural materials, and are not regarded as a defect. Depending on the fan and blade set, the air volume delivered naturally reduced by about 35 to 50 percent.

ECO ELEMENTS 132 BA #513283 housing antique brown, shown with blades natural palm **#19901** and blade holders FHN BA **#19302**

Blade set natural palm leaf #19901
hand-woven stretched on steel wire frame, clear coated

Please **always** order the blade holder (1 set = 5 pieces) in the corresponding colour!

Blade holder set for natural blades,
Antique brass = **#19301**, Antique brown = **#19302**, Brushed chrome = **#19303**, White coated = **#19304** (from left)

Product	Code No.	Blade Finish
FHN MA	19301	Antique brass
FHN BA	19302	Antique brown
FHN BN	19303	Brushed chrome
FHN WE	19304	White coated
FHN CH	19313	Polished chrome

Blade set antique wicker #19902, hand-woven, on steel wire frame, antique stained

Interchangeable blades

Product	Ø	Blade set	Acrylic	Black finished	Maple	Beech	White finished	Wengé	Antique oak	Pine	Silver grey finished	Walnut	Cherry	Basalt grey	Light grey finished	Oak
Classic Royal	132		**19012**							**19792**						
Classic Royal	103									**19791**						
Classic Royal	75															
Classic Royal	180															
Classic Flat III	132		**19012**							**19792**						
Classic Flat III	103															
Classic Flat III	75															
Centurion	132															
Black Magic	132		**19012**							**19792**						
Titanium	105															
Titanium	132															
Titanium	162						**19362**									
Libeccio	120															
Libeccio	142															
Night Flight	132		**19179**			**19101**	**19318**	**19173**								
Mercury	132															
Mirage	142		**19114**	**19106**			**19115**				**19113**					
Rotary	132					**19103**	**19165**	**19164**		**19102**						
Alu	132						**19016**									
Falcetto	132						**19150**				**19154**	**19155**				
Elica	132				**19176**		**19177**	**19178**			**19189**					
Eco Plano II	112						**19436**				**19435**	**19438**		**19439**	**19434**	**19440**
Eco Plano II	132						**19446**				**19445**	**19448**		**19449**	**19444**	**19450**
Eco Concept	132															
Eco Concept	152															
Eco Elements	132		**19012**							**19792**						
Eco Elements	180															
Eco Elements	103															
Eco Aviatos	132				**19149**		**19134**				**19133**	**19147**	**19148**	**19196**		
Eco Aviatos	162				**19146**		**19110**				**19109**	**19144**	**19145**	**19194**		
Eco Neo III	92															
Eco Neo III	103															
Eco Neo III	132															
Eco Neo III	152															
Eco Neo III	180															
Eco Gamma	103															
Eco Gamma	137															
Eco Dynamix II	132						**19421**				**19422**			**19423**		
Eco Volare	116						**19460**					**19462**		**19464**	**19463**	**19461**
Eco Volare	142						**19470**					**19472**		**19474**	**19473**	**19471**

Interchangeable blades

Product	Ø	Blade set	Beech / Pine	Black / Graphite	Maple / Light maple	Maple / Antique oak	White / Light grey	Antique oak / Wild oak	Walnut / Dark walnut	Wild oak / beech	Beech / Heartwood beech	Walnut / Black	Maple / Beech	Walnut / Cherry	Black / Teak		White / Light grey	Wengé / Silver grey	Antique oak / Walnut	Silver / Cherry	Maple / Chalked oak	Oak / Walnut	Maple / Used wood oak	Used wood oak / Colonial oak	Beech / Antique oak	Walnut / Beech	White / Silver	Wengé / Maple	Walnut / Silver	Maple / Cherry	Wengé / Pine		Natural palm	Antique wicker
Classic Royal	132			19782	19762			19722	19712		19732						19128				19772	19212					19166						19901*	19902*
Classic Royal	103			19781	19761	19195		19721	19711	19399	19731						19701																	
Classic Royal	75							19720	19710	19398	19730						19700																	
Classic Royal	180												19180				19183		19181															
Classic Flat III	132			19782	19762			19722	19712		19732						19128						19192	19202	19058	19119		19130					19901*	19902*
Classic Flat III	103			19116		19158											19118					19211	19191	19201	19117	19097		19098						
Classic Flat III	75			19168													19319						19193	19200	19317	19397								
Centurion	132																		19159														19901*	19902*
Black Magic	132			19782	19762			19722	19712		19732						19128					19212				19166								
Titanium	105		19363											19365			19361																
Titanium	132		19129											19104			19124																
Titanium	162		19364											19366																			
Libeccio	120																												19186				
Libeccio	142																19187													19188			
Night Flight	132																																
Mercury	132																												19153				
Mirage	142																																
Rotary	132																			19024	19018												
Alu	132																																
Falcetto	132																																
Elica	132																																
Eco Plano II	112																																
Eco Plano II	132																																
Eco Concept	132												19522	19512	19502		19532	19502															
Eco Concept	152												19523	19513	19503		19533	19137															
Eco Elements	132			19782	19762			19722	19712		19732						19128						19192	19202	19058	19119		19130					19901*	19902*
Eco Elements	180												19180				19183		19181															
Eco Elements	103			19116		19158											19118					19211	19191	19201	19117	19097		19098						
Eco Aviatos	132																																
Eco Aviatos	162																																
Eco Neo III	92												19491	19492	19493		19494	19495															
Eco Neo III	103												19521	19511	19501		19531	19541															
Eco Neo III	132												19522	19512	19502		19532	19502															
Eco Neo III	152												19523	19513	19503		19533	19137															
Eco Neo III	180												19525	19515	19510		19209	19210															
Eco Gamma	103						1910350					1910345	1910349																				
Eco Gamma	137						1913750					1913745	1913749																				
Eco Dynamix II	132																																
Eco Volare	116																																
Eco Volare	142																																

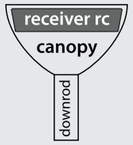
** Requires blade holders FHN or natural blades.*

Remote controls

A ceiling fan can be easily controlled from any point of the room using a universal remote control. The motor speed can be switched to any one of three or four settings, the light can be dimmed or, with energy-saving bulbs, switched on and off. Depending on the model the information is transmitted by wireless or infrared light.

FB-FNK Powerboat
Designer universal remote control for all NON-Eco ceiling fans. Functions: 3 motor speeds, light dimmer or ON/OFF. Motor max. 100 W, light max. 300 W.

FB-FNK Powerboat: Universal remote control for ceiling fans with designer handset. Wireless operation in the 434 MHz band, encodable for 16 separate models, effective range about 10 meters. The receiver is located in the ceiling fan's canopy or on its cover plate (for ultraslim models). The handheld transmitter has a wall bracket, a power LED indicator and is powered by a type 23A 12 V battery (included).

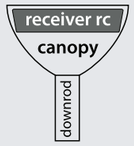


Product	Code No.	Colour Handpiece	Function Motor	Function Light
FB-FNK Powerboat	**85220**	Silver/black	3 speeds, OFF	Dimming, ON/OFF

FB-FNK Advanced
Designer-styled universal remote control for all NON-Eco ceiling fans. Functions: 4 motor speeds, light dimmer, temperature controller, sleep timer, etc.

4 SPEEDS
Speed 1 very slow
+ temperature control

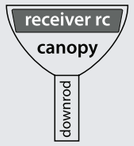
FB-FNK Advanced: Universal remote control for ceiling fans with designer handset. Wireless operation in the 434 MHz band, encodable for 16 separate models, effective range about 10 meters. The receiver is located in the ceiling fan's canopy or on its cover plate (for ultraslim models). In addition to a 4-speed motor control, the remote control offers a number of additional Functions such as temperature control (temperature-dependent ON/OFF and speed control operation), 24-hour light and motor sleep timer, auto-off after 99 seconds, etc. The handheld transmitter has a wall bracket, an LCD display and is powered by a 9 V E-Block battery (included). Motor max. 100 W, light max. 300 W.



Product	Code No.	Colour Handpiece	Function Motor	Function Light
FB-FNK Advanced	**85229**	Dark grey/silver	4 speeds, OFF	Dimming, ON/OFF

FB-FNK Multicode
Designer Universal remote control for all NON-Eco ceiling fans. Functions: 3 motor speeds, light dimmer or ON/OFF. Motor max. 100 W, light max. 240 W. Up to 65,000 different codes.

FB-FNK Multicode: Universal remote control for ceiling fans with handset. Wireless operation in the 434 MHz band. The receiver is located in the ceiling fan's canopy or on its cover plate (for ultraslim models). The handheld transmitter has a wall bracket. It's powered by a battery type 23A, 12 V (included). Functions: motor 3 speeds/ON/OFF. Light ON/OFF, dimming, motor max. 100 W, light max. 240 W. Multicode model with up to 65,000 different codes.



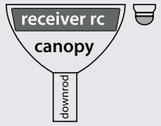
Product	Code No.	Colour Handpiece	Function Motor	Function Light
FB-FNK Multicode	**85238**	White / grey	3 speeds, OFF	Dimming, ON/OFF

FB-IR Basic
Universal remote control unit for all NON-Eco ceiling fans. Functions: 3 motor speeds, light ON/OFF. Motor max. 100 W, light max. 240 W. Line of sight between transmitter and receiver required!

FB-IR Basic: Economic universal remote control for NON-ECO-ceiling fans. Infrared operation. The receiver is located in the ceiling fan's canopy or on its cover plate (for ultraslim models).

A small 2 cm, self-adhesive IR sensor is fixed next to the canopy. The handheld transmitter includes a wall bracket and is powered by two 1.5 V AA batteries (included). Motor max. 100 W, light max. 240 W.

Function only with direct line of sight between hand-held transmitter/IR sensor.



Product	Code No.	Colour Handpiece	Function Motor	Function Light
FB-IR Basic	**85213**	Black	3 speeds, OFF	ON/OFF

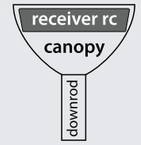
The set consists of a receiver and a transmitter. With additional receivers, which are available as accessories, several ceiling fans can be controlled at the same time.

NEW

FB-FNK LCD Touch
Touch remote control for all NON-Eco ceiling fans. Functions: 4 motor speeds, light ON/OFF. sleep timer, motor max. 100 W, light max. 300 W (LED 24 W).

FB-FNK LCD Touch: Operation via touch screen on the handheld transmitter of the remote control. Sleep timer (up to 12 hours) and a 3-minute automatic switch off for the light when leaving the room.

Universal remote control for NON-Eco ceiling fans with flat handheld transmitter and wall bracket. Wireless operation in the 434 MHz band, encodable for 16 separate models, effective range about 10 meters. The receiver is located in the ceiling fan's canopy or on its cover plate (for ultraslim models). The handheld transmitter is powerd by 4 batteries 1.5 V (AAA). Delivery includes wall bracket.

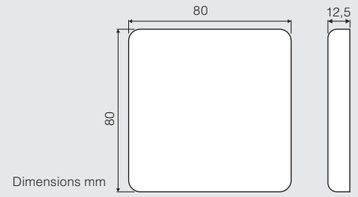


Product	Code No.	Colour Handpiece	Function Motor	Function Light
FB-FNK LCD Touch	**85236**	Dark grey	4 speeds, OFF	Dimming, ON/OFF

NEW

FB-FNK ECO Hotel
Remote control for ECO ceiling fans. Wall mounting. Plastic white, RAL 9010.
Functions: 6 motor speeds, reversible, light ON/OFF, dimming*, sleep timer.

FB-FNK ECO Hotel: Remote control for ECO ceiling fans, with LED indicator, wall mounting. Motor: 6 speeds with extra-slow speed (see details fan model), forward/reverse, light ON/OFF, dimming*. Sleep timer up to 6 hours, wireless operation in the 434 MHz band, can be coded 65,000 times, range approx. 10 metres. Battery powered (2 × AAA).



FB-FNK ECO Hotel A. Suitable for all models of the series:
ECO NEO III, ECO PLANO II, ECO PALLAS, ECO REGENTO, ECO CONCEPT, CARIBBEAN DREAM ECO, ECO ELEMENTS, ECO AVIATOS, ECO DYNAMIX II, ECO FIORE, ECO HELIX, ECO GAMMA, AEROPLAN ECO, ECO REVOLUTION, BIG SMOOTH ECO, ECO PLANO WOOD.

FB-FNK ECO Hotel A. Suitable for all models of the series:
ECO GENUINO, ECO GENUINO-L, ECO AIRSCREW, AERODYNAMIX ECO.

Product	Code No.	Colour Wall switch	Function Motor	Function Light
FB-FNK ECO Hotel A	**86200**	White, RAL 9010	6 speeds, OFF, Sleep timer	Dimming*, ON/OFF
FB-FNK ECO Hotel B	**86201**	White, RAL 9010	6 speeds, OFF, Sleep timer	Dimming*, ON/OFF

* Dimming depending on fan/luminaire model

NEW

FB-FNK-D AC Hotel
Remote control for AC ceiling fans for wall mounting. Colour white, RAL 9010.

FB-FNK-D AC Hotel: Remote control for AC ceiling fans. Individual or group mode. With LED indicator, for wall mounting.

Motor: 3 speeds, light ON/OFF, dim (with dimmable lamps). Sleep timer up to 6 hours, wireless operation in the 434 MHz band, can be coded 65,000 times, range approx. 10 metres. The transmitter is powered by 2 AAA batteries. Consisting of wall transmitter and receiver. Suitable for all AC ceiling fans.

Dimensions see FB-FNK ECO Hotel

Product	Code No.	Colour Wall switch	Function Motor	Function Light
FB-FNK-D AC Hotel	**86210**	White, RAL 9010	3 speeds, OFF	Dimming, ON/OFF

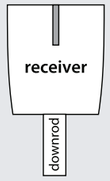
Telenordik 5TR
Remote control for NORDIK EVOLUTION ceiling fan.

Functions:
5 speeds motor,
light ON/OFF,
sleep timer,
fan reverse.

REVERSIBLE

TELENORDIK 5TR: Remote control **ONLY** for NORDIK EVOLUTION series. Data transmission via infrared light. Effective range about 13 meters. The receiving unit is placed inside the canopy of the ceiling fan. Installation at sloped ceilings not possible.

Besides the 5 speed motor control and the reverse Function Telenordik 5TR has a sleep timer, which allows the fan working for one hour at selected speed and direction. The remote control switches the optional Light kit ON/OFF. The handpiece comes with a wall bracket. Motor max. 100 W, light max. 300 W.



Product	Code No.	Colour Handpiece	Colour Canopy	Function Motor	Funcion Light
Telenordik 5TR	**22386**	Black	White/Black	5 speeds, OFF	ON/OFF

Controls

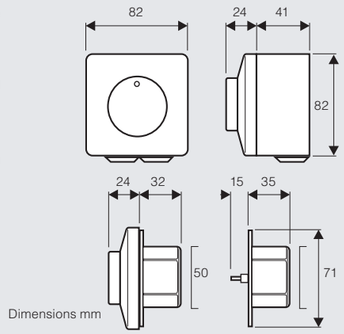
ST4-150 II
4-speed switch for ceiling fans, surface housing, flush housing fitting option.

Installation in bespoke housing with knob, frame and cover plate of external system with 6 mm shaft.

(Example with external system)

ST4-150 II: 4-speed rotary switch for hum free control of NON-ECO ceiling fans. The controller works using micro-capacitors. Protection to IP44. The supplied unit is suitable for surface mounting on standard wall outlets, with an option to fit in a standard flush housing.

The ST4-150 II can be integrated into any switch system with a 6 mm shaft, byusing the rotary knob, the frame and the central cover plate of the external system. A separate dimmer switch is needed for ceiling fans with a light.
Maximum motor power: 100 watts.



Dimensions mm

Product	Code No.	Function	Usage
ST4-150 II	**85215**	4 speeds, OFF	for all NON-ECO ceiling fans

ST4-150/400
4-speed switch with light switch for ceiling fans, surface housing, flush housing fitting option. Installation in standard flush housing possible.

ST4-150/400: 4-speed rotary switch for hum free control of NON-ECO ceiling fans and an on/off switch for a light. The controller works using micro-capacitors. The supplied unit is suitable for surface mounting on standard wall outlets, with an option to fit in a standard flush housing.

Two separate wires (L_{motor} and L_{light}) are required between the switch and the fan for switching the motor and light.
Maximum motor power: 100 watts.
Maximum light power: 300 watts.

Dimensions see above (ST4-150 II)

Product	Code No.	Function	Usage
ST4-150/400	**85205**	4 speeds, OFF, light ON/OFF	for all NON-ECO ceiling fans

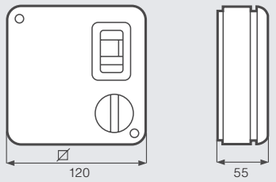
SCRR5
5-speed transformer for reversible ceiling fans of NORDIK series. Surface housing, illuminated ON/OFF switch, reverse switch.
Type SCRR5L with additional light switch.

REVERSIBLE

Caution: for each function (reverse, light) one additional wire between transformer and fan is needed.

SCRR5L: 5-step transformer for hum free control of NON-ECO ceiling fans. With illuminated on/off switch, additional light and reversing switch.

All products use a copper-wound transformer. Supplied suitable for a surface mounting, flush installation requires a special flush housing kit (**SCB5, Code. No. 22483**).
Maximum motor power: 100 watts.



Dimensions mm

Product	Code.No.	Function	Usage
SCNR5	**12955**	5 speeds, ON/OFF	for all NON-ECO ceiling fans
SCNRL5	**12957**	5 speeds, ON/OFF, light ON/OFF	for all NON-ECO ceiling fans with integrated or additional light kit
SCRR5	**12963**	5 speeds, ON/OFF, motor reverse	for all reversible ceiling fans of NORDIK EVOLUTION series and TROPICAL IPX5
SCRR5L	**12964**	5 speeds, ON/OFF, motor reverse, light ON/OFF	for all reversible ceiling fans of NORDIK EVOLUTION series with light kit

FANINBOX
Smart Home KNX control for AC ceiling fans with up to 3 speeds as well as manual control of the outputs.

KNX control

FANINBOX: Ceiling fan control for controlling NON-ECO ceiling fans by means of KNX for top-hat rail mounting.

Up to 3 speed levels, manual control of outputs and status LED logic module with 10 functions included. Error indication in case of power failure.

Operating voltage 29VDC SELV, protection type IP20. Min. power 30 W, max. power 100 W.

Electrical control unit, suitable for top-hat rail mounting. Installation in control cabinets on top-hat rail (EN 50022).

Application programme ETS5/ETS6 available.

