

SAVE VSR 150/B

Item no. 19980

Version: Filter F7-G3

Document type: **Product card**
 Document date: **2017-10-30**
 Generated by: **Systemair Online Catalogue**



Description

- High efficient rotary heat exchanger
- Energy efficient RadiCal-fans, with modern EC-technology
- Separate settings of supply and extract air flow
- Start-up wizard for easy commissioning
- Automatic change to summer operation (without heat recovery)
- Demand control regulation as standard by the built-in humidity sensor
- Inspection hatch on both sides
- Modbus communication via RS-485
- Cooker hood connection

The SAVE VSR 150/B is suitable for smaller apartments up to apx. 120 m².

The unit is white painted and can be mounted on the wall or in the ceiling. The unit is double skinned and is fully insulated. It has complete control functions with a high efficiency rotating heat exchanger, a thermostat operated re-heater battery and filters. Energy efficient fans with EC motors will reduce energy consumption for transportation of ventilation air by apx. 50 % compared to traditional AC motors.

Modern technology is contributing to a low SFP factor (Specific Fan Power) as well as an efficient design of the unit.

A duct from the cooker hood can be connected to a separate "bypass-duct". Hence the air from the cooker hood is led straight to the exhaust fan and not through the heat exchanger in the unit.

Anti-vibration ceiling mounting brackets and inspection doors on both sides makes the unit easy to place and clean. Filters can be exchanged by easy access on the side of the unit. The unit will automatically alternate between normal operation with heat recovery and summer operation without heat recovery.

Commissioning of the unit will be done from one or more CD panels. A start-up wizard will make the commissioning easier, which can avoid that the unit is running at wrong conditions. Symbols and text in the display will indicate chosen settings; Supply air temperature and fan speed. Commissioning of airflow on supply and extract, will be done at start-up but can be set from the menu settings as well. Timer-function for automatic change between day and night operation is integrated. Setting of filter period is also available. Alarm signal will indicate possible malfunctions.

The CD panel also has a user level for authorized installers and service personnel. The CD panel is connected to the unit by means of cable with quick connector (modular plug), on the side of the unit.

The unit is provided with outputs for control of external hot water or cooling battery and comes with built-in humidity sensor in extract air that enables demand control regulation with respect to moisture. It also has functions available for external demand control that gives effective and economical operation. For instance, CO², presence or humidity sensor.



The unit is delivered with supply air filter F7 and extract air filter G3. Option for G3 supply air filter is available.

CD panel and 6 m cable are also supplied with the unit.



Technical parameters

Unit		
Frequency	50	Hz
Weight	47	kg
Recommended fuse	10	A
Enclosure class	IP24	IP
Voltage	230	V
Phase	1	~

Heat exchanger	
Exchanger type	Rotating
Heater	
Heating type	Electric
Supply filter	
Filter, supply air	F7 (Standard)
Extract filter	
Filter, extract air	G3 (Standard)
Others	
Mounting type	False ceiling
Supply side	Right
ErP	
Energy class, basic unit	A 
Energy class, basic unit option	A 
ErP ready	ErP 2016/ErP 2018
Supply fan	
Input power (P1)	37 W
Extract fan	
Input power (P1)	37 W
Default group	
Input power, electrical heating battery	0,5 kW

