

SAVE VTC 300 L

Item no. 2481

Version: Filter G4-G4; Filter(s) included with the unit









Description

- · High efficiency heat recovery unit
- Energy efficient fan motors with modern EC technology
- Operation from user friendly control panel(s), type CD with LCD-display
- · Separate setting of supply and extract airflow
- Changes automatically to summer operation with no heat recovery
- Automatic defrosting (built-in humidity sensor)
- Demand control regulation as standard by the built-in humidity sensor
- Modbus communication via RS-485

White painted model with EC fans, flexible control functions and modern control panel, designed for installation on the wall in dwellings with ventilated area up to apx. 300 m2.

The SAVE VTC 300 is designed for installation on wall, in laundry room, storeroom. The unit is double skinned, fully insulated and with complete control functions, high efficiency counterflow heat exchanger 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 gives low SFP factor (Specific Fan Power).

The unit will automatically alternate between normal operation with heat recovery and summer operation without heat recovery. This solution will also automatically recover chilled indoor air (from cooling).

Airflow and supply air temperature can be set from one or more CD control panels. Symbol and text in the display will indicate chosen settings; re-heater operating, summer operation and need for filter change. Commissioning of airflow on supply

and extract, on each step, is set from the control panel. Timer-function for automatic change between day and night operation (installations in commercial buildings) is integrated. Alarm signal will indicate possible malfunctions.

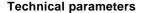
The CD panel also has a user level for authorized installers and service personnel. The CD panel is connected to the unit by means of cable with quick connectors (modular plugs), alternatively via 4-pole terminal block.

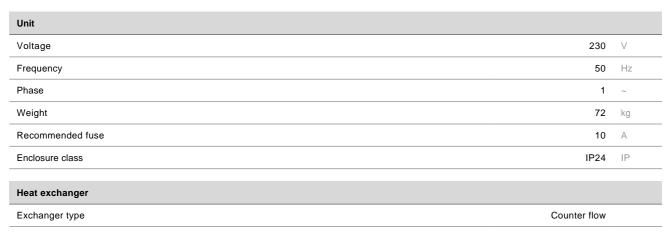
The unit is equipped with outputs to control an external hot water battery and inputs prepared for demand controlled ventilation from external sensors, e.g. CO2, presence or humidity sensor (potential free contact). Unit is delivered with built-in moisture sensor that not only provides you demand controlled ventilation as standard but also is used for detecting and control defrosting in colder climate.

The unit has an automatic defrost function with the built in moisture sensor that can be chosen in 3 different modes depending on the indoor environment as well as the outdoor conditions. Without preheater in tight houses / passive houses where unbalanced airflow is not allowed the unit works down to -5°C. Without preheater when unbalance is allowed the unit works down to -15°C. Below -15°C a preheater is needed.

The VTC 300 can be supplemented with a re-heater battery

G4 filters are delivered as standard. F7 and M5 are availabe as accessories.





Heater



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Supply fan		
Voltage	230	V
Phase	1	~
Input power (P1)	85	W
Extract fan		
Voltage	230	V
Phase	1	~
Input power (P1)	85	W
Supply filter		
Filter, supply air	G4	
Extract filter		
Filter, extract air	G4	
Others		
Mounting type	Vertical	
Supply side	Left	
ErP		
Energy class, basic unit	A	

Eco design

ErP ready

Energy class, basic unit option

Basic unit		
Trade name	Systemair	
Product name	SAVE VTC 300 L	
ErP compliance	2018	
SEC Average	-37.3	kWh/ (m².a)
SEC Cold	-79.7	kWh/ (m².a)
SEC Warm	-13	kWh/ (m².a)
SEC Class	A	
Unit category	RVU	
Unit type	BVU	
Drive	Intergated VSD	
Heat recovery type	Recuperative	
Temperature ratio	83	%
qv max	106	l/s
P max	170	W
Sound power	40	dB
qv ref	74.2	l/s
Ps ref	50	Pa