Product	Code No.	Function	Usage
FANINBOX	**85350**	up to 3 speeds, OFF	for all NON-ECO ceiling fans

1-10V Potentiometer

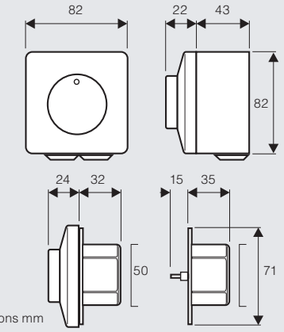
NEW

POT-R 0-10V
Wall potentiometer for speed control of motors and dimming of lights, each with 0-10V interface.

POT-R 0-10V: 10kΩ potentiometer for flush or surface mounting. Switching forward/reverse by pressing the rotary knob. Installation in standard flush housing possible.
Housing colour white, similar to RAL 9003.

Suitable for controlling CasaFan ECO ceiling fans with 0-10V interface. For speed control of the motor 3 wires are needed, when using forward/reverse 4 wires are needed between fan and potentiometer.

The POT-R 0-10V can be integrated into any switch system with a 6 mm shaft, by using the rotary knob, the frame and the central cover plate of the external system.



Dimensions mm

Product	Code No.	Function	Usage
POT-R 0-10V	**86111**	Continuous motor speed control	CasaFan ECO ceiling fans with 0-10V interface

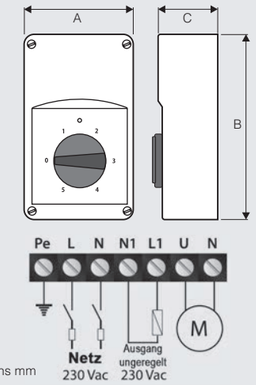
5-Speed-Transformers

ETW
5-speed transfomers for control of one or several ceiling fans (up to 30 units with ETW 10.0).

IP54
Dust protection
insensitive to dust, dirt and splash water

ETW: 5-speed transformers for hum free control of several NON-ECO ceiling fans. Industrial housing, colour light grey RAL 7035, protection class IP54, (0-80-110-140-170/190-230 V), control lamp, max. ambient temperature 35 °C.

Product	Code No.	Amp. (max.)	A	B	C
ETW 1.0	**892032**	1.0	84	160	88
ETW 1.5	**892021**	1.5	115	205	100
ETW 2.2	**892022**	2.2	115	205	100
ETW 3.5	**892033**	3.5	170	255	140
ETW 5.0	**892018**	5.0	170	255	140
ETW 7.5	**892019**	7.5	100	305	140
ETW 10.0	**892038**	10.0	300	325	185



Dimensions mm

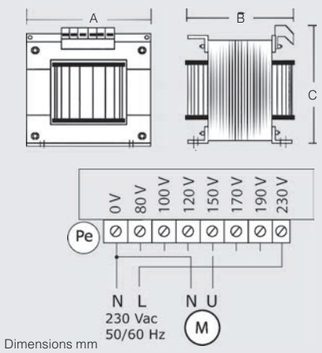
7-Speed-Transformers for Cabinet Installation

ETISW
7-speed transformers for cabinet installation, operable by rotary switch.

Rotary switch for transformers, **Code No. 892128**

ETISW 5.0: 7-speed transformers for hum free control of several ceiling fans for cabinet installation, protection class IP20, (0-80-100-120-150-170-190-230 V), max. ambient temperature 35 °C. Suitable **rotary switch, Code No. 892128**.

Product	Code No.	Amp. (max.)	A	B	C
ETISW 1.5	**892129**	1.5	84	70	90
ETISW 2.5	**892130**	2.5	84	87	90
ETISW 3.5	**892127**	3.5	108	90	112
ETISW 5.0	**892131**	5.0	108	100	112
Rotary switch	**892128**	13	-	-	-



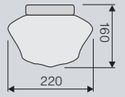
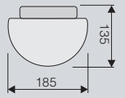
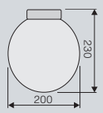
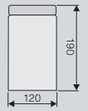
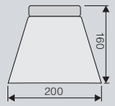
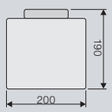
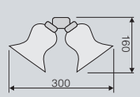
Dimensions mm

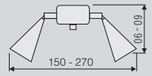
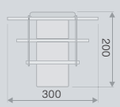
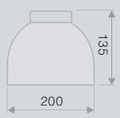
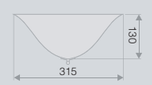
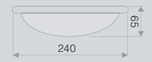
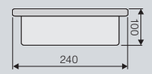
Light kits

The following Light kits can be retrofitted to the fans of the series CLASSIC ROYAL, CLASSIC FLAT 103-III, CLASSIC FLAT 75-III, CENTURION and BLACK MAGIC.

The CasaFan combination system allows quick and easy replacements. Regardless of the fan, lights can be controled with pull chain switch (standard equipment), by remote control or also with a wall-mounted switch.

ECO ELEMENTS, CARIBBEAN DREAM ECO II, NIGHT FLIGHT and ROTARY: When ordering, be sure to specify the ceiling fan model in question! All luminaires are suitable for use with energy-saving light sources such as LED lamps.

Product		Dimensions (mm)	Lamps (not included)	Brushed chrome	Polished chrome	Antique brown	Graphite	White	Antique brass	Polished brass	Shabby white
Light kit 1 Opal glass light sphere in flat schoolhouse shape, glossy			1 × 60 W E27	**10561**	**10281**	**10201**	**10211**	**10261**	**10271**	**10251**	**10231**
Light kit 1 s Opal glass light in the shape of a small hemisphere, glossy			1 × 40 W E27	**10569**	**10289**	**10209**	**10219**	**10269**	**10279**	**10259**	**10239**
Light kit 1 k Opal glass light in the shape of a sphere, glossy			1 × 60 W E27	**10563**	**10283**	**10203**	**10243**	**10263**	**10273**	**10253**	**10233**
Light kit 1 z Opal glass light in the shape of a cylinder, open at bottom, frosted			1 × 60 W E27	**10566**	**10286**	**10206**	**10246**	**10266**	**10276**	**10256**	**10236**
Light kit 1 t Opal glass light, funnel shaped, open at bottom, frosted			1 × 60 W E27	**10567**	**10287**	**10207**	**10247**	**10267**	**10277**	**10257**	**10237**
Light kit 1 b Opal glass light, cylinder shaped, closed at bottom, glossy			1 × 60 W E27	**10568**	**10288**	**10208**	**10248**	**10268**	**10278**	**10258**	**10238**
Light kit 3 3 fixed tulip glasses with ornaments, frosted			3 × 60 W E27	-	-	**1095**	-	**1021**	**1033**	**1036**	-

Product		Dimensions (mm)	Lamps (not included)	Brushed chrome	Polished chrome	Antique brown	Graphite	White	Antique brass	Polished brass	Shabby white
Light kit 4 4 individual adjustable metal spot lights			4 × 60 W E27	**1045**	**1032**	-	**1096**	**1031**	**1034**	**1024**	-
Light kit 5-II 3 individual adjustable metal halogen spot lights			3 × 50 W GU10	**1116**	**1114**	-	**1117**	**1113**	**1115**	-	-
Light kit 6 3 acrylic disks + frosted cylindric glass			1 × 60 W E27	**1093**	**1109**	-	-	**1094**	-	-	-
Light kit 8-II Open hermispherical shape, frosted			1 × 60 W E27	**10564**	**10284**	**102049**	**10244**	**10264**	**10274**	**10254**	**10234**
Light kit 14 Heavy textured glass bowl, frosted Metal parts included			2 × 60 W E14	**1043**	**1043**	**1043**	-	**1043**	**1043**	**1043**	**1043**
Light kit 14 Heavy textured glass bowl, amber frosted Metal parts included			2 × 60 W E14	**1044**	**1044**	**1044**	-	**1044**	**1044**	**1044**	**1044**
Light kit 15 r Flat opal glass shade, frosted			2 × 40 W E27	**11001**	**11031**	**11051**	**11041**	**11021**	**11011**	-	-
Light kit 15 z Flat cylindrical opal glass shade, frosted			2 × 40 W E27	**11006**	**11036**	**11056**	**11046**	**11026**	**11016**	-	-

Combination examples Light kits

LIGHT KIT 1 MP #10251
on CasaFan CLASSIC ROYAL
103 MP-EA/WI #510309

LIGHT KIT 1 MA #10721
on CasaFan CLASSIC FLAT
103-III MA-EA/BU #5103041

LIGHT KIT 3 WE #1021
on CasaFan CLASSIC FLAT
75-III WE-WE/LG #5075061

LIGHT KIT 3 MA #1033
on CasaFan ECO ELEMENTS
132 MA-EA/BU #513280*

LIGHT KIT 1k GR #10243
on CasaFan ECO ELEMENTS
132 GR-GR/SW #513284*

LIGHT KIT 1t BA #10207
on CasaFan CLASSIC FLAT
103-III BZ-AE/EK #5103371

LIGHT KIT 1s WE #10269
on CasaFan CLASSIC
ROYAL 103 WE-WE/LG
#510303

LIGHT KIT 1s GR #10219
on CasaFan ECO ELEMENTS
103 GR-GR/SW #510384*

LIGHT KIT 4 WE #1031
on CasaFan CLASSIC
ROYAL 103 WE #510303

LIGHT KIT 5-II BN #1116
on CasaFan ECO ELEMENTS
132 BN-WN/AH #513282*

* When ordering the light kit, be sure to specify the relevant ceiling fan model!

* When ordering the light kit, be sure to specify the relevant ceiling fan model!

Combination examples Light kits

LIGHT KIT 5-II BN #1116
on CasaFan NIGHT FLIGHT
132 BN-WN #9313215*

LIGHT KIT 5-II BN #1116
on CasaFan CLASSIC
ROYAL 75 CH-WE/LG
#507502

LIGHT KIT 6 CH #1109
on CasaFan CLASSIC
ROYAL 132 CH-WE/LG
#513202

LIGHT KIT 15r WE #11021
on CasaFan NIGHT FLIGHT
132 WE-WE #9313216*

LIGHT KIT 15r BA #11051
on CasaFan CARIBBEAN
DREAM ECO II BA-PLM
#513724

LIGHT KIT 8-II WE #10264
on CasaFan ROTARY 132 WE-WE
#9513269*

LIGHT KIT 15z BN #11006
on CasaFan ECO ELEMENTS
180 BN-WE/LG #518082*

LIGHT KIT 15r WE #11021
on CasaFan ROTARY 132 WE-WE
#9513269*

LIGHT KIT 14 #1043
on CasaFan CLASSIC
ROYAL 180 BN-EA/NB
#518015

* When ordering the light kit, be sure to specify the relevant ceiling fan model!

* When ordering the light kit, be sure to specify the relevant ceiling fan model!

Downrods

A downrod sets the fan at the proper height for optimum performance. All CasaFan downrods match the CasaFan fans in terms of fit and finish, and are supplied with suitable cable extensions.

Assembly with short downrod
(included in delivery of the ceiling fan)

Assembly with 60 cm downrod in high ceilings (up to approx. 3.00 m ceiling height)

Assembly with 60 cm downrod on a sloping ceiling (max. roof slope see fan Product page)

Longer downrods (can be shortened to any length) in exchange against the original rods.

Model	cm	Brushed chrome	Polished chrome	Basalt grey	Antique brown	Bronze	Graphite	Light grey	Matt black	Matt white	Titan silver	White	Antique brass	Brushed brass	Polished brass
Aerodynamix Eco	60	**981048***	**981037***	**981046***								**981039***			
Aerodynamix Eco	120	**981049***	**981057***	**981002***								**981059***			
Aeroplan Eco	60	**1048**		**1046**		**81044**		**1118**				**1039**			
Aeroplan Eco	120	**1049**		**1002**		**81045**		**1138**				**1059**			
Alu	60	**1061****										**1060****			
Alu	120	**1065****										**1068****			
Big Smooth Eco	60					**81044**					**91047**	**1039**			
Big Smooth Eco	120					**81045**					**91051**	**1059**			
Black Magic	60			**(1046)**											**1040**
Black Magic	120			**(1002)**											**1050**
Caribbean Dream Eco	60				**1106**										
Caribbean Dream Eco	120				**1108**										
Centurion	60												**1038**		
Centurion	120												**1058**		
Classic Royal	60	**1048**	**1037**		**1106**		**1098**					**1039**	**1038**		**1040**
Classic Royal	120	**1049**	**1057**		**1108**		**1107**					**1059**	**1058**		**1050**
Eco Airscrew	60	**991076**							**991983**	**991256**				**991082**	
Eco Airscrew	100	**991077**							**991984**	**991257**				**991083**	
Eco Aviatos	60	**1048**		**1046**								**1039**			
Eco Aviatos	120	**1049**		**1002**								**1059**			
Eco Concept	60	**1048**						**1118**				**1039**			
Eco Concept	120	**1049**						**1138**				**1059**			
Eco Dynamix II	60	**1048**		**1046**								**1039**			
Eco Dynamix II	120	**1049**		**1002**								**1059**			
Eco Elements	60	**1048**			**1106**		**1098**					**1039**	**1038**		
Eco Elements	120	**1049**			**1108**		**1107**					**1059**	**1058**		
Eco Fiore	60	**1048**				**81044**						**1039**			
Eco Fiore	120	**1049**				**81045**						**1059**			
Eco Gamma	60	**1048**													
Eco Gamma	120	**1049**													

Model	cm	Brushed chrome	Polished chrome	Basalt grey	Antique brown	Bronze	Graphite	Light grey	Matt black	Matt white	Titan silver	White	Antique brass	Brushed brass	Polished brass
Eco Genuino	60	**991076**							**991983**	**991256**				**991082**	
Eco Genuino	100	**991077**							**991984**	**991257**				**991083**	
Eco Genuino-L	60	**991079**							**991081**	**991084**				**991087**	
Eco Genuino-L	100	**991080**							**991085**	**991086**				**991088**	
Eco Helix	60											**1039**			
Eco Helix	120											**1059**			
Eco Interior	60	**971048**								**971039**					
Eco Interior	120	**971049**								**971059**					
Eco Neo III	60	**1048**	**1037**	**1046**		**81044**						**1039**	**1038**		
Eco Neo III	120	**1049**	**1057**	**1002**		**81045**						**1059**	**1058**		
Eco Revolution	60	**1048**		**(1046)**								**1039**			
Eco Revolution	120	**1049**		**(1002)**								**1059**			
Eco Talos	60	**971048**													
Eco Talos	120	**971049**													
Eco Volare	60	**971048**		**971046**						**971039**					
Eco Volare	120	**971049**		**971002**						**971059**					
Elica	60	**1048**										**1039**			
Elica	120	**1049**										**1059**			
Falcetto	60		**1037**		**1106**							**1039**			
Falcetto	120		**1057**		**1108**							**1059**			
Libeccio	60	**1048**										**1039**			
Libeccio	120	**1049**										**1059**			
Libelle	60	**1048**										**1039**			
Libelle	120	**1049**										**1059**			
Macau	60	**1048**				**81044**									
Macau	120	**1049**				**81045**									
Mercury	60	**1048**													
Mercury	120	**1049**													
Mirage	60	**1048**										**1039**			
Mirage	120	**1049**										**1059**			
Night Flight	60	**1048**										**1039**			
Night Flight	120	**1049**										**1059**			
Outdoor Classic	60					**81044**						**1039**			
Outdoor Classic	120					**81045**						**1059**			
Rotary	60	**1048**										**1039**			
Rotary	120	**1049**										**1059**			
Titanium	60	**1048**										**1039**			
Titanium	120	**1049**										**1059**			
Tristar II	60		**1037**									**1039**			
Tristar II	120		**1057**									**1059**			
Tristar-Z	60		**1037**	**(1046)**								**1039**			
Tristar-Z	120		**1057**	**(1002)**								**1059**			

** Including hanger ball and cover ring*

*** Consisting of an inner rod and a decorative sleeve*

(...) = Product colour different from housing colour

Longer downrods (can be shortened to any length) in exchange against the original Vortice downrods of the NORDIK series DESIGN S, EVOLUTION, INTERNATIONAL PLUS and TROPICAL.

Product	Code No. L = 50 cm	Code No. L = 75 cm	Code No. L = 100 cm	Housing Finish
Metallic silver	-	22028	22029	Metallic silver
Black	-	-	22043	Black
White	22052	22072	22075	White
Light grey	-	22074	22077	Light grey
Woodgrain	-	-	22071	Woodgrain

NORDIK ECO: Longer downrods (arbitrarily shortenable) in exchange against the original downrods.

Product	Code No. L = 16 cm	Code No. L = 66,5 cm	Code No. L = 91,5 cm	Housing Finish
White	21150	21154	21155	White

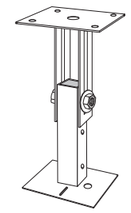
NORDIK HEAVY DUTY BASE and HEAVY DUTY INOX: Longer downrods (arbitrarily shortenable).

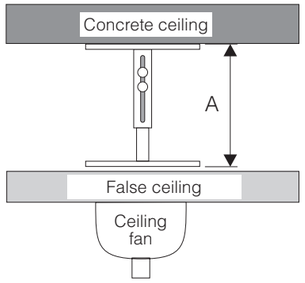
Product	Code No. L = 67 cm	Code No. L = 92 cm	Housing Finish
Polished chrome	22718	22719	Hammered anthracite
304 stainless	22722	22723	Hammered anthracite

Mounting support for ceiling fans

Continuously adjustable support for safe and vibration free installation of ceiling fans at suspended and false ceilings (wood, gypsum, plasterboard, ceiling grid). Ceiling plate with 4 holes for mounting to hard ceiling, lower plate with universal holes for installation of any ceiling fan.

Product	Code No.	A (mm)	Weight (kg)
SST20-35	93221	200 - 350	3.7
SST35-65	93222	350 - 650	5.6
SST65-120	93223	650 - 1,200	10.2
SST120-170	93225	1,200 - 1,700	13.6





SST support for false ceilings: The support has no contact to the false ceiling. This prevents resonances and vibration noise.

Long Pull chains

Longer pull chains for operating ceiling fans and light kits with pull chain switches at high ceilings. Pull chain length 100 cm can be cut to any length.

Product	Code No.	Metal finish	Knob
ZK100MA	81003	Antique brass	Wood
ZK100CH	81002	Polished chrome	Wood
ZK100MP	81001	Polished brass	Wood
ZK100CH/A	81005	Polished chrome	Acrylic

ZK 100: Long pull chains allow the access to pull chain switches of ceiling fans and light kits installed at high ceilings.

