primaklima

Product catalogue 2023

PROFESSIONAL

Air Filtration & Ventilation

Founded in 1996 in Bretten/Germany, primaklima is now a medium-sized company that develops and manufactures products for air filtration, ventilation and lighting. Now based in Radnice/Czech Republic, near the German border, the company has been relied on by customers all over the world for around 26 years, due to their excellent experience with the high quality and reliability of primaklima products.

The continuous development of our products is our highest aspiration. The desires and requirements of our customers are at the centre of this. Continuous tests and constantly optimised design, as well as the use of first-class materials always guarantee the highest quality. In the case of fans, for example, we only use energy-saving motor impellers with the highest efficiencies from renowned German and Swiss manufacturers, which in turn have fulfilled the minimum efficiency requirements of the ErP Directive for a long time. Sustainability will continue to have top priority in the future, and so each of our new products outperforms its predecessor both economically and ecologically. We pay attention to the best possible environmental compatibility. For example, our activated carbon filters are not only extremely durable but also almost 100% recyclable.

Primaklima, with around 60 employees, exports goods to 40 countries worldwide, such as: Brazil, Chile, Israel, Japan, Latvia, New Zealand, Russia, Switzerland, Ukraine and the entire EU.

primaklima

PRIMA KLIMA TRADING CZ, s.r.o.
Zámostí 594, 338 28 Radnice
Czech Republic

sales@primaklima.com

+420 371 795 340

primaklima.com

instagram.com/prima_klima

youtube.com/c/primaklima-horticulture

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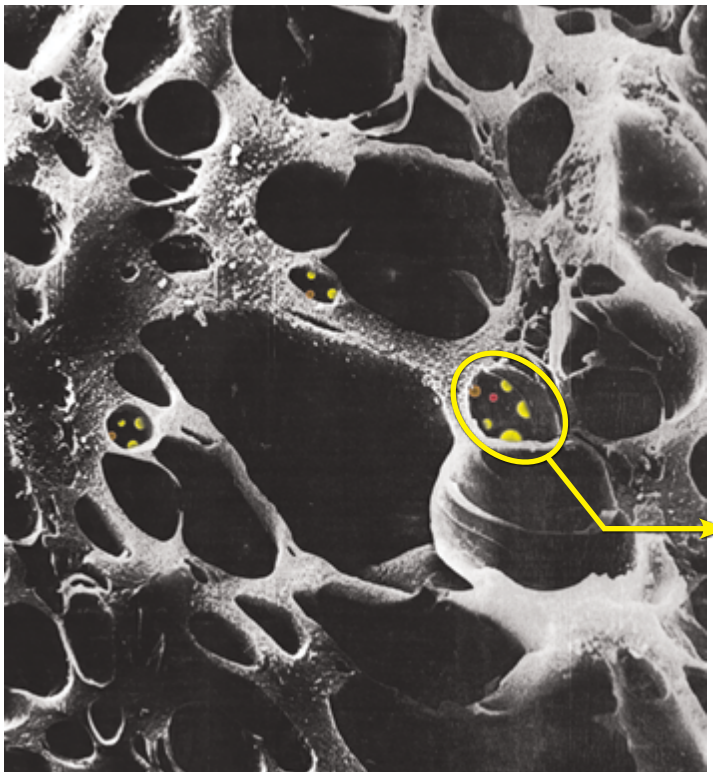
Activated Carbon Filter: Production and Function

Activated carbon production

Activated carbon can be obtained from various materials such as hard coal (anthracite coal), coconut shells, brown coal and wood. For cost reasons, activated carbon is usually manufactured using the steam activation process. During this process, the raw material is activated by hot steam under vacuum in a furnace at a temperature of approximately 900 to 1100°C. The absence of oxygen prevents the material from burning. Instead, the heat causes the internal surface of the material to increase significantly. Activated carbon produced in this way can then be further processed for various purposes.



Detail of the internal structure of activated carbon.

How does the activated carbon filter work?

Depending on the carbon type used, the activated carbon filter has certain adsorption properties. Once air starts flowing through the carbon filter, odour molecules are trapped inside the activated carbon structure and organic compounds are adsorbed. See yellow marks in the figure above. The air flow also reduces the filter's capacity. This is comparable, for example, to a battery which is connected to an appliance. The air flow rate (measured in m^3/h) has a corresponding impact on the service life of the filter. The air flow rate is influenced mainly by the pressure drop of the filter, i.e. the carbon's resistance to the air flow. Filters filled with granulated carbon (e.g., 4 x 8 mm) a resistance 1.4 times higher than filters filled with activated carbon in the form of pellets (4 mm). We offer filters that use filtering fabrics filled with carbon dust. While using this filter, the pressure drop is 2.5 times higher compared to filters filled with carbon pellets (4 mm). The rule applies: The smaller the carbon particles, the greater the resistance to the air flow. The higher the resistance (pressure drop of the filter), the lower the air flow from the extraction fan. The pressure drop of the filter therefore is a factor contributing to the quality of the filter. Example: A 2-litre carbon filter filled with 4 x 8 mm carbon granulate is connected to a duct fan with an air flow rate of 160 m^3/h. The effective air flow with filter is approximately 100 m^3/h. The same filter with activated carbon in the form of pellets (4 mm) achieves an air flow of 140 m^3/h. A filter with carbon dust filled filtering fabric (curtain cloth) only reaches 70 m^3/h. Therefore, it can be concluded that the service life of the carbon filter depends on the iodine uptake capacity and on the air flow rate in m^3/h. If the air flow through the filter filled with pellets is reduced from 140 m^3/h to 70 m^3/h, the filter's lifespan will double and the fan loading will decrease.

Odour molecules are trapped in activated carbon.

Adsorption quality

Activated carbon capacity is expressed by the iodine number in mg/g of carbon or by the CTC value. This value refers to the activity of carbon tetrachloride in activated carbon and is used in quality testing. The higher the CTC value, the more efficient the filter, because it is capable of absorbing more organic compounds. Basically: Increasing the duration of air flow through activated carbon (contact time) improves the adsorption result. The thickness of the carbon bed is therefore a decisive factor, but the pressure drop also increases according to the thickness of the carbon bed. It is therefore important to maintain a certain contact time between the air and the carbon. This means in practice: For pelletised carbon CTC70, an air flow of <200 m^3/h per 1-1.5 Kg of carbon is sufficient. The filtration result thus also depends on the air flow rate. If an odour appears, reduce the air flow! It also applies: the filtering efficiency increases with decreasing the temperature of the air.

Activated charcoal – granulated

Following activation, stone pine wood turned into activated charcoal is very light. Its bulk density is only approx. 200-250 g per litre of volume. Maximum CTC values of 50-55% can be achieved for granulated materials. The Maximum iodine uptake usually reaches 500-950 mg/g. The reason for the relatively low values consists in the low specific weight of the raw material and the fact that wood cannot withstand high temperatures in the furnace for a long time. Coal becomes porous and crumbles. Advantages comprise favourable price, good availability and good initial adsorption characteristics. Disadvantages include sensitivity to moisture, a higher pressure drop, and a low adsorption force in proportion to volume, which impairs its service life.

Example

Iodine adsorption for a 2-litre activated carbon filter:

2 litres of activated carbon in the filter x 270 g/ litre of bulk density = 540 g of carbon content in the filter.

Therefore, iodine adsorption is as follows:
540 g x 900 mg/g = 486 g/iodine.

2 litres (Charcoal - granulated):
486 g
Iodine adsorption capacity

Activated coconut shells

Activated coconut shells have very good adsorption characteristics and are used – among other things – for filtration of volatile gases, such as acetone, gasoline, etc. It is assumed that their high filtration performance owes to the natural fibrous structure of the shells. Activated coconut shells are also available in the form of pellets. They can reach iodine adsorption of up to 1250 mg/g, the maximum CTC value is 50-65%. The bulk density varies between 420 and 500 g/l depending on the activation time. Disadvantages include high price, shortage of raw material the supply of which depends on the harvest, and the high pressure drop with granulated activated carbon.

Example

Iodine adsorption for a 2-litre activated carbon filter:

2 litres of activated carbon in the filter x 450 g/ litre of bulk density = 900 g of carbon content in the filter.

Therefore, iodine adsorption is as follows:
900 g x 1250 mg/g = 1125 g/iodine.

2 litres (Coconut shells):
1125 g
Iodine adsorption capacity

Activated carbon in anthracite-based pellets

Anthracite, also known as black coal, has a very high carbon content and high specific gravity by nature. Unlike granulated coal, an additional production step is required for the production of pellets. Black coal is ground into powder and mixed with an adhesive (also called binder). Bitumen is commonly used for this purpose. The resulting material comprising coal and bitumen is extruded through a matrix with holes. Thanks to the binder, coal withstands high temperatures in the furnace longer than granulated coal. This makes it possible to achieve CTC values > 100% and iodine adsorption of 1280 mg/g. The advantages of this type of activated carbon consist in a low pressure drop and high iodine number / CTC value that can be achieved.

Additional advantages are the low pressure drop and very good service life even at high humidity. Disadvantages include a higher price and high emission values during the production.

Summary:

- Lightweight filters filled with activated charcoal (4 x 8 mash) rarely last longer than 3 months in practice, filters with a 10 cm thick bed last longer, however, their pressure drop is too high for standard duct fans.
- Textile filters filled with activated carbon dust (comparable to curtain fabric) are characterised by a very high pressure drop.
- The air flow is low, which prolongs the contact time. Thanks to a low air flow, these filters achieve a long service life. However, if higher air flow rates are to be achieved, high-pressure fans with high energy consumption are required. Increased air flow rate results in lower adsorption quality and shorter life of the filter. Its efficiency is then proportionately lower.
- Filters filled with activated carbon from coconut shells (4 x 8 mash) have very good filtration properties and long service life. However, they also have a high pressure drop.
- We at primaklima use filters at our own facilities and know which of their properties are especially important. We fill our filters with anthracite in the form of CTC75 pellets or with coconut shell charcoal, i.e., with the highest quality activated carbon. Our activated carbon filters have a small pressure drop. They achieve high air flows which can be reduced if necessary. This results in long service life and the best adsorption. For our customers, this means: Simply the best! Iodine adsorption of a 2-litre activated carbon filter: 2 litres of carbon in the filter x 470 g/litre of bulk density = 940 g of carbon content in the filter.

Example

Iodine adsorption for a 2-litre activated carbon filter:

2 litres of activated carbon in the filter x 470 g/litre of bulk density = 940 g of carbon content in the filter.

Therefore, iodine adsorption is as follows:
940 g x 1150 mg/g = 1080 g/iodine.

2 litres (CTC70-Pellets):
1080 g
Iodine adsorption capacity

Frequently Asked Questions

What is the acceptable air humidity level?

Air with humidity below 55% can be filtered very well by activated carbon filters. With air humidity of 60% or above, the filter's performance decreases and good filter performance cannot be guaranteed if air humidity exceeds 70%.

What is an acceptable air flow range for my filter?

There is a general rule: The contact between air and activated carbon lasting from 0.05 to 0.2 s is sufficient for harmless odours and the filter achieves good results. Simply speaking, 1 Kg of quality activated carbon, e.g., coconut shell carbon or 4 mm carbon pellets with the iodine adsorption capacity of 1150 mg/g and a bulk density of approx. 450 g/l, can ensure good air filtration at flow rates of 100-200 m^3/h.

Are light filters better than heavy ones?

No, the more activated carbon (in Kg) the filter, the better the adsorption result. The following rule applies: Adsorption capacity of the filter = weight of carbon in the filter in grams x iodine adsorption in mg per gram of carbon = iodine adsorption capacity of the filter.

How long does the activated carbon filter last?

This is difficult to say as the service life depends on various factors. If there is a lot of smoke in the room, the filter is exposed to extreme loads and its service life decreases significantly. If the filter is used in an environment with a lot of fine dust, e.g., close to a main road, its service life will be also impacted. Basically, the filter's service life increases with cleaner air and lower air flows. You can extend the service life of your filter by using it only when you really need it (when the air smells). You can limit the air flow as this will exponentially prolong the service life of the filter.

I have a new filter and the air still smells!

This problem is usually caused by an overpressure in the room. Incorrect installation can also be the problem, e.g., when secondary air is drawn in. The solution is to reduce the air intake and to increase the air withdrawal through the filter. High humidity can also cause the filter to malfunction. The filter or the carbon can be dried for example with a heating fan. Once dried, activated carbon will work again.

The air discharged from the filter smells slightly!

This means that the contact time between air and carbon is too long. The solution is to reduce the fan output and slow down the air flow through the filter. You can also check the filter by spraying a perfume on a piece of fabric and assessing the scent of the discharged air in order to be able to adjust the air flow accordingly. It is also possible that the filter has reached the end of its service life and needs to be replaced.

Where and how should I install the filter?

Large activated carbon filters, which are very heavy, must be placed vertically in the room. Small filters can be mounted under the ceiling. It is important that the filter draws in warm air and discharges it to a cooler environment. In the opposite case, water would condense in the coal due to the dew point, the coal would get wet and would not filter.

There are black particles in the inner tube of my activated carbon filter!

This is caused by the manufacturing process and has no effect on the function. Simply remove the carbon particles.

There are black stains on the white filtering textile of my activated carbon filter!

The more the coal is activated, the more dust it contains. The dust sometimes penetrates into the prefilter fabric (for example due to its migration through the filter) and stains it black. Some manufacturers dye their textiles black to avoid this unsightly phenomenon. However, this has no effect on the filter's function.

Can I add carbon to the filter myself?

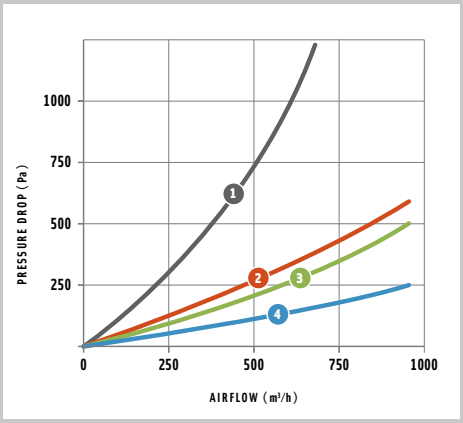
This can be done, in principle, but activated carbon must be treated by vibration. The inner tube must be precisely centred. The flange neck must be pressed down with a suitable device. Primaklima offers original replacement carbon. Whether the effort and the associated staining are worth the effort is for each user to decide.

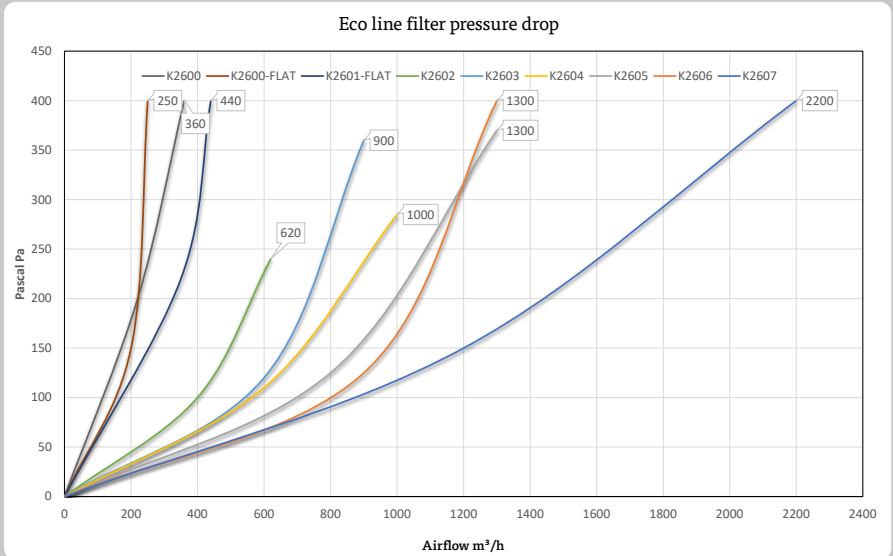
Why is there almost no air coming out of my fan?

This is either due to a large pressure drop across the filter or the exhaust fan does not generate sufficient pressure. Primaklima fans and the corresponding filters are precisely tuned to work together. Primaklima uses only ebm-papst radial centrifugal fans, which are known for their high-pressure capability. In addition, this type of fans is by far the quietest and has a long service life.

Do you have any questions? Our primaklima team is here for you. Please send your questions to: support@primaklima.com

Pressure drops for different types of activated carbon (Filter: K1604)





Fans

primaklima partner:

ebmpapst

engineering a better life

Very quiet

Metal and plastic fans

Primaklima duct fans are suited ideally for medium pressure applications and are therefore optimal for use on the intake side of the equipment in combination with activated carbon basket filters. In this respect, they are the quietest duct fans on the global market. The entire housing is made of extremely durable and long-lasting polyamide (nylon). Connections, capacitor and control technology are completely integrated into the housing. The fan can be easily fixed in any axial position using the mounting material (special accessory).

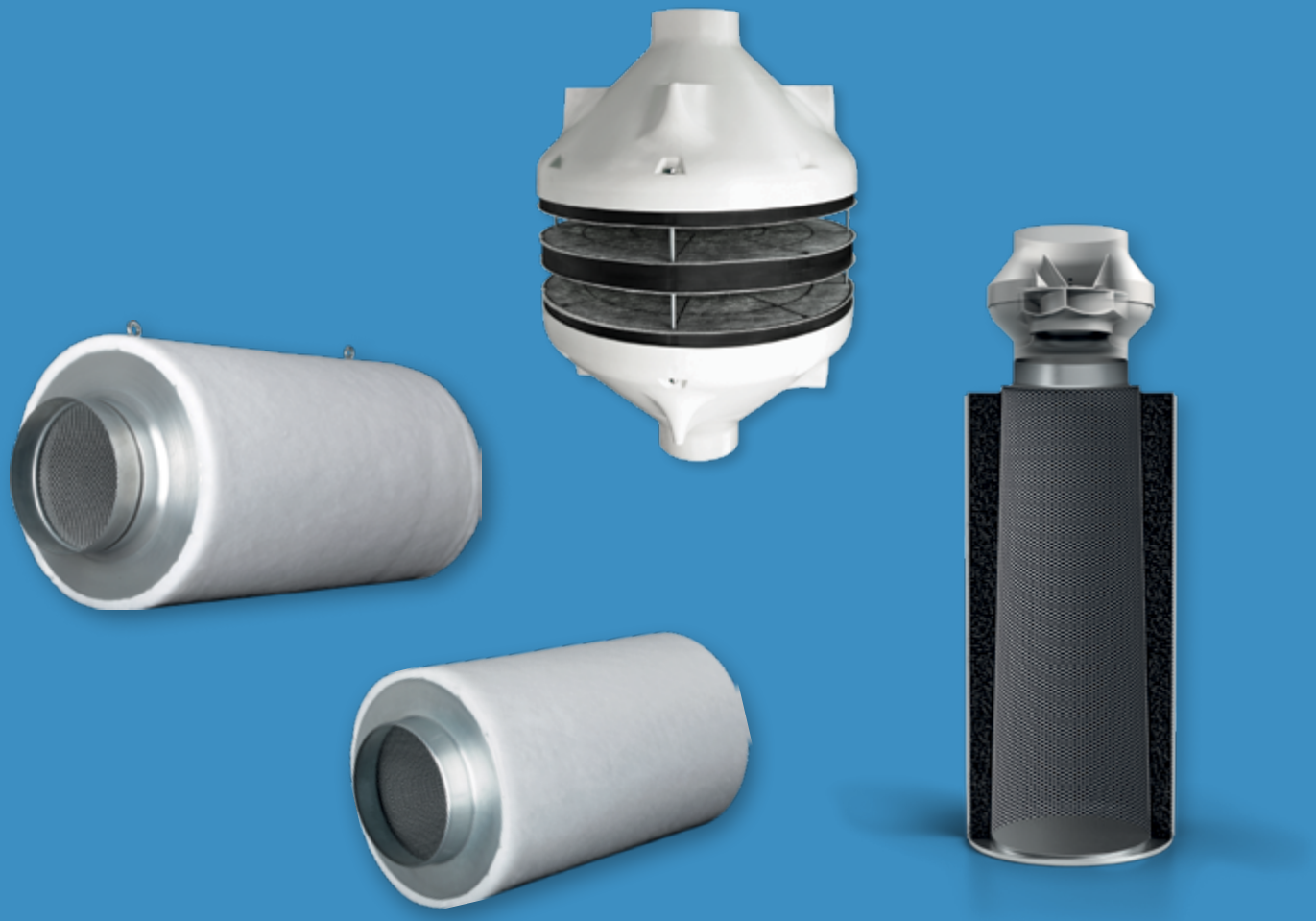
New: WhisperBlower

Tip

Most fans are available with alternative plugs (EU, GB, AU) and as 115 V version.

