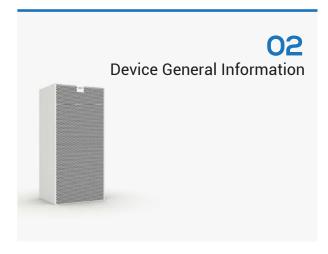


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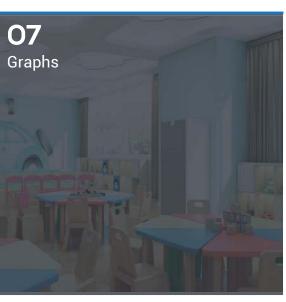


03

04 **Technical Details**







BSK SCHOLAR CLASSROOM TYPE HEAT RECOVERY DEVICE

General Information



Classrooms Meeting Rooms Offices

BSK Scholar high efficiency heat recovery devices are specially designed for classrooms, meeting rooms or offices without existing ventilation systems.



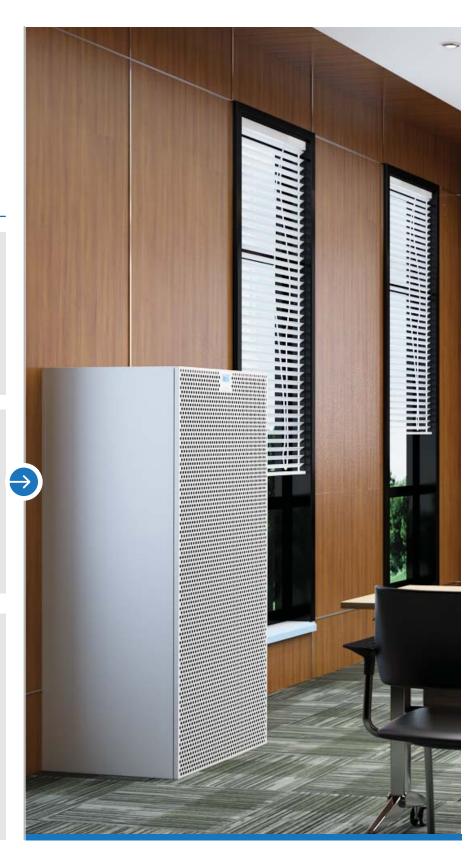
High capacity air flow

Our devices provide 100% fresh air to the area and exhausting the dirty air. Fresh air is passed through a double filter system which get rids of dust, pollen, spores and other harmful particles.