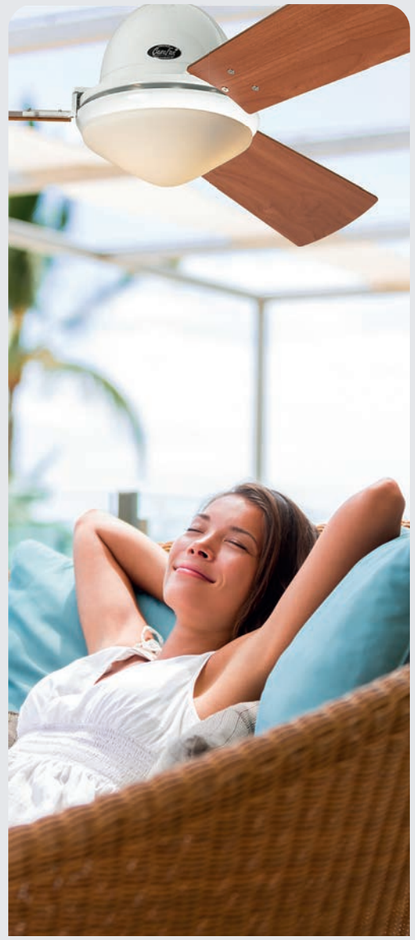
SlowMotion

The electronic part “SLOWMOTION” works as a pre-resitance, for reducing one of the 3 availible speeds of a CasaFan NON-Eco ceiling fan. The Product has been designed to prevent heat development that could damage other parts.

In connection with a CasaFan remote control, ALL speed levels will be reduced in speed by about half.

SLOW MOTION
Speed 1 is guaranteed to work „draught-free“

Product	Code No.	Function
SLOWMOTION 1,5	99669	Speed reduction for AC ceiling fans



THE BEST FANS YOU CAN GET.

CasaFan
VENTILATORS

Tradition TV 30 II

TRADITION TV 30 II MS
#303053

TRADITION TV 30 II CH
#303052

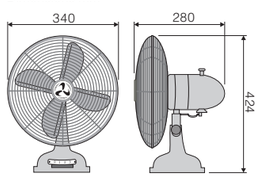
Guaranteed Quality 3YEARS CasaFan

COMMERCIAL USE

Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

- Traditional design with state-of-the-art technology.
- Housing, fan base and protective grille polished chrome finish.
- 3-speed level switch at front of fan base.
- Vertical grade adjustable.
- Mechanical 85°-oscillation, can be switched off.
- Stable, tilt-free fan base with rubber feet.
- Useful handle at the back of the protective grille.
- Removable protective grille for easy cleaning.
- Powerful blade made of Aluminum.
- 1.8 meters power cord with protective contact plug.

Dimensions mm



Blade Ø	300
Power motor (W)	37
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. max. (RPM)	1,321
Oscillation (°)	85
Weight (kg)	3.5

Tradition TV 30 II

Product	Code No.	Housing Finish
TRADITION TV 30 II CH	**303052**	Polished chrome
TRADITION TV 30 II MS	**303053**	Matt black

Intertek GS geprüfte Sicherheit

Airos Circubox

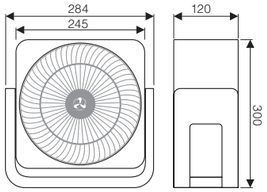
AIROS CIRCUBOX
WE #67856

AIROS CIRCUBOX SW #67855

Guaranteed Quality 3YEARS CasaFan

- Housing, protective grille and blade made of shockproof thermo-plastic resin, frosted.
- 3 speeds selectable with rotary switch.
- 3-blade wheel, for powerful air delivery.
- High airstream range of up to 10 m.
- Vertical grade adjustable in 5 steps up to 120°.
- Stable stand with rubber feet integrated in the housing.
- 1.8 meters power cord with Euro plug.
- Rear grid can be opened for cleaning the filter net.

Dimensions mm



Blade Ø	200
Power motor (W)	35
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. max. (RPM)	1,310
Weight (kg)	2.0

Airos Circubox

Product	Code No.	Housing Finish	Grille
AIROS CIRCUBOX WE	**67856**	Matt white	Black
AIROS CIRCUBOX SW	**67855**	Matt black	Light grey

RETROJET

RETROJET RO
#301501

RETROJET GN
#301505

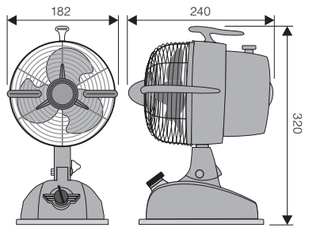
RETROJET WE
#301504

RETROJET SW
#301502

RETROJET SIL
#301503

- Housing made of shockproof thermo-plastic ABS resin and steel.
- Protective grille and applications chrome finished.
- 3-speed rotary switch at the front of the fan base.
- Powerful motor and optimized blade, black finished.
- Vertical grade adjustable.
- Mechanical 90°-oscillation, switchable.
- Stable, tilt-free fan base with rubber feet.
- Useful handle at the fan head.
- 1.8 meters power cord with protective contact plug.

Dimensions mm



Blade Ø	150
Power motor (W)	15
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. max. (RPM)	2,620
Oscillation (°)	90
Weight (kg)	2.4

RETROJET

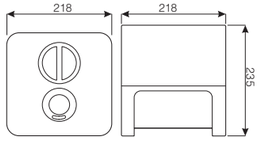
Product	Code No.	Housing Finish
RETROJET RO	**301501**	Glossy ruby finish
RETROJET SW	**301502**	Glossy black finish
RETROJET SIL	**301503**	Glossy silver finish
RETROJET WE	**301504**	Glossy white finish
RETROJET GN	**301505**	Glossy british green finish

Vort Hydro Cube

VORT HYDRO
CUBE #60405

- Design humidifier in modern cube shape.
- Housing made of ABS, hygienic and easy to clean.
- 2-stage ultrasonic vaporisation (210 and 350 ml/h).
- Closed, removable water tank with 4 liter capacity.
- Selectable between cold and hot steam function.
- 360° adjustable mist nozzle.
- Water level indicator and automatic switch-off at empty tank.
- Desired room air humidity can be selected on the adjustable hygrostat (40%, 50%, 60% and 70%).
- Sleep timer up to 12 hours.
- Removable container for essential oils to enrich the humidifier mist.
- Operation via soft-touch buttons. LED display of selected functions.
- 1.8 meters power cord with Euro plug.

Dimensions mm



Large filling opening and adjustable mist nozzle.

Removable water tank.

Easy filling of the 4 liter water tank.

Water tank capacity (l)	4.0
Power motor (W)	95
Voltage (V/Hz)	220-240/50
Humidification (ml/h)	210/350
Autom. Hygrostat	40% - 70% r.F.
Sleep timer (h.)	12
Weight (kg)	1.8

Vort Hydro Cube

Product	Code No.	Housing Finish
VORT HYDRO CUBE	**60405**	White

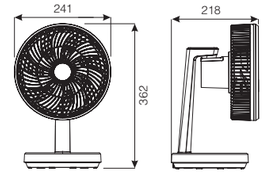
Nordik Mio

NORDIK MIO
#61046

Energy saving
DC/EC motor

- Housing and protective grille made of ABS white colour.
- 4 speeds selectable with soft touch switch with LED indication.
- Sleep timer up to 4 hours.
- 7-blade wheel, optimized for best air delivery with lowest noise.
- Vertical grade adjustable.
- High-quality, reliable motor with long service life.
- Electronic 2-step oscillation (45° and 70°) switchable.
- 12V power supply with 1.2 meters power cord with Euro plug.
- Stable, tilt-free base with rubber feet.

Dimensions mm

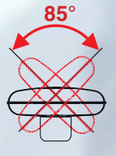


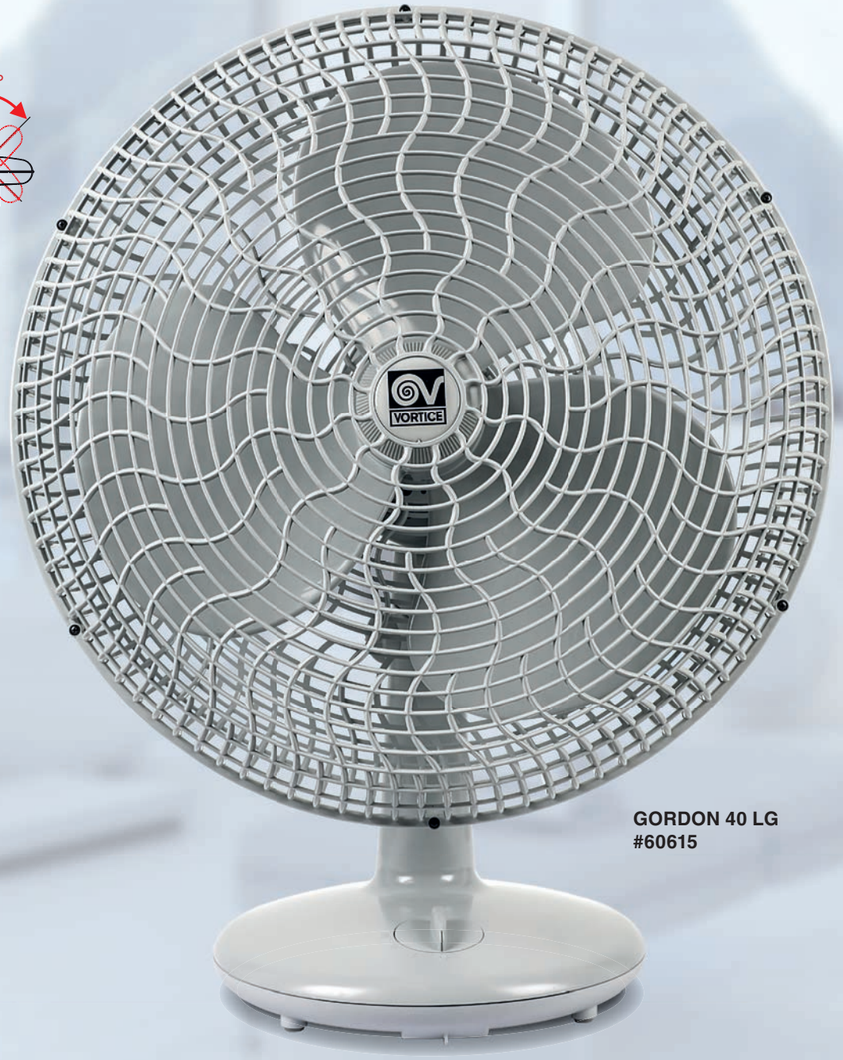
Nordik Mio

Product	Code No.	Housing/Grille Finish	Blade
NORDIK MIO	**61046**	White	Grey

Blade Ø	200
Power motor (W)	14
Voltage (V/Hz)	220-240/50-60
No. of speeds	4
Rev. max. (RPM)	1,210
Sleep timer (h.)	4
Weight (kg)	1.3

GORDON



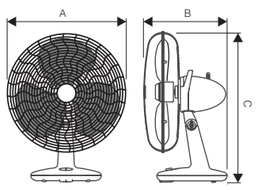


GORDON 40 LG
#60615

GORDON 30 LG
#60610

- Actual italian design (F. Trabucco/ M. Vecchi) selected for **ADI DESIGN INDEX 2004**
- Housing, protective grille and blade made of shockproof thermo-plastic resin, colour light grey.
- Awarded italian design.
- 3 speeds selectable with rotary switch at the fan base.
- Mechanical 85°-oscillation, switchable.
- 3-blade wheel, optimized for best air delivery with lowest noise.
- Vertical grade adjustable.
- Stable, tilt-free base with rubber feet.
- 1.8 meters power cord with Euro plug.
- Removable protective grille for easy cleaning.

Dimensions mm



Guaranteed Quality 3 YEARS Casa Fan

COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

Blade Ø	300/400
Power motor (W)	35/40
Voltage (V/Hz)	220-240/50
Dim. A (mm)	364/458
Dim. B (mm)	303/303
Dim. C (mm)	524/571
No. of speeds	3
Rev. max. (RPM)	1,300/1,145
Oscillation (°)	85
Weight (kg)	2.3/2.5

GORDON

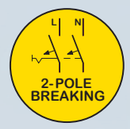
Product	Code No.	Housing Finish	Blade Ø	Grille Ø
30 LG	**60610**	Light grey	300 mm	364 mm
40 LG	**60615**	Light grey	400 mm	458 mm

CasaFan SafeLine

GREYHOUND TV-SL

TV 36-SL WE
#30365

TV 36-SL AZ
#30366

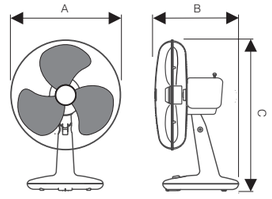


Guaranteed Quality 3 YEARS Casa Fan

COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

- Housing made of shockproof thermoplastic resin, housing colour white/anthracite, blades transparent. Protective grille steel wire, white/ anthracite.
- 3 speeds can be choosen by piano switch at the fan base.
- Mechanical 85°-oscillation movement, switchable.
- 3-blade wheel, for powerful air delivery.
- Vertical grade adjustable.
- Stable, tilt-free fan base with rubber feet.
- 1.8 meters power cord with Euro plug.
- Removable protective grille for easy cleaning.

Dimensions mm



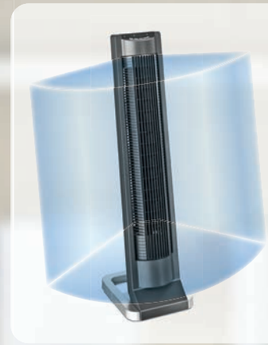
Blade Ø	300
Power motor (W)	35
Voltage (V/Hz)	220-240/50
Dim. A (mm)	345
Dim. B (mm)	275
Dim. C (mm)	460
No. of speeds	3
Rev. max. (RPM)	1,310
Oscillation (°)	85
Weight (kg)	2.4

GREYHOUND TV-SL

Product	Code No.	Housing Finish	Grille
TV 36-SL WE	**30365**	White, matt surface	White
TV 36-SL AZ	**30366**	Anthracite, matt surface	Anthracite

AIROS PIN II

AIROS PIN II
#67522

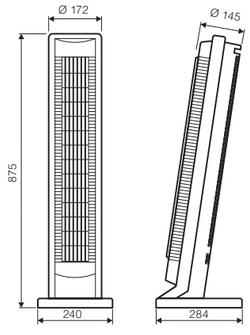


COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

All functions can be controlled by the hand held remote control

- Elegant, compact housing made of shockproof, thermo-plastic ABS resin, anthracite/ black.
- 3 speeds selectable.
- Timer up to 7.5 hours switch off delay.
- Natural modes for constantly changing airflow.
- Storage for remote control at fan head.
- All functions selectable at the fan panel and by IR remote control.
- Stable, tilt-free stand.
- LED shows selected functions.
- Internal 65°-oscillation for even airflow in the room.
- Specially developed impeller for low noise at maximum air performance, range up to 6 m.
- 1.8 meters power cord with Euro plug.
- Useful transport handle integrated in the back of the housing.

Dimensions mm



Exhaust grille (H × W)	540 × 78
Power motor (W)	40
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. max. (RPM)	1,250
Oszillation internal (°)	65
Weight (kg)	3.9

AIROS PIN II

Product	Code No.	Housing Finish
PIN II	**67522**	Anthracite/black

Intertek GS geprüfte Sicherheit

AIROS BIG PIN II
SW #67540

AIROS BIG PIN II
WE #67541

COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

AIROS BIG PIN II

Product	Code No.	Housing Finish
BIG PIN II SW	**67540**	Anthracite/black
BIG PIN II WE	**67541**	White

Intertek GS geprüfte Sicherheit

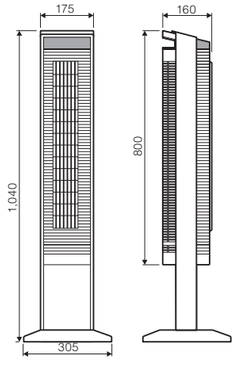
Exhaust grille (H × W)	550 × 68
Power motor (W)	40
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. max. (RPM)	1,270
Oszillation internal (°)	65
Weight (kg)	5.2

AIROS BIG PIN II

All functions can be controlled by the hand held remote control

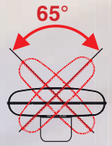
- Stylish, slim housing made of shockproof, thermoplastic ABS, anthracite/black or white.
- 3 speeds selectable.
- Timer up to 7.5 hours switch off delay.
- Natural mode for permanent varyingly airstreams.
- Storage for remote control at fan head.
- Temperature function controls fan speed.
- Discreetly illuminated display shows the selected functions.
- Specially developed impeller for low noise at maximum air performance, range up to 8 m.
- Stable, tilt-free stand.
- Internal 65°-oscillation for even airflow in the room.
- 1.8 meters power cord with Euro plug.
- Useful transport handle integrated in the back of the housing.

Dimensions mm



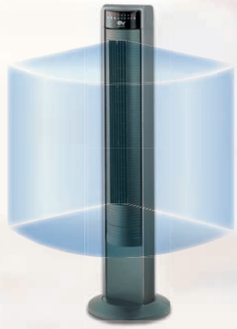
ARIANTE TOWER SUPER

ARIANTE TOWER SUPER
#63016



COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

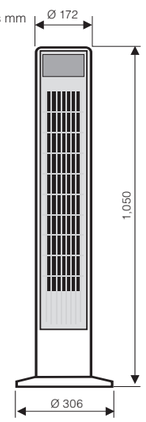
- Elegant, slim housing made of shockproof, thermoplastic ABS, grey/anthracite finished.
- 3 speeds selectable.
- Timer up to 7.5 hours switch off delay.
- 2 natural modes for permanent varying airstreams.
- Storage for remote control at fan head.
- All functions selectable at fan panel and by remote control.
- Stable, tilt-free stand.
- Specially new developed, longer tangential wheel for lower noise with stronger airstream, range up to 7 meters.
- LED display shows selected functions.
- Internal 65°-oscillation distributes the air all over the room.
- 1.8 meters power cord with Euro plug.
- Useful transport handle integrated in the back of the housing.



Storage for remote control at the back of fan head.

Control buttons covered by a flap. All selected functions are indicated by LEDs.