Just ask us at sales@primaklima.com

Activated carbon filters



Industry Line, Eco Line

Primaklima Industry Line Premium activated carbon filters are characterised by extremely long service life and unrivalled odour adsorption. Refillable filters have a 4 cm thick bed of CTC75 highly activated carbon with the surface area of > 1200 m²/g. This guarantees an extremely long contact time between air and activated carbon, and therefore also highly efficient odour elimination.

Eco Line – this means: Odour elimination with unmatched price/performance ratio. High-performance air filtration using a 3 cm thick bed with activated carbon of the same high quality as used in the Industry Line.

pitpuk™, Carbocone

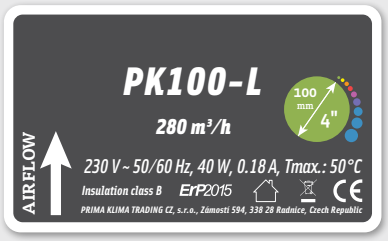
Our patented systems:
The new “PitPuk” is a unique modular cartridge filtration system which effectively eliminates odours. Many flange sizes and activated carbon types are available.

Carbocone filters have a unique structure: Conical design of the filter increases the adsorption capacity and thus the service life by up to 30%.

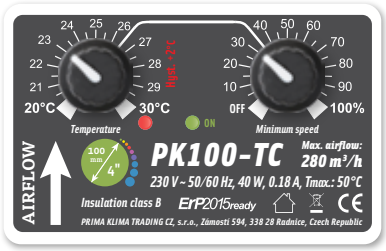
#Recycling

Our activated carbon filters are almost 100% recyclable and can also be refilled.

Fans 100 mm flange < 580 m³/h



Ventilator One Speed
Max. Airflow: 280 m³/h
Power: 40 W
AC Input: 230 V, 50/60 Hz, 0.18 A
Tmax: 50°C
Dimensions: 244 x 241 mm (WxH)
Weight: 2.28 Kg (3.04 Kg gwt.)
PK100-L



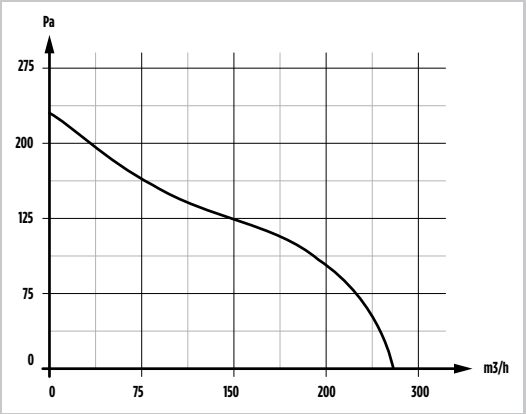
Ventilator Temperature Controlled
Max. Airflow: 280 m³/h
Power: 27 W
AC Input: 230 V, 50/60 Hz, 0.12 A
Tmax: 50°C
Dimensions: 244 x 241 mm (WxH)
Weight: 2.38 Kg (3.06 Kg Gwt.)
PK100-TC

EC-Ventilator Temperature Controlled
Max. Airflow: 580 m³/h
Power: 115 W
AC Input: 230 V, 50/60 Hz, 0.5 A
Tmax: 50°C
Dimensions: 244 x 241 mm (WxH)
Weight: 2.38 Kg (3.06 Kg Gwt.)
PK100EC-TC

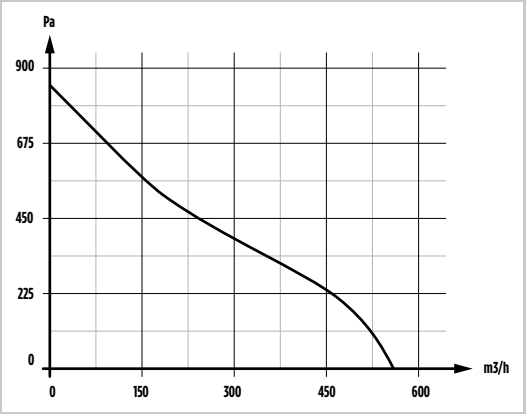
Info

Ventilator is supplied with mounting bracket

Air flow / Air pressure - PK100-TC



Air flow / Air pressure - PK100EC-TC

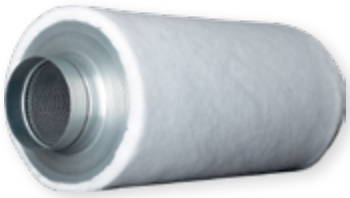


Activated carbon filters 100 mm flange < 620 m³/h

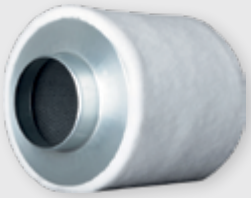
incl. M5 fastening eyelets

Filter Industry Line
Length: 250 mm (w/o flange)
Airflow max.: 280 m³/h
Airflow opti.: 180 m³/h
Incl. pre-filter K1700
Weight: 2.5 Kg
Carbon bed : 4 cm
K1600-100

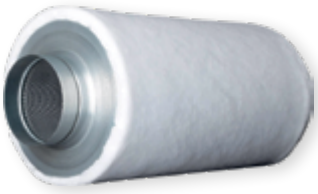
incl. M5 fastening eyelets



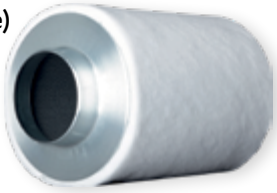
Filter Industry Line
Length: 400 mm (w/o flange)
Airflow max.: 420 m³/h
Airflow opti.: 180 m³/h
Incl. pre-filter K1701
Weight: 3.7 Kg
Carbon bed: 4 cm
K1601-100



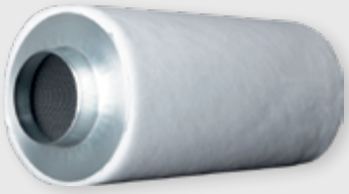
Filter Eco Line
Length: 180 mm (w/o flange)
Airflow max.: 240 m³/h
Airflow opti.: 160 m³/h
Incl. pre-filter K2700 mini
Weight: 1.7 Kg
Carbon bed: 3 cm
K2600-mini-100



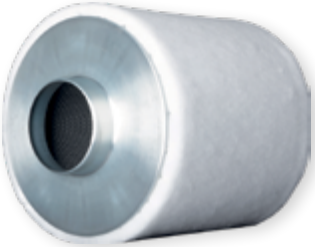
Filter Eco Line
Length: 400 mm (w/o flange)
Airflow max.: 620 m³/h
Airflow opti.: 475 m³/h
Incl. pre-filter K2702
Weight: 4.5 Kg
Carbon bed: 3 cm
K2602-100



Filter Eco Line
Length: 250 mm (w/o flange)
Airflow max.: 360 m³/h
Airflow opti.: 240 m³/h
Incl. pre-filter K2700
Weight: 2.2 Kg
Carbon bed: 3 cm
K2600-100



Filter Eco Line
Length: 400 mm (w/o flange)
Airflow max.: 480 m³/h
Airflow opti.: 360 m³/h
Incl. pre-filter K2701
Weight: 3.2 Kg
Carbon bed: 3 cm
K2601-100



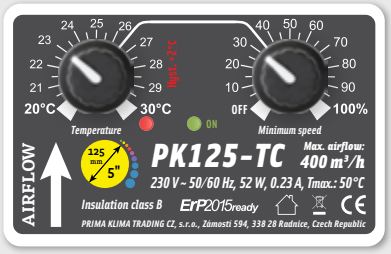
Filter Eco Line
Length: 250 mm (w/o flange)
Airflow max.: 440 m³/h
Airflow opti.: 360 m³/h
Incl. pre-filter K2701 flat
Weight: 3 Kg
Carbon bed: 3 cm
K2601-flat-100

Filter Eco Line
Length: 135 mm (w/o flange)
Airflow max.: 250 m³/h
Airflow opti.: 200 m³/h
Incl. pre-filter K2700 flat
Weight: 1.9 Kg
Carbon bed: 3 cm
K2600-flat-100

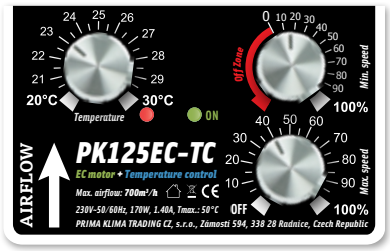
Fans 125 mm flange < 700 m³/h

Ventilator One Speed
Max. Airflow: 360 m³/h
Power: 52 W
AC Input: 230 V, 50/60 Hz, 0.23 A
Tmax: 50°C
Dimensions: 244 x 220 mm (WxH)
Weight: 2.35 Kg (2.96 Kg Gwt.)
PK125-L

Ventilator Two Speed
Max. Airflow: 220/400 m³/h
Power: 63 W
AC Input: 230 V, 50/60 Hz, 0.29 A
Tmax: 50°C
Dimensions: 244 x 220 mm (WxH)
Weight: 2.28 Kg (2.94 Kg Gwt.)
PK125-2

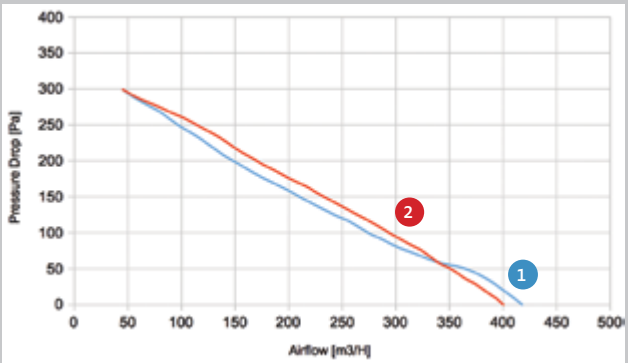


Ventilator Temperature Controlled
Max. Airflow: 400 m³/h
Power: 52 W
AC Input: 230 V, 50/60 Hz, 0.23 A
Tmax: 50°C
Dimensions: 244 x 220 mm (WxH)
Weight: 2.42 Kg (3.06 Kg Gwt.)
PK125-TC



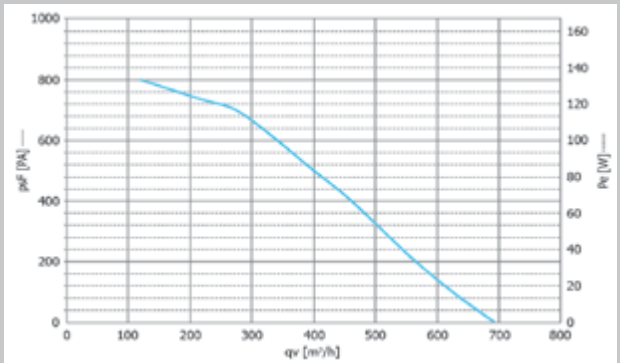
EC-Ventilator Temperature Controlled
Max. Airflow: 700 m³/h
Power: 0-170 W
AC Input: 230 V, 50/60 Hz, 1.4 A
Tmax: 50°C
Dimensions: 244 x 244 mm (WxH)
Weight: 2.46 Kg (3.04 Kg Gwt.)
PK125EC-TC

Air flow / Air pressure - AC fans



1 PK125-L 2 PK125-2 & PK125-TC

Air flow / Air pressure - EC fans



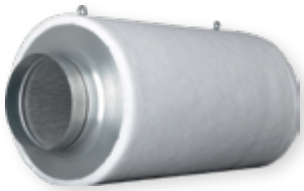
• PK125EC-TC & PK125-ECBLUE

Activated carbon filters 125 mm flange < 960 m³/h

incl. M5 fastening eyelets

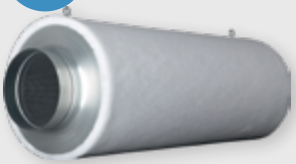
Filter Industry Line
Length: 200 mm (w/o flange)
Airflow max.: 280 m³/h
Airflow optimal: 240 m³/h
Incl. pre-filter K1702
Weight: 2.6 Kg
Carbon bed: 4 cm
K1602

incl. M5 fastening eyelets

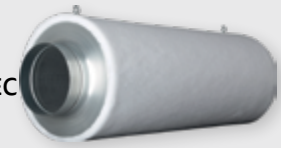


Filter Industry Line
Length: 400 mm (w/o flange)
Airflow max.: 460 m³/h
Airflow optimal: 360 m³/h
Incl. pre-filter K1703
Weight: 4.5 Kg
Carbon bed: 4 cm
K1603

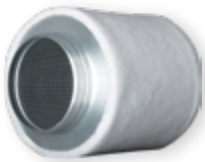
NEW



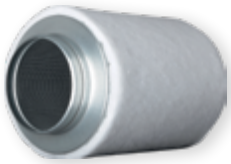
Filter Industry Line
Length: 800 mm (w/o flange)
Airflow max.: 960 m³/h
Airflow optimal: 720 m³/h
Incl. pre-filter K1704-WHSPEC
Weight: 9.9 Kg
Carbon bed: 4 cm
K1604-WHSPEC



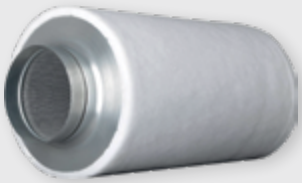
Filter Industry Line
Length: 600 mm (w/o flange)
Airflow max.: 700 m³/h
Airflow optimal: 460 m³/h
Incl. pre-filter K1704
Weight: 6.6 Kg
Carbon bed: 4 cm
K1604



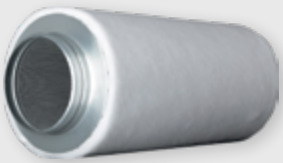
Filter Eco Line
Length: 180 mm (w/o flange)
Airflow max.: 240 m³/h
Airflow optimal: 160 m³/h
Incl. pre-filter K2700 mini
Weight: 1.7 Kg
Carbon bed: 3 cm
K2600-mini-125



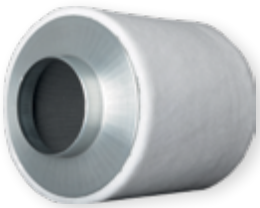
Filter Eco Line
Length: 250 mm (w/o flange)
Airflow max.: 360 m³/h
Airflow optimal: 240 m³/h
Incl. pre-filter K2700
Weight: 2.1 Kg
Carbon bed: 3 cm
K2600-125



Filter Eco Line
Length: 400 mm (w/o flange)
Airflow max.: 620 m³/h
Airflow opti.: 475 m³/h
Incl. pre-filter K2702
Weight: 4.5 Kg
Carbon bed: 3 cm
K2602-125



Filter Eco Line
Length: 400 mm (w/o flange)
Airflow max.: 480 m³/h
Airflow optimal: 360 m³/h
Incl. pre-filter K2701
Weight: 3.2 Kg
Carbon bed: 3 cm
K2601-125



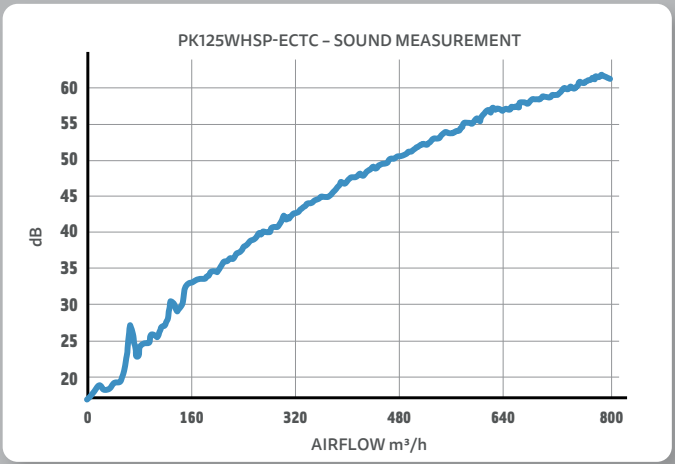
Filter Eco Line
Length: 250 mm (w/o flange)
Airflow max.: 440 m³/h
Airflow optimal: 360 m³/h
Incl. pre-filter K2701 flat
Weight: 3 Kg
Carbon bed: 3 cm
K2601-flat-125

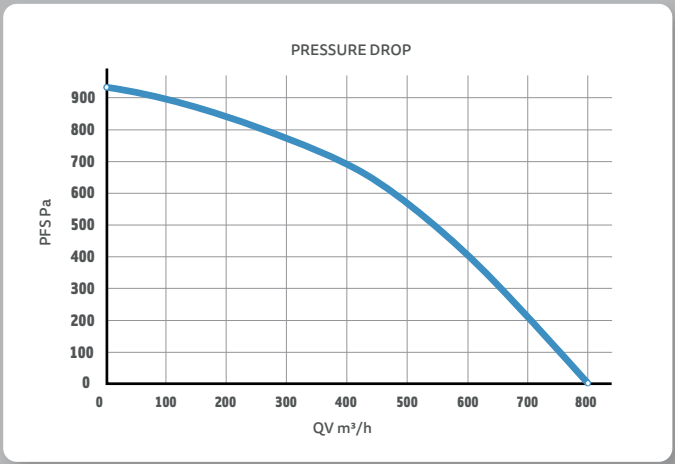
Filter Eco Line
Length: 135 mm (w/o flange)
Airflow max.: 250 m³/h
Airflow optimal: 200 m³/h
Incl. pre-filter K2700 flat
Weight: 1.9 Kg
Carbon bed: 3 cm
K2600-flat-125

New: WHISPERBLOWER

WhisperBlower is our latest product. We have developed a completely new design in cooperation with ebm-papst motors. We have rethought the air flow principle and achieved incomparably good measurement results. This professional fan built to our proven robust quality standard achieves an unmatched efficiency.

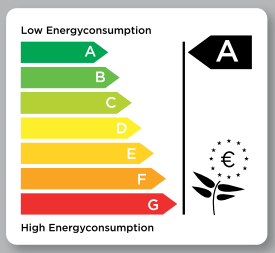
The new design optimises the air flow in a way that can be compared to riding a roller coaster – creating more pressure with the same energy consumption as for conventional models and even producing less noise. We know what our customers need.





ECTC
TEMPERATURE CONTROLLED
PK125WHSPECTC

GROWERS CHOICE
BEST ADJUSTABILITY
primaklima
PROFESSIONAL



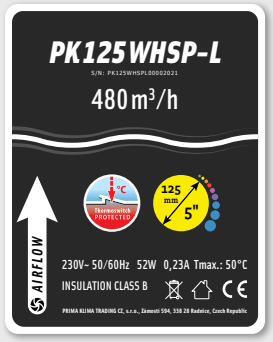
ECBLUE
WITH RJ45 INTERFACE
PK125WHSP-ECblue

Flange: 125 mm	Tmax: 50°C
Max. Airflow: 800 m³/h	Dimensions: 315 x 309 mm
Power: 170 W	Weight: 2.85 Kg
AC Input: 230 V 50/60 Hz 0.74 A	(4.54 Kg gross weight)

Patent Pending

MADE IN GERMANY

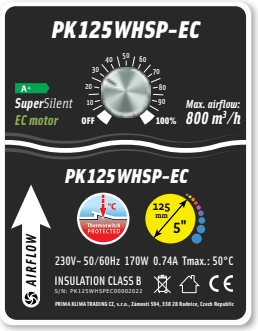
WHSP fans with 125 mm flange < 800 m³/h



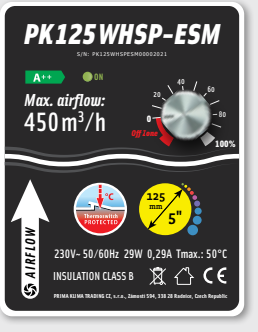
Ventilator One Speed
Max. Airflow: 480 m³/h
Power: 52 W
AC Input: 230 V, 50/60 Hz, 0.23 A
Tmax: 50°C
Dimensions: 315 x 309 mm (WxH)
Weight: 2.70 Kg (4.40 Kg Gwt.)
PK125WHSP-L

Ventilator Two Speed
Max. Airflow: 460 m³/h
Power: 63 W
AC Input: 230 V, 50/60 Hz, 0.29 A
Tmax: 50°C
Dimensions: 315 x 309 mm (WxH)
Weight: 2.73 Kg (4.43 Kg Gwt.)
PK125WHSP-2

Ventilator Three Speed
Max. Airflow: 530 m³/h
Power: 57 W
AC Input: 230 V, 50/60 Hz, 0.26 A
Tmax: 50°C
Dimensions: 315 x 309 mm (WxH)
Weight: 2.69 Kg (4.38 Kg Gwt.)
PK125WHSP-3



EC Ventilator Speed-Adjustable
Max. Airflow: 800 m³/h
Power: 170 W
AC Input: 230 V, 50/60 Hz, 0.74 A
Tmax: 50°C
Dimensions: 315 x 309 mm (WxH)
Weight: 2.85 Kg (4.54 Kg Gwt.)
PK125WHSP-EC



EC Ventilator Speed-Adjustable*
Max. Airflow: 450 m³/h
Power: 29 W
AC Input: 230 V, 50/60 Hz, 0.29 A
Tmax: 50°C
Dimensions: 315 x 309 mm (WxH)
Weight: 2.38 Kg (4.07 Kg Gwt.)
PK125WHSP-ESM

*PK125WHSP-ESM - Due to Specific characteristics of the PCB board, this version emits a beeping noise when running on low frequency.