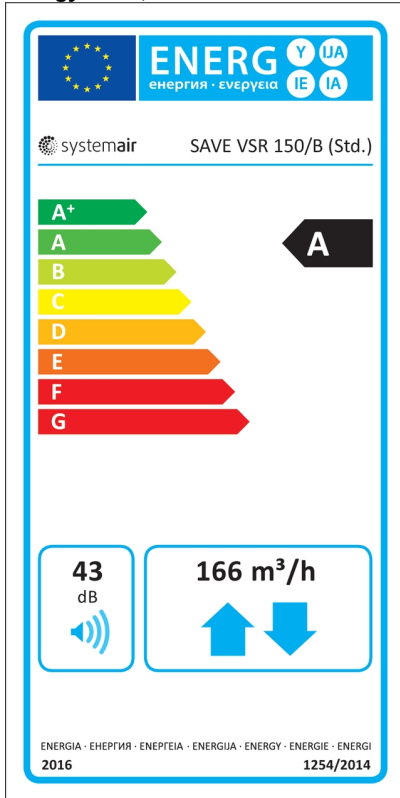
Eco design

Units with local demand control	
Trade name	Systemair
Product name	SAVE VSR 150/B
ErP compliance	2018
SEC Average	-40,1 kWh/(m ² .a)
SEC Cold	-83,6 kWh/(m ² .a)
SEC Warm	-15,2 kWh/(m ² .a)
SEC Class	A
Unit category	RVU
Unit type	BVU
Drive	Intergated VSD
Heat recovery type	Regenerative
Temperature ratio	83 %
qv max	166 m ³ /h
P max	85,7 W
Sound power level LWA	43 dB(A)
qv ref	116 m ³ /h
Ps ref	50 Pa
SPI	1,46 W/(m ³ /h)
CTRL	0,65 -
MISC	1,1 -
x-value	2 -
External Leakage	3 %
Internal Leakage	4 %
Type of product	RAHU/AARE
AEC average	214 kWh
AEC cold	214 kWh
AEC warm	214 kWh
AHS Average	4548 kWh/a
AHS Cold	8898 kWh/a
AHS Warm	2057 kWh/a

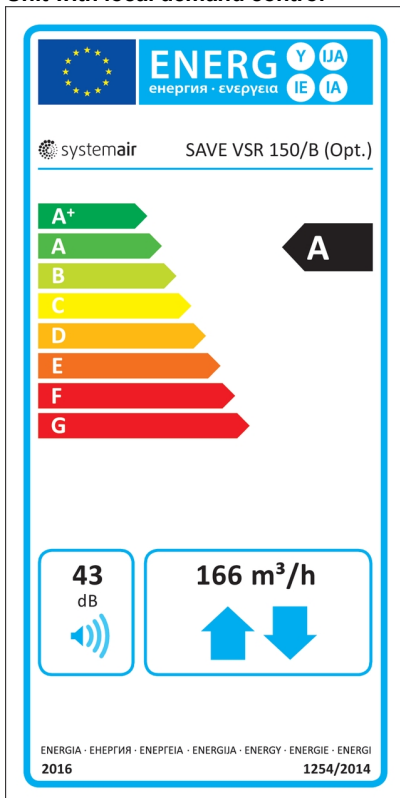
Basic unit	
Trade name	Systemair
Product name	SAVE VSR 150/B
ErP compliance	2018
SEC Average	-35,2 kWh/(m ² .a)
SEC Cold	-77,7 kWh/(m ² .a)
SEC Warm	-10,9 kWh/(m ² .a)
SEC Class	A
Unit category	RVU
Unit type	BVU
Drive	Intergated VSD
Heat recovery type	Regenerative
Temperature ratio	83 %
qv max	166 m ³ /h
P max	85,7 W
Sound power level LWA	43 dB(A)
qv ref	116 m ³ /h
Ps ref	50 Pa
SPI	1,46 W/(m ³ /h)
CTRL	0,85 -
MISC	1,1 -
x-value	2 -
External Leakage	3 %
Internal Leakage	4 %
Type of product	RAHU/AARE
AEC average	367 kWh
AEC cold	367 kWh
AEC warm	367 kWh
AHS Average	4440 kWh/a
AHS Cold	8686 kWh/a
AHS Warm	2008 kWh/a