Dimensions mm

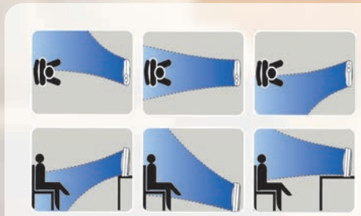


Exhaust grille (H × W)	680 × 90
Power motor (W)	40
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. max. (RPM)	1,200
Oszillation intern (°)	65
Weight (kg)	5.2

ARINATE TOWER SUPER

Product	Code No.	Housing Finish
ARIANTE TOWER SUPER	**63016**	Grey/Anthracite

ARIANTE 30



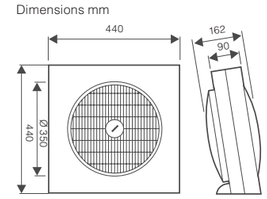
COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

ARIANTE 30 multicolor
#60795

ARIANTE 30 LG
#60790

- Floor fan with elegant, italian design. Strong: the components are made of shockproof, thermoplastic resin.
- ARIANTE 30 light grey colour.
- ARIANTE 30 multicolor: parts in 5 pastel shades: light yellow, grey, pink, light blue and light green at random combination.
- 3 speeds selectable by rotary switch.
- Slowly rotating front grille with angular fins distributes the air in a 360° radius. Rev. can be switched off.
- Special 6-blade fan gives guaranteed maximum performance and low noise level making it suitable for use overnight.
- Stable, vibration-free stand.
- Powerful motor.
- 1.5 meters power cord with Euro plug stores in cable tidy.
- Front and rear grilles easily removable for cleaning and maintenance.

Dimensions mm



ARIANTE 30

Product	Code No.	Housing Finish	Oscillation
ARIANTE 30	**60790**	Light grey	360°
ARIANTE 30 multicolor	**60795**	Multicolour pastel	360°

Blade Ø	330
Power motor (W)	35
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. max. (RPM)	1,075
Oscillation (°)	360
Weight (kg)	3.5

AIROS ECO SILENT

NEW

AIROS ECO SILENT SW
#64501

Magnetic holder of the remote control in the centre of the protective grille.

COMMERCIAL USE
Approved according Machinery Directive 2006/42/EC Part 1 for commercial use

- High-performance stand fan with high-efficiency, brushless EC motor.
- Ideal for use in private and commercial areas.
- 6 finely graduated speed levels adjustable by means of push-button or remote control. Indicator display on the motor.
- Additional, extra-quiet sleep level with only 13.2 dB(A)* with super-soft airflow.
- Vertical tilt adjustable in the range of 35° adjustable, switchable 90° oscillation.
- Protective grille, housing and stand black, impeller transparent.
- Stable stand, height adjustable from 1,100 to 1,350 mm.
- Switch-off timer 1 to 9 hours.
- Innovative, patented impeller with 18 blades and 2 blade circles.
- Rubber hose cable H05RN-F G 3 0.75 mm², length 2.5 m with protective contact plug.

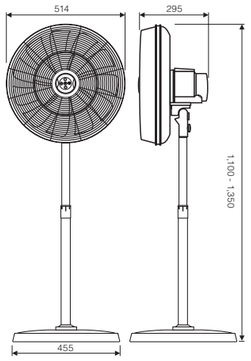
Selection and display of functions in the control panel on top of the motor.

All functions can also be operated by remote control.

Guaranteed Quality 3 YEARS Casa Fan

Energy saving
DC/EC motor

Dimensions mm



Grille Ø (mm)	514
Blade Ø (mm)	442
Power motor (W)	4.2 - 90
Voltage (V/Hz)	220-240/50-60
No. of speeds	6 + 1
Rev. max. (RPM)	850
Weight (kg)	10.0

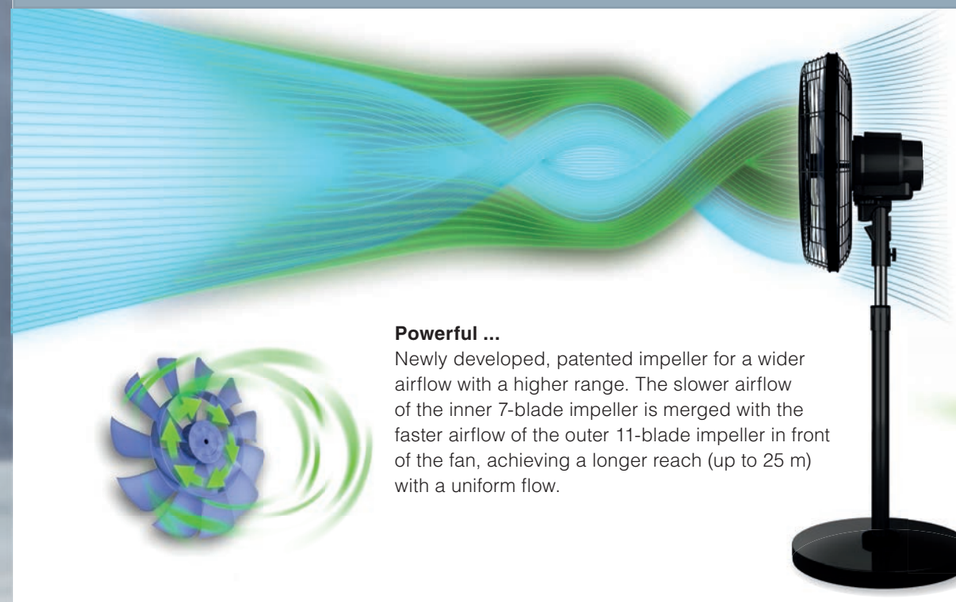
AIROS ECO SILENT

Product	Code No.	Housing/Grille Finish	Blade Finish
AIROS ECO SILENT SW	**64501**	Black	Transparent

* Sound pressure LP -3 m
** Fan flow rate acc. IEC 60879

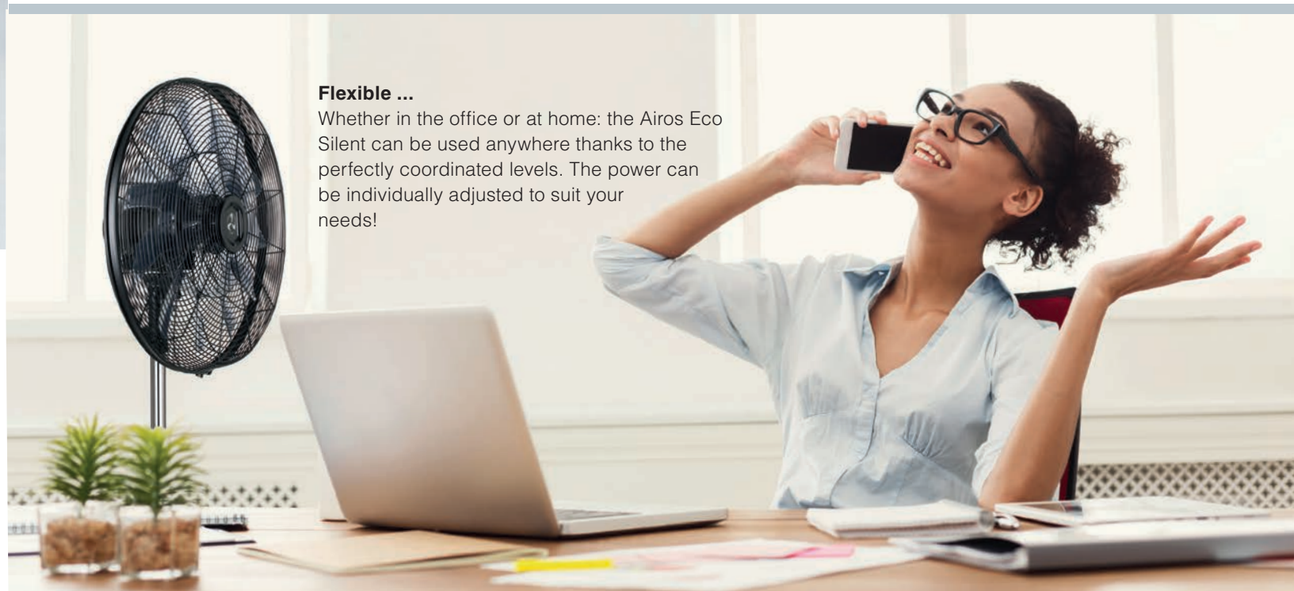
Quieter than a whisper ...
An additional “Sleep” level creates a gentle breeze and a barely perceptible noise – with 4.2 watts consumption only.

Versatile ...
6 perfectly matched speed levels for every need. From a gentle breeze up to a violent storm with over 10,000 m³/h** – the Airos Eco Silent fits every situation!



HighTech ...
Encapsulated, highly efficient EC precision motor with permanent magnet and integrated control electronics. The 3rd generation of brushless EC motor technology. Saves up to 50% energy compared to conventional AC motors.

Powerful ...
Newly developed, patented impeller for a wider airflow with a higher range. The slower airflow of the inner 7-blade impeller is merged with the faster airflow of the outer 11-blade impeller in front of the fan, achieving a longer reach (up to 25 m) with a uniform flow.



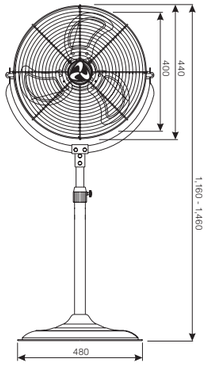
Flexible ...
Whether in the office or at home: the Airos Eco Silent can be used anywhere thanks to the perfectly coordinated levels. The power can be individually adjusted to suit your needs!

SPEED2STAND

Speed transformer **ETWZ 1,0 # 891020** for regulation in 5 steps form whisper-quiet to high perfomance.

- High-performance pedestal fan.
- Ideal for use in private and commercial sector.
- 3 speeds selectable with rotary switch.
- Vertical grade of 100° adjustable.
- Chromed protective grille, housing, frame and base silvergrey coated.
- Stable, tilt-free steel base, height adjustable.
- Comfortable handle and cable winder on the backside of the protective grille.
- Powerful Aluminum impeller, black.
- Rubber sheathed cable H05RN-F G 3 1.0 mm², length 2.5 m with protective contact plug.

Dimensions mm



SPEED2STAND
#304010

COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

Grille Ø (mm)	440
Blades Ø (mm)	400
Power motor (W)	110
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. (RPM)	1,305
Weight (kg)	12.8

SPEED2STAND

Product	Code No.	Housing/Grille Finish	Blade Finish
SPEED2STAND	**304010**	Silver grey/chrome	Aluminum, black

CasaFan SafeLine

GREYHOUND SV SL

GREYHOUND
SV45-10 SL WE
#306135

2-POLE BREAKING

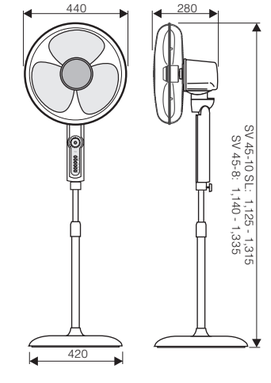
GREYHOUND
SV45-8 FB AZ
#307121

All functions can be controlled by the hand held remote control.

COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

- Housing and blade made of shockproof, thermoplastic resin, matt.
- 85°-oscillation (can be turned off).
- 3 speeds selectable with pressure switch.
- 3-blade wheel, optimized for best air delivery with lowest noise.
- Vertical grade adjustable.
- LEDs show selected functions (only SV45-8 FB AZ).
- Greyhound SV 45-8 FB AZ with remote control
- Height adjustable from 1,125 to 1,335 mm.
- Stable base without risk of tilting.
- 2.5 meters power cord with Euro plug.
- Removable protective grille for easy cleaning.

Dimensions mm

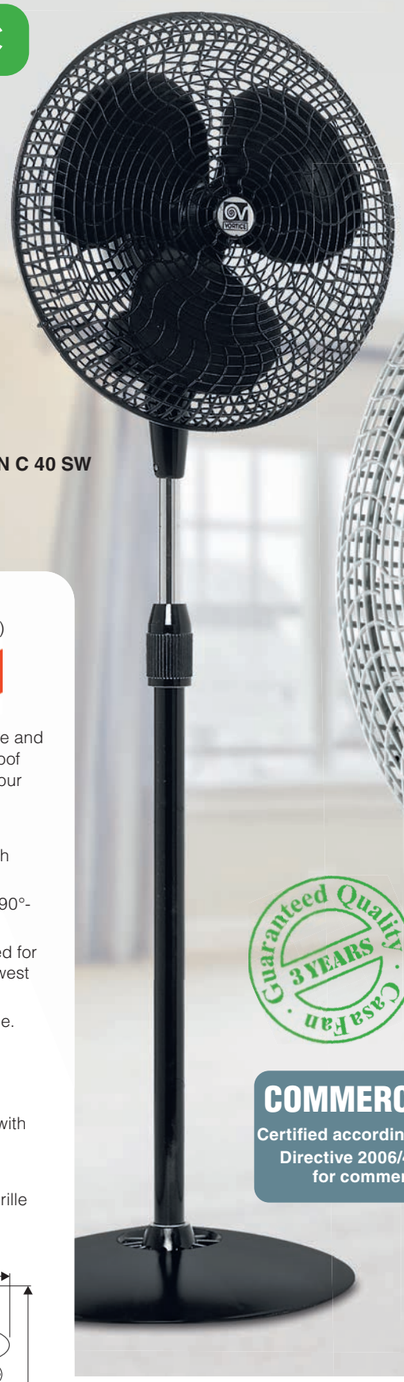


GREYHOUND SV

Product	Code No.	Housing Finish	Blade Finish
SV 45-10 SL WE	**306135**	White, matt surface	Plastic, semi-transpar.
SV 45-8 FB AZ	**307121**	Anthracite, matt surface	Plastic, semi-transpar.

Blade Ø	400
Power motor (W)	50
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. max. (RPM)	1,145
Oscillation (°)	85
Weight (kg)	5.7

GORDON C

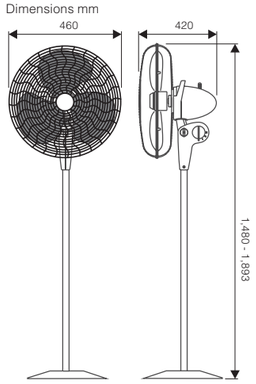


GORDON C 40 SW
#60621

GORDON C 40 LG
#60620

- Actual italian design (F. Trabucco/ M. Vecchi) selected for **ADI DESIGN INDEX 2004**
- Housing, protective grille and blade made of shockproof thermoplastic resin, colour light grey or black.
- Awarded italian design.
- 3 speeds selectable with rotary switch.
- Selectable mechanical 90°-oscillation
- 3-blade wheel, optimized for best air delivery with lowest noise.
- Vertical grade adjustable.
- Stable, tilt-free base.
- Height adjustable from 1,480 to 1,893 mm.
- 1.5 meters power cord with Euro plug.
- Insulation class II.
- Removable protective grille for easy cleaning.

Dimensions mm



Blade Ø	400
Power motor (W)	40
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. max. (RPM)	1,145
Oscillation (°)	90
Weight (kg)	5.4

GORDON C

Product	Code No.	Housing Finish	Grille Ø (mm)
C 40 LG	**60620**	Light grey	460
C 40 SW	**60621**	Black	460

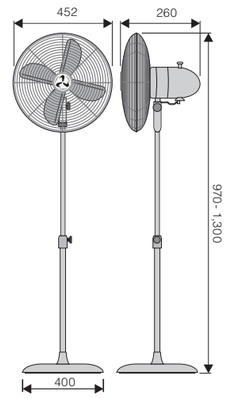
COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

SATIN METAL BREEZE II

SATIN METAL BREEZE II
#304072

- All-metal housing brushed chrome finish.
- Selectable 85°-oscillation.
- 3 speeds selectable with rotary switch.
- Vertical grade adjustable.
- Height adjustable from 985 to 1,390 mm.
- Stable, tilt-free base with rubber feet.
- Powerful blade made of Aluminum.
- 2.5 meters power cord with protective contact plug.
- Removable protective grille for easy cleaning.

Dimensions mm



SATIN METAL BREEZE II

Product	Code No.	Housing Finish	Blade Finish
SATIN METAL BREEZE II	**304072**	Brushed chrome	Aluminum

Blade Ø	400
Power motor (W)	50
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. max. (RPM)	1,150
Oscillation (°)	85
Weight (kg)	7.3

COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

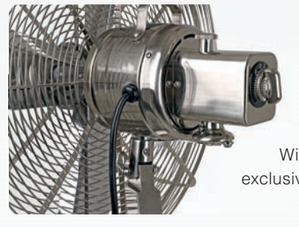
Retro-Airstyle

RETRO AIRSTYLE BN-NB #304085

85°

RETRO AIRSTYLE BN-NT #304086

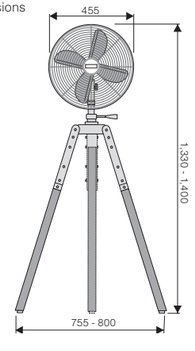
- Retrodesign with the latest technology.
- Heavy all-metal version. Housing made of steel, surface chrome brushed.
- Adjustable stand with 3 wooden arms, natural colour or walnut stained.
- Lovingly crafted details such as a solid metal adjusting handle or solid crossbars in the protective grille.
- 3 speeds, switchable via rotary switch.
- 4-blade, aerodynamically optimised impeller in retro look.
- Switchable 85°-oscillation.
- Fan head inclination vertically adjustable.
- Removeable protective grille for easy cleaning.
- 1.8 meters power cord with protective contact plug.



With many exclusive metal details.

Adjustment handle for the horizontal directional adjustment of the airstream.

Dimensions mm



Blade Ø	400
Power motor (W)	40
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. max. (RPM)	1,165
Oscillation (°)	85
Weight (kg)	7.6

Retro-Airstyle

Product	Code No.	Housing Finish	Tripod colour
BN-NB	**304085**	Brushed chrome	Stained walnut
BN-NT	**304086**	Brushed chrome	Natural wood, clear coated

NEW

Airos Eco SV35

AIROS ECO SV35 WE #64510

30/60/90°

LED display which shows the selected settings at the stand.

Vertically adjustable by up to 100° (indirect ventilation).

IR remote control included.

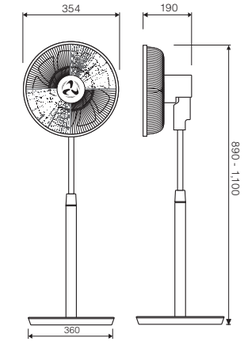
Easy-to-reach control buttons on top of the motor head to select all functions.

Energy saving
DC/EC motor

Voltage/ Frequency
100-240 V/ 50-60 Hz
suitable for many countries

- Stand fan with high-efficiency, brushless EC motor.
- Housing and impeller made of white plastic, fine matted.
- 12 speeds, soft switch on the motor housing.
- Oscillation selectable in 3 steps (30° - 60° - 90°, also via IR remote control).
- Innovative, patented impeller with 18 blades and 2 blade circles.
- LED display of the selected settings on the stand.
- 13.6 dB(A)* on low speed setting, ideal for use in the bedroom.
- Vertically adjustable by up to 100° (indirect ventilation).
- Stable stand, height adjustable from 890 to 1,100 mm.
- 24V power supply with 2.0 m power cord with Euro plug.
- Removable protective grille for easy cleaning.