Α

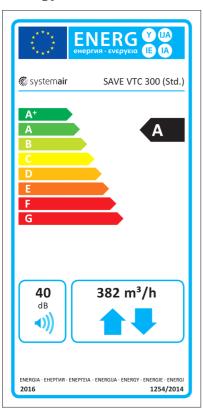
ErP 2016/ErP 2018

SPI	0.315	W/ (m³/h)
CTRL	0.85	-
MISC	1.1	-
x-value	2	-
External Leakage	2	%
Internal Leakage	NA	%
Type of product	RAHU/AAHE	
AEC average	285	kWh
AEC cold	285	kWh
AEC warm	285	kWh
AHS Average	4440	kWh/a
AHS Cold	8686	kWh/a
AHS Warm	2008	kWh/a
Units with local demand control		
Trade name	Systemair	
Product name	SAVE VTC 300 L	
ErP compliance	2018	
SEC Average	-41.3	kWh/ (m².a)
SEC Cold	-84.8	kWh/ (m².a)
SEC Warm	-16.4	kWh/ (m².a)
SEC Class	А	
Unit category	RVU	
Unit type	BVU	
Drive	Intergated VSD	
Heat recovery type	Recuperative	
Temperature ratio	83	%
qv max	106	l/s
P max	170	W
Sound power	40	dB
qv ref	74.2	l/s
Ps ref	50	Ра
SPI	0.315	W/ (m³/h)
CTRL	0.65	-
MISC	1.1	-
x-value	2	-
External Leakage	2	%
Internal Leakage	NA	%
Type of product	RAHU/AAHE	
AEC average	167	kWh
AEC cold	167	kWh

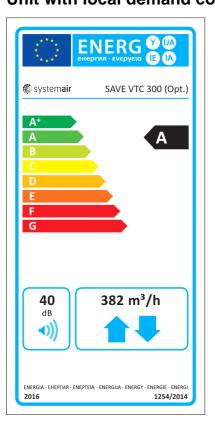
AHS Average	4548	kWh/a
AHS Cold	8898	kWh/a
AHS Warm	2057	kWh/a

Energy class label

Energy class, basic unit



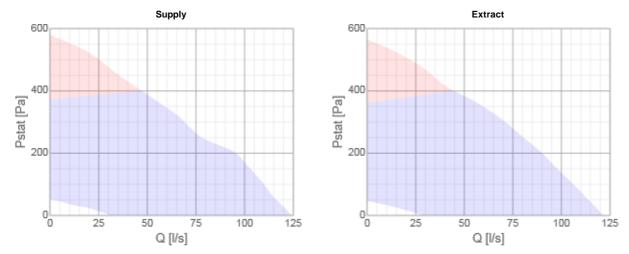
Unit with local demand control



EPS diagrams

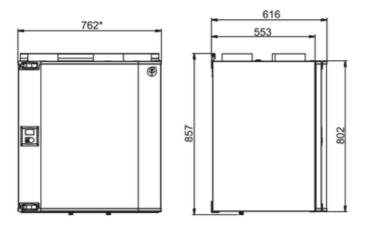
Performance

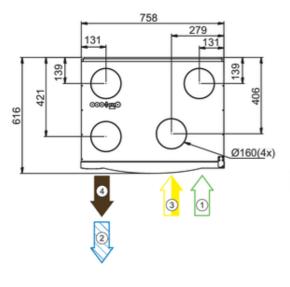
Diagrams

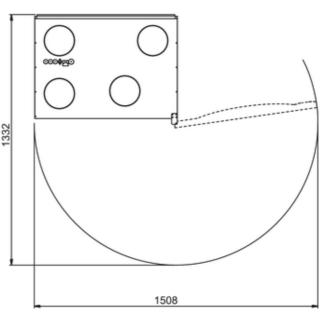


Diagrams and calculations are made for the performance with clean filters.