Energy class label

Energy class, basic unit



Unit with local demand control

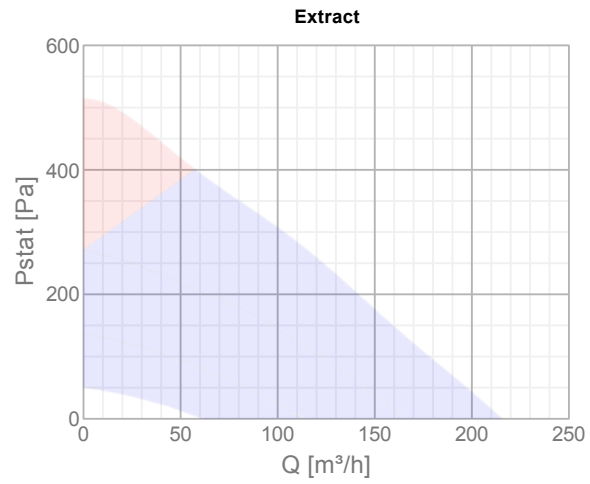
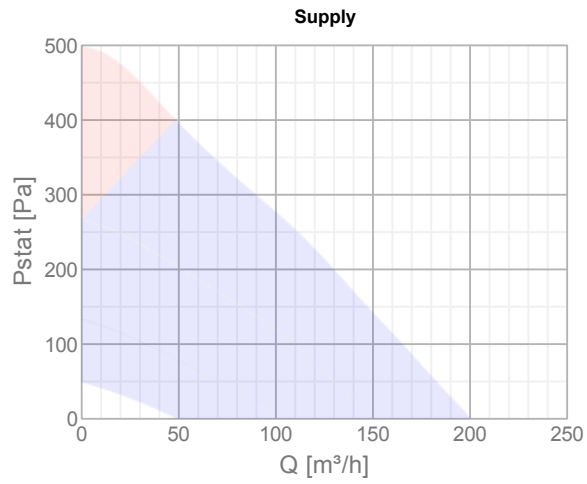