Dimensions mm



Airos Eco SV35

Product	Code No.	Housing/Grille Finish	Blade Finish
Airos Eco SV35 WE	**64510**	Fine matt white	Fine matt white

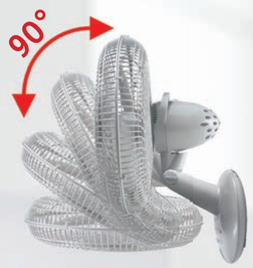
* Sound pressure LP -3 m

Blade Ø	325
Power motor (W)	25
Voltage (V/Hz)	100-240/50/60
No. of speeds	12
Rev. max. (RPM)	1,000
Oscillation (°)	30/60/90
Weight (kg)	5.6

GORDON W

GORDON W 40 LG
#60641

GORDON WALL series:
vertical grade adjustable



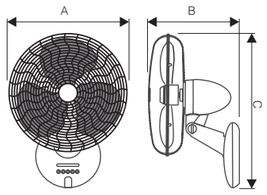
- Actual italian design (F. Trabucco/ M. Vecchi) selected for **ADI DESIGN INDEX 2004**
- Housing, protective grille and blade made of shockproof thermoplastic resin, colour light grey.
- Awarded italian design.
- 3 speeds, 6 hours timer, oscillation and breeze mode can be controlled by remote control or with buttons at the fan base.
- LED display shows selected functions.
- Electronic 90°-oscillation.
- 3-blade wheel, optimized for best air delivery with lowest noise.
- Vertical grade adjustable.
- Stable wall- and ceiling holder, including fastening fixtures.
- Without cable for fixed connection.
- Protection class IP20, insulated.
- Removable protective grille for easy cleaning.

GORDON W
30 LG #60643

Guaranteed Quality 3 YEARS Casa Fan

COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

Dimensions mm



Blade Ø	300/400
Power motor (W)	35/40
Voltage (V/Hz)	220-240/50
Dim. A (mm)	365/460
Dim. B (mm)	335/355
Dim. C (mm)	550/600
No. of speeds	3
Rev. max. (RPM)	1,300/1,145
Oscillation (°)	90
Weight (kg)	2.7/3.0

GORDON W

Product	Code No.	Housing Finish	Grille Ø (mm)
W 30 LG	**60643**	Light grey	365 mm
W 40 LG	**60641**	Light grey	460 mm

GREYHOUND WV-II

WV 45-II FB AZ
#304525

WV 45-II FB LG
#304524

WV 45-II FB AZ
#304525

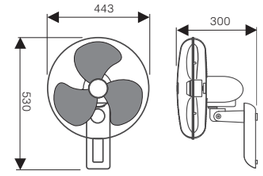
All functions can be controlled by the hand held remote control.

Guaranteed Quality 3 YEARS Casa Fan

COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

- Housing made of shockproof thermo-plastic resin, protective grille steel wire.
- 3 speeds can be choosen by switch at the fanbase or by remote control.
- 85°-oscillation movement, switchable.
- LEDs showing selected functions.
- 3-blade wheel for powerful air delivery.
- Vertical grade adjustable.
- Stable fan base with rubber feet and wall fixture.
- 2.5 meters power cord with Euro plug.
- Removable protective grille for easy cleaning.

Dimensions mm



GREYHOUND WV

Product	Code No.	Housing Finish	Blade Finish	Grille Ø
WV 45-II FB AZ	**304525**	Anthracite matt	semi-transparent	440 mm
WV 45-II FB LG	**304524**	Light grey matt	semi-transparent	440 mm

Blade Ø	400
Power motor (W)	50
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. max. (RPM)	1,145
Oscillation (°)	85
Weight (kg)	3.8

DESK2PROTECT SL

CasaFan SafeLine

The ON/OFF switch and pressure switch for speed are covered by a protective rubber.

Easy installation at traverses and superstructures.

- High-performance desk/superstructure fan in industrial design.
- Perfect for personal use in production areas, warehouses and workshops.
- Easy installation at superstructures and frames.
- 3 speeds selectable by enclosed pressure switch.
- Vertical grade of 130° adjustable.
- Stable, tilt-free steel base.
- Protective grille, housing, frame and base with double corrosion protection coating, white.
- Useful transport handle and cable coil at the back side of protective grille.
- Rubber sheathed cable H07RN-F G 3 1.0 mm², length 2.5 m with protective contact plug.
- Powerful Aluminum impeller.
- Protection class IP44 splash proof.

DESK2PROTECT SL
#303512

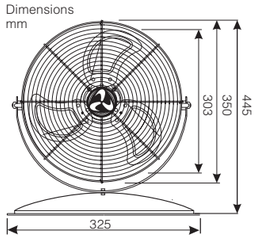
COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

Guaranteed Quality 3 YEARS CasaFan

IP44 splash proof

2-POLE BREAKING

Dimensions mm



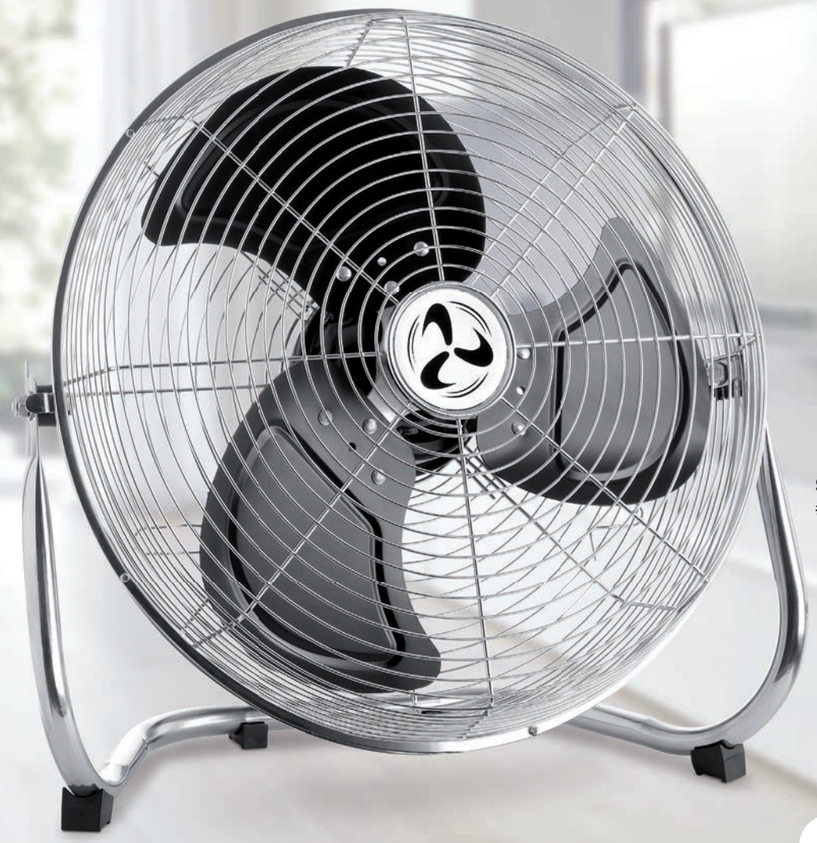
Grille Ø (mm)	400
Blade Ø (mm)	300
Power motor (W)	43
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. max. (RPM)	1,360
Weight (kg)	5.1

DESK2PROTECT SL

Product	Code No.	Housing/Grille Finish	Blade Finish
DESK2PROTECT SL	**303512**	Double corrosion protection coating, white	Aluminum

Often in hot weather and in rough, wet and dirty environmental conditions in production, workshop and workplace, simple fans from the hardware store are used to cool people and machines. These fans were developed for use in private households and provide insufficient protection against splashing water. The new DESK2PROTECT helps out in this situation!

SPEED-G



SPEED 40-G CH
#304008

Guaranteed Quality 3 YEARS CasaFan

COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

SPEED 40-G CH and **SPEED 50-G CH:**
The accessories for wall mounting are included in the scope of delivery.

- Protective grille with chrome finish.
- 3-speed rotary switch at the back of the grille.
- Vertical grade adjustable.
- For wall mounting or usable with chain suspension (hooks included).
- Stable, tilt-free, chromed tubular frame with rubber feet.
- Useful transport handle and cable coil.
- Powerful Aluminum blade, matt black.
- Rubber sheathed cable H05RN-F G 3 1.0 mm², length 2.5 m with protective contact plug.
- Optional 5 speed transformer (**ETWZ 1,0 #891020)** for regulation between a whisper quiet breeze and high performance.

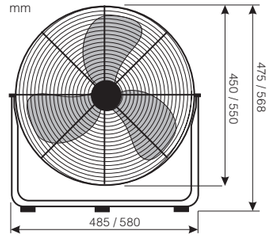
SPEED-G

Product	Code No.	Grille Finish	Blade Finish	Grille-Ø
40-G CH	**304008**	Chrome	Matt black	440 mm
50-G CH	**305008**	Chrome	Matt black	550 mm

Intertek GS geprüfte Sicherheit

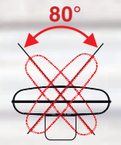
Model SPEED G	**40**	**50**
Blade Ø (mm)	400	500
Power motor (W)	110	120
Voltage (V/Hz)	220-240/50	
No. of speeds	3	
Rev max. (RPM)	1,305	1,310
Weight (kg)	4.6	5.5

Dimensions mm



WM2 Wall Eco

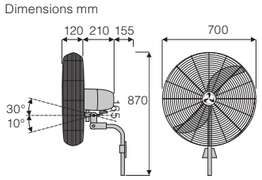
Optional 5- speed transformer **ETWZ 1,0 #891020** for regulation in between a whisper quiet breeze and high performance available.



Wind machine
WM2 WALL ECO
#207512

- Wall rod and grille guard chrome, housing, blade and wall mount silver grey finished.
- Heavy all-metal product.
- 3 speeds selectable by rotary control switch at the motor.
- Mechanical 80°-oscillation, disengageable.
- 2-blade, sickle shaped wheel, designed for best air delivery.
- Vertical adjustable grille pitch.
- Wall mount height adjustable.
- Rubber sheathed cable H05RN-F G 3 1.0 mm², length 2.5 m with protective contact plug.

Dimensions mm



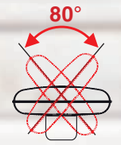
Blade Ø	650
Power motor (W)	123
Voltage (V/Hz)	220-240/50
Height max. (mm)	810
No. of speeds	3
Rev. max. (RPM)	1,190
Oscillation (°)	80
Weight (kg)	13.3

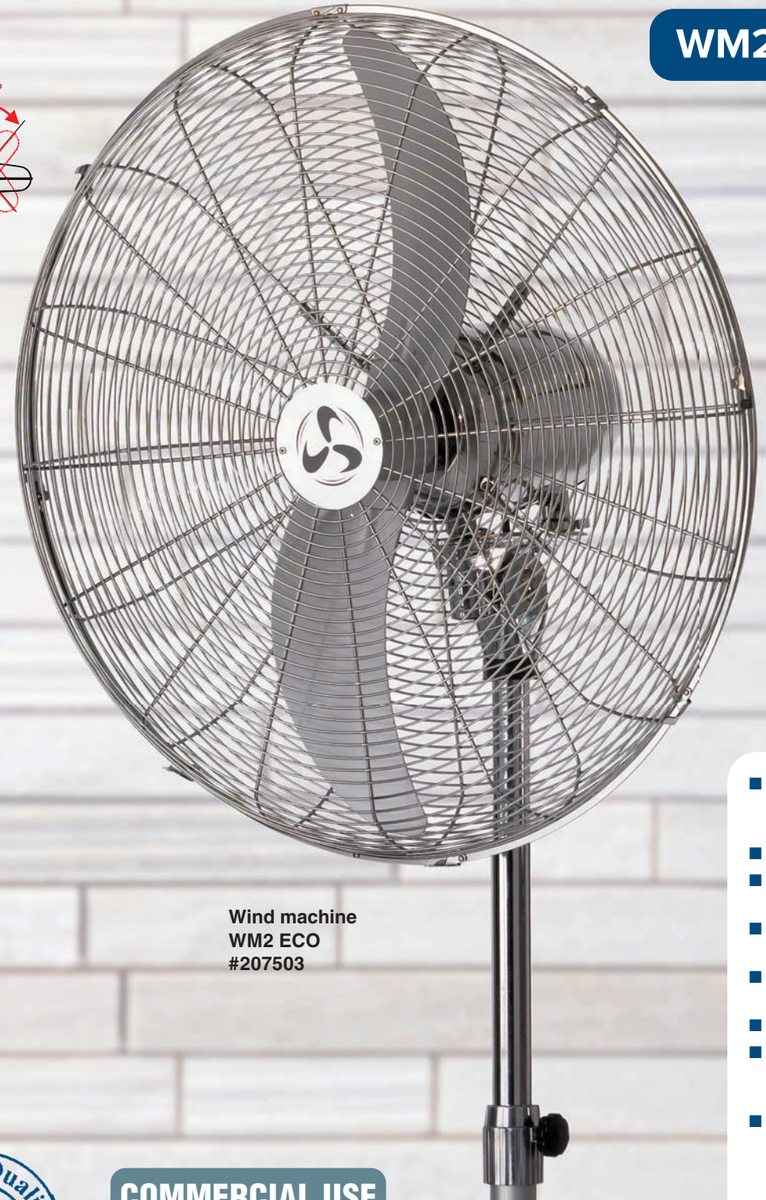
COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

WM2 Wall Eco

Product	Code No.	Housing/Blade Finish	Grille Finish
WM2 Wall ECO	**207512**	Silver grey/Chrome	Chrome

WM2 Stand Eco

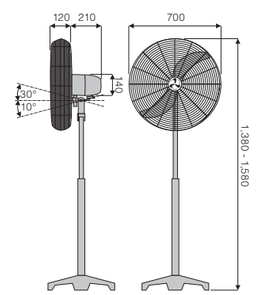




Wind machine
WM2 ECO
#207503

- Stand rod and grille guard chrome, housing, blade and base silver grey finished.
- Heavy all-metal product.
- 3 speeds selectable by rotary control switch at the motor.
- Mechanical 80°-oscillation, disengageable.
- 2-blade, sickle shaped wheel, designed for best air delivery.
- Vertical adjustable grille pitch.
- Stable, tilt-free pedestal, adjustable up to 1,580 mm with die cast base.
- Rubber sheathed cable H05RN-F G 3 1.0 mm², length 2.5 m with protective contact plug.
- Optional 5 speed transformer (**ETWZ 1,0 #891020)** for regulation between a whisper quiet breeze and high performance available.

Dimensions mm



COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

WM2 Stand Eco

Product	Code No.	Housing/Blade Finish	Grille Finish
WM2 ECO	**207503**	Silver grey/Chrome	Chrome

Blade Ø	650
Power motor (W)	123
Voltage (V/Hz)	220-240/50
Height max. (mm)	1.580
No. of speeds	3
Rev. max. (RPM)	1,190
Oscillation (°)	80
Weight (kg)	16.4

FLOOR2PROTECT SL

The ON/OFF switch and pressure switch for speed are covered by a protective rubber.

CasaFan SafeLine

FLOOR2PROTECT SL
#304515

- High-performance floor fan in industrial design.
- Ideal for use in production, warehousing and shipping.
- 3 speeds by enclosed pressure switch.
- Vertical grade of 130° adjustable.
- Protective grille, housing, frame and base with double corrosion protection coating, colour white.
- Comfortable handle on the rear side of the protective grille.
- Rubber sheathed cable H07RN-F G 3 1.0 mm², length 2.5 m with protective contact plug IP54.
- Powerful Aluminum impeller.
- Protection class IP54 dust and splash-proof.

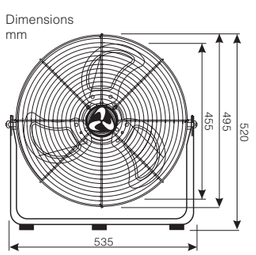
COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

Guaranteed Quality 3 YEARS CasaFan

IP54
dust-proof
splash-proof

2-POLE BREAKING

Dimensions mm



Grille Ø (mm)	495
Blade Ø (mm)	455
Power motor (W)	120
Voltage (V/Hz)	220-240/50
No. of speeds	3
Rev. (RPM)	1,250
Weight (kg)	7.1

FLOOR2PROTECT SL

Product	Code No.	Housing/Grille Finish	Blade Finish
FLOOR2PROTECT SL	**304515**	Double corrosion protection coating, white	Aluminum

Often in hot weather and in rough, wet and dirty environmental conditions in production, workshop and workplace, simple fans from the hardware store are used to cool people and machines. These fans were developed for use in private households and provide insufficient protection against splashing water. The new FLOOR2PROTECT helps out in this situation!

SPEED2PROTECT SL

CasaFan SafeLine

SPEED2PROTECT SL
#304514

The ON/OFF switch and pressure switch for speed are covered by a protective rubber.

Wall fixture included.

- High-performance pedestal fan in industrial design.
- Ideal for use in production, warehousing and shipping.
- Wall holder for fixed installation included.
- 3 speeds by enclosed pressure switch.
- Vertical grade of 130° adjustable.
- Protective grille, housing, frame and base with double corrosion protection coating, colour white.
- Stable, tilt-free steel base, height adjustable.
- Rubber sheathed cable H07RN-F G 3 1.0 mm², length 2.5 m with protective contact plug IP54.
- Powerful Aluminum impeller.
- Protection class IP54 dust and splash-proof.

