



SAVE Air Handling Units

Crisp, fresh, and clean air for every home.



[Find more details in our online catalogue](#)

Unlock even greater efficiency

SAVE AHUs come with different heating and cooling recovery methods. Allowing you to further boost the energy efficiency of your units, wherever they're installed.

Performance you can rely on

Our heat exchanger systems automatically regulates the heat/cool recovery and has automatic defrosting functions. Your SAVE AHUs will keep you comfortable inside, no matter the weather on the outside.

For buildings big and small

Whether you're building a new home or renovating an apartment block, SAVE air handling units are a perfect match for any indoor spaces up to 550m².

Health and safety first

SAVE air handling units are Eurovent certified and ErP compliant, easy to service and maintain. So you can relax – knowing the air you breathe is clean and pure.

Full control, from anywhere

All SAVE units come with SAVE Control – multiple, easy-to-use interfaces that let you communicate with your AHUs wherever you are.

Technical parameters

Unit		
Frequency	50	Hz
Voltage (nominal)	230	V
Phases	1~	
Recommended fuse	10 A	
Enclosure class	IP24	
Speed regulation	Stepless	
Product type	Heat recovery unit	
Temperature	-15 to 40	°C
Supply fan		
Input power (P1), supply fan	170	W
Supply air filter		
Filter class, supply air	ePM1 60%	
Extract air filter		
Filter class, extract air	ePM10 50%	
Exchanger		
Heat exchanger	Counter flow	
Return fan / Extract fan		
Input power (P1), extract fan	170	W
Others		
Fan control	Stepless voltage control	
Installation type	Vertical	
Supply side	Left	
Color casing		
Color casing	White	
Color casing, RAL	RAL 9010	
Dimensions and weights		
Weight	82	kg

ErP

Energy class, Basic unit	A
Energy class, Local demand	A
ErP ready	ErP 2018; ErP 2016

Ecodesign