150/160 mm
5.9/6.3"

New: WHISPERBLOWER

NOW ALSO AVAILABLE WITH 150/160MM FLANGE

GROWERS CHOICE
BEST ADJUSTABILITY
primaklima
PROFESSIONAL

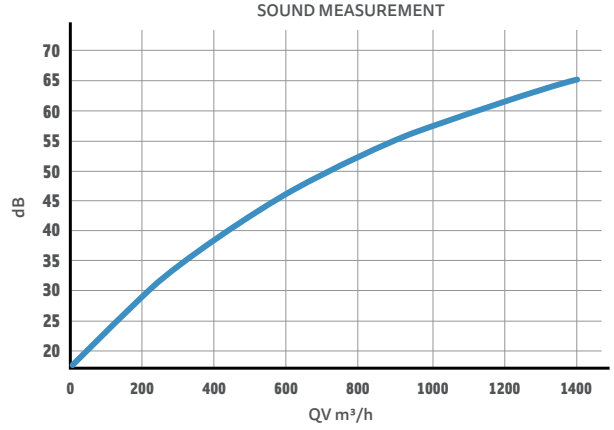
EC MOTOR

ECTC
TEMPERATURE CONTROL
PK150/160WHSPECTC

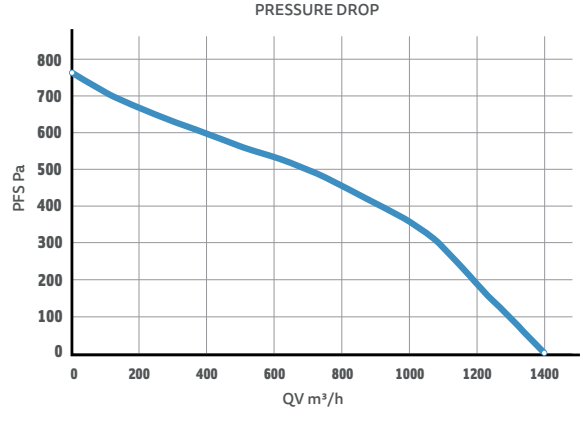
GROWERS CHOICE
SILENCE
FACTOR
2,5
LESS NOISE
primaklima

Flange: 150/160 mm
Airflow max.: 1400 m³/h
Power: 170 W
AC Input: 230 V, 50/60 Hz, 1.4 A
Tmax: 50°C
Dimensions: 334 x 367 mm
Weight: 3.85 Kg
(5.50 Kg gross weight)

SOUND MEASUREMENT



PRESSURE DROP



WHSP Fans with 150 / 160 mm flange < 1400 m³/h

ONE SPEED
PK150/160WHSP-A

Ventilator
Max. Airflow: 1000 m³/h
Power: 124 W
AC Input: 230 V, 50/60 Hz, 0.55 A
Tmax: 50°C
Dimensions: 334 x 367 mm
Weight: 3.95 Kg (5.60 Kg Gwt.)

ONE SPEED
PK150/160WHSP-L

Ventilator
Max. Airflow: 1150 m³/h
Power: 155 W
AC Input: 230 V, 50/60 Hz, 0.68 A
Tmax: 50°C
Dimensions: 334 x 367 mm
Weight: 3.95 Kg (6 Kg Gwt.)

EC
SPEED CONTROLLED
PK150/160WHSP-EC

EC-Ventilator
Max. Airflow: 1400 m³/h
Power: 170 W
AC Input: 230 V, 50/60 Hz, 1.4 A
Tmax: 50°C
Dimensions: 334 x 367 mm
Weight: 3.85 Kg (5.50 Kg Gwt.)

ECBLUE
WITH RJ45 INTERFACE
PK150/160WHSP-ECblue

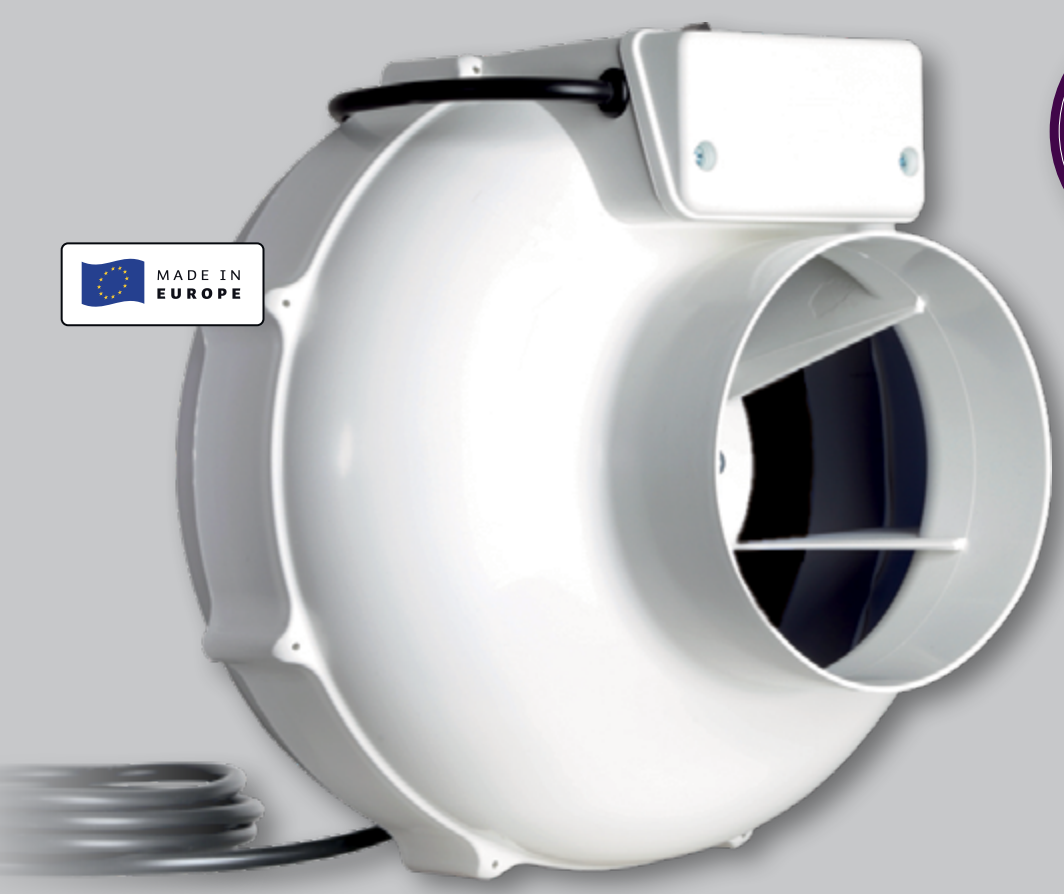
EC-Ventilator
Max. Airflow: 1400 m³/h
Power: 170 W
AC Input: 230 V, 50/60 Hz, 1.4 A
Tmax: 50°C
Dimensions: 334 x 367 mm
Weight: 3.85 Kg (5.50 Kg Gwt.)

Energy-efficient EC fans

Briefly explained

EC fans consist of a brushless DC motor whose internal magnetic field is generated with permanent magnets. Commutation electronics, i.e. a control unit similar to a frequency converter, supplies the EC motor with power accordingly.

EC fans build up a significantly higher pressure. This means that more air is conveyed at lower energy costs. Other advantages are the speed control (without humming in the low range) and the quiet operation.

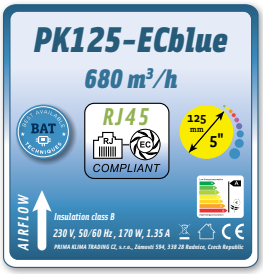


ECTC-1M-Digital
2-channel fan remote controller for supply and exhaust air with RJ45 interface

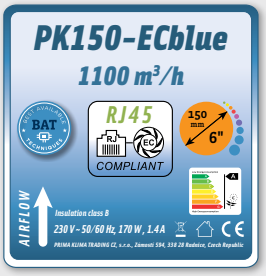
- Temperature control
- Minimum flow rate adjustable
- Maximum flow rate adjustable
- Automatic or manual mode adjustable

ECBlue fans with RJ45 socket

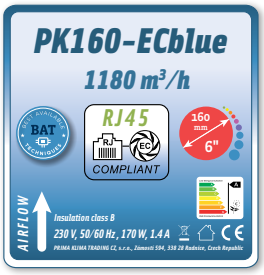
Ventilator
Flange: 100 mm
Max. Airflow: 580 m³/h
Power: 115 W
AC Input: 230 V, 50/60 Hz, 0.5 A
Tmax: 50°C
Dimensions: 244 x 241 mm (WxH)
Weight: 2.38 Kg (3.06 Kg Gwt.)
PK100-ECblue



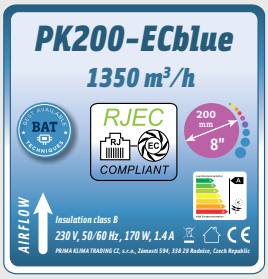
Ventilator
Flange: 125 mm
Max. Airflow: 680 m³/h
Power: 0-170 W
AC Input: 230 V, 50/60 Hz, 1.35 A
Tmax: 50°C
Dimensions: 244 x 244 mm (WxH)
Weight: 2.42 Kg (2.98 Kg Gwt.)
PK125-ECblue



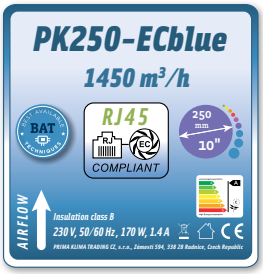
Ventilator
Flange: 150 mm
Max. Airflow: 1100 m³/h
Power: 0-170 W
AC Input: 230 V, 50/60 Hz, 1.4 A
Tmax: 50°C
Dimensions: 338 x 243 mm (WxH)
Weight: 3.30 Kg (4.22 Kg Gwt.)
PK150-ECblue



Ventilator
Flange: 160 mm
Max. Airflow: 1180 m³/h
Power: 0-170 W
AC Input: 230 V, 50/60 Hz, 1.4 A
Tmax: 50°C
Dimensions: 340 x 242 mm (WxH)
Weight: 3.34 Kg (4.32 Kg Gwt.)
PK160-ECblue



Ventilator
Flange: 200 mm
Max. Airflow: 1350 m³/h
Power: 0-170 W
AC Input: 230 V, 50/60 Hz, 1.4 A
Tmax: 50°C
Dimensions: 340 x 248 mm (WxH)
Weight: 3.30 Kg (4.30 Kg Gwt.)
PK200-ECblue



Ventilator
Flange: 250 mm
Max. Airflow: 1450 m³/h
Power: 0-170 W
AC Input: 230 V, 50/60 Hz, 1.4 A
Tmax: 50°C
Dimensions: 369 x 276 mm (WxH)
Weight: 3.80 Kg (5.08 Kg Gwt.)
PK250-ECblue

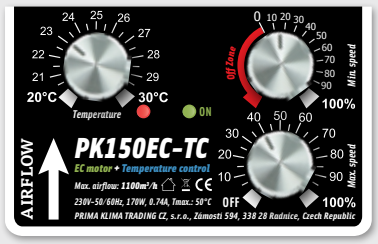
Fans 150 mm flange < 1100 m³/h

Ventilator One Speed
Max. Airflow: 600 m³/h, Power: 88 W
AC Input: 230 V, 50/60 Hz, 0.39 A
Tmax: 50°C
Dimensions: 338 x 233 mm (WxH)
Weight: 2.80 Kg (3.74 Kg Gwt.)
PK150-A

Ventilator One Speed
Max. Airflow: 760 m³/h, Power: 102 W
AC Input: 230 V, 50/60 Hz, 0.45 A
Tmax: 50°C
Dimensions: 338 x 233 mm (WxH)
Weight: 3.18 Kg (4.04 Kg Gwt.)
PK150-L

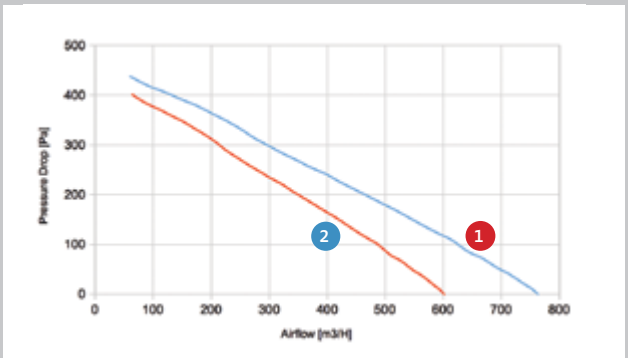
Ventilator Two Speed
Max. Airflow: 390/760 m³/h, Power: 108 W
AC Input: 230 V, 50/60 Hz, 0.48 A
Tmax: 50°C
Dimensions: 338 x 233 mm (WxH)
Weight: 3.32 Kg (4.28 Kg Gwt.)
PK150-2

Ventilator Temperature Controlled
Max. Airflow: 760 m³/h, Power: 102 W
AC Input: 230 V, 50/60 Hz, 0.45 A
Tmax: 50°C
Dimensions: 338 x 233 mm (WxH)
Weight: 3.30 Kg (4.22 Kg Gwt.)
PK150-TC



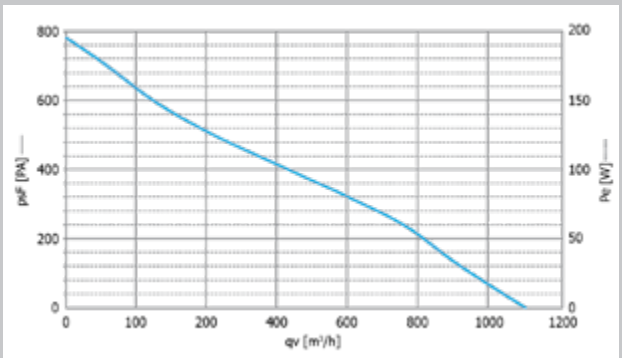
EC-Ventilator Temperature Controlled
Max. Airflow: 1100 m³/h, Power: 170 W
AC Input: 230 V, 50/60 Hz, 1.4 A
Tmax: 50°C
Dimensions: 338 x 233 mm (WxH)
Weight: 3.30 Kg (4.22 Kg Gwt.)
PK150EC-TC

Air flow / Air pressure - AC fans



1 PK150-A 2 PK150-L, PK150-2, PK150-TC

Air flow / Air pressure - EC fans

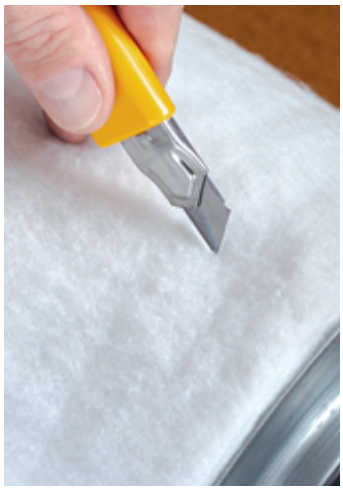


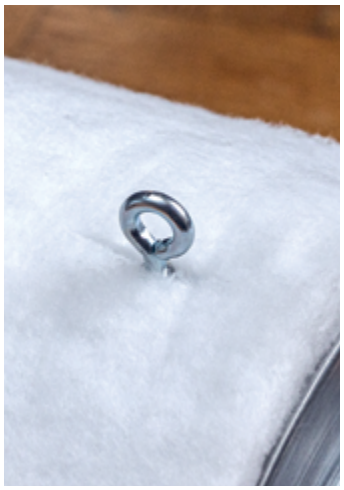
• PK150EC-TC

Activated carbon filters 150 mm flange < 1400 m³/h

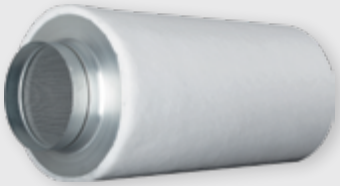
Tip

A small cut in the pre-filter fleece exposes the thread for the fastening eyelet (Industry Line only).



incl. M5 fastening eyelets



Filter Industry Line
Length: 500 mm (w/o flange)
Airflow max.: 680 m³/h
Airflow opti.: 460 m³/h
Incl. pre-filter K1705
Weight: 6.8 Kg
Carbon bed: 4 cm
K1605

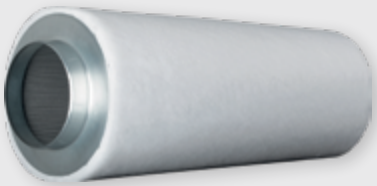
incl. M5 fastening eyelets

Filter Industry Line
Length: 800 mm (w/o flange)
Airflow max.: 1080 m³/h
Airflow opti.: 820 m³/h
Incl. pre-filter K1706
Weight: 10.3 Kg
Carbon bed: 4 cm
K1606

NEW

Filter Industry Line
Lenght: 1000 mm (w/o flange)
Airflow max.: 1400 m³/h
Airflow opti.: 1050 m³/h
Incl. pre-filter K1706-WHSPEC
Weight: 13 Kg
Carbon bed: 4 cm
K1606-WHSPEC

Filter Eco Line
Length: 400 mm (w/o flange)
Airflow max.: 620 m³/h
Airflow opti.: 475 m³/h
Incl. pre-filter K2702
Weight: 4.5 Kg
Carbon bed: 3 cm
K2602-150



Filter Eco Line
Length: 650 mm (w/o flange)
Airflow max.: 900 m³/h
Airflow opti.: 700 m³/h
Incl. pre-filter K2703
Weight: 6.9 Kg
Carbon bed: 3 cm
K2603-150

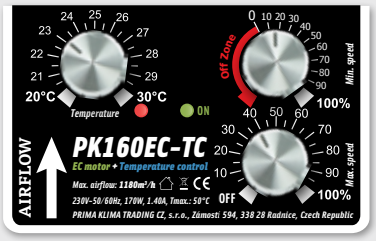
Fans 160 mm flange < 1180 m³/h

Ventilator One Speed
Max. Airflow: 680 m³/h
Power: 88 W
AC Input: 230 V, 50/60 Hz, 0.39 A
Tmax: 50°C
Dimensions: 340 x 232 mm (WxH)
Weight: 2.86 Kg (3.80 Kg Gwt.)
PK160-A

Ventilator One Speed
Max. Airflow: 800 m³/h
Power: 102 W
AC Input: 230 V, 50/60 Hz, 0.45 A
Tmax: 50°C
Dimensions : 340 x 232 mm (WxH)
Weight: 3.24 Kg (4.18 Kg Gwt.)
PK160-L