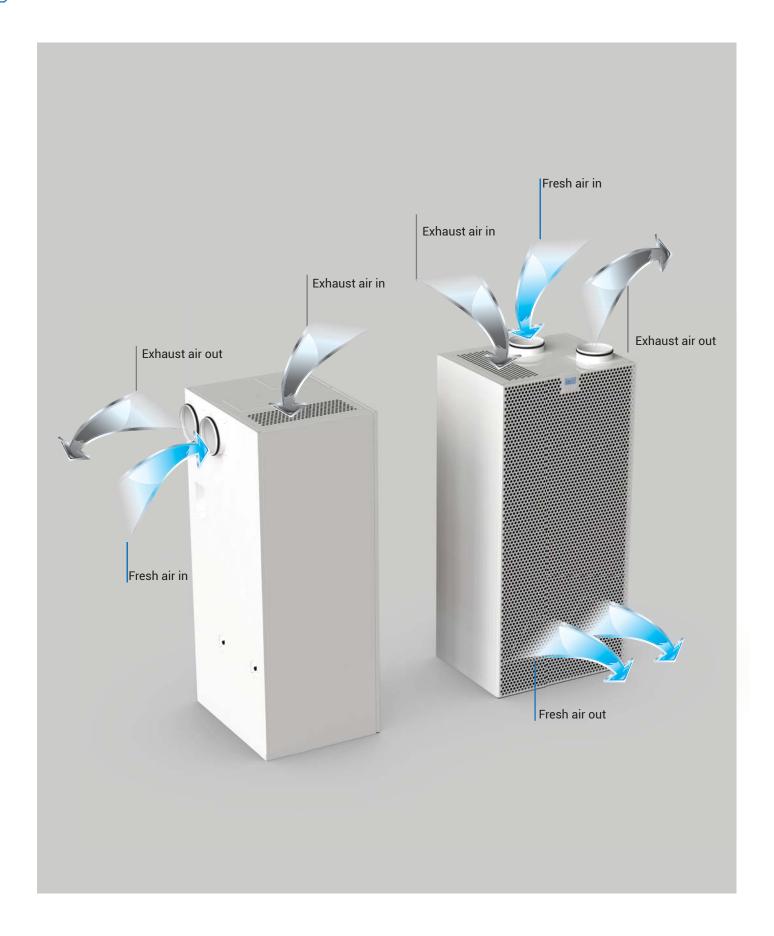
%100 Fresh Air

Thanks to the highly efficiency counter flow heat exchanger inside, the heat energy of the exhausted air is used to heat up the fresh air taken from outside. No energy is wasted for this passive heating process. In this way, you can significantly decrease your heating costs against conventional ventilation methods.





WORKING PRINCIPLE





TECHNICAL DETAILS





TECHNICAL DETAILS

CASING AND INSULATION

The casing of our devices is double-walled 0.7mm galvanized sheets filled with 25mm rock wool insulation material in order to keep the sound and heat insulation at the highest level. The outside as well as the inside surfaces of our devices are painted with electrostatic powder paint and deliver a long life, while providing a stylish and clean appearance.

FILTERS

Total of 3 filters are used in our devices to filter both the supply and exhaust air. M5 filter is used on the exhaust air to filter dust and protect the inside of the device. G4 and F7 filters used on the fresh air side can stop particles up to 1 micron (0.001mm) and filter allergens such as dust, spores and pollen that may come from outside. In addition, when the filters reach a certain filling rate, our devices give an automatic filter full warning, thanks to the differential pressure sensors that detect the pressure buildup of filters.

CARBON DIOXIDE (CO₂) SENSOR

Thanks to the carbon dioxide (CO2) sensor on the exhaust air side, the CO2 level of the environment can be continuously monitored and the device can automatically control the fans if it reaches a set value, which can be easily changed via the digital control panel.

AIR AND BY-PASS DAMPERS

There are 3 dampers in our devices, 2 of which is for blocking the outside air while the device is off and 1 for free-cooling. Thanks to the by-pass duct and damper, when the indoor and outdoor temperatures are close to each other, it is possible to by-pass the heat exchanger via the bypass channel to enter free cooling mode. This feature is activated automatically when the set temperature is reached.



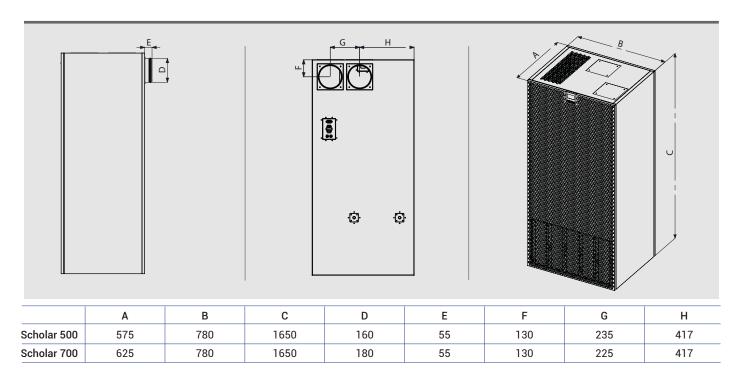
High efficiency EC fans are used in our devices. EC fans do not need frequency inverters like ordinary AC motors to be operated at the desired speeds, while consuming much less energy than their AC counterparts. Fans with reverse blade inclination on EC motors offer maximum performance thanks to the 3-dimensional blade curves, while minimizing the sound levels and providing a comfortable use.

High efficiency counter flow heat exchanger is the core of our units, where heat recovery takes place. Heat is transferred between exhaust air and fresh air, without mixing them, so it can supply 100% fresh air. Plastic plates are easy to wash and offer longevity. In exchangers operating with the counter flow heat transfer principle, thermal efficiencies of up to 95% between hot and cold air can be achieved.

