

SAVE VSR 300

Item no. 88350

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Version: Filter F7/ePM2,5 70% - G3/Coarse 50%; Filter(s) included with the unit



Description

- High efficiency rotary heat exchanger with EC- variable speed rotor motor
- Energy efficient RadiCal-fans, with EC-technology enables very low SFP and low sound
- Moisture transfer function to minimize condensation to supply air in wintertime is available
- Demand control regulation as standard by the built-in humidity sensor in extract air
- SAVE Touch control with a capacitive color touch screen for easy use and commissioning
- Connection box outside of unit for easy installation
- Modbus communication via RS-485 as standard
- Internet communication over the Systemair cloud (IAM) is available as accessory
- Inspection hatch on both sides



Heat recovery unit designed for ventilated areas up to approximately 240 m². SAVE VSR 300 is a double skinned, fully insulated unit with complete control functions. The unit is equipped with a high efficiency variable speed rotating heat exchanger and a moisture transfer function that regulates the rotation speed of the rotor due temperature and moisture transfer back to supply air. Energy efficient fans with EC motors as well as low pressure filters reduces the energy consumptions and gives low SFP factor (Specific Fan Power) and low sound. The built in humidity sensor in extract air can be used for demand control.

All settings and features are available from the SAVE Touch control panel that connects to the side of the unit via the connection board and can be positioned on the wall or on the unit. The panel is a color touch screen with a user friendly interface. The option for connecting one or more external control panels is available. Also control panel has separate user level for authorized installers and service personnel.

The homepage of the control panel shows information such as airflow, temperature, air quality and active functions. You can select between MANUAL and AUTO mode or choose preferred settings from the pre-configured user modes.

SAVE Touch AUTO mode has many functions available that regulate the airflow according to CO₂, presence, humidity, schedule etc. The demand function control gives effective and economical operation to ensure best indoor air quality. Alarm symbols will indicate possible malfunctions and issues direct alerts if anything needs to be rectified.

The unit comes with built-in electric reheater.

The unit is provided with a connection board that has prewired inputs and outputs for easy installation and setup of external sensors as well as for external heaters / coolers.

The unit can be installed in upright position on the floor or horizontally on the ceiling.

A Ceiling mounting kit is available as an accessory.



The unit is delivered with low pressure bag filters:

- Supply air filter F7/ePM2.5 70%
- Extract air filter G3/Coarse 50%

Low pressure bag filter G3/Coarse 60% is available as an accessory for supply air filtering.

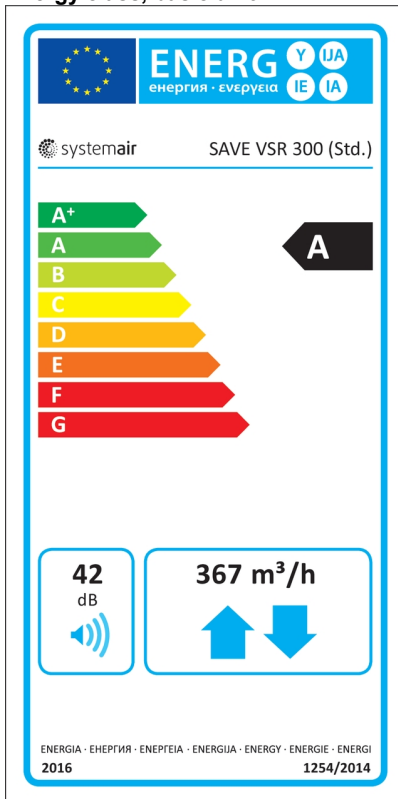
Passive House Institute (PHI) approved filter set (F7/ePM1 60% - M5/ePM10 50%) which is required for Passive House function is available as an accessory.