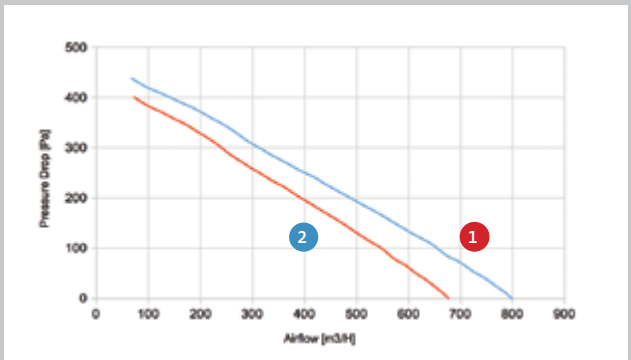
Ventilator Two Speed
Max. Airflow: 420/800 m³/h
Power: 108 W
AC Input: 230 V, 50/60 Hz, 0.48 A
Tmax: 50°C
Dimensions: 340 x 232 mm (WxH)
Weight: 3.32 Kg (4.28 Kg Gwt.)
PK160-2

Ventilator Temperature Controlled
Max. Airflow: 800 m³/h
Power: 102 W
AC Input: 230 V, 50/60 Hz, 0.45 A
Tmax: 50°C
Dimensions: 340 x 232 mm (WxH)
Weight: 3.34 Kg (4.32 Kg Gwt.)
PK150-TC



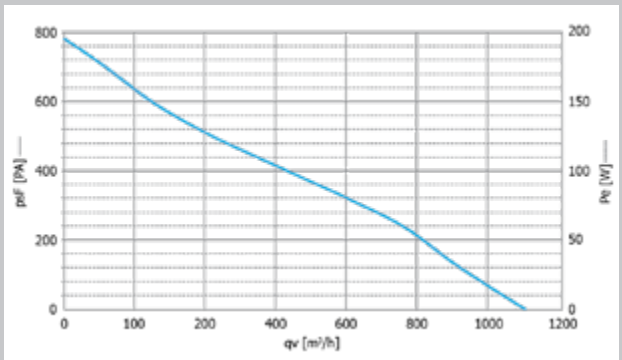
Ventilator Temperature Controlled
Max. Airflow: 1180 m³/h
Power: 0-170 W
AC Input: 230 V, 50/60 Hz, 1.4 A
Tmax: 50°C
Dimensions: 340 x 242 mm (WxH)
Weight: 3.34 Kg (4.32 Kg Gwt.)
PK160EC-TC

Air flow / Air pressure - AC fans



1 PK160-A 2 PK160-L, PK160-2, PK160-TC

Air flow / Air pressure - EC fans



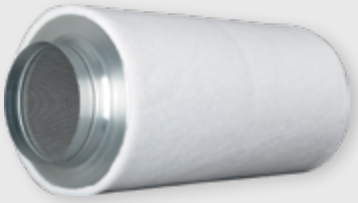
• PK160EC-TC

Activated carbon filters 160 mm flange < 1440 m³/h

Tip

To reduce noise, it makes sense to connect the activated carbon filter directly to the fan on the intake side. This way, the filter also acts as a silencer.

incl. M5 fastening eyelets

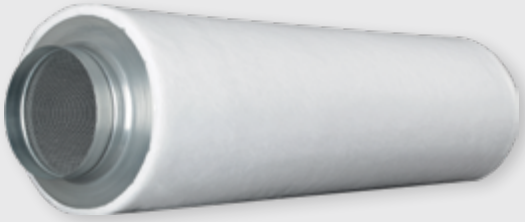


Filter Industry Line
Length: 500 mm (w/o flange)
Airflow max.: 720 m³/h
Airflow opti.: 480 m³/h
Incl. pre-filter K1707
Weight: 6.9 Kg
Carbon bed: 4 cm
K1607

incl. M5 fastening eyelets

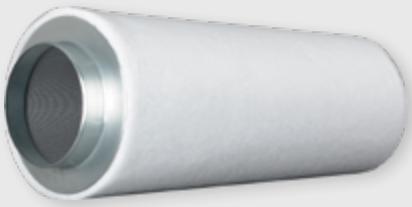
Filter Industry Line
Length: 800 mm (w/o flange)
Airflow max.: 1150 m³/h
Airflow opti.: 880 m³/h
Incl. pre-filter K1708
Weight: 10.8 Kg
Carbon bed: 4 cm
K1608

NEW



Filter Industry Line
Length: 1000 mm (w/o flange)
Airflow max.: 1440 m³/h
Airflow opti.: 1100 m³/h
Incl. pre-filter K1708-WHSPEC
Weight: 13.7 Kg
Carbon bed: 4 cm
K1608-WHSPEC

Filter Eco Line
Length: 400 mm (w/o flange)
Airflow max.: 620 m³/h
Airflow opti.: 475 m³/h
Incl. pre-filter K2702
Weight: 4.5 Kg
Carbon bed: 3 cm
K2602-160

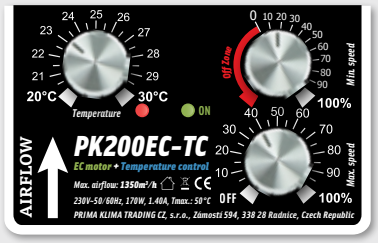


Filter Eco Line
Length: 650 mm (w/o flange)
Airflow max.: 900 m³/h
Airflow opti.: 700 m³/h
Incl. pre-filter K2703
Weight: 6.9 Kg
Carbon bed: 3 cm
K2603-160

Fans 200 mm flange < 1350 m³/h

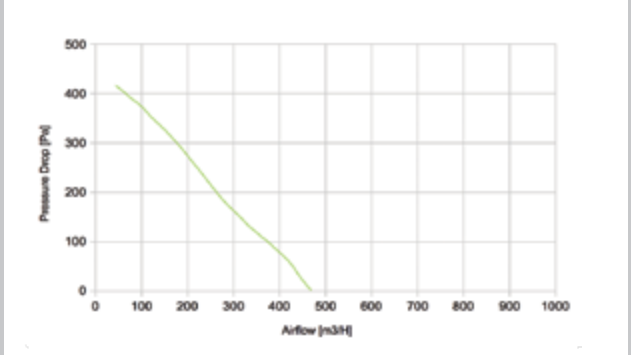
Ventilator One Speed
Max. Airflow: 800 m³/h
Power: 124 W
AC Input: 230 V, 50/60 Hz, 0.55 A
Tmax: 50°C
Dimensions: 340 x 248 mm (WxH)
Weight: 3.36 Kg (4.48 Kg Gwt.)
PK200-A

Ventilator One Speed
Max. Airflow: 950 m³/h
Power: 160 W
AC Input: 230 V, 50/60 Hz, 0.70 A
Tmax: 50°C
Dimensions: 340 x 248 mm (WxH)
Weight: 3.78 Kg (4.92 Kg Gwt.)
PK200-L



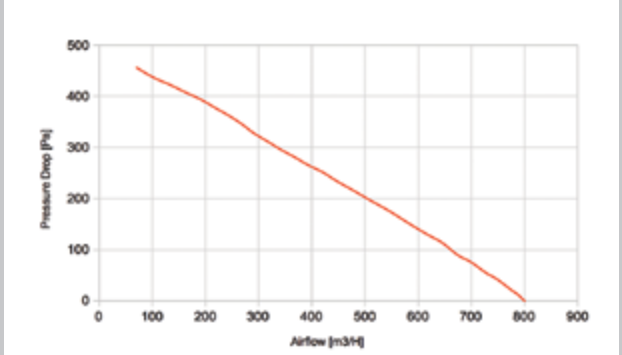
Ventilator Temperature Controlled
Max. Airflow: 1350 m³/h
Power: 170 W
AC Input: 230 V, 50/60 Hz, 1.4 A
Tmax: 50°C
Dimensions: 340 x 248 mm (WxH)
Weight: 3.30 Kg (4.30 Kg Gwt.)
PK200EC-TC

Air flow / Air pressure - PK200-L



PK200-L

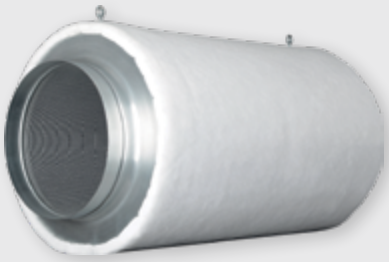
Air flow / Air pressure - PK200-A



PK200-A

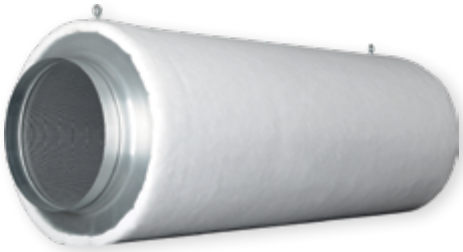
Activated carbon filters 200 mm flange < 1650 m³/h

incl. M5 fastening eyelets

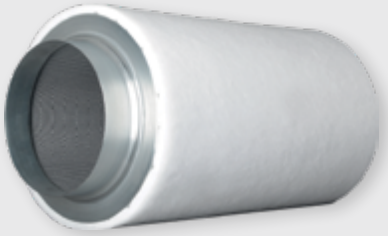


Filter Industry Line
Length: 500 mm (w/o flange)
Airflow max.: 1090 m³/h
Airflow opti.: 810 m³/h
Incl. pre-filter K1709
Weight: 8.3 Kg
Carbon bed: 4 cm
K1609

incl. M5 fastening eyelets



Filter Industry Line
Length: 800 mm (w/o flange)
Airflow max.: 1650 m³/h
Airflow opti.: 1150 m³/h
Incl. pre-filter K1710
Weight: 12.9 Kg
Carbon bed: 4 cm
K1610

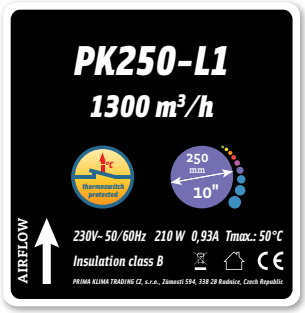


Filter Eco Line
Length: 500 mm (w/o flange)
Airflow max.: 1000 m³/h
Airflow opti.: 780 m³/h
Incl. pre-filter K2704
Weight: 7.2 Kg
Carbon bed: 3 cm
K2604

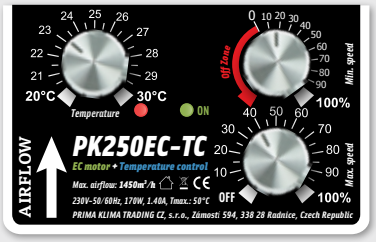
Filter Eco Line
Length: 750 mm (w/o flange)
Airflow max.: 1300 m³/h
Airflow opti.: 1000 m³/h
Incl. pre-filter K2705
Weight: 10.3 Kg
Carbon bed: 3 cm
K2605

Fans 250 mm flange < 1450 m³/h

Ventilator One Speed
Max. Airflow: 1050 m³/h
Power: 120 W
AC Input: 230 V, 50/60 Hz, 0.52 A
Tmax: 50°C
Dimensions: 378 x 276 mm (WxH)
Weight: 4.84 Kg (6 Kg Gwt.)
PK250-A1



Ventilator One Speed
Max. Airflow: 1300 m³/h
Power: 210 W
AC Input: 230 V, 50/60 Hz, 0.93 A
Tmax: 50°C
Dimensions: 378 x 276 mm (WxH)
Weight: 4.84 Kg (6 Kg Gwt.)
PK250-L1
Not compliant with ErP Directive

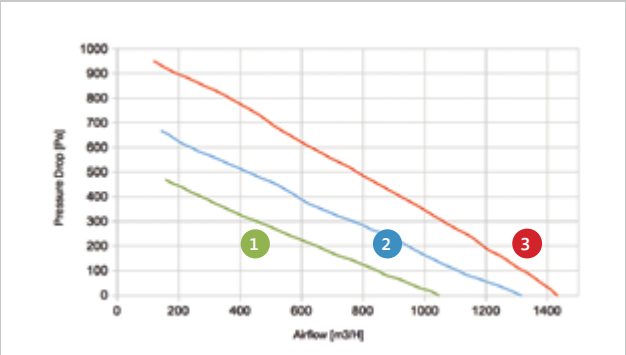


Ventilator Temperature Controlled
Max. Airflow: 1450 m³/h
Power: 0-170 W
AC Input: 230 V, 50/60 Hz, 1.4 A
Tmax: 50°C
Dimensions: 376 x 276 mm (WxH)
Weight: 3.88 Kg (5.12 Kg Gwt.)
PK250EC-TC

Info

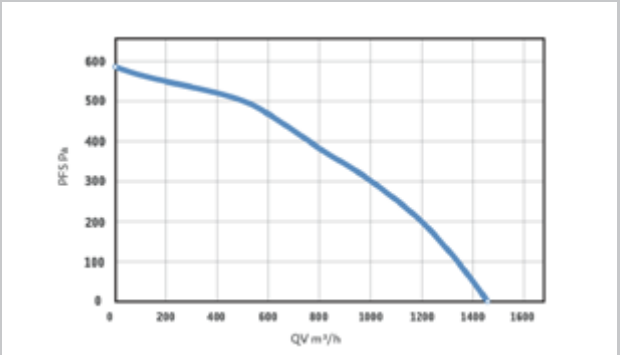
Ventilator is supplied with mounting bracket

Air flow / Air pressure - AC fans



1 PK250-A1 2 PK250-L1 3 PK250-XLE

Air flow / Air pressure - EC fan

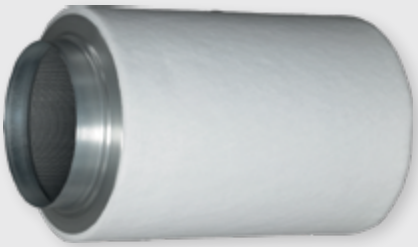


• PK250EC-TC

Activated carbon filters 250 mm flange < 2700 m³/h

Filter Industry Line
Length: 750 mm (w/o flange)
Airflow max.: 1800 m³/h
Airflow opti.: 1200 m³/h
Incl. pre-filter K1711
Weight: 15.4 Kg
Carbon bed: 4 cm
K1611

Filter Industry Line
Length: 1000 mm (w/o flange)
Airflow max.: 2700 m³/h
Airflow opti.: 1800 m³/h
Incl. pre-filter K1712
Weight: 19.7 Kg
Carbon bed: 4 cm
K1612



Filter Eco Line
Length: 500 mm (w/o flange)
Airflow max.: 1300 m³/h
Airflow opti.: 960 m³/h
Incl. pre-filter K2706
Weight: 9 Kg
Carbon bed: 3 cm
K2606

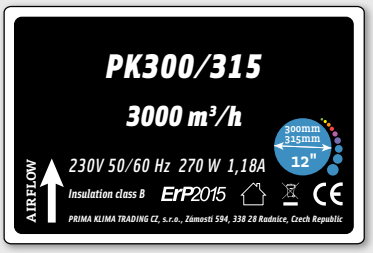
Filter Eco Line
Length: 750 mm (w/o flange)
Airflow max.: 2700 m³/h
Airflow opti.: 1300 m³/h
Incl. pre-filter K2707
Weight: 13 Kg
Carbon bed: 3 cm
K2607

Fans 300/315 mm flange < 4250 m³/h

The primaklima BLUE LINE fans represent the top class of »In Line« fans. Equipped with a highly efficient ebm-papst unit from Germany, the PK300/315 achieves the incredible air flow of 3000 m³/h and a pressure build-up of up to 650 Pa, and all this with 280 watts at only 1350 rpm. Designed for permanent continuous operation, the BLUE LINE fan lasts for more than 80,000 operating hours at full power. The motor has a maintenance-free and durable precision ball bearing, a thermal circuit breaker and is fully speed controllable.

The BLUE LINE fan operates extremely quietly and far exceeds the ErP2015 energy efficiency directive. Connection and control technology are located in the high-quality junction box and are ready-assembled with a SCHUKO* connection cable. Pre-mounted, stable mounting brackets enable perfect positioning in the room. An air turbine that leaves nothing to be desired. The best you can get anywhere in the world.

*power cord with grounded plug



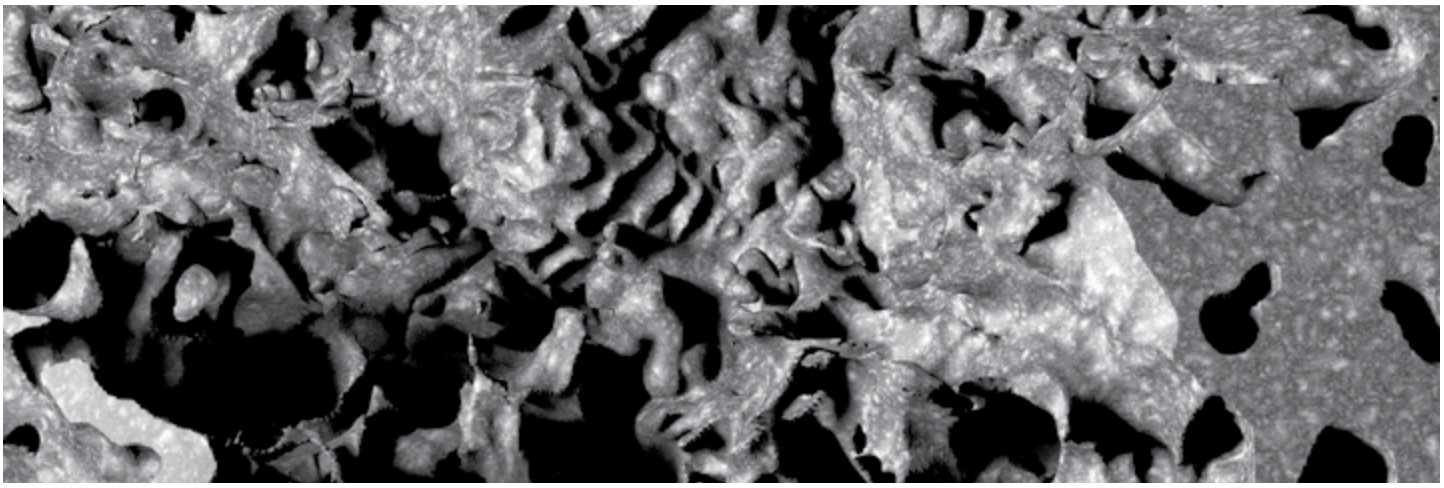
Ventilator One Speed
Max. Airflow: 3000 m³/h
Power: 270 W
Input: 230 V, 50/60 Hz, 1.18 A
Tmax: 50°C
Dimensions: 522 x 470 mm (WxH)
Weight: 14.20 Kg (15.24 Kg gwt.)
Pallet quantity: 16 pcs.
PK300/315

EC-Ventilator Speed-Adjustable
Max. Airflow: 4250 m³/h
Power: 500 W
Input: 230 V, 50/60 Hz, 2.2 A
Tmax: 50°C
Dimensions: 522 x 470 mm (WxH)
Weight: 14.20 Kg (15.24 Kg gwt.)
with RJ45 socket
Pallet quantity: 16 pcs.
PK300/315-EC

Tip

The PK300/315-EC is compatible with the ECTC-1M-Digital controller (see page 19)

Activated carbon filters 315 mm flange < 4700 m³/h



The inner structure of activated carbon, enlarged view (3D simulation)

Filter Industry Line
Length: 750 mm (w/o flange)
Max. Airflow: 2700 m³/h
Optimal Airflow: 1800 m³/h
Incl. pre-filter **K1713**
Weight: 22.3Kg
Carbon bed: 5cm
K1613

Filter Industry Line
Length: 1000 mm (w/o flange)
Max. Airflow: 3600 m³/h
Optimal Airflow: 2400 m³/h
Incl. pre-filter **K1714**
Weight: 32.7 Kg
Carbon bed: 5 cm
K1614

Filter Industry Line
Length: 1250 mm (w/o flange)
Max. Airflow: 4700 m³/h
Optimal Airflow: 2800 m³/h
Incl. pre-filter **K1715**
Weight: 38.8 Kg
Carbon bed: 5 cm
K1615

Fans 355/400 mm flange < 4400 m³/h
The royal league of fans

- ebm-papst motor (made in Germany)
- Extremely low noise even without silencing
- more than 80.000 hours of continuous operation
- maintenance-free, long-life precision ball bearing
- also operates in high humidity (max. 70%)
- adjustable speed and with thermal circuit breaker
- Practical double flange
- Exceeds the energy efficiency directive ErP2015