The silencer section at the fresh air outlet of our devices allows silent operation which provides a quiet working environment for classrooms or offices.



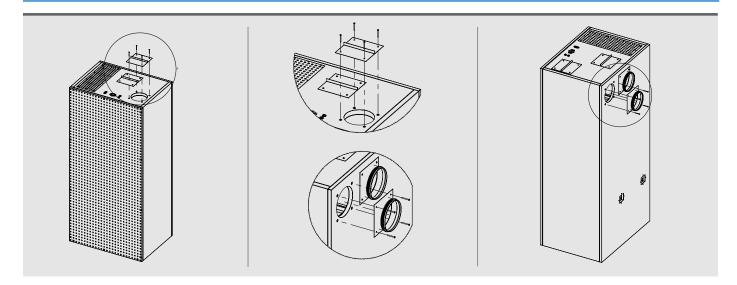
DEVICE DIMENSIONS



	BSK Scholar 500		BSK Scholar 700		
Max Flow Rate	500 m³/h		700 m³/h		
Max Thermal Efficiency	95%				
Supply Voltage	230V				
Max Electrical Power	170W		320W		
Dimensions (DxWxH) (mm)	575x780x1650 mm		625x780x1650 mm		
Weight	140kg		160kg		
Spigot Diameter	160 mm		180 mm		
Condensation Drain Diameter	19mm				
Operating Temperatures	-20 C to 60 C				



The outside air inlet and outlet of our devices are designed to be easily used in any application area and easily changed in order to suit different connection needs. You can lean the device in front of a window or wall and connect directly from the back, or change the position of the air outlets so that the connection can be made from the top.

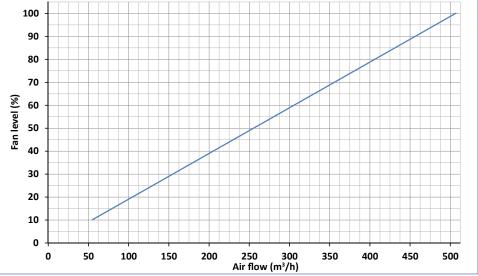




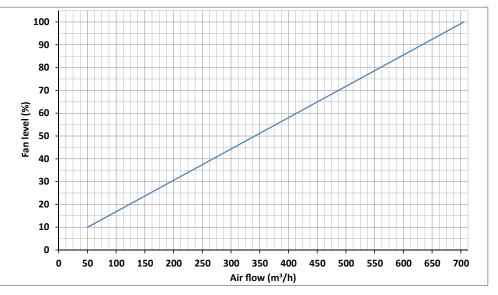
PERFORMANCE GRAPH



BSK Scholar 500



BSK Scholar 700

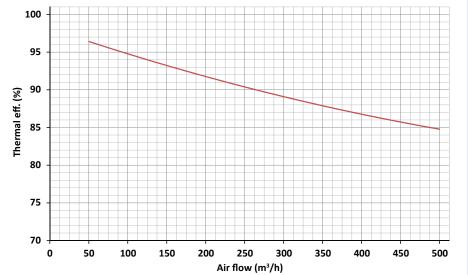


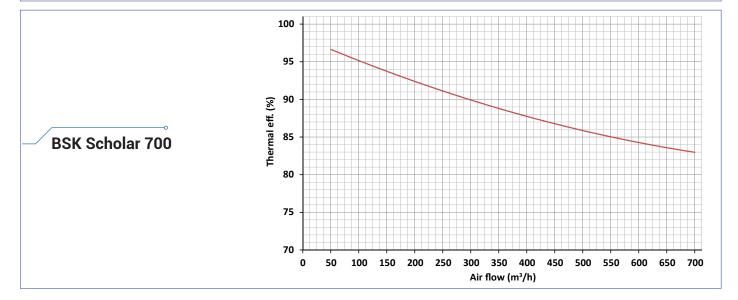


THERMAL EFFICIENCY GRAPH



BSK Scholar 500







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