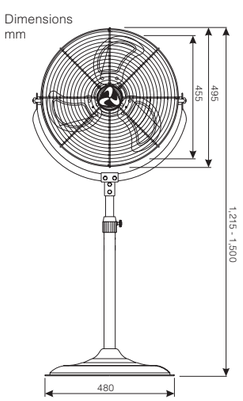
COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

Guaranteed Quality 3 YEARS CasaFan

IP54
dust-proof
splash-proof

2-POLE BREAKING

Dimensions mm



Grille Ø (mm)	495
Blade Ø (mm)	455
Power motor (W)	120
Voltage (V/Hz)	220-240/50
No. of speeds	2
Rev. (RPM)	1,250
Weight (kg)	14.8

SPEED2PROTECT SL

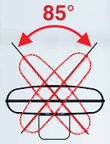
Product	Code No.	Housing/Grille Finish	Blade Finish
SPEED2PROTECT SL	**304514**	Double corrosion protection coating, white	Aluminum

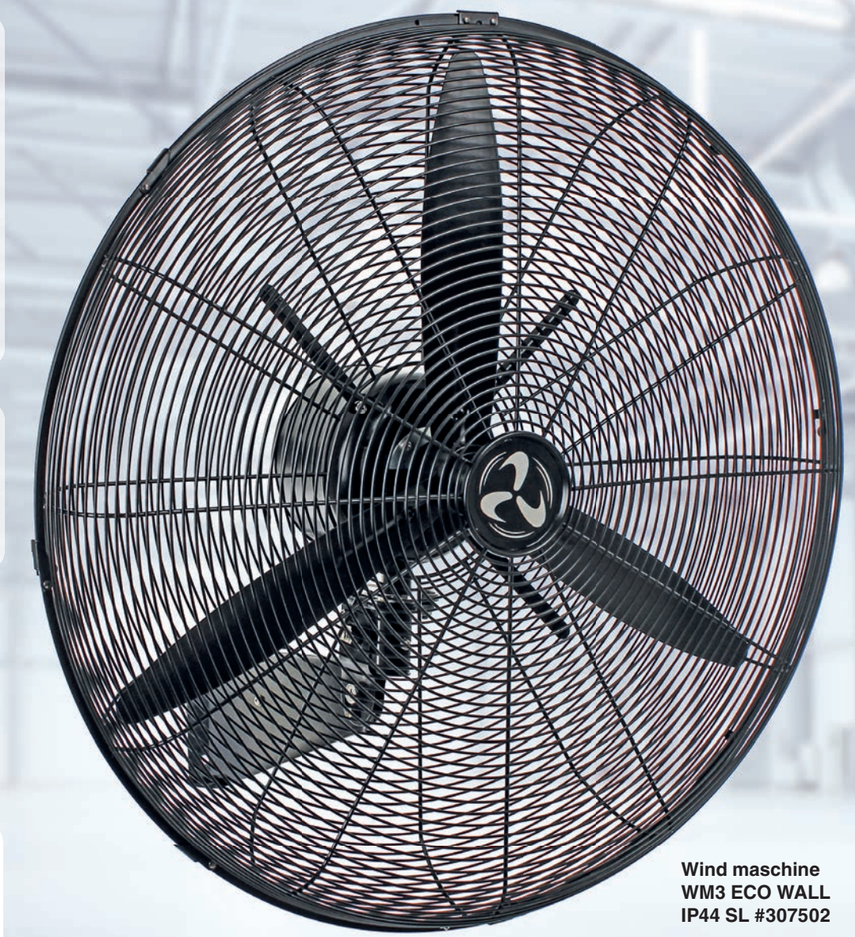
Often in hot weather and in rough, wet and dirty environmental conditions in production, workshop and workplace, simple fans from the hardware store are used to cool people and machines. These fans were developed for use in private households and provide insufficient protection against splashing water. The new SPEED2PROTECT helps out in this situation!

WM3 Eco Wall IP44 SL

Optional 5 speed transformer (**ETWZ 1,0 891020)** for regulation between a whisper quiet breeze and high performance.

Operation with easily accessible pull switch.

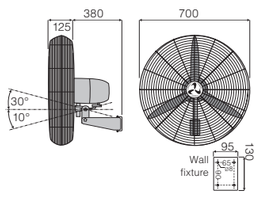




Wind maschine
WM3 ECO WALL
IP44 SL #307502

- Housing, protective grille, blade and wall fixture anti-corrosion primed and matt black lacquered.
- Heavy all-metal version.
- 3 speed levels selectable via encapsulated pressure switch on the motor.
- Mechanical, 85°-oscillation, disengageable.
- 3-blade impeller for optimum air flow rate.
- Fan head inclination vertically adjustable.
- Swivelling wall mount.
- Rubber sheathed cable H07RN-F G 3 1.0 mm², length 2.5 m with protective contact plug IP44.

Dimensions mm



Blade Ø	650
Power motor (W)	123
Voltage (V/Hz)	220-240/50
Height max. (mm)	700
No. of speeds	3
Rev. max. (RPM)	1,190
Oscillation (°)	85
Weight (kg)	13.3

COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

Guaranteed Quality 3 YEARS Casa Fan

IP44 splash-proof

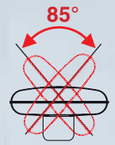
2-POLE BREAKING

WM3 Eco Wall IP44 SL

Product	Code No.	Housing/Blade Finish	Grille Finish
WM3 ECO Wall IP44 SL	**307502**	Matt black finished	Matt black

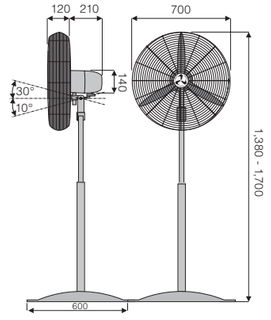
WM3 Eco Stand IP44 SL

Wind machine
WM3 ECO STAND
IP44 SL #307511



- Housing, protective grille, blade and stand anti-corrosion primed and matt black lacquered, chrome-plated rod.
- Heavy all-metal version.
- 3 speed levels selectable via encapsulated pressure switch on the motor.
- Mechanical, 85°-oscillation, disengageable.
- 3-blade impeller for optimum air flow rate.
- Fan head inclination vertically adjustable.
- Height adjustable up to 1.7 m.
- Rubber sheathed cable H05RN-F G 3 1.0 mm², length 2.5 m with protective contact plug IP 44.
- Black lacquered base for a stable stand.
- Speed can be reduced to approx. 300 rpm by means of optional 5 speed transformer (**ETWZ 1,0 #891020)**.

Dimensions mm



Blade Ø	650
Power motor (W)	123
Voltage (V/Hz)	220-240/50
Height max. (mm)	1,700
No. of speeds	3
Rev. max. (RPM)	1,190
Oscillation (°)	85
Weight (kg)	16.4

COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

Guaranteed Quality 3 YEARS Casa Fan

IP44 splash-proof

2-POLE BREAKING

WM3 Eco Stand IP44 SL

Product	Code No.	Housing/Blade Finish	Grille/Stand Finish
WM3 ECO Stand IP44 SL	**307511**	Matt black	Matt black

DF600/800 Eco IP54 SL

CasaFan SafeLine

DF800 ECO IP54 SL
#308095

Optional 5- speed transformer **ETWZ 1,0 #891020** for regulation in between a whisper quiet breeze and high performance available.

DF600 ECO IP54 SL
#306090

Wall mounting accessory
WHDF # 96080 please order separately

IP54
dust-proof
splash-proof

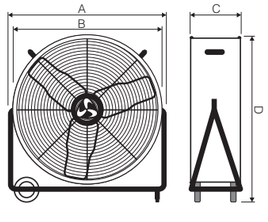
COMMERCIAL USE
Certified according to Machinery Directive 2006/42/EC Part 1 for commercial use

Guaranteed Quality 3 YEARS CasaFan

2-POLE BREAKING

- Drum fan series with high air volume.
- Ideal for use in production, warehouse and logistic areas.
- 3 speeds selectable by push button switch.
- Two-pole on/off switch.
- Vertical grade in 360° range adjustable.
- Housing, blades, protective grillle and tubular steel frame matt black finish.
- Wall mounting possible using accessory **WHDF #96080**.
- Stable, tilt-free tubular steel frame with transport wheels and rubber feet.
- Useful transport handles at the housing and cable coil at the back side of protective grille.
- High-performance Aluminum blade.
- Protection class IP54 dust and splash-proof.
- Rubber sheathed cable H07RN-F G 3 1.0 mm², length 2.5 m with protective contact plug IP54.

Dimensions mm



Model DF ECO	800	600
Grille Ø (mm)	800	650
Blade Ø (mm)	750	600
Dim. A/B	880/830	750/680
Dim. C/D	260/920	270/770
Power motor (W)	123	123
Voltage (V/Hz)	220-240/50	
No. of speeds	3	
Rev. (RPM)	870	870
Weight (kg)	19.3	16.3

DF600/800 Eco IP54 SL

Product	Code No.	Housing/Grille Finish	Blade Finish
DF800 ECO IP54 SL	**308095**	Matt black	Black
DF600 ECO IP54 SL	**306090**	Matt black	Black

Easily reduce heating costs by up to 30%

Thermal stratification

It takes a tremendous amount of energy to heat large, high rooms.

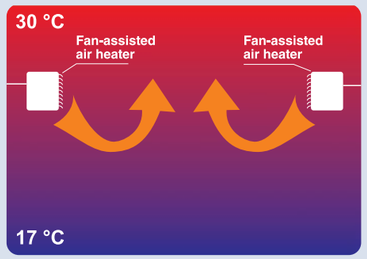
According to the laws of physics, hot air rises and forms a warm layer beneath the ceiling. Anyone who has ever stood on a ladder to work at ceiling level will know this effect. The higher a room is, the more heat gathers at the top.

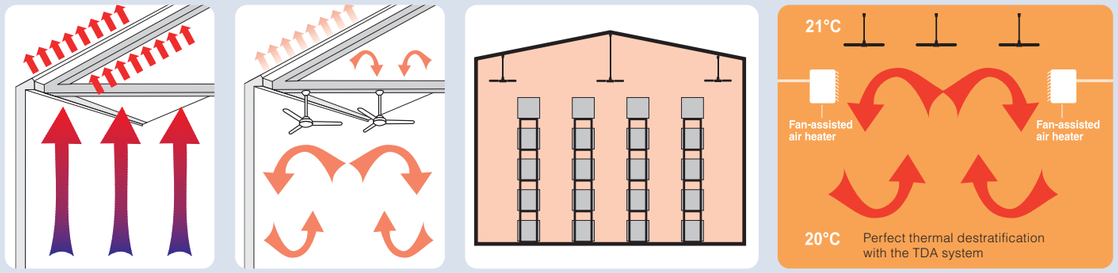
Warm air has a lower specific gravity than cold air. As a result, cold air collects at floor level and warm air near the ceiling.

Any incoming cold air immediately “falls“ to the floor and accumulates there. It is almost always the temperature around floor level that is relevant to the use of a room, because this is where people work and spend their time.

There are two ways of achieving an acceptable temperature at ground level; either wasting costly energy on extra heating, or inexpensively mixing the air inside the room so that the average temperature remains constant throughout.

The diagram below illustrates how thermal stratification (also known as horizontal layering) occurs and what effect it has. A tremendous amount of valuable and expensive heat “sits” unused below the ceiling, while the temperature in the occupied part of the room is too low. According to one rule of thumb, it takes around a 6 % increase in heating costs to raise the temperature by 1 °C in this situation.





Less heat loss

Roofs that remain free of snow in the winter are a sign of unnecessarily high heating costs. There are often thermal bridges in the roof due to poor or non-existent insulation, allowing most of the heat accumulated under the roof to escape. The TDA system recirculates this warm air back to where it is needed: the occupied part of the room where people work. This significantly lowers the temperature at roof level. And with the area below the roof considerably cooler, less heat can escape.

The right fans

Not every ceiling fan is suitable for use in high rooms. Traditional, decorative ceiling fans usually lack the necessary range. The air current “breaks off” far above the ground and flows back up to the ceiling. Although the thermal layers in the top half of the room are mixed, it fails to reach the occupied part of the room at floor level, which is where the heat is needed. The same thing happens with reverse operation, which is useful in low rooms but no longer effective for heat recirculation in rooms more than 2.6 m high. The specially shaped metal blades on TDA fans overcome natural buoyancy even in rooms with high ceilings, allowing the warm air to reach far down the room. With fine-tuning on the TDA-Control, the air speed can be adjusted to suit almost any room conditions and hall construction characteristic.

Universal application

The TDA system can be configured for many different purposes and situations. There are four sizes that can be combined as required, customisable drop rods in various lengths, and optional IPX5 fans with protection against water jets. Intermediate transformers can reduce air speed in different sections of the room, making it possible for the system to be used in almost any building environment.

Cooling in the summer

A manual setting on the TDA-Control allows the system to be operated by hand as a speed controller outside the heating season (summer mode), introducing a refreshing air flow into otherwise stuffy, overheated rooms.

This improves concentration and physical comfort, which also increases productivity.

A simple switch allows the control system to be changed back to winter mode.

The potential energy savings

To determine the potential energy savings, the average temperature difference between the ceiling and floor must first be calculated using the following (extremely simplified) formula for industrial buildings higher than 5 m:

The following variables must be inserted:

t_b = temperature at floor level

h = room height in metres

$$\Delta T = t_b \times (1 + 0{,}1\ h) - t_b$$

The ceiling temperature can be calculated as follows:

$$t_{ceiling} = t_b \times (1+0{,}1\ h)$$

The formula is based on ideal conditions and varies according to the level of wall and ceiling insulation, the size and position of windows, exposure to sunlight, and the size of doors and gates as well as how often and how long they are open. It is valid for ceiling heights up to approx. 9 m.

Example: A TDA hot air recirculation system is to be installed in a showroom with forced air heating, a ceiling height of 6 m and an average floor temperature of 17.5 °C. Using the formula above gives the following calculation: ceiling temperature = 17.5 × (1+(0.1 × 6)). This equates to a ceiling temperature of around 28 °C, which means a temperature difference of 10.5 °C. By recirculating this heat reserve, a temperature increase of around **4 °C** can be expected in the occupied part of the room!

The intelligent control system

The new intelligent control units in the TDA-Control series are equipped with two semiconductor temperature sensors. One of these is installed at ceiling level and one at floor level. Ordinary twisted pair cables up to 50 metres long are used for the wiring.

The unit measures the temperatures at ceiling and floor level up to 60 times per minute, calculates the temperature difference, and uses the extent of this difference to control the speed of the fans completely automatically. Once the thermal stratification is reduced and the temperature difference drops below a configurable threshold, the TDA-Control 6 automatically switches off the units.

It is possible to select the minimum temperature differences at which the fans should switch on (threshold), the minimum and maximum fan speed to prevent drafts, and continuous operation (e.g. for convection cooling in summer). These fully automatic controls perfectly regulate the system without the need for user intervention, which prevents unauthorised manipulating the control unit.

TDA-Control 6 D #983019

TDA-System

Number of fans

First, the selection diagram is used to determine the number of units per 1,000 m² and the size of the TDA units based on the room height. Starting on the vertical axis, find the relevant room height and move right until it intersects with the characteristic. From there, move vertically down to find the number of units required. In the colour transitions between two sizes, planners can choose between either size.

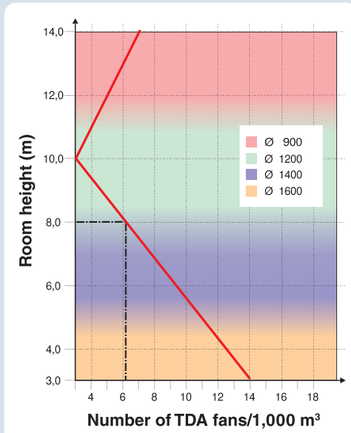
Fan spacing

For planning, it is necessary to find dimension D, the average distance between TDA units.

This is calculated using the following formula:

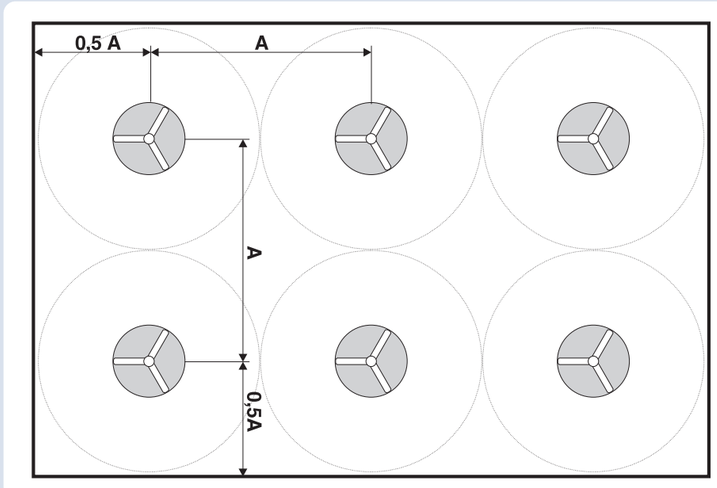
$$A\,(m) = \sqrt{\frac{\text{Area in m}^2}{\text{Number of units required per 1,000 m}^2}}$$

The distance between the fans and a cold outside wall is 1/2 A to compensate for the cooling off hot air in this area and the resulting reduction in buoyancy.



Selection diagram for number of units/1,000 m²: Depending on the room height (vertical axis), move horizontally right until the point of intersection with the red characteristic, then vertically down. The horizontal axis shows the number of TDA fans required per 1,000m².

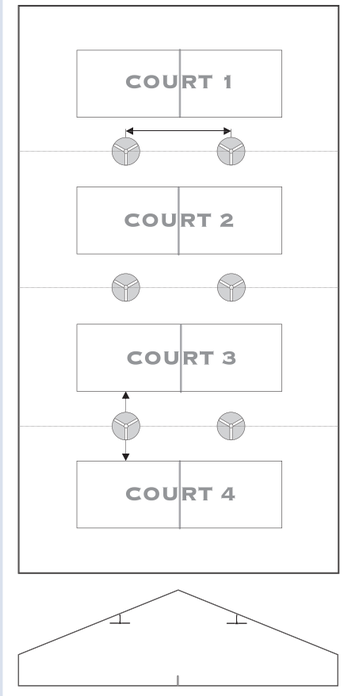
The fan size is indicated by the background colour at the point of intersection with the red line.



Indoor tennis courts

Particular layout rules apply here. In halls used for tennis and badminton, fans should ideally be installed between the courts to avoid visually distracting the players. Two units should be installed 5 to 8 m away from each side of the net. The average air speed at approx. 1 m high should be set to between 0.15 and 0.40 m/s, depending on the players' sensitivity (maximum speed limited on TDA-Control).

Two TDA 1200 I units should be included for a hall with two courts, four units for a three-court hall, six for a four-court hall, etc.



Example

A storage hall with a length of 41 m and a width of 24 m is to be fitted with a TDA system. The hall is 8 m high.

The table is used to determine that approx. six units per 1,000 m² are needed (dotted line). The selection point lies between the blue and the green ranges; in this case the planner can choose between the TDA 1200 I and TDA 1400 I models.

The actual size of the hall is 984 m²; i.e.:

$$\frac{984}{1.000} \times 6 \approx 6 \text{ fans}$$

In our example, the average distance A is calculated as follows:

$$\sqrt{\frac{984}{6}} = 12{,}8 \text{ m}$$

This means that, in our example, six TDA 1400 I or TDA 1200 I units are needed for optimum warm air recirculation and to ensure sufficient ventilation.

The average distance A is 12.8 m.