Ventilator One Speed
Max. Airflow: 4150 m³/h
Power: 470 W
Input: 230 V, 50/60 Hz, 2.33 A
Tmax: 65°C
Dimensions: 480 x 500 mm (WxH)
Weight: 18.50 Kg (20.58 Kg gwt.)
Pallet quantity: 16 pcs.
PK355/400

EC-Ventilator Speed-adjustable
Max. Airflow: 4400 m³/h
Power: 500 W
Input: 230 V, 50/60 Hz, 2.2 A
Tmax: 60°C
Dimensions: 480 x 500 mm (WxH)
Weight: 18.50 Kg (20.58 Kg gwt.)
with RJ45 socket
Pallet quantity: 16 pcs.
PK355/400-EC

Tip

PK355/400-EC and PK400/450-EC are compatible with the ECTC-1M-Digital controller (see page 19)

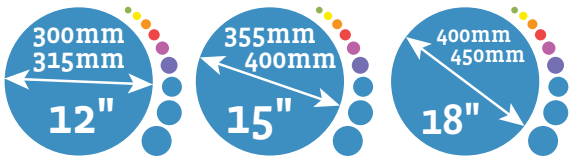
Activated carbon filters
400 mm flange < 5600 m³/h

Filter Industry Line
Length: 1000 mm (w/o flange)
Diameter: 600 mm
Max. Airflow: 4500 m³/h
Optimal Airflow: 3500 m³/h
Incl. pre-filter: **K1716**
Weight: 40.5 Kg
Carbon bed: 4 cm
Pallet quantity: 2 pcs.
K1616

Filter Industry Line
Length: 1250 mm (w/o flange)
Diameter: 600 mm
Max. Airflow: 5600 m³/h
Optimal Airflow: 4300 m³/h
Incl. pre-filter: **K1717**
Weight: 50.2 Kg
Carbon bed: 4 cm
Pallet quantity: 2 pcs.
K1617

Fan 400/450 mm flange < 6000 m³/h

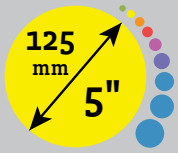
EC-Ventilator Speed-adjustable
Max. Airflow: 6000 m³/h
Power: 500 W
Input: 230 V, 50/60 Hz, 2.2 A
Tmax: 50°C
Dimensions: 520 x 600 mm (WxH)
Weight: 28.20 Kg (29.60 Kg gwt.)
with RJ45 socket
Pallet quantity: 12 pcs.
PK400/450-EC



Combo kit BLUE LINE fan with activated carbon filter < 6000 m³/h

- speed adjustable and with thermal circuit breaker
- complies with UL, CSA and VDE norms
- optimally adjusted pressure ratio

Article	Combination	Airflow	Product info
PK-Kombo-3000	PK300/315 & K1615	3000 m³/h	Page 28/29
PK-Kombo-4400-EC	PK355/400-EC & K1616	4400 m³/h	Page 30/31
PK-Kombo-6000-EC	PK400/450-EC & K1617	6000 m³/h	Page 31



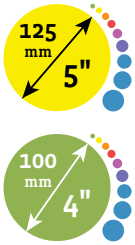
Combo kit PK125 fan with K2601-flat activated carbon filter

The primaklima K2601-flat activated carbon filter offers improved uniformity of contact time over the entire length of the carbon bed due to its larger distance between the flange and the carbon bed. With its dimensions, it fits the primaklima fan PK125 perfectly both physically, i.e. in terms of size, and physically in terms of pressure drop. In cases where odours are to be removed from smaller rooms without noise pollution, this compact combo kit is the first choice.

Article	Combination	Product info
K260FK-2501S	PK125-L & K2601-flat-125	Page 14/15
K260FK-2502S	PK125-2 & K2601-flat-125	
K260FK-250	PK125-TC & K2601-flat-125	

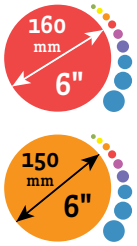
Tip

Accessories



Reduction flange
from 125 mm to 100 mm
FLRVK-125

Depth: 70 mm (32+38 mm)
125 mm inside Ø: 126 mm
125 mm outside Ø: 130 mm
100 mm inside Ø: 96 mm
100 mm outside Ø: 100 mm



Reduction flange
from 160 mm to 150 mm
FLRVK-160

Depth: 70 mm (32+38 mm)
160 mm inside Ø: 160 mm
160 mm outside Ø: 164 mm
150 mm inside Ø: 146 mm
150 mm outside Ø: 150 mm

The original fan controller, developed by primaklima in 1989. Often copied, but without matching our quality. It enables automatic control of intake and exhaust air depending on the temperature. If the setpoint temperature exceeds the actual value, the two fans increase to maximum output. The room is cooled. If the temperature falls below the setpoint, the fans regulate back to the set minimum value. In this way, the temperature in the room can be kept constant and the room does not cool down unnecessarily during the dark phase, as the intake and the exhaust air run at the adjustable minimum speed value.

Temperature controlled
Fan Controller
TRIO-2M

Maximum 2 x 300 W at 220/230 V, 50 Hz
Protection class: IP54
Temperature control range: 20 - 30°C
Hysteresis: 2°C
Sensor tolerance: 0.2°C

Mounting bracket for fans
BRKT-125/BRKT-160
BRKT-250

#Recycle

Why dispose of them? You can refill the primaklima activated carbon filters yourself!

Activated carbon
CTC75 20 Kg bag
K1802

Replacement pre-filter for Industry Line filters. Article number on the page of the respective activated carbon filter.

Activated carbon
3 mm pellets, 2.5 Kg box
K1803

Activated carbon
4 mm pellets, 2.5 Kg box
K1804

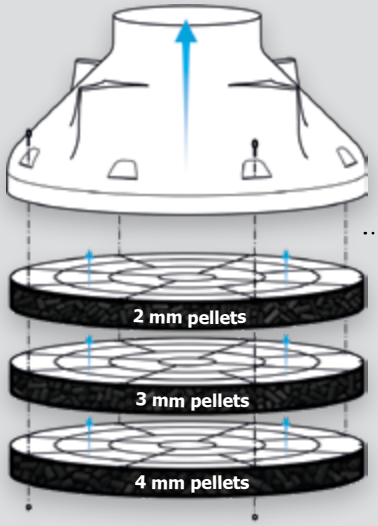
pitpuk™
Universal activated carbon odour filter system

Innovative product

MADE IN GERMANY

pit puk™

- effective removal of odours
- certified for residential use
- virgin carbon, no reactivated material
- 1 patent pending



pit

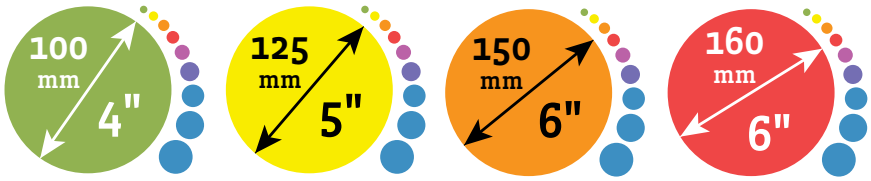
- Aerodynamically optimised shape

Accessories available:
- Mounting bracket, mounting screws, etc.
- Flange sizes from 100 to 160 mm
- Extremely impact-resistant and durable housing

puk

- Filter cassettes easily replaceable

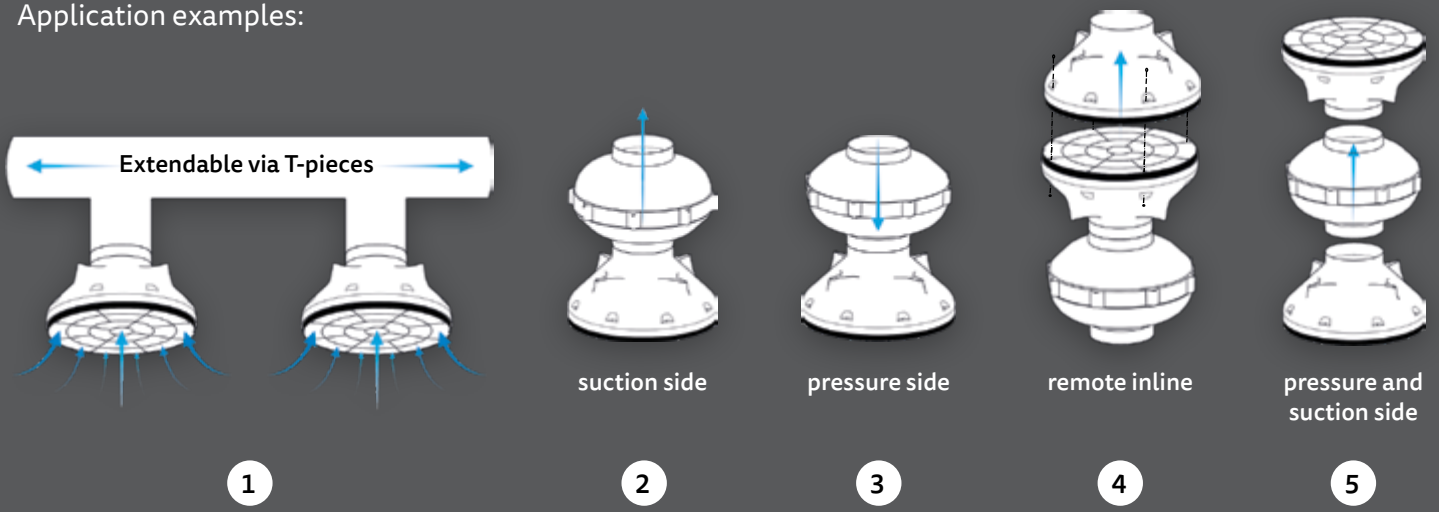
Three different types of activated carbon:
- CTC80 - 4 mm, 3 mm, 2 mm
- Optimum airflow per cassette: 160 m³/h
- Maximum airflow per cassette: 240 m³/h



Video Description

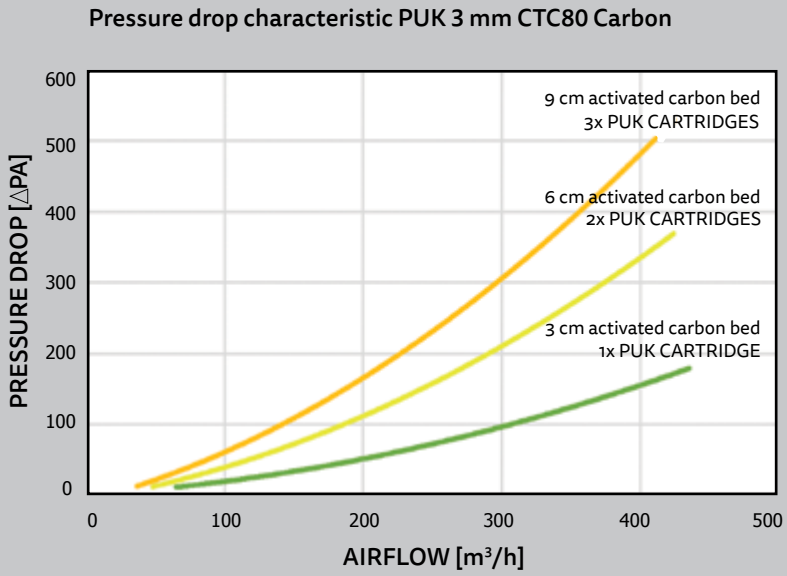
Please scan the QR Code

Application examples:



pitpuk™ – Sound level & pressure drop characteristics

- Mounting on suction side with bracket and fan
- Low noise with fan only **29 dB at 240 m³/h**

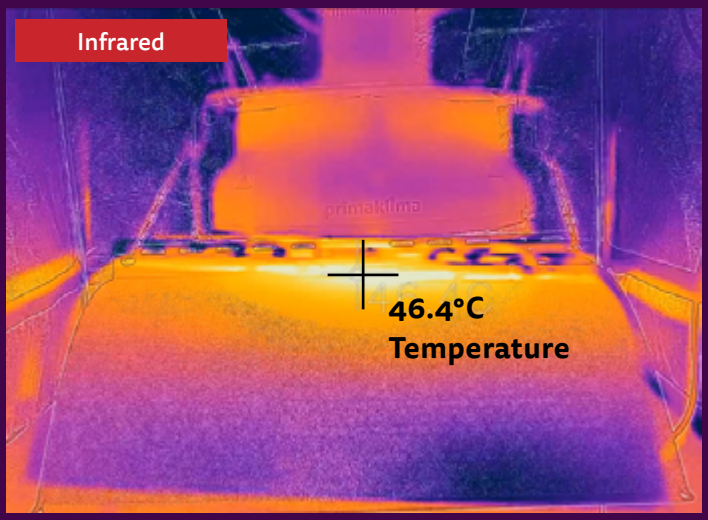


pitpuk™ – optimised cooling effect

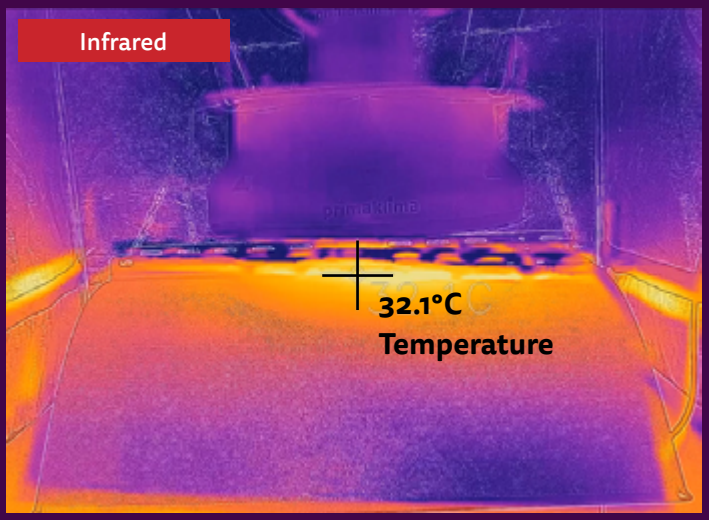
primaklima Testing devices:

Ventilator PK125-ECblue (Page 19)
Reflector Azerwing VPro (Page 52)
Lamp SUNKRAFT HPS600W (Page 60)

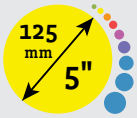
Ventilator OFF
Maximal Temperature 46.4°C



Ventilator ON
Temperature reduction from 46.4°C to 32.1°C

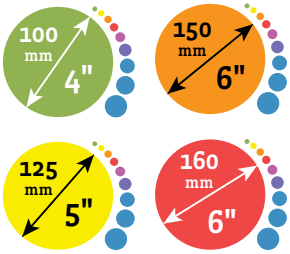


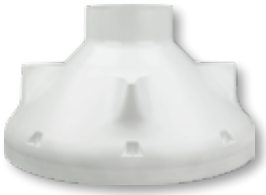
pitpuk™ – Data & Accessories



1x PIT125,
1x PUK360-3,
1x Horizontal Bracket,
8x 20 mm Z2 screws,
4x 57 mm PZ2 screws

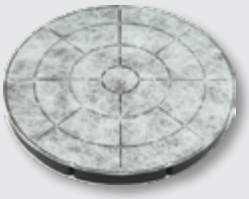
pitpuk™ Starter Kit 125 mm
Flange: 125 mm
Height: 213 mm
Width: 367 mm
Max. Airflow: 240 m³/h
Opti. Airflow: 160 m³/h
Weight: 2.94 Kg (3.72 Kg gwt.)
Activated carbon: CTC80 1 Kg
PITPUK-Kit125-3



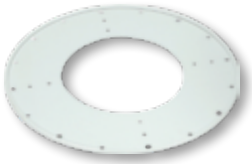


pit
Flange: 100, 125, 150 und 160 mm
Height: 205, 193, 180 und 180 mm
Width: 367 mm
Airflow max.: 240 m³/h
Airflow opti.: 160 m³/h
Weight: 0.66 Kg
PIT100, PIT125, PIT150, PIT160

New carbon, no reactivated material



puk Cartridge
with CTC80-3 mm Virgin Carbon
Height: 30 mm
Width: 360 mm
Airflow max.: 240 m³/h
Airflow opti.: 160 m³/h
Activated carbon: CTC80 1 Kg
Weight: 1.48 Kg (1.72 Kg gwt.)
PUK360-3



Horizontal Mounting bracket
Width: 380 mm
Weight: 0.74 Kg
Horizontal Bracket

Screws Kit 5.1x57 mm
Length: 57 mm
Width: 5.1 mm
Screw profiles: Pozidriv PZ2
Suitable for 1x PIT and 1x PUK
PUKSCREW57

Screws Kit 5.1x87 mm
Length: 87 mm
Width: 5.1 mm
Screw profiles: Pozidriv PZ2
Suitable for 1x PIT and 2x PUKs
PUKSCREW87

Screws Kit 5.1x117 mm
Length: 117 mm
Width: 5.1 mm
Screw profiles: Pozidriv PZ2
Suitable for 1x PIT and 3x PUKs
PUKSCREW117

Carbocone
Activated carbon filter with conical inner basket

Patented system

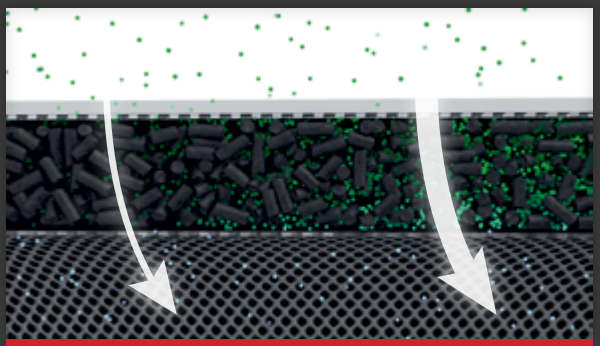
Carbocone

Discover the next dimension in filter technology: the new development of our activated carbon filter with conical inner basket. Patented technology for significantly more efficiency, longer service life and a better climate.

Got curious?
Simply scan the QR code with your smartphone for more information about the new Carbocone filter.