Technical parameters

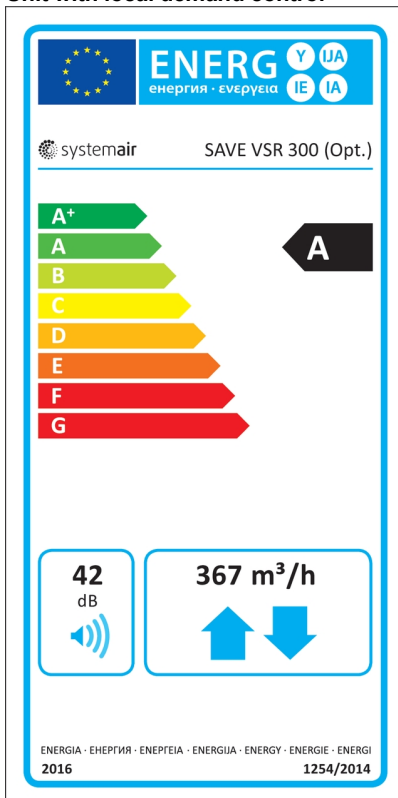
Unit	
Voltage	230 V
Frequency	50 Hz
Phase	1 ~
Weight	65 kg
Recommended fuse	10 A
Enclosure class	IP24
Color casing	Galvanized steel
Heat exchanger	
Rotor drive	Variable speed
Exchanger type	Rotating
Heater	
Input power, electrical heating battery	1,67 kW
Heating type	Electric
Supply fan	
Input power (P1)	83 W
Extract fan	
Input power (P1)	83 W
Supply filter	
Filter, supply air	ePM2,5 70%
Extract filter	
Filter, extract air	Coarse 50%
Others	
Mounting type	Horizontal
Supply side	Right
ErP	
Energy class, basic unit	A 
Energy class, basic unit option	A 
ErP ready	ErP 2016/ErP 2018

Energy class label

Energy class, basic unit



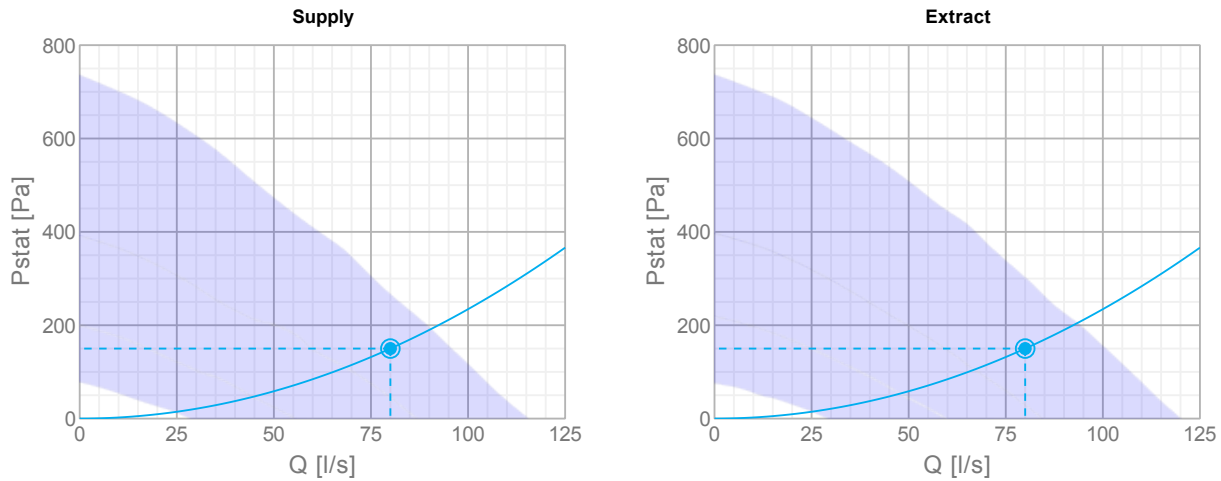
Unit with local demand control



Performance

Diagrams

Diagrams and calculations are made for the performance with clean filters.