This means that three fans are needed along the length of the hall (41 m) and two across its width (24 m).

The distance to each external (cold) wall is 1/2 A = 6.4 m.

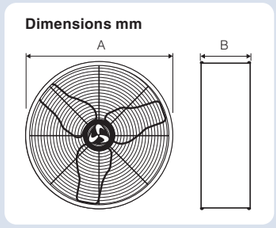
TDA-Highstream

The TDA-Highstream 600 and 800 models were especially developed for areas that require protection against contact. These units feature lower energy consumption with top air flow and maximum range.

Suspended on chains (supplied), they can reach floor level even at great heights with a high ΔT. The maximum speed limit on the TDA-Control unit prevents drafts.

And neither damp nor dirt are a problem: models in the TDA-Highstream range are resistant to both, with protection class IP44.

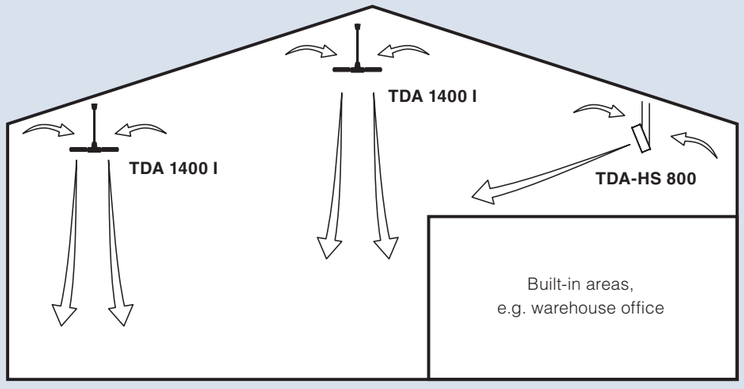
TDA Highstream 800



Product	Code No.	Power (W)	Air delivery* (m³/h)	Dim. A (mm)	Dim. B (mm)	Weight (kg)	Vertical Range (m)
TDA-HS 600	**9306080**	123	13.000	680	270	10,9	11
TDA-HS 800	**9307580**	123	15.650	830	270	13,8	16

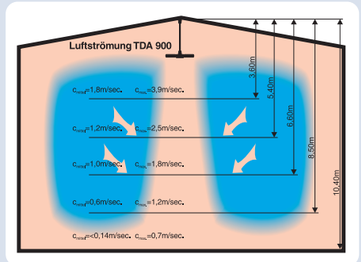
* measured according to IEC 60879-1986-10

Unlike TDA fans, units in the TDA-Highstream series also allow for installation with targeted, e.g. diagonal airflow. In this case, mounting on chains is done at an angle and the air is guided diagonally or horizontally. This allows heat layers to be used that normal TDA fans cannot recirculate to the occupied areas of the room. To prevent drafts, an intermediate transformer type **ETW 1.0 #892032** should be planned between the TDA-Control and TDA-Highstream. The appropriate operating level is chosen by the fitter. Since drum fans are always louder than ceiling fans due to their higher speeds, the intermediate transformer also serves to adjust the volume of the overall TDA system.



Air flow shown for TDA 900

$C_{average}$ = average air speed
$C_{max.}$ = maximum air speed



Regardless of the heating method, the TDA system is fully compatible with existing thermostat-controlled heating systems and a useful addition to these without the need for extra wiring or complicated modifications.

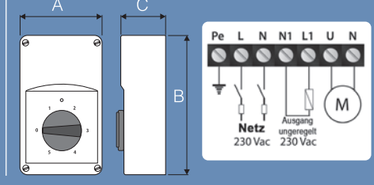
The heating system thermostat "feels" the temperature rise in the occupied part of the room and automatically reduces the heat output. This ensures that the desired savings are achieved instantly. The TDA system also ensures that adequate ventilation is provided.

Reversing?

Unlike with lower ceilings, reversing, i.e. running in reverse for heat recirculation, makes little sense in high halls. From a room height of approx. 5 m, the warm air in reverse operation no longer reaches the floor due to its lower specific weight.

Depending on the hall height, select the appropriate fan series TDA-I (without reversing) or the series TDA-E (with reversing).

5-speed transformers for hum free control of several ceiling fans. Industrial housing, colour light grey RAL 7035, protection class IP54, (0-80-110-140-170/190-230 V), control lamp, max. ambient temperature 35° C.



ETW: 5-speed transformers for hum free control of one or several ceiling fans.

Product	Code No.	Amp. (max.)	A	B	C
ETW 1.0	**892032**	1.0	84	160	88
ETW 1.5	**892021**	1.5	115	205	100
ETW 2.2	**892022**	2.2	115	205	100
ETW 3.5	**892033**	3.5	170	255	140
ETW 5.0	**892018**	5.0	170	255	140
ETW 7.5	**892019**	7.5	100	305	140
ETW 10.0	**892038**	10.0	300	325	185

TDA-System

TDA control units

TDA-Control 6:
Basic unit with analogue setting, reverse phase control.

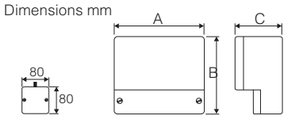
TDA-Control 6 D:
Digital programmable version of TDA-Control 6, with display screen.

TDA-Control x T:
Version of TDA-Control 6 with a 7-step transformer. For noise-sensitive areas.

TDA-Control	Code No.	A (max.)	Anz. Vent. (max.)
6	**983009**	6,0	15
1,5 T	**983909**	1,5	4
2,5 T	**983910**	2,5	7
5,0 T	**983911**	5,0	13
6 D	**983019**	6,0	15

TDA-Control x,x T

Dimensions mm



Product	A	B	C
TDA-Control 6/6D	165	159	93
TDA-Control x,x T	255	210	135

Functions: The unit determines the temperature difference (ΔT) between floor level and ceiling level using two separate semiconductor sensors (connected via ordinary twisted-pair cables).

Using the configured ΔT set point (1-10 °K) the fans are regulated smoothly/at seven levels between the preset minimum and maximum speed. If the configured ΔT is exceeded by 3 °K, the unit switches on the fans. The higher the ΔT, the higher the fan speed. When the ΔT is smaller than the configured set point, the fans will switch off. Thermal stratification is prevented, and the fans are only operated when are really needed.

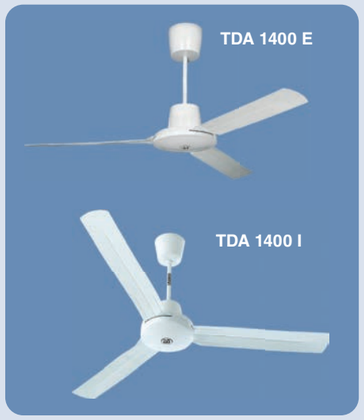
Universal application

Ceiling sensor installation: at the highest point of the hall, in the air current.

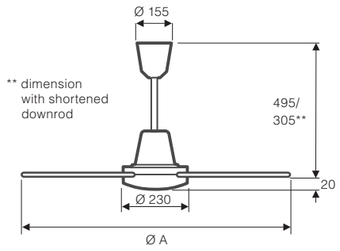
Floor sensor installation: sideways, approx. 10 cm above the floor, in the air current. Do not install behind curtains or shelves. Do not mount on metal beams (thermal bridge).

Sensor cables: up to 50 m long 2 × 1.5 mm². up to 150 m long 2 × 2.5 mm².

Do not use any free wires from voltage-carrying cables – always run separately.



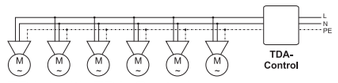
Dimensions mm



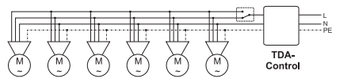
Product	Code No.	W	A (mm)	B (mm)
TDA 900 I	**961701**	70	0,33	920
TDA 1200 I	**961711**	70	0,33	1220
TDA 1400 I	**961721**	72	0,33	1420
TDA 1600 I	**961731**	74	0,33	1520
TDAX 1400 I	**617429**	72	0,33	1420

Product	Code No.	W	A (mm)	B (mm)
TDA 900 E	**961750**	70	0,33	920
TDA 1200 E	**961751**	72	0,33	1220
TDA 1400 E	**961752**	74	0,33	1420
TDA 1600 E	**961753**	78	0,33	1620

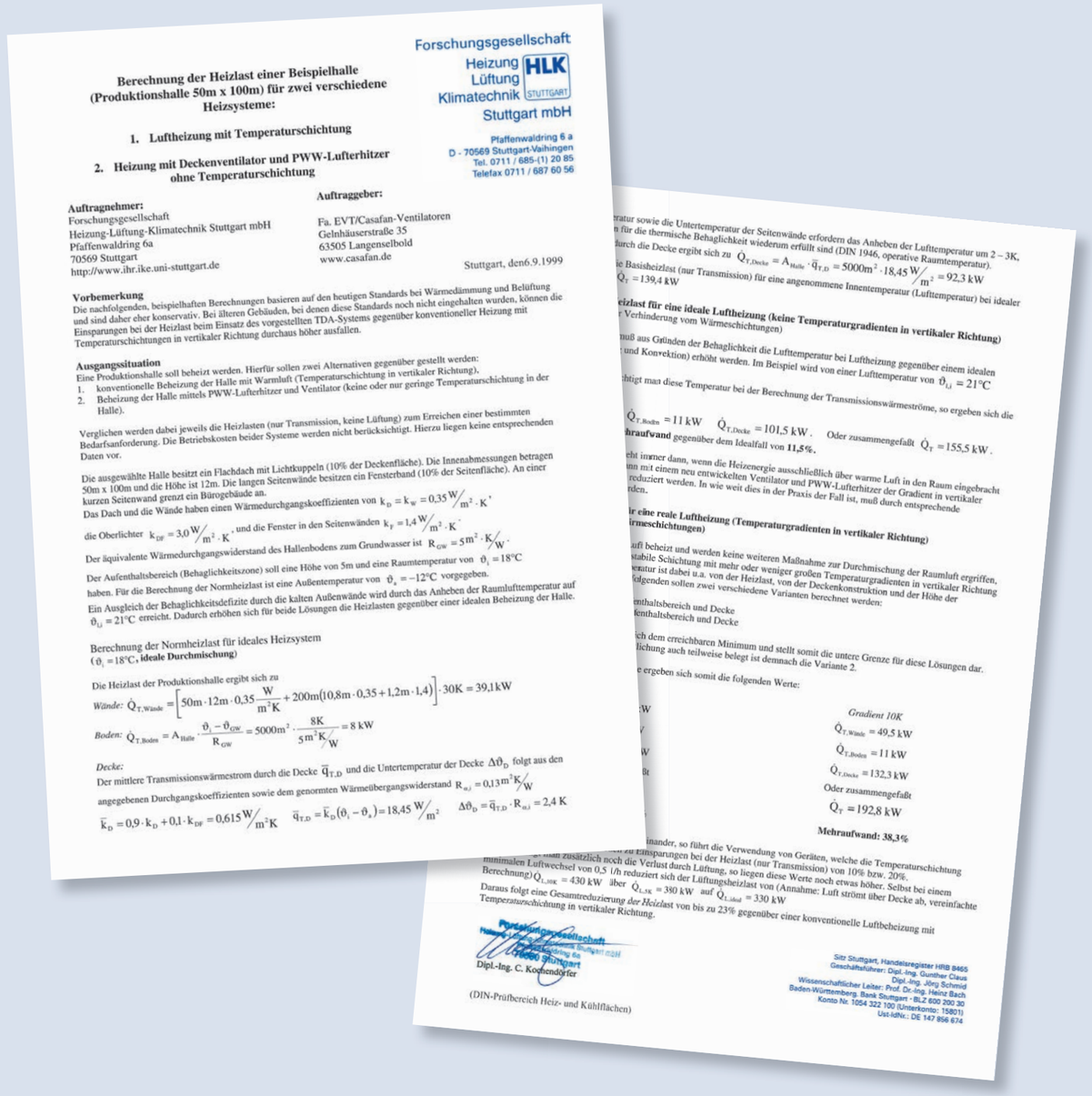
TDA-Control wiring diagram



TDA-I with TDA-Control



TDA-E with reversing and TDA-Control



Forschungsgesellschaft Heizung Lüftung Klimatechnik HLK STUTTGART Stuttgart mbH

Pfaffenwaldring 6 a
D - 70569 Stuttgart-Vaihingen
Tel. 0711 / 685-(1) 20 85
Telefax 0711 / 687 60 56

Berechnung der Heizlast einer Beispielhalle (Produktionshalle 50m x 100m) für zwei verschiedene Heizsysteme:

1. **Luftheizung mit Temperaturschichtung**
2. **Heizung mit Deckenventilator und PWW-Lufterhitzer ohne Temperaturschichtung**

Auftragnehmer:
Forschungsgesellschaft
Heizung-Lüftung-Klimatechnik Stuttgart mbH
Pfaffenwaldring 6a
70569 Stuttgart
http://www.ihr.ike.uni-stuttgart.de

Auftraggeber:
Fa. EVT/Casafan-Ventilatoren
Gelnhäuserstraße 35
63505 Langenselbold
www.casafan.de

Stuttgart, den6.9.1999

Vorbemerkung
Die nachfolgenden, beispielhaften Berechnungen basieren auf den heutigen Standards bei Wärmedämmung und Belüftung und sind daher eher konservativ. Bei älteren Gebäuden, bei denen diese Standards noch nicht eingehalten wurden, können die Einsparungen bei der Heizlast beim Einsatz des vorgestellten TDA-Systems gegenüber konventioneller Heizung mit Temperaturschichtungen in vertikaler Richtung durchaus höher ausfallen.

Ausgangssituation
Eine Produktionshalle soll beheizt werden. Hierfür sollen zwei Alternativen gegenüber gestellt werden:
1. konventionelle Beheizung der Halle mit Warmluft (Temperaturschichtung in vertikaler Richtung),
2. Beheizung der Halle mittels PWW-Lufterhitzer und Ventilator (keine oder nur geringe Temperaturschichtung in der Halle).

Verglichen werden dabei jeweils die Heizlasten (nur Transmission, keine Lüftung) zum Erreichen einer bestimmten Bedarfsanforderung. Die Betriebskosten beider Systeme werden nicht berücksichtigt. Hierzu liegen keine entsprechenden Daten vor.

Die ausgewählte Halle besitzt ein Flachdach mit Lichtkuppeln (10% der Deckenfläche). Die Innenabmessungen betragen 50m x 100m und die Höhe ist 12m. Die langen Seitenwände besitzen ein Fensterband (10% der Seitenfläche). An einer kurzen Seitenwand grenzt ein Bürogebäude an.

Das Dach und die Wände haben einen Wärmedurchgangskoeffizienten von $k_D = k_W = 0{,}35\ W/m^2 \cdot K$,

die Oberlichter $k_{DF} = 3{,}0\ W/m^2 \cdot K$, und die Fenster in den Seitenwänden $k_F = 1{,}4\ W/m^2 \cdot K$.

Der äquivalente Wärmedurchgangswiderstand des Hallenbodens zum Grundwasser ist $R_{GW} = 5\ m^2 \cdot K/W$.

Der Aufenthaltsbereich (Behaglichkeitszone) soll eine Höhe von 5m und eine Raumtemperatur von $\vartheta_i = 18°C$ haben. Für die Berechnung der Normheizlast ist eine Außentemperatur von $\vartheta_a = -12°C$ vorgegeben.

Ein Ausgleich der Behaglichkeitsdefizite durch die kalten Außenwände wird durch das Anheben der Raumlufttemperatur auf $\vartheta_{Li} = 21°C$ erreicht. Dadurch erhöhen sich für beide Lösungen die Heizlasten gegenüber einer idealen Beheizung der Halle.

Berechnung der Normheizlast für ideales Heizsystem
($\vartheta_i = 18°C$, **ideale Durchmischung**)

Die Heizlast der Produktionshalle ergibt sich zu

Wände: $\dot{Q}_{T,Wände} = \left[50m \cdot 12m \cdot 0{,}35 \frac{W}{m^2K} + 200m(10{,}8m \cdot 0{,}35 + 1{,}2m \cdot 1{,}4)\right] \cdot 30K = 39{,}1\,kW$

Boden: $\dot{Q}_{T,Boden} = A_{Halle} \cdot \frac{\vartheta_i - \vartheta_{GW}}{R_{GW}} = 5000m^2 \cdot \frac{8K}{5m^2K/W} = 8\,kW$

Decke:
Der mittlere Transmissionswärmestrom durch die Decke $\overline{q}_{T,D}$ und die Untertemperatur der Decke $\Delta\vartheta_D$ folgt aus den angegebenen Durchgangskoeffizienten sowie dem genormten Wärmeübergangswiderstand $R_{si} = 0{,}13\ m^2K/W$

$\overline{k}_D = 0{,}9 \cdot k_D + 0{,}1 \cdot k_{DF} = 0{,}615\ W/m^2K$ $\quad \overline{q}_{T,D} = \overline{k}_D(\vartheta_i - \vartheta_a) = 18{,}45\ W/m^2$ $\quad \Delta\vartheta_D = \overline{q}_{T,D} \cdot R_{si} = 2{,}4\,K$

...ratur sowie die Untertemperatur der Seitenwände erfordern das Anheben der Lufttemperatur um 2 ~ 3K, ...n für die thermische Behaglichkeit wiederum erfüllt sind (DIN 1946, operative Raumtemperatur).
...durch die Decke ergibt sich zu $\dot{Q}_{T,Decke} = A_{Halle} \cdot \overline{q}_{T,D} = 5000m^2 \cdot 18{,}45\ W/m^2 = 92{,}3\,kW$
...e Basisheizlast (nur Transmission) für eine angenommene Innentemperatur (Lufttemperatur) bei idealer ...$\dot{Q}_T = 139{,}4\,kW$

...eizlast für eine ideale Luftheizung (keine Temperaturgradienten in vertikaler Richtung)
...r Verhinderung vom Wärmeschichtungen)
...muß aus Gründen der Behaglichkeit die Lufttemperatur bei Luftheizung gegenüber einem idealen ...und Konvektion) erhöht werden. Im Beispiel wird von einer Lufttemperatur von $\vartheta_{Li} = 21°C$
...htigt man diese Temperatur bei der Berechnung der Transmissionswärmeströme, so ergeben sich die

$\dot{Q}_{T,Boden} = 11\,kW$ $\quad \dot{Q}_{T,Decke} = 101{,}5\,kW$. Oder zusammengefaßt $\dot{Q}_T = 155{,}5\,kW$.

...braufwand gegenüber dem Idealfall von **11,5%**.