Dimensions







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

*) Hatch

Accessories

Electric accessories

CE/CD-diverting plug (12399)
JP Junction plug for cable (12428)
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)
PSS48 Transformer 24V (204385)
CEC Cable w/plug 15m (306594)
EFD 160 Damper + TF230 motor (7122)
RVAZ4 24A Actuator 0-10V (9862)

Accessories

CWK 160-3-2,5 Duct cooler,circ (30022) VBC 160-2 Water heating batt (5458) LDC 160-600 Silencer (5192) LDC 160-900 Silencer (5193)
FK 160 Fast clamp (1610)
THB 160 Hood w. cover pl. Red (2034)
THB 160 Hood w.cover pl. black (1764)
THS 160 Hood w.cover pl. black (1839)
THS 160 Hood w. cover pl. Red (2044)
ZTV 15-0,4 2-way valve (9829)
VBC 160-3 Water heating batt (9840)
ZTR 15-0,4 valve 3-way (9670)
Connectduct Ø 160/1,0 M/F (2558)
TUNE-R-160-3-M4 (311969)
RDR-80/15-50m³/h (37293)

Documentation

VTC_300_Installation_and_Service_Instruction_207232_CE_en-GB (A008).pdf (1,77MB)

VTC 300_User_manual_207233_en-GB (A004).pdf (539,04kB)

SAVE_VTC300_Changing_the_bypass_damper_209238-en_GB (A002).pdf (6,90MB)

CD panel Instruction for wall mounting 206858 GB_SE A002.pdf (342,61kB)

Modbus_for_residential_D24810_User_manual_EN (A007).pdf (248,21kB)

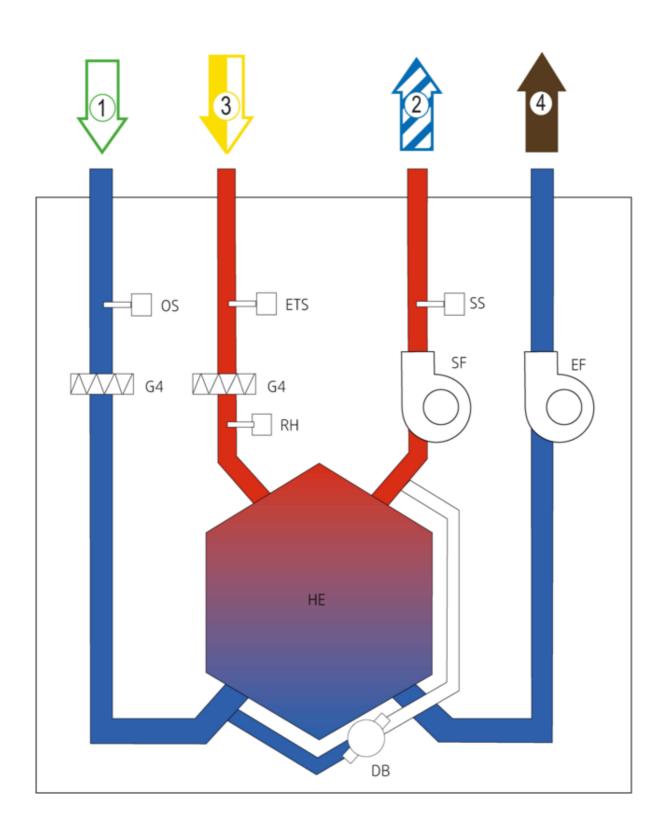
Quick_Guide 205821.pdf (80,62kB)

207234_SAVE_VTC_300_Wiring_diagram_en-GB (A007).pdf (785,22kB)

Eurovent Certification Diploma 20161215_145603,412.pdf (1,78MB)

PHI certificate SAVE VTC 300 EN 2017.pdf (166,39kB)

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

Exhaust air

- BD = Bypass integrated cooker hood
- DB =
- Bypass damper
 Relative humidity sensor RH =
- Outdoor air 1 =
- 2 = Supply air
- Extract air 3 =

4 =

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