EPS diagrams

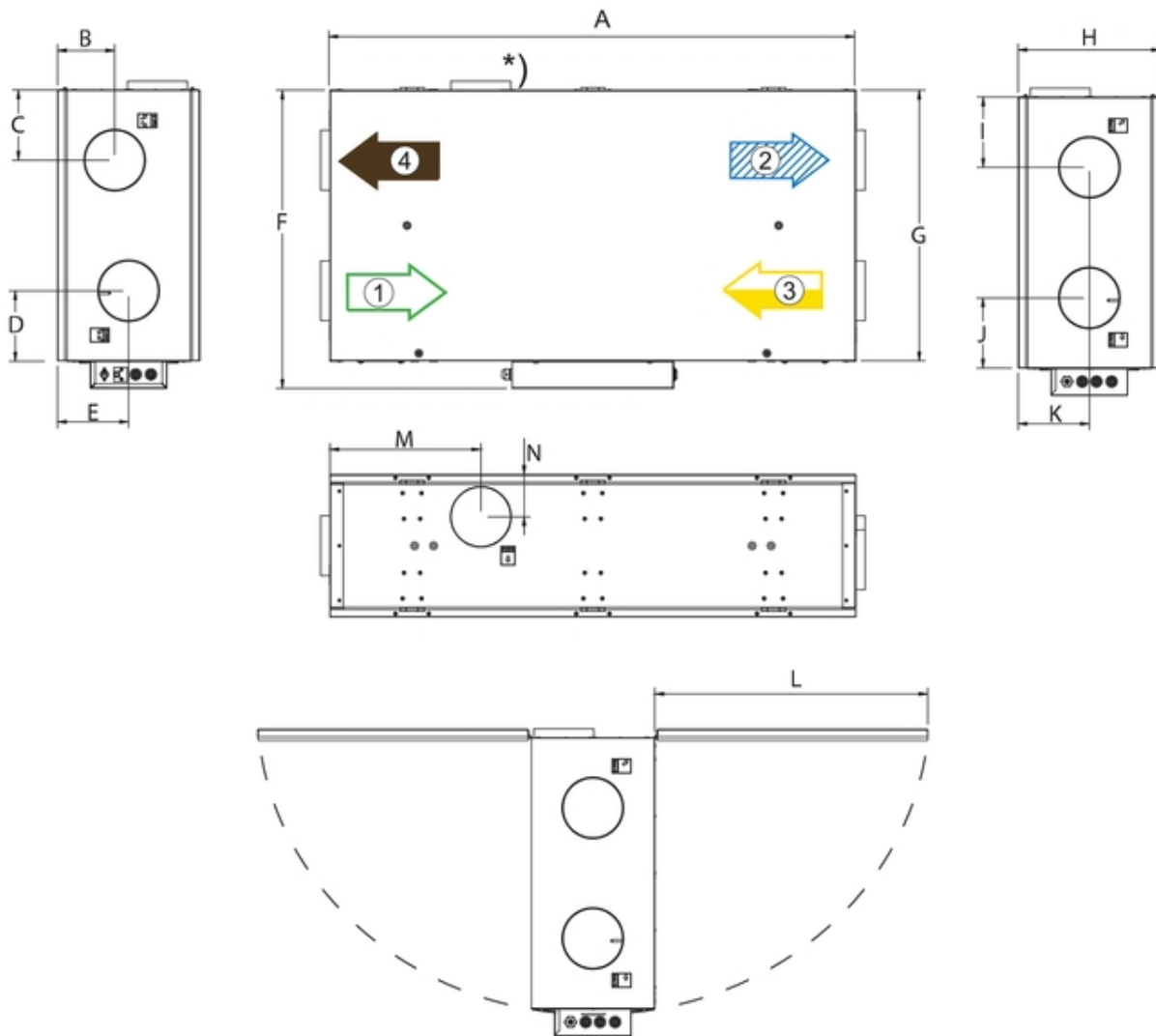
Performance

Diagrams

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



Dimensions



	A	B	C	D	E	F	G	H	I	J	K	L	M	N
VSR 150	1107,6	120,7	148	148	150	628	570	300	148	148	150	575	318	89

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

*) Connection for cooker hood

Duct connection ø125 mm

Accessories

Electric accessories

[U-EK plastic housing AP1R IP54 \(30198\)](#)

[TG-K360 Duct sensor 0-60°C \(4846\)](#)

[F-T120 Timer frame \(5137\)](#)

[TG-A130 Surface sensor 0-30°C \(5159\)](#)

[T 120 Timer \(5165\)](#)

[CO2RT-R-D Transmitter \(6993\)](#)

[Presence detector/IR24-P \(6995\)](#)

[251-10/B white 60 cm \(12023\)](#)

[251-10/B steel 60 cm \(12929\)](#)

[PSS20 Transformer 24V \(202692\)](#)

[PSS48 Transformer 24V \(204385\)](#)

[TUNE-R-125-3-M4 \(311968\)](#)

[CEC Cable w/plug 6m \(24783\)](#)

[CEC Cable w/plug 12m \(24782\)](#)

[RS485 Gateway Wireless \(25130\)](#)

[Input Module Wireless \(25128\)](#)

[CO2 Sensor Wireless \(25126\)](#)

[SmartDial \(25129\)](#)

[Humidity Sensor Wireless \(25127\)](#)

[CE/CD-diverting plug 4pin \(37367\)](#)

[602-10/B Cookerhood White \(47561\)](#)

[602-10/B Cookerhood S.Steel \(47562\)](#)

[762-10/B OPAL Wall 600 steel \(78970\)](#)

[762-10/B OPAL Wall 900 steel \(78971\)](#)

[772-10/B OPAL Free 900 steel \(78972\)](#)

[782-10/B STIL Wall 600 steel \(78973\)](#)

[782-10/B STIL Wall 900 steel \(78974\)](#)

[792-10/B STIL Free 900 steel \(78975\)](#)

[722-10/B TENDER Wall 600 steel \(78976\)](#)

[722-10/B TENDER Wall 900 steel \(78977\)](#)

[722-10/B TENDER Wall 600 white \(78978\)](#)

[CD Control panel 4 \(210396\)](#)

Accessories

[CWK 125-3-2,5 Duct cooler.circ \(30021\)](#)

[VBC 125-2 Water heating batt \(5457\)](#)

[LDC 125-600 Silencer \(5190\)](#)

[LDC 125-900 Silencer \(5191\)](#)

[FK 125 Fast clamp \(1608\)](#)

[Connectduct Ø 125/1,0 M/F \(2556\)](#)