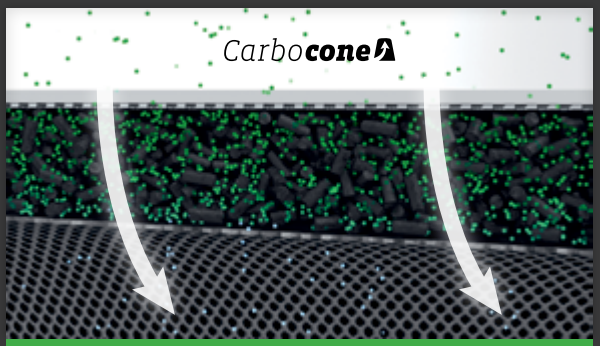
- 30% better adsorption efficiency
- Service life up to 3 years
- refillable
- CTC65 granulated carbon
- CTC75 pellet carbon

Conventional activated carbon filter with long service life



Uneven saturation of the activated carbon

Carbocone activated carbon filter with long service life

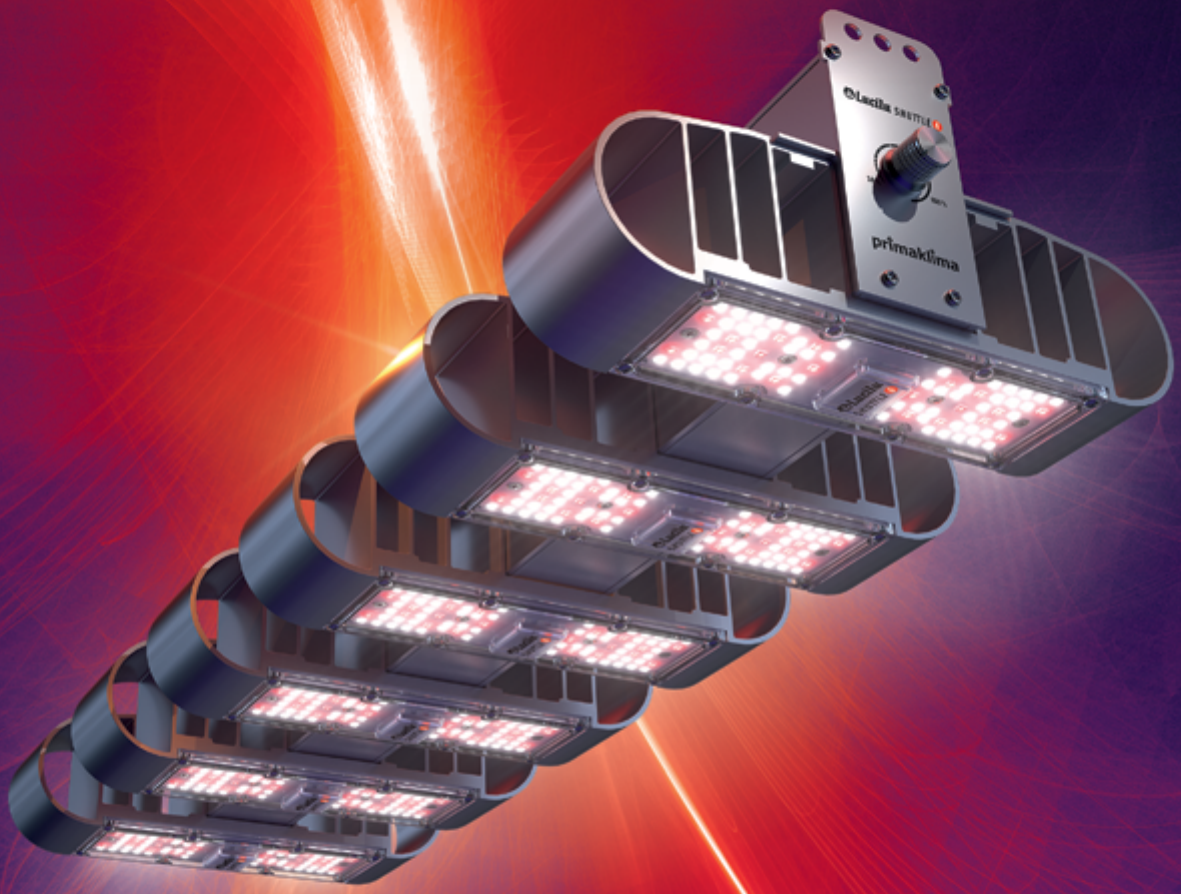


Even saturation of the activated carbon

Strong suction pressure to the fan

Article	Flange mm	Height mm	Width mm	Max. Airflow m³/h	Activated Carbon Kg	Weight Kg	Max. Humidity %
K4600-CTC65	100	500	180	400	3.85	5.5	70
K4601-CTC65	125	625	200	600	5.45	7.75	70
K4602-CTC65	150	750	230	900	8.05	11.2	70
K4603-CTC65	160	800	240	1000	8.8	12.5	70
K4604-CTC65	200	1000	280	1400	13.05	18.1	70
K4605-CTC65	250	1050	415	3000	29.45	38	70
K3600-CTC75	100	500	180	400	2.65	4.3	90
K3601-CTC75	125	625	200	800	3.95	6.25	90
K3602-CTC75	150	750	230	900	5.6	8.75	90
K3603-CTC75	160	800	240	1000	6	9.7	90
K3604-CTC75	200	1000	280	1400	9.15	14.2	90
K3605-CTC75	250	1050	415	3000	23.05	31.6	90

Lucilu Shuttle6
Highly efficient LED grow light



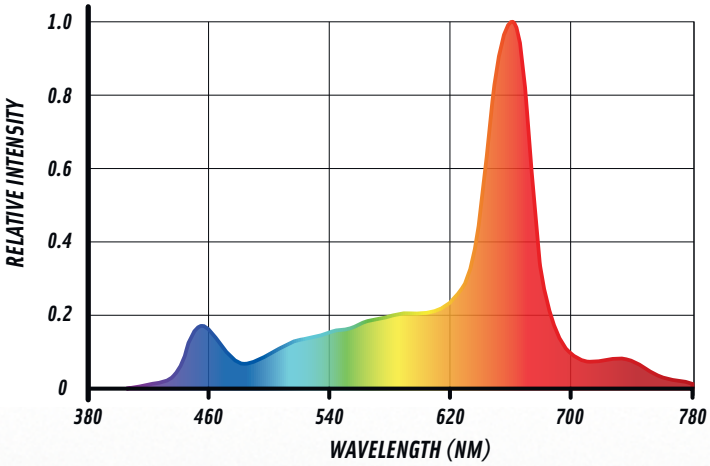
The New Light Generation

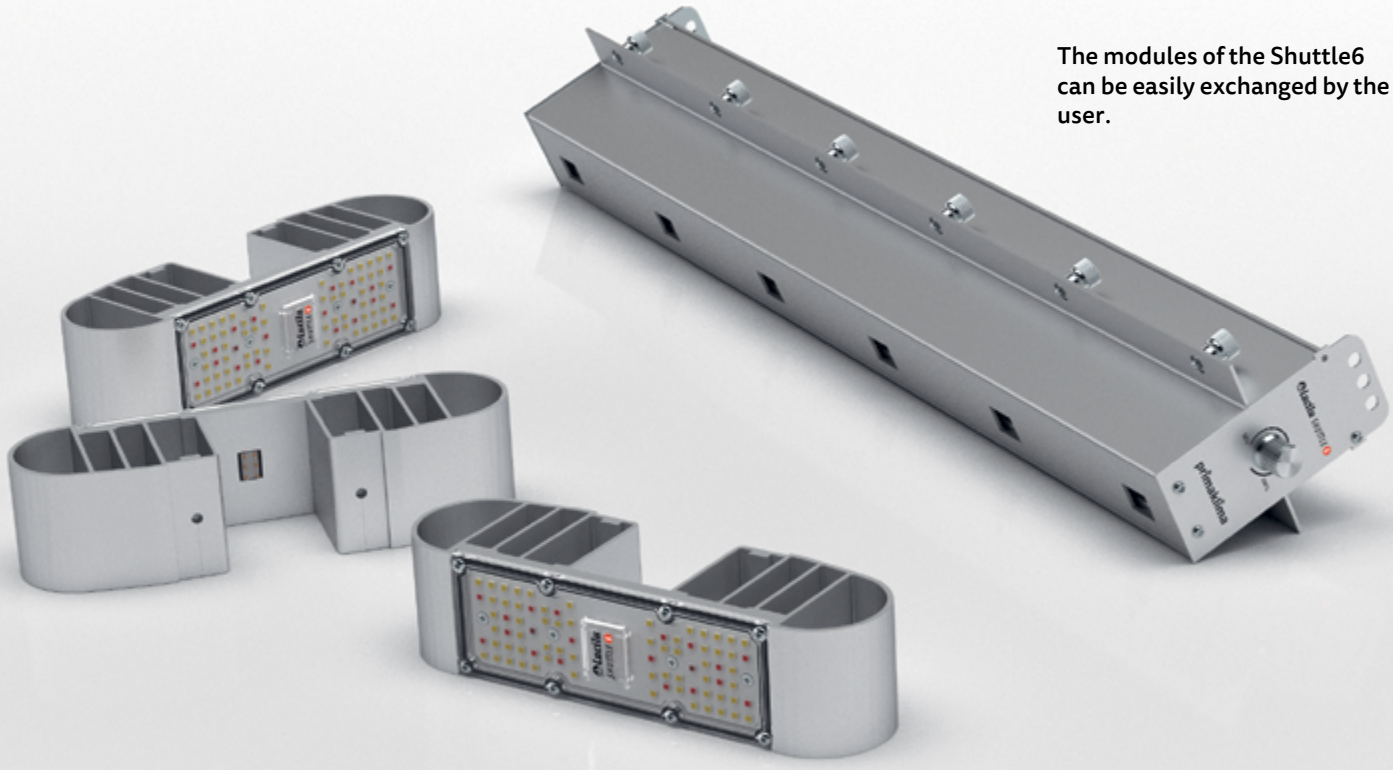
LED plant lights have established themselves on the market in recent years and for good reasons: In terms of power consumption and light quality, LED technology is often far superior to other light sources. It goes without saying that primaklima uses LEDs in its lamp technology in order to take advantage of their benefits.

Our aim was to develop an ideal light for plant cultivation that focuses on the essentials: optimum light spectrum, highest possible efficiency, maximum service life, easy cleaning, replaceable LED modules in different spectra and dimmability.
All this at an affordable price and with a 3-year warranty!

Lucilu SHUTTLE 6

- 108 OSRAM OSLON SSL 660nm red
- 12 OSRAM OSLON SSL 730nm far red
- 360 LUMILEDS white-blue
- Even light distribution
- 120° Beamangle
- Passive cooling
- Easily exchangeable modules
- Dimmable 10-100%
- IP40 Water and dust protection
- For growth and flowering
- Extra modules available





The modules of the Shuttle6 can be easily exchanged by the user.

Lucilu Shuttle6 LED grow light

LED grow light
dimmable silver
Power: 240 W
PPF: > 552 µmol/s
Light efficiency: > 2.7 µmol/J
Voltage: 220-240 V
Current: 1.15 A
Dimensions: 61.1 x 22.4 x 12.8 cm
Weight: 5.5 Kg
shuttle6ds

Hint

A Shuttle6 is supplied with:

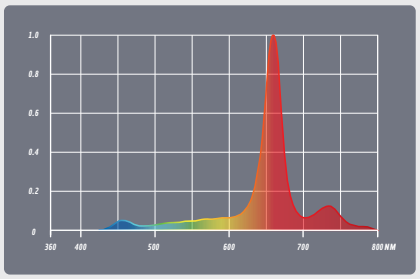
- 3.2 m power cable
- 2 hanging hooks
- Instructions

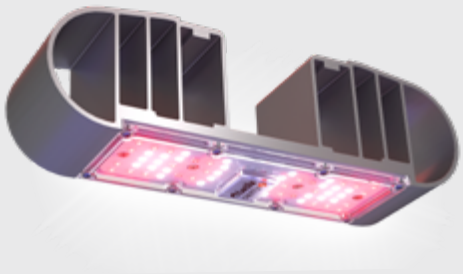
LED grow light
dimmable black
Power: 240 W
PPF: > 552 µmol/s
Light efficiency: > 2.7 µmol/J
Voltage: 220-240 V
Current: 1.15 A
Dimensions: 61.1 x 22.4 x 12.8 cm
Weight: 5.5 Kg
shuttle6db

LED grow light
non-dimmable silver
Power: 240 W
PPF: > 552 µmol/s
Light efficiency: > 2.7 µmol/J
Voltage: 220-240 V
Current: 1.15 A
Dimensions: 61.1 x 22.4 x 12.8 cm
Weight: 5.5 Kg
shuttle6nds

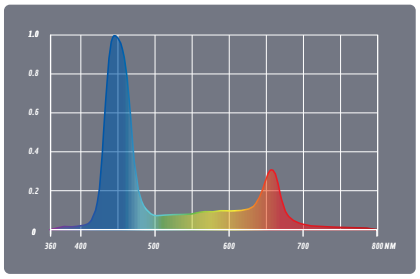
LED grow light
non-dimmable black
Power: 240 W
PPF: > 552 µmol/s
Light efficiency: > 2.7 µmol/J
Voltage: 220-240 V
Current: 1.15 A
Dimensions: 61.1 x 22.4 x 12.8 cm
Weight: 5.5 kwg
shuttle6ndb

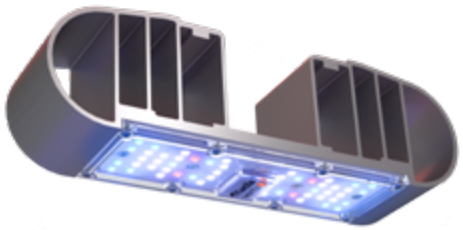
Shuttle6 extra modules





BloomBoost Module
Power: 40 W
PPF: > 660 µmol/s
Light efficiency: > 2.9* µmol/J
Voltage: 78 VDC
Current: 0.5 A
shuttle6-bbmod





GrowBoost Module
Power: 40 W
PPF: > 508 µmol/s
Light efficiency: > 2.9* µmol/J
Voltage: 78 VDC
Current: 0.5 A
shuttle6-gbmod

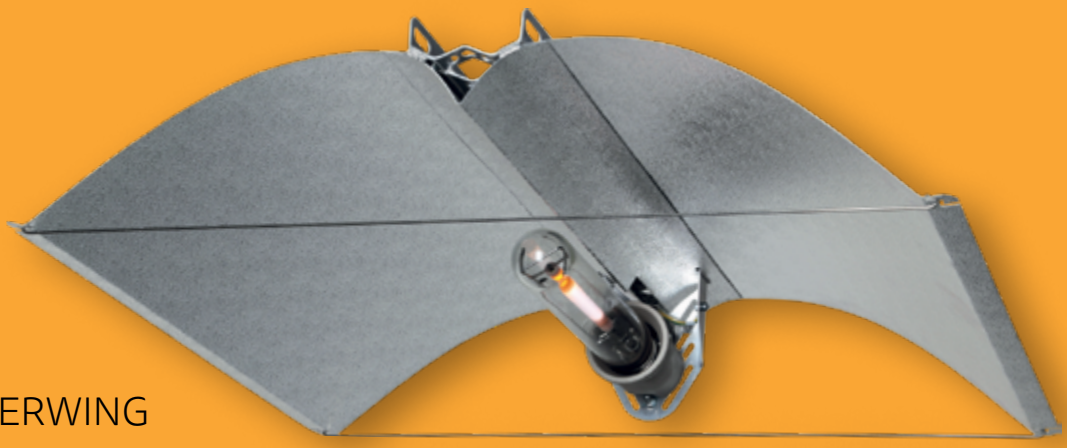
*2.9 µmol/J (2.7 µmol/J with polycarbonate cover)

For all those who want to fine tune the light spectrum even more precisely, two additional modules are now available: the GrowBoost module with an increased blue component and the BloomBoost module with an increased red component. Since version 2 of the Shuttle6 (mid 2020), the modules are compatible with each other and can be interchanged as required. The number and position of the modules can be selected individually – but at least 2 modules should always be active.

Osram® horticulture technology
At primaklima, we use only the best components, such as the new, more powerful LEDs from the OSLON SSL family with well-known high robustness and reliability, with a long service life and low thermal resistance. Specially developed for horticultural lights where high efficiency and long service life are required.

The intelligent power supply driver.
The Shuttle6 automatically detects how many modules are present. If, for example, two modules are removed, the power supply driver automatically reduces the current in order to prevent unnecessary load on the active modules. This allows the light output to be precisely reduced and power consumption to be lowered.
We continuously optimize our product: In the latest version (since mid-2020), the modules can be reinserted after being rotated by 180° to deactivate the lamps. This prevents accidental contact or dirtying of the exposed contacts. A maximum of 4 modules on one lamp could be deactivated simultaneously.

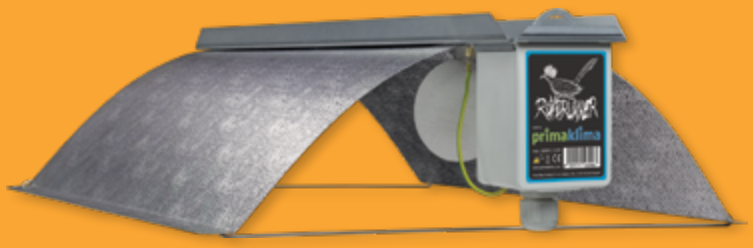
High-intensity discharge lamp technology



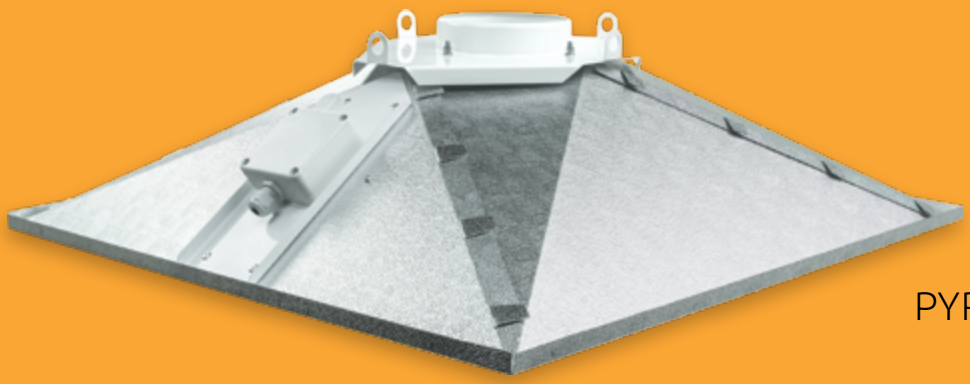
AZERWING

AZERWING VPRO

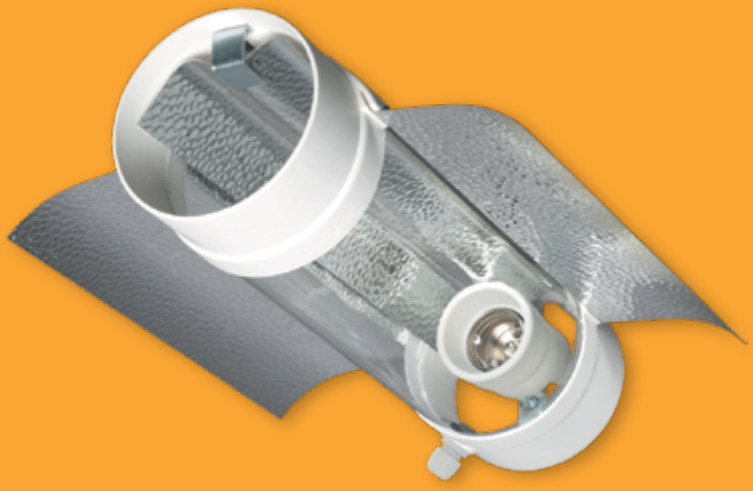
ROAD RUNNER



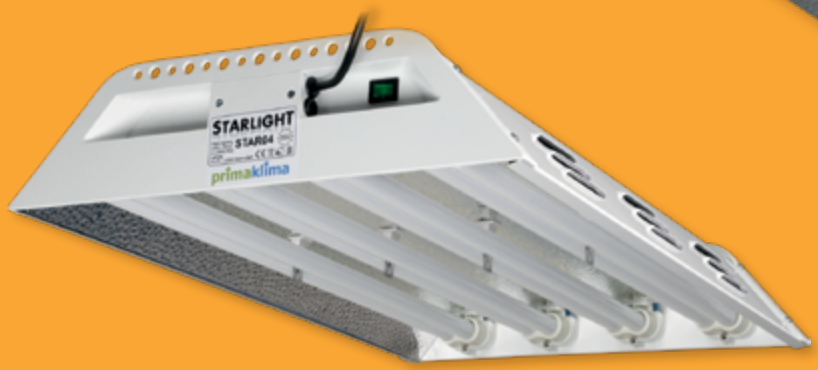
Primaklima still produces reflectors for the friends of this technology. We use PVD-coated aluminium with a total reflection of up to 95%. The favourable price compared to LED technology and the further increased efficiency of the light sources enable newcomers in particular to achieve excellent results at a very favourable entry price. Friends of green light will find the HPS technology an equivalent alternative to LEDS with green light.