User

Unit	Supply	Extract
<input type="radio"/> Required air flow	80	80 l/s
<input checked="" type="radio"/> Working air flow	80	80 l/s
<input type="radio"/> Required external pressure	150	150 Pa
<input checked="" type="radio"/> Working air pressure	150	150 Pa
Power	62,8	59,3 W
Speed	2834	2759 r.p.m.
SFP (clean filters)		1,53 kW/(m³/s)
Supply air temperature	21	°C

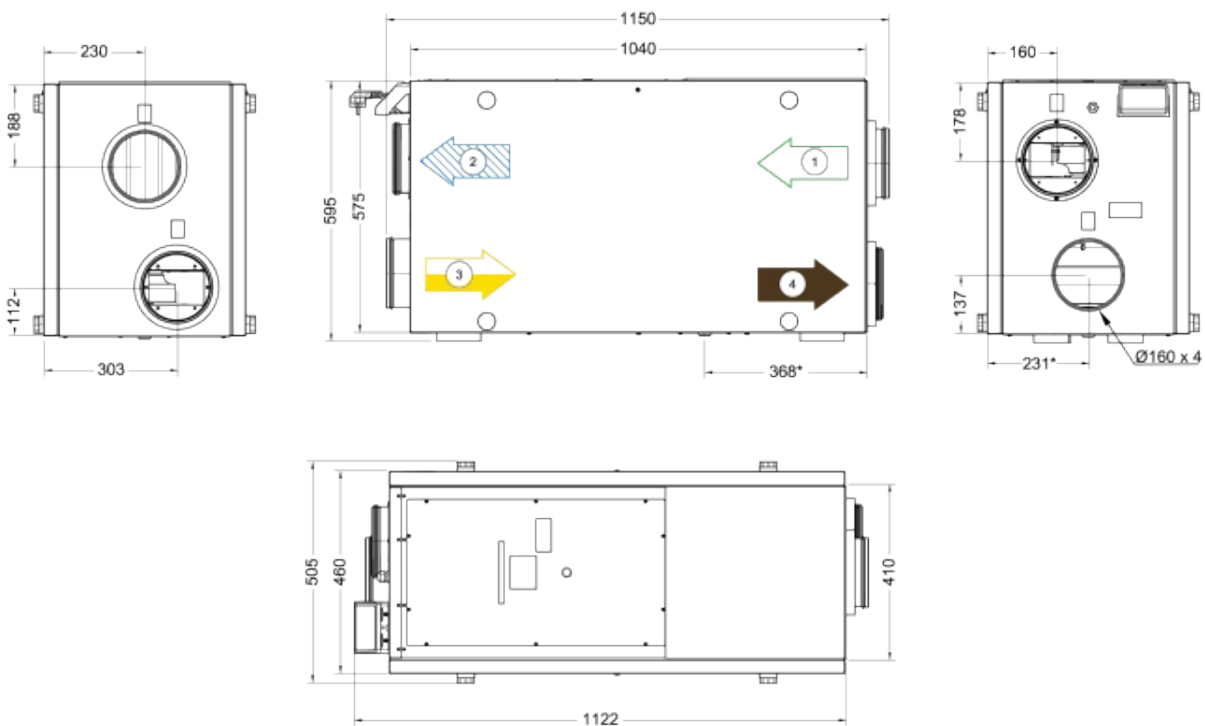
Sound power level	63	125	250	500	1k	2k	4k	8k	Tot
Supply	74	70	69	64	60	59	53	48 dB	67 dB(A)
Outdoor	69	58	61	62	35	34	30	26 dB	59 dB(A)
Exhaust	76	69	69	63	59	58	51	47 dB	66 dB(A)
Extract	68	57	62	59	43	40	31	27 dB	58 dB(A)
Surrounding	50	51	51	45	37	33	26	30 dB	46 dB(A)

Sound pressure level (reverberant field)	Tot									
Surrounding	(-7 dB)	dB							20m² (Sabin)	39

Heat recovery	Supply	Extract
Inlet air temperature	-22	22 °C
Outlet air temperature	15	-15 °C
Inlet air humidity	90	40 %
Outlet air humidity	57	- %
Transferred power	3,55	kW
Temperature efficiency unit (EN 13141-7)	83	%
Temperature efficiency component (EN 308)	86	%
Humidity efficiency	87	%
Exchanger type	Rotary	

Electric heater	
Outlet air temperature	21 °C
Outlet air humidity	38 %
Nominal power	1,67 kW
Power output	37,8 %
Missing power	0 kW

Dimensions



* Drainage

- 1 Outdoor air
- 2 Supply air
- 3 Extract air
- 4 Exhaust air