[ZTR 15-0,6 valve 3-way \(6573\)](#)

[ZTV 15-0,6 2-way valve \(6571\)](#)

[PFVSR 150 G3 Extract/Supply \(208232\)](#)

[PFVSR 150 F7 Supply Air \(208233\)](#)








[RDR-80/15-50m³/h \(37293\)](#)


[CVVX 125 Combi grille. white \(26422\)](#)


[CVVX 125 Combi grille. black \(26421\)](#)

[Wall mounting kit VSR 150/B \(115599\)](#)

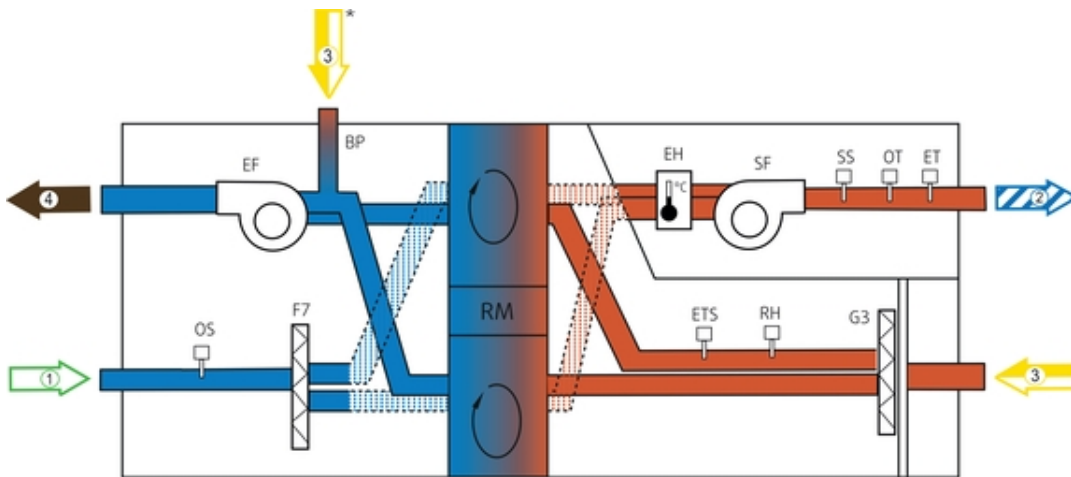
Documentation

-  VSR150_User_manual_208310_en-GB (A005).pdf (4,05MB)
-  VSR150_Installation_and_service_208309_CE_en-GB (A005).pdf (2,64MB)
-  VSR150_Ceiling_mounting_quick_guide_208443_en-GB (A002).pdf (545,61kB)
-  SAVE VSR150_replacing_rotor_drive_belt A001.pdf (1,91MB)
-  SAVE_VSR150_Wall_mounting_kit_installation_209386.pdf (578,22kB)
-  Modbus for Residential units_D24810_User_manual (A005).pdf (263,77kB)
-  CD panel Instruction for wall mounting 206858_GB_SE.pdf (221,37kB)

-  Eurovent Certification Diploma 20161231 Systemair SAVE.pdf (1,78MB)


-  E8241 SAVE brochure GB.pdf (503,81kB)

Wiring



- F7 = Filter outdoor air
- VR = Rotary heat recovery unit
- EF = Extract fan
- G3 = Filter extract air
- G4 = Extract/Supply filter (only for VTC unit)
- ETS = Extract air temp. sensor
- SF = Supply fan
- EH = Electric heater
- SS = Supply air temp. sensor
- OT = Overheating thermostat
- ET = Emergency thermostat
- EHS = Exhaust air sensor
- OS = Outdoor air sensor
- BP = Bypass cooker hood
- BD = Bypass integrated cooker hood
- DB = Bypass damper
- DBS = Bypass damper sensor
- RH = Relative humidity sensor
- 1 = Outdoor air
- 2 = Supply air
- 3 = Extract air
- 4 = Exhaust air

Wiring diagram

-  VSR150_300_500_WD_208124_GB (A004).pdf (299,14kB)