...eht immer dann, wenn die Heizenergie ausschließlich über warme Luft in den Raum eingebracht ...nn mit einem neu entwickelten Ventilator und PWW-Lufterhitzer der Gradient in vertikaler ...reduziert werden. In wie weit dies in der Praxis der Fall ist, muß durch entsprechende ...rden.

...r eine reale Luftheizung (Temperaturgradienten in vertikaler Richtung)
...rmeschichtungen)
...uft beheizt und werden keine weiteren Maßnahme zur Durchmischung der Raumluft ergriffen, ...stabile Schichtung mit mehr oder weniger großen Temperaturgradienten in vertikaler Richtung ...eratur ist dabei u.a. von der Heizlast, von der Deckenkonstruktion und der Höhe der ...olgenden sollen zwei verschiedene Varianten berechnet werden:

...enthaltsbereich und Decke
...enthaltsbereich und Decke
...ich dem erreichbaren Minimum und stellt somit die untere Grenze für diese Lösungen dar. ...lichung auch teilweise belegt ist demnach die Variante 2.
...e ergeben sich somit die folgenden Werte:

...W

Gradient 10K
$\dot{Q}_{T,Wände} = 49{,}5\,kW$
$\dot{Q}_{T,Boden} = 11\,kW$
$\dot{Q}_{T,Decke} = 132{,}3\,kW$
Oder zusammengefaßt
$\dot{Q}_T = 192{,}8\,kW$

Mehraufwand: 38,3%

...inander, so führt die Verwendung von Geräten, welche die Temperaturschichtung ...n zusätzlich noch die Verlust durch Lüftung, so liegen diese Werte noch etwas höher. Selbst bei einem minimalen Luftwechsel von 0,5 1/h reduziert sich der Lüftungsheizlast von (Annahme: Luft strömt über Decke ab, vereinfachte Berechnung) $\dot{Q}_{L,30K} = 430\,kW$ über $\dot{Q}_{L,5K} = 390\,kW$ auf $\dot{Q}_{L,ideal} = 330\,kW$
Daraus folgt eine Gesamtreduzierung der Heizlast von bis zu 23% gegenüber einer konventionelle Luftbeheizung mit Temperaturschichtung in vertikaler Richtung.

Dipl.-Ing. C. Kondendorfer

(DIN-Prüfbereich Heiz- und Kühlflächen)

Sitz Stuttgart, Handelsregister HRB 8465
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Baden-Württemberg. Bank Stuttgart - BLZ 600 200 30
Konto Nr. 1054 322 100 (Unterkonto: 15801)
Ust-IdNr.: DE 147 856 674

TDA fans

Elegant Italian design. Heavy, ball bearing motor with thermal overload protection and start capacitor.

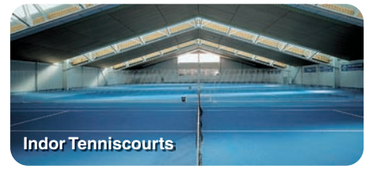
Aluminium die-cast motor housing to reduce electromagnetic resonance. Three aerodynamically designed metal blades with a large surface area for maximum air flow and range. 15 years motor guarantee. Scratch-proof epoxy resin coating in light grey. Vibration reducing suspension fittings.

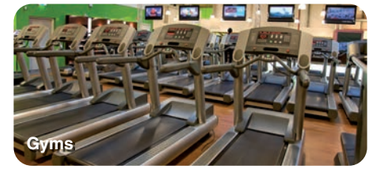
Downrods for 495 mm ceiling gap can be shortened to any intermediate dimension. TDAX 1400 I with protection class IPX5.

Longer downrods with 100 cm for better airflow in high rooms are available as optional accessories.

In a prototype heat requirement analysis by the **Forschungsgesellschaft Heizung Lüftung Klima (FG HLK Stuttgart mbH)** at the University of Stuttgart, the required heating load was calculated for two identical halls with and without thermal stratification. In the hall without thermal stratification, **the heating load is 23 % lower** than in a hall without a system to reduce thermal stratification. You can find the text of the calculation beside. In the prototype calculation, the reduction in heating load relates to a hall built to the latest insulation standards. In older buildings constructed before current heat insulation regulations came into effect, **the savings can be much higher** (see the preliminary note to the calculation).

Applications:





Nordik SuperBlade HVLS

HVLS (High Volume Low Speed)

HVLS (High Volume Low Speed) ideal for cooling (in summer) and heat recirculation (in winter) in high rooms

COMMERCIAL USE
Approved according Machinery Directive 2006/42/EC Part 1 for commercial use

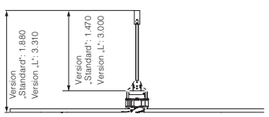
Perfect for the following applications:

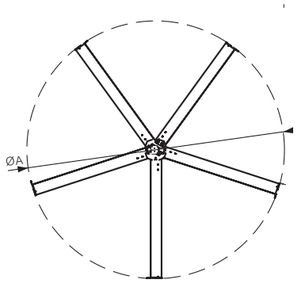
- Airports
- Agriculture
- Breweries
- Industry/Commercial
- Production
- Warehouse facilities/ distribution
- Event facilities
- Fitness facilities
- And many more

IP65
Splash proof protection
insensitive to water, humidity, dust and dirt

- Available in 5 sizes from 3 to 7 m diameter
- Uniform air flow over large areas
- Low speed and noise
- For maximum thermal comfort of users in summer and winter

Dimensions (mm)





The heart: The brushless EC-Motor

- Power evenly distributed over the entire speed range.
- No maintenance and error-prone gearbox as with conventional AC HVLS fans.
- Brushless, maintenance-free motor with integrated inverter.
- Energy savings of up to 40% compared to conventional AC motors.
- Problem-free control by means of 0 - 10 V DC control signal. Optionally, control via building management system with Modbus protocol (RS 485).
- Large selection of control units with temperature, temperature difference, air velocity or humidity sensors, suitable for every requirement.
- Flexible operation with single-phase AC 230 V~50 Hz or three-phase AC 415 V~50 Hz.
- With IP65 protection and a motor that can withstand ambient temperatures from -20° C to +50° C, the Nordik HVLS SuperBlade can even be used in dusty and wet environments without any problems.

15 YEARS LIMITED MOTOR WARRANTY

WINTER/ SUMMER

in 5 sizes with Ø 300 to 700 cm available!

MAX. 2,000 m²

Nordik SUPERBLADE HVLS

Product	Airflow (m³/h)	Power max. (kW)	Current max. (A)	Size (m)	Min. Speed (rmp)	Max. Speed (rmp)
300/120" E	280.000	0,725	2,17	3	6	150
400/160" E	330.000	0,370	2,31	4	6	80
500/200"	530.000	0,850	1,67	5	10	80
600/240"	600.000	1,100	2,69	6	10	65
700/280"	650.000	0,525	1,35	7	5	38
700/280" S	850.000	0,665	1,65	7	5	50

Sound pressure dB(A) (LP -3m)	Min. distance Blade - Floor (m)	Sugg. distance between 2 fans Axis - Axis (m)	Weight (kg)
< 42,5	3,0	9	85/95
< 37,5	3,2	12	91/101
< 27,5	3,6	15	128/137
< 27,5	4,0	18	136/145
< 27,5	4,8	21	144/153
< 27,5	4,8	21	155/164

Accessories SuperBlade HVLS

Product	Code No.	Description	
Vort T	21137	Control unit for up to 10 Nordik SuperBlade HVLS depending on temperature or air speed.	
TDA Control	983009	Temperature difference control with 0-10V interface for fully automatic control of the Nordik SuperBlade HVLS in Winter. Switchable for manual control in summer. Including floor and ceiling sensor.	
POT	12828	Manual control for up to 10 Nordik Super-Blade. Both surface and flush mounting possible.	
WP	21197	Optional anemometer for Vort T to control the Nordik SuperBlade HLVS depending on the air velocity.	
NHVLS-RD	21615	Suspension tie rod kit for Nordik Superblade HVLS	
NHVLS-RD-L	21136		
USB C	21198	Modbus-USB converter for controlling the Nordik SuperBlade HVLS via PC in connection with the Vort T control unit.	

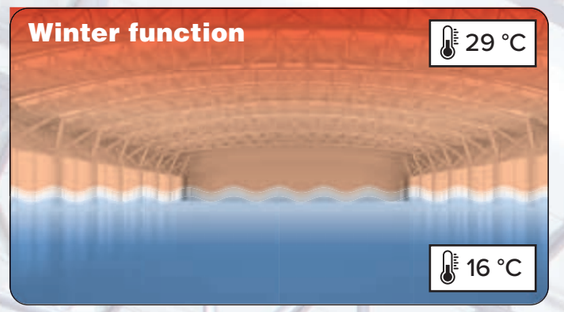
Optimal blade profile:
Aerodynamic profile:
Made of extruded aluminium profiles, with winglets that significantly reduce turbulence, pressure loss and noise at the wingtips.

Central control:
Automatic adjustment of the speed of the NORDIK SUPERBLADE ceiling fans to achieve or maintain temperature or air speed. Problem-free integration into the building management system due to open Modbus interface.

Unprecedented performance:
Extremely high air volumes and uniform air flow at low speed (low noise), up to 850,000 m3/h.

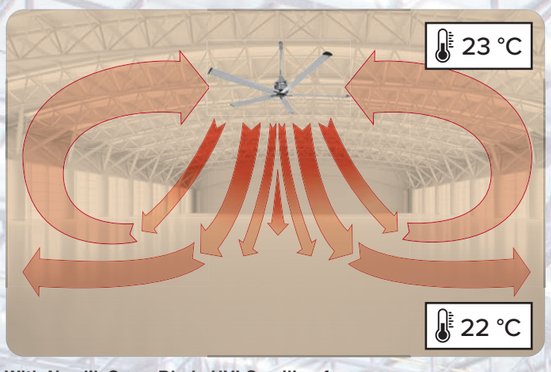
EC Motor:
With integrated inverter, equipped with thermal overload protection, state-of-the-art, energy-saving technology, with very high degree of protection (IP65) against dust and water.

Nordik SuperBlade HVLS



Without Nordik SuperBlade HVLS ceilng fans:
The heated air rises upwards under the hall ceiling and collects there, while the cold air sinks downwards. A lot of heating energy and costs have to be applied to bring the temperature on the floor to the desired level.

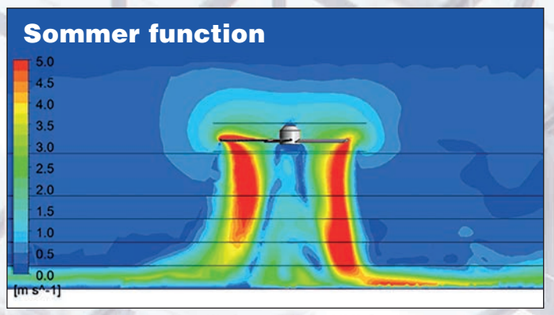
Warm air has a lower specific weight than cold air. For this reason, heated air always accumulates beneath the hall ceiling, while cold air sinks to the floor. The Nordik SuperBlade HVLS fans bring this otherwise lost heat draught-free to where it is needed: to the occupied area on the floor. The lower temperature at the ceiling reduces transmission losses. The heat is distributed more quickly and evenly throughout the hall. This can save up to 30% of heating costs.



With Nordik SuperBlade HVLS ceiling fans:
The warm air accumulated under the ceiling is led down slowly and draught-free. The temperature in the hall is balanced. Without additional heating costs, the temperature on the floor is increased.

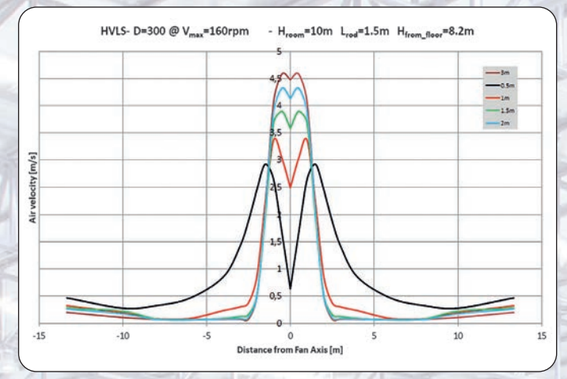
In the winter function (destratification), slowly running Nordik SupeBlade HVLS fans bring the warm air accumulated under the ceiling to where it is needed: downwards, back into the occupied area. It is important that the air speed is not too high, otherwise the pleasant effect of the “warm air shower” can quickly turn into the opposite and be perceived as a draught. The entire occupied area quickly becomes evenly warm, preheating times are reduced and cold and damp areas are avoided.

In combination with a control system with floor and ceiling sensors, the temperature difference between ceiling and floor is permanently determined and the speed of the fans is controlled accordingly. In addition, they only run when the temperature difference between ceiling and floor is above the set threshold.



The simulation of a Nordik Superblade HVLS 300:
The air flows vertically downwards and then flows off vertically to the side. Depending on the desired air speed, the size and number of fans are selected.

High temperatures and humidity worsen the working environment and have been shown to reduce employee efficiency. Concentration and productivity decrease with increasing temperature and humidity. Air conditioning systems to reduce room temperature are expensive to purchase, installation and maintain in commercial and industrial settings due to the large volume of space involved.



Higher air velocities are required for the summer function than in winter. The effect of adiabatic cooling lowers the surface temperature by evaporating moisture on the skin and extracts heat from the body. This reduces the “felt” temperature for people in a warm room by up to 6° C, depending on the air humidity and speed. Depending on the temperature and humidity, the cooling effect starts at an air speed of about 0.5 m/s, depending on the activity. Unlike in many tropical countries, the air speed in our temperate central European latitudes should not exceed 1.3 m/s at shoulder height in order to exclude a negative influence on the health of employees. The setting of the actual air speed in operation should always be made according to the personal feeling of the employees.

The Nordik SuperBlade fans generate a uniform vertical air flow under the radius of the blades, which is deflected into a horizontal flow to the outside until it then flows back over the fan.

Drying:

Unwanted moisture damages the health of employees, the building fabric and, last but not least, stored products and equipment. The example of breweries shows that bacterial and mould growth can become problematic during storage lasting several weeks until bottling. Due to the low temperatures during storage, a lot of condensate collects on the storage vessels, the pipes and the cold walls. The usual steam cleaning and introduction of warmer outside air introduces even more moisture, further fuelling the growth of bacteria and mould.

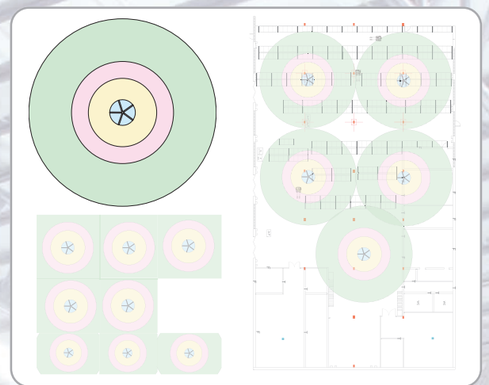
A permanent, uniform air movement generated by Nordik SuperBlade HVLS fans ensures optimal process conditions and reduces condensation and prevents the formation of mould. In combination with air dehumidification systems, this creates optimal process conditions, shortens cleaning times and extends cleaning intervals.

Planning principles:

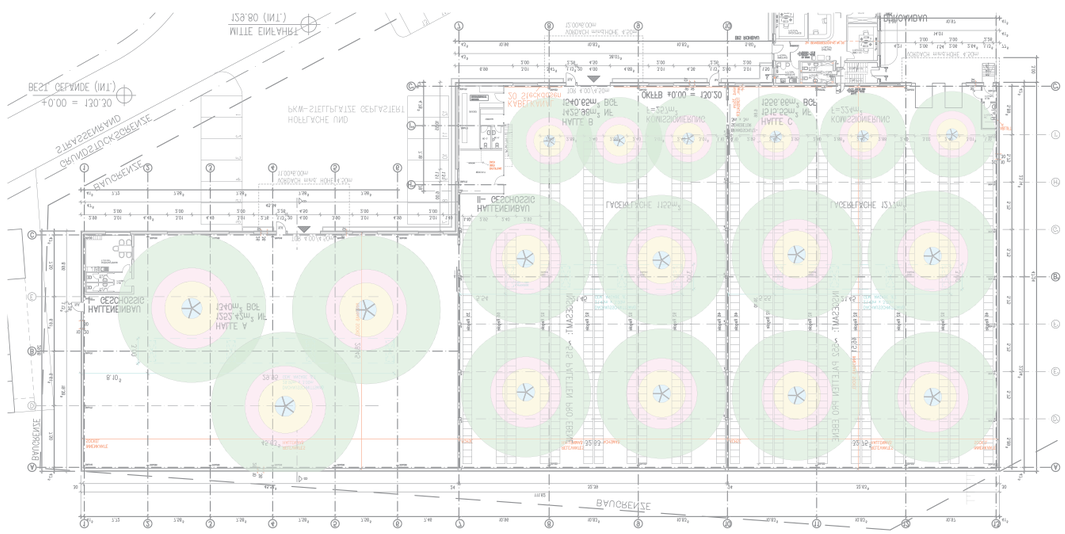
- The larger the diameter, the more air the Nordik SuperBlade HVLS fans move.
- As the diameter increases, the effective area in the occupied zone on the floor increases at the same speed.
- The higher the speed of the Nordik SuperBlade HVLS fans, the higher the air flow rate.
- Nordik SuperBlade HVLS fans with a large diameter ideally cover large areas in halls. Smaller units cover gaps in between or are used in smaller hall areas.
- Outside the blade radius, the vertical air movement changes to a horizontal air movement. Transverse air flows are obstructed by fixtures such as partition walls, high racking and high machinery. These create turbulence that can affect the reach and effective area of Nordik SuperBlade HVLS fans.
- There should be a free area above and to the side of the fan without additional fixtures so that the air flowing in is not obstructed.

In the table below you will find the recommended area specification per size depending on the desired application.

Product	Code No. Version Standard	Code No. Version L	Ø A (mm)	Hard physical work*		light physical work*		Winter function/ Destratifikation*	
				Ø m	m²	Ø m	m²	Ø m	m²
SuperBlade 300/120“ E	61086	61087	3.000	4,1	14	5	20	33	854
SuperBlade 400/160“ E	61096	61097	4.000	7,2	41	9	63	39	1.193
SuperBlade 500/200“	61082	61092	5.000	12,3	119	23	415	42	1.384
SuperBlade 600/240“	61083	61093	6.000	16,8	222	30	706	45	1.599
SuperBlade 700/280“	61084	61094	7.000	20,9	343	34	907	48	1.808
SuperBlade 700/280“ S	61076	61077	7.000	22,6	400	38	1.133	51	2.041



* Effectiveness can change depending on rotation speed and distance from the floor.



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