PYRAMID OPTOMIZER



COOLTUBE



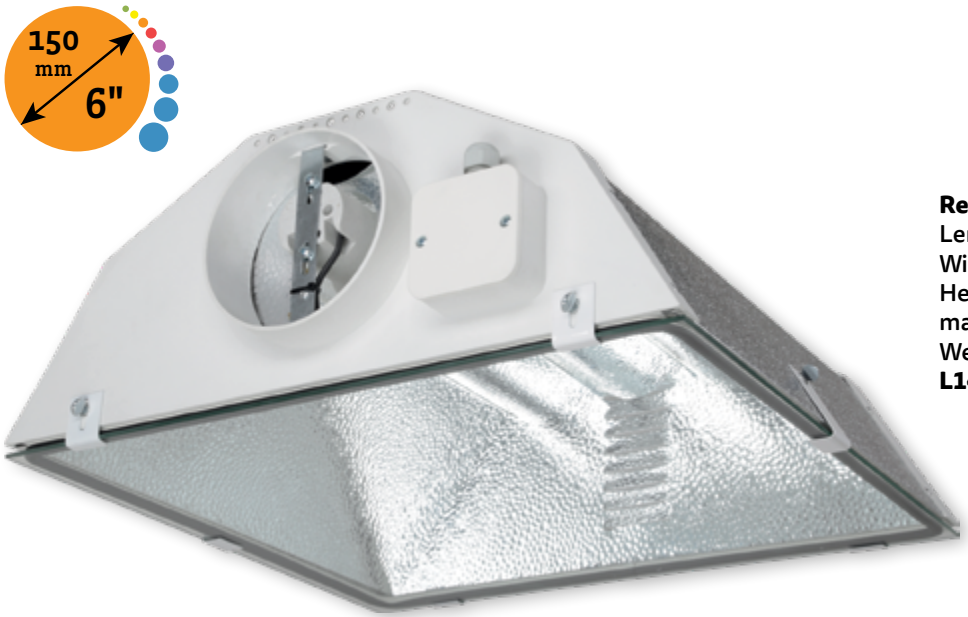
STARLIGHT

SPUDNIK

Spudnik, air-cooled reflector

- PVD coated aluminium with 95% reflection
- increased PAR yield by 15%
- Double-walled housing with tunnel cooling effect
- ground solar safety glass with 93% transmission
- pre-wired junction box
- E40 ceramic lampholder (made in Italy) with CE certificate

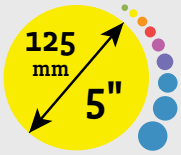
Reflector Spudnik
Length: 463 mm with flange
Width: 450 mm
Height: 180 mm
max. 600 W
Weight: 3.66 Kg
L1400/125

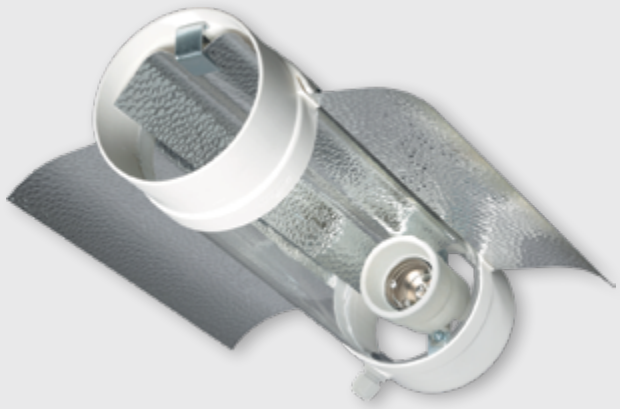


Reflector Spudnik
Length: 565 mm with flange
Width: 555 mm
Height: 215 mm
max. 1000 W
Weight: 5.50 Kg
L1400/150

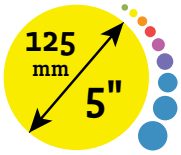
Cooltube, air-cooled reflector

- BSG glass tube with high light transmission
- environmentally friendly coated aluminium (PVD)
- easy adjustment of the outer reflectors
- 360° mode possible by removing the reflectors
- Tunnel cooling effect: small distance to plant canopy possible

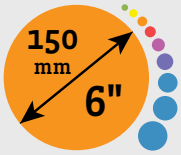


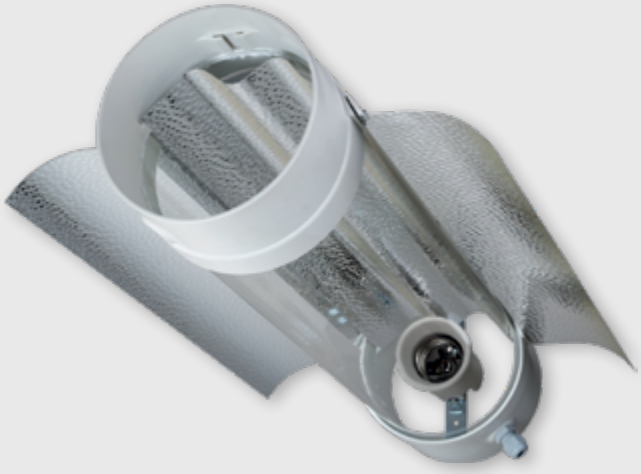


Reflector Cooltube
Length: 425 mm with flange
Width: ~ 340 mm
Height: 150 mm
max. 600 W
Weight: 1.42 Kg
L2010



Reflector Cooltube
Length: 505 mm with flange
Width: ~ 340 mm
Height: 150 mm
max. 600 W
Weight: 1.60 Kg
L2015

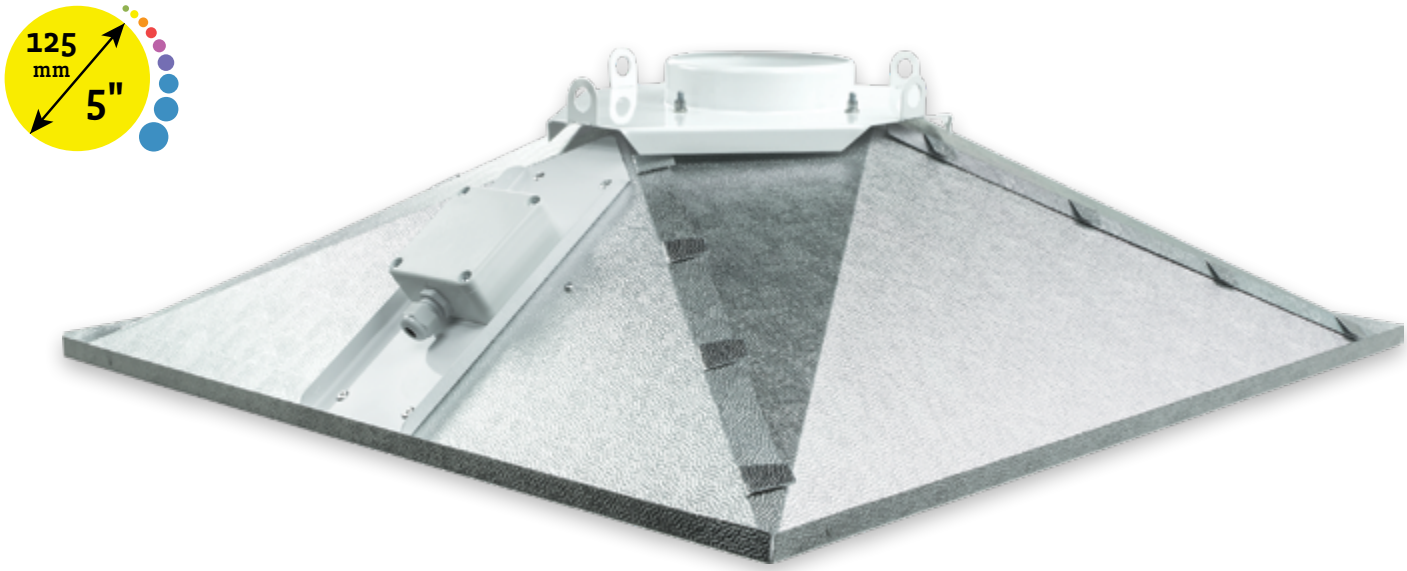


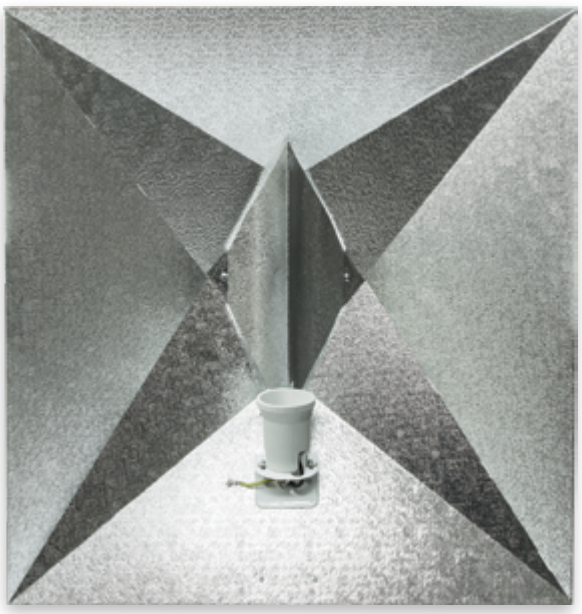


Reflector Cooltube
Length: 622 mm with flange
Width: ~ 360 mm
Height: 170 mm
max. 1000 W
Weight: 2.42 Kg
L2020

Pyramid Optomizer, air-cooled reflector

- E40 or CMH socket for HPS or MH lamps
- Illumination without hotspots
- PVD coated aluminium with 95% reflection MADE IN GERMANY
- Centre reflector with acute angle for maximum light output
- Optimum heat dissipation
- unique: air exhaust to the top





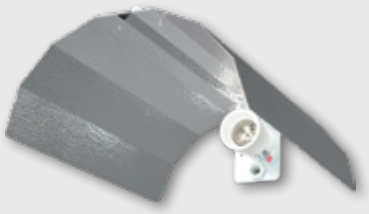
OPTOMISER™
Pyramid reflector

Reflector Optomizer
Length: 680 mm
Width: 624 mm
Height: 197 mm
Max.: 1000 W
Thread: E40
Weight: 2.15 Kg
L1500-V

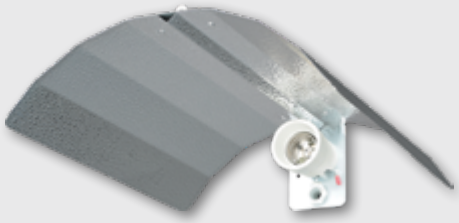
Euro reflector

Top price-performance

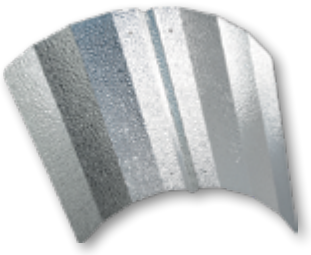
- Inexpensive and efficient, pre-assembled on request
- E40 ceramic lampholder
- HPS and MH lamps between 250 - 1000 W



Euro Reflector
Length: 420 mm
Width: ~ 380 mm
Height: 135 mm
max. 1000 W
Weight: 0.56 Kg
LE420



Euro Reflector
Length: 470 mm
Width: ~ 400 mm
Height: 135 mm
max. 1000 W
Weight: 0.86 Kg
LE470



Reflektor sheet
Length: 420 mm
Width: ~ 380 mm
Height: 120 mm
Dimensions: 420 x 470 mm
LE42R

Reflector sheet
Length: 470 mm
Width: ~ 400 mm
Height: 120 mm
Dimensions: 470 x 500 mm
LE47R

Lamp holder
Lamp holder E40
with CE-Certificate
and fastening straps
LE40

Lamp Adapter
from E40 to PGZ18
Adapter E40 to PGZ18

Mounting brackets
Length: 420 mm
Height: 115 mm
LE42BS

Mounting brackets
Length: 470 mm
Height: 150 mm
With reinforcing panel
LE47BL

Mounting kit
L4224B

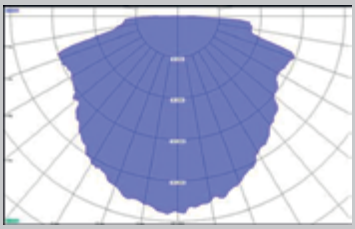
Azerwing

- Patented in Europe
- Choice of two reflector materials
- Europe Patent No. EP3070397

Reflector material A, manufactured in Italy, is made of anodised aluminium. After the embossing process, the powerful reflection is up to 86%.

Our reflector material V comes from Germany. A unique PVD 4-layer system ensures a fabulous reflection of up to 95% after the embossing process.

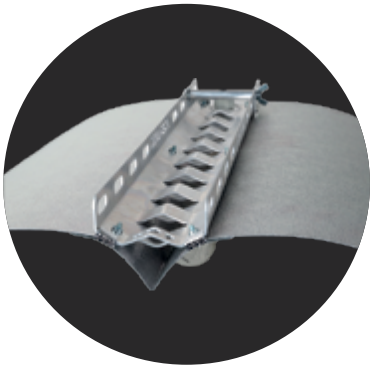
A big advantage of the Azerwing is its even light distribution without hotspots.



AZERWING

Adjustable angle of inclination of the lamp.

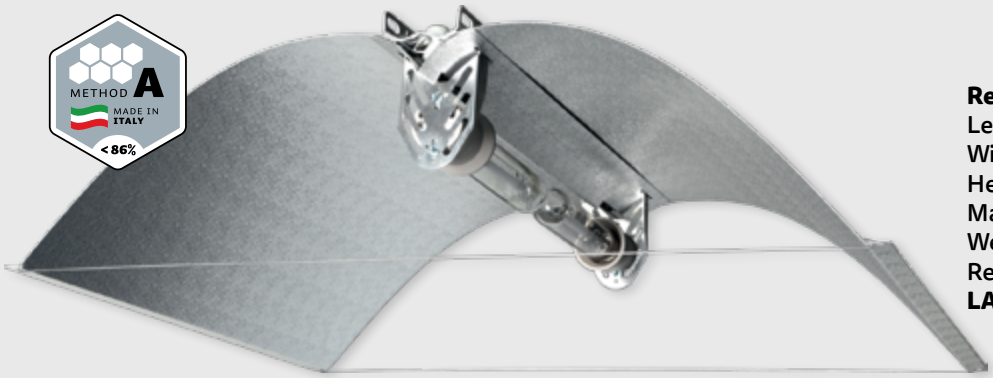
Centre reflector with pointed stable back angle for maximum light output.



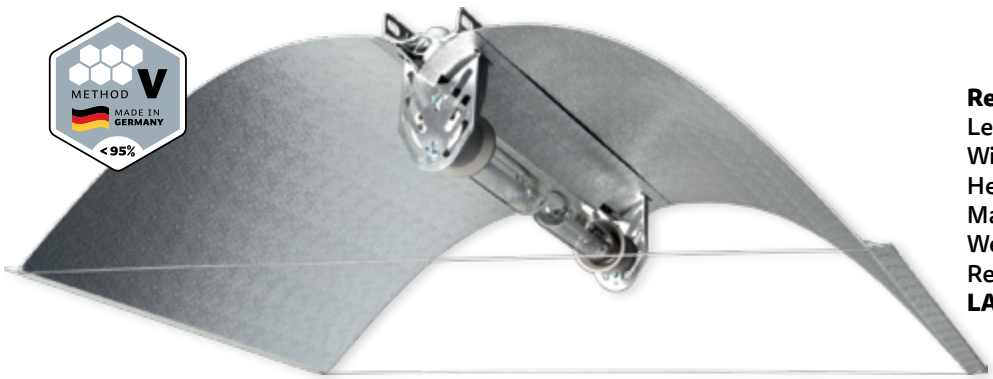
Sturdy back part
- for perfect symmetry
- optimal cooling
- flexible fastening

Reflector Azerwing
Length: 550 mm
Width: ~ 500-710 mm
Height: ~ 150-200 mm
Max. 1000 W
Weight: 1.8 Kg
Reflector without bulb
LA55-A

Reflector Azerwing
Length: 550 mm
Width: ~ 500-710 mm
Height: ~ 150-200 mm
Max. 1000 W
Weight: 1.8 Kg
Reflector without bulb
LA55-V



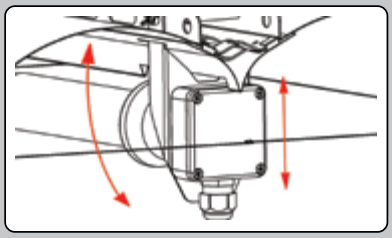
Reflector Azerwing
Length: 750 mm
Width: ~ 500-950 mm
Height: ~ 250-380 mm
Max. 2 x 600 W
Weight: 3.1 Kg
Reflector without bulb
LA75-A



Reflector Azerwing
Length: 750 mm
Width: ~ 500-950 mm
Height: ~ 250-380 mm
Max. 2 x 600 W
Weight: 3.1 Kg
Reflector without bulb
LA75-V

Azerwing Vpro

- Electrical connection box pre-wired
- Height and inclination of the light adjustable



Reflector Azerwing Vpro
Length: 550 mm
Width: ~500-710 mm
Height: ~150-200 mm
Lamp holder: E40
Weight: 1.8 Kg
LA55-Vpro

Reflector Azerwing Vpro
Length: 550 mm
Width: ~500-710 mm
Height: ~150-200 mm
Lamp holder: E40
Weight: 2.1 Kg
Bulb included:
SUNKRAFT HPS 600W (page: 60)
LA55-Vpro-S

Reflector Azerwing Vpro CMH
Length: 550 mm
Width: ~500-710 mm
Height: ~150-200 mm
Lamp holder: PGZ18
Weight: 1.8 Kg
LA55-Vpro-CMH

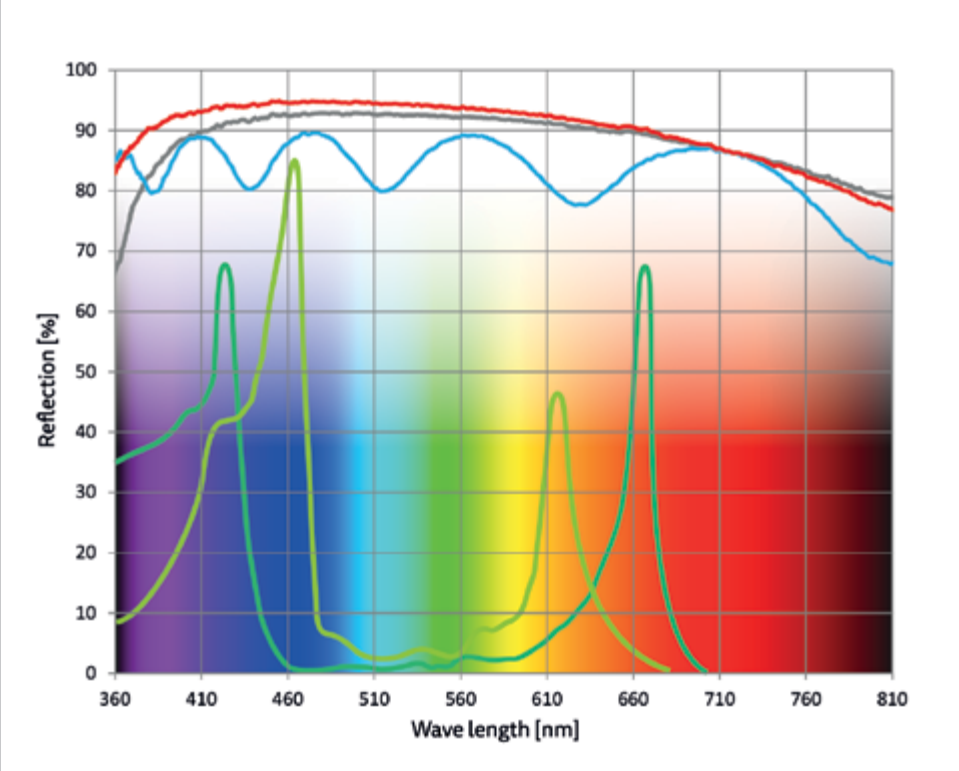
Bulbs see page 59

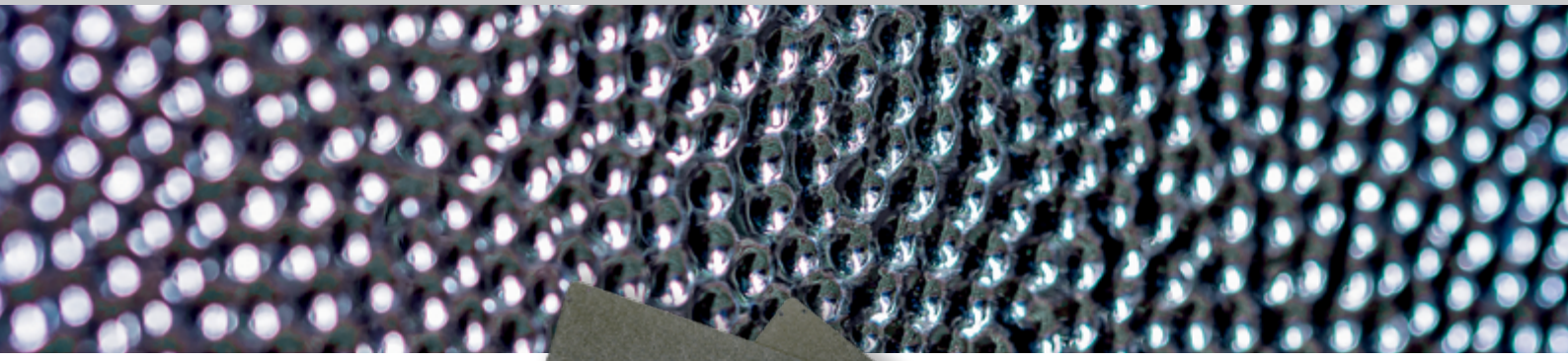
Yield Panel

- Add-on reflective panel for maximised PAR yield

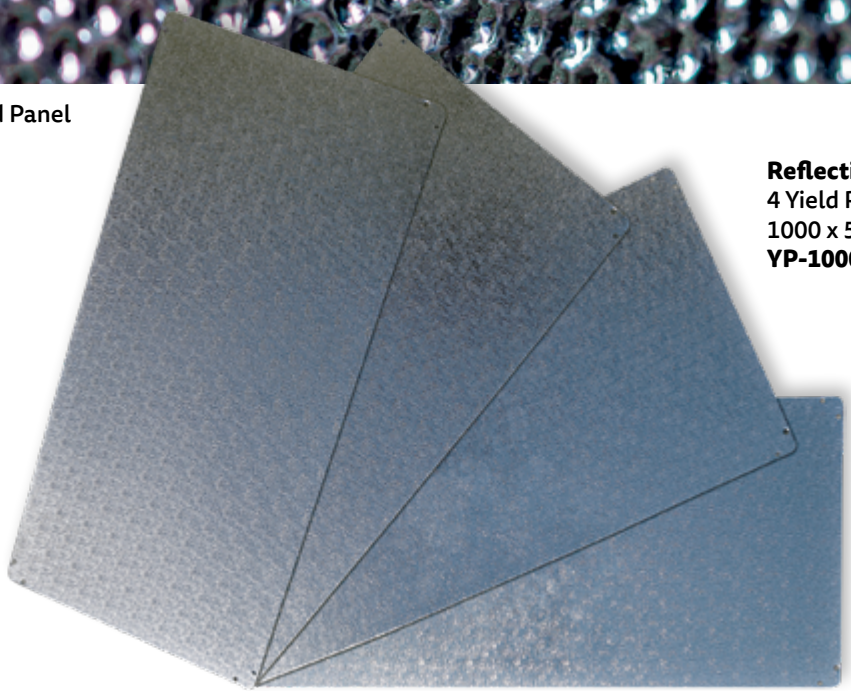
Mean values from report: Spectral reflection on reflectors, 14.12.2015, opsira GmbH, Germany. country:

- Absorption Chlorophyll a
- Absorption Chlorophyll b
- AZERWING V / Yield Panel
- AZERWING A
- Reflector competitor





Macro photography of the Yield Panel



Reflection sheet Yield Panel™
4 Yield Panels
1000 x 500 x 0.5 mm
YP-1000

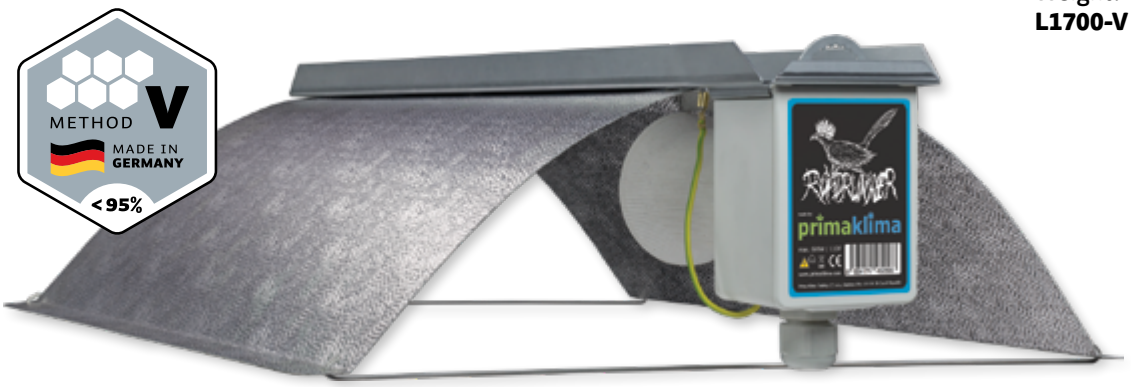
Got curious?
Simply scan the QR code with your smartphone for more information about the Yield Panel.

Road Runner

- low weight
- quick assembly

The new primaklima Road Runner reflector enables a very fast set-up. Ideal for growers who move frequently. The proven wing shape guarantees best illumination and top results.

Reflector Road Runner
Length: 500 mm
Width: 420 mm
Height: 130 mm
Max.: 600 W / 110 V
Socket: E40
Weight: 1.15 Kg
L1700-V



Starlight

The Starlight plant light is the perfect all-in-one solution for the vegetative growth phase and has been specially developed for growing seedlings and cuttings. The size is adapted to the propagation greenhouses available on the market. The 55 W OSRAM energy-saving lamps included in the scope of delivery are ideal for the cultivation and growth of plants due to their colour spectrum. Because of the low heat generation, this light can be placed close to the object, which is extremely efficient. The reflector is made of high-quality hammered aluminium. The bright white painted steel sheet housing is very robust, heat-resistant and has practical suspension eyelets. The luminaire is fully equipped with an off switch and power cord. The electrical components are exclusively »Made in Germany«. Durable and robust quality for professional use.

STARLIGHT

Grow light Starlight
Length: 578 mm
Width: ~ 386 mm
Height: 95 mm
Power: 2x 55 W
Weight: 2.64 Kg
STAR02

Grow light Starlight
Length: 578 mm
Width: ~ 386 mm
Height: 95 mm
Power: 4x 55 W
Weight: 2.88 Kg
STAR04

Electronic ballasts

- 3 years warranty
- Does not generate reactive current in the grid
- No-load fuse, short-circuit protection
- Overheating protection increases service life
- Over- and undervoltage protection
- Interference-free according to EMC
- With high-quality ferrite core in the cable
- Hum-free
- Soft start for long lamp life
- For HPS and MH lamps

The electronic ballasts of the LUCILU series ensure a significantly longer life of the connected lamp due to their sophisticated soft start function with low starting current. The ballast operates almost loss-free and is perfectly shielded against escaping radiation of any frequencies. The higher operating frequency ensures flicker-free operation and therefore better light quality. The LUCILU is fully equipped with a microfuse, a power cable and a four-metre connecting cable for connecting the reflector. It operates almost hum-free, soft rubber feet ensure a safe stand and dampen the last vibrations for a quiet operation. In addition to the long and efficient cooling fins, the elaborate housing made of extruded aluminium also houses a nut rail for suspended mounting.

A LUCILU is equally suitable for operating metal halide lamps (MH) and high-pressure sodium lamps (HPS) and is available in the five classic wattages:

dimmable

Electronic ballast
Power: 315 W
Pallet quantity: 120 pcs.
Weight: 2.37 Kg (2.78 Kg Gwt.)
LUCILU E-Ballast LC315W

Electronic ballast
Power: 250 W
Pallet quantity: 120 pcs.
Weight: 2.14 Kg (2.58 Kg Gwt.)
LUCILU E-Ballast LC250

Electronic ballast
Power: 400 W
Pallet quantity: 120 pcs.
Weight: 2.56 Kg (2.96 Kg Gwt.)
LUCILU E-Ballast LC400

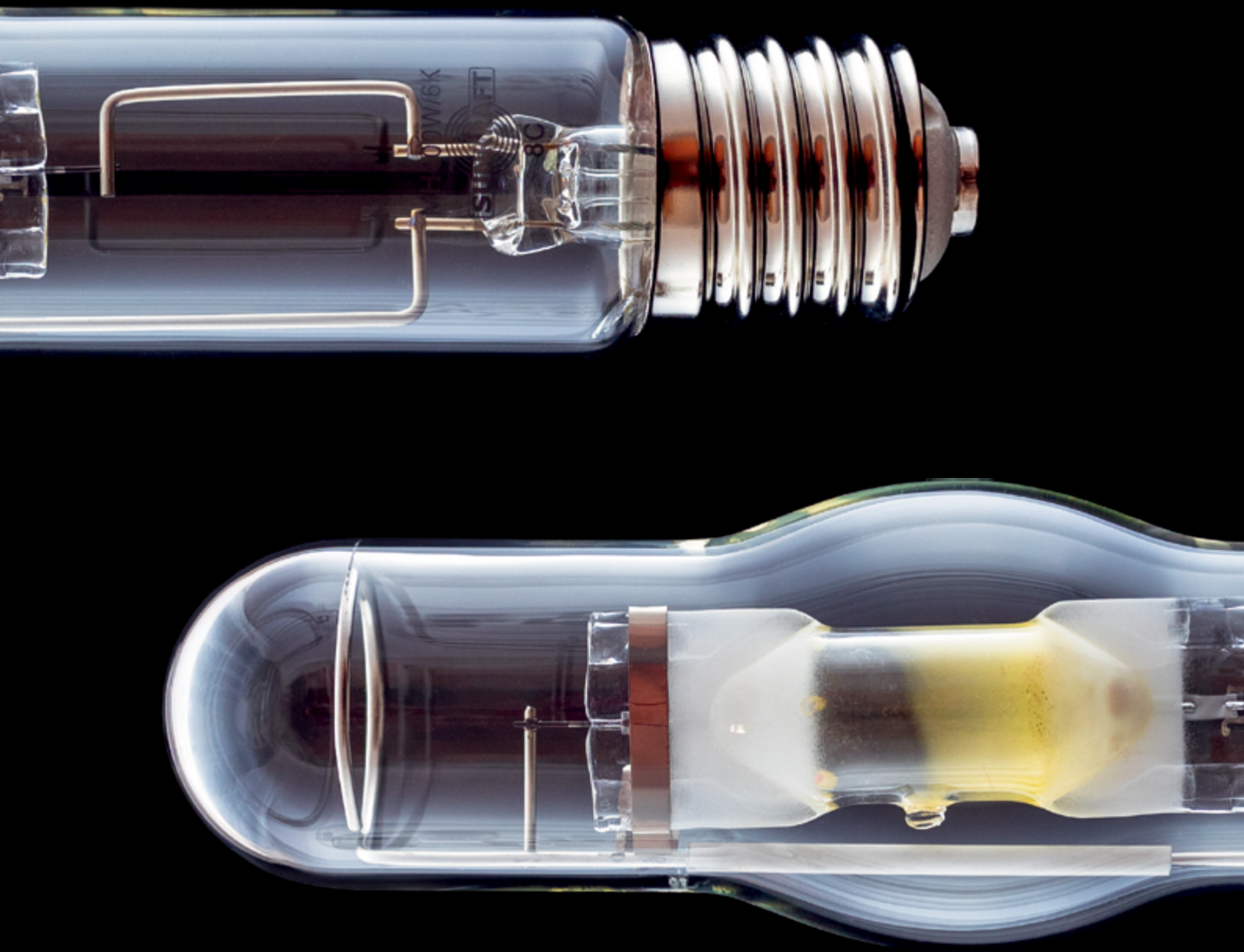
Electronic ballast
Power: 600 W
Pallet quantity: 120 pcs.
Weight: 2.98 Kg (3.46 Kg Gwt.)
LUCILU E-Ballast LC600

dimmable

Electronic ballast
Power: 0-600 W
Pallet quantity: 120 pcs.
Weight: 2.62 Kg (3.12 Kg Gwt.)
LUCILU E-Ballast switchable LC600D

Electronic ballast
Power: 1000 W
Input: 230V
Output: 400V
Pallet quantity: 120 pcs.
Weight: 5.32 Kg
LUCILU E-Ballast LC1000

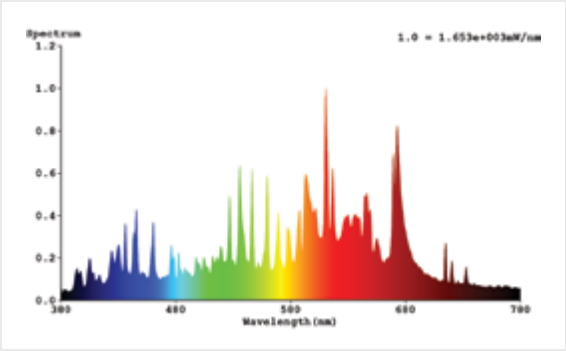
Lamps for ballasts



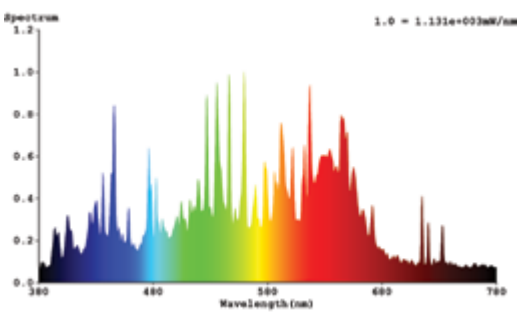
CMH lamps

The SUNKRAFT CMH lamps (Ceramic Metal halide) is a new generation of metal halide lamps (MH).

The technology enables highest efficiency and a long-term constant lumen per watt output of 116.83. No losses at high temperatures. The spectrum is 95% similar to that of the sun. Socket PGZ, high quality burner made in Holland.

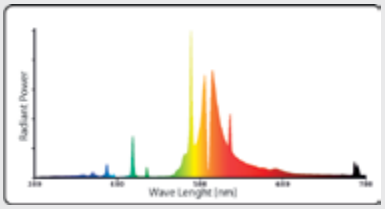


SUNKRAFT CMH lamp
Power: 315 W
Luminous flux: 35.400 lm
Colour temperature: 3.100 K
Voltage: 100 V
Current: 3.15 A
Expected service life: 12.000 h
Socket: PGZ18
Weight: 194 g (231 g Gwt.)
SUNKRAFT CMH315W-3100K

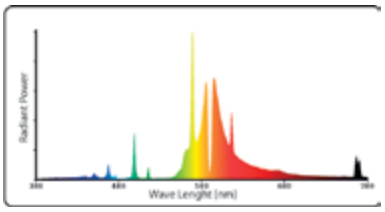


SUNKRAFT CMH lamp
Power: 315 W
Luminous flux: 36.800lm
Colour temperature: 4.000 K
Voltage: 100 V
Current: 3.15 A
Expected service life: 12.000 h
Socket: PGZ18
Weight: 190 g (227 g Gwt.)
SUNKRAFT CMH315W-4000K

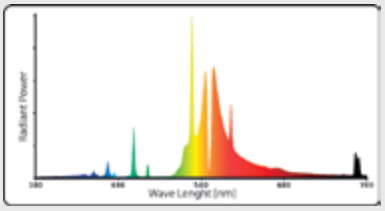
Sodium vapour lamps (HPS)



SUNKRAFT HPS Lamp
Power: 250W
Luminous flux: 33.000 lm
Colour temperature: 2.000 K
Voltage: 100 V
Current: 3.0 A
Expected service life: 28.000 h
Socket: E40
SUNKRAFT HPS 250W

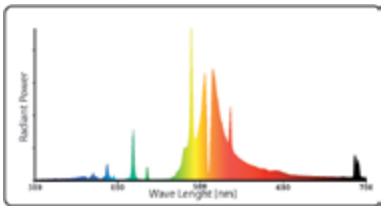


SUNKRAFT HPS Lamp
Power: 400 W
Luminous flux: 53.500 lm
Colour temperature: 2.000 K
Voltage: 100 V
Current: 4.6 A
Expected service life: 32.000 h
Socket: E40
SUNKRAFT HPS 400W

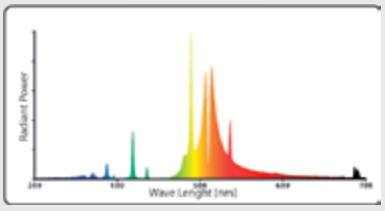


SUNKRAFT HPS Lamp
Power: 600 W
Luminous flux: 90.000 lm
Colour temperature: 2.000 K
Voltage: 110 V
Current: 6.1 A
Expected service life: 28.000 h
Socket: E40
SUNKRAFT HPS 600W

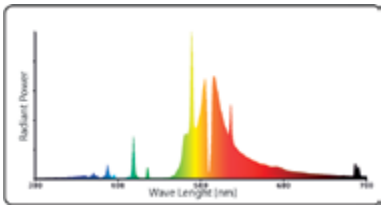
Tip



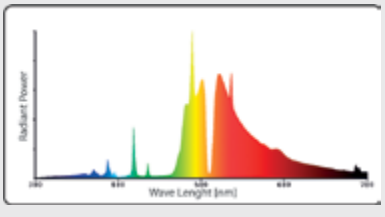
SUNKRAFT HPS Lamp
Power: 600 W
Luminous flux: 90.000 lm
Colour temperature: 2.000 K
Voltage: 110 V
Current: 6.1 A
Expected service life: 28.000 h
Socket: E40
SUNKRAFT HPS 600W PLUS



SUNKRAFT HPS Lamp
Power: 1000 W
Luminous flux: 130.000 lm
Colour temperature: 2.000 K
Voltage: 110 V
Current: 10.3 A
Expected service life: 24.000 h
Socket: E40
SUNKRAFT HPS 1000W

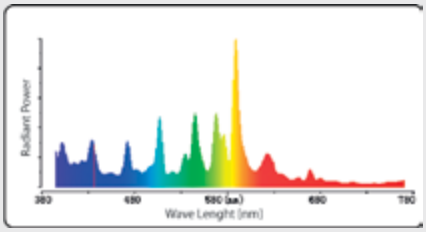


SUNKRAFT HPS Lamp
Power: 600 W
Luminous flux: 86.000 lm
Colour temperature: 2.000 K
Voltage: 190 V
Current: 3.6 A
Expected service life: 10.000 h
Socket: Double Ended
SUNKRAFT HPS 600W/400V-DE

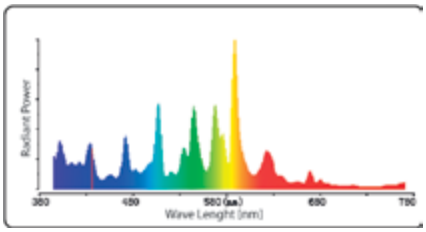


SUNKRAFT HPS Lamp
Power: 1.000 W
Luminous flux: 146.000 lm
Colour temperature: 2.000 K
Voltage: 230 V
Current: 5.2 A
Expected service life: 10.000 h
Socket: Double Ended
SUNKRAFT HPS 1000W/400V-DE

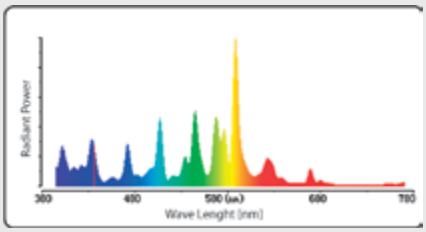
Metal halide lamps (MH)



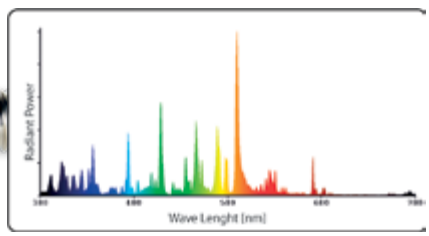
SUNKRAFT MH Lamp
Power: 250 W
Luminous flux: 18.000 lm
Colour temperature: 6.000 K
Voltage: 100 V
Current: 3.0 A
Expected service life: 10.000 h
Socket: E40
SUNKRAFT MH 250W



SUNKRAFT MH Lamp
Power: 400 W
Luminous flux: 40.000 lm
Colour temperature: 4.200 K
Voltage: 100 V
Current: 4.4 A
Expected service life: 10.000 h
Socket: E40
SUNKRAFT MH 400W



SUNKRAFT MH Lamp
Power: 600 W
Luminous flux: 50.000 lm
Colour temperature: 4.200 K
Voltage: 110 V
Current: 6.1 A
Expected service life: 10.000 h
Socket: E40
SUNKRAFT MH 600W



SUNKRAFT MH Lamp
Power: 1.000 W
Luminous flux: 105.000 lm
Colour temperature: 4.200 K
Voltage: 263 V
Current: 4.1 A
Expected service life: 5.000 h
Socket: E40
SUNKRAFT MH 1000W

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PRIMA KLIMA TRADING CZ, s.r.o.
Zámostí 594, 338 28 Radnice
Czech Republic

sales@primaklima.com

+420 371 795 340

primaklima.com

instagram.com/prima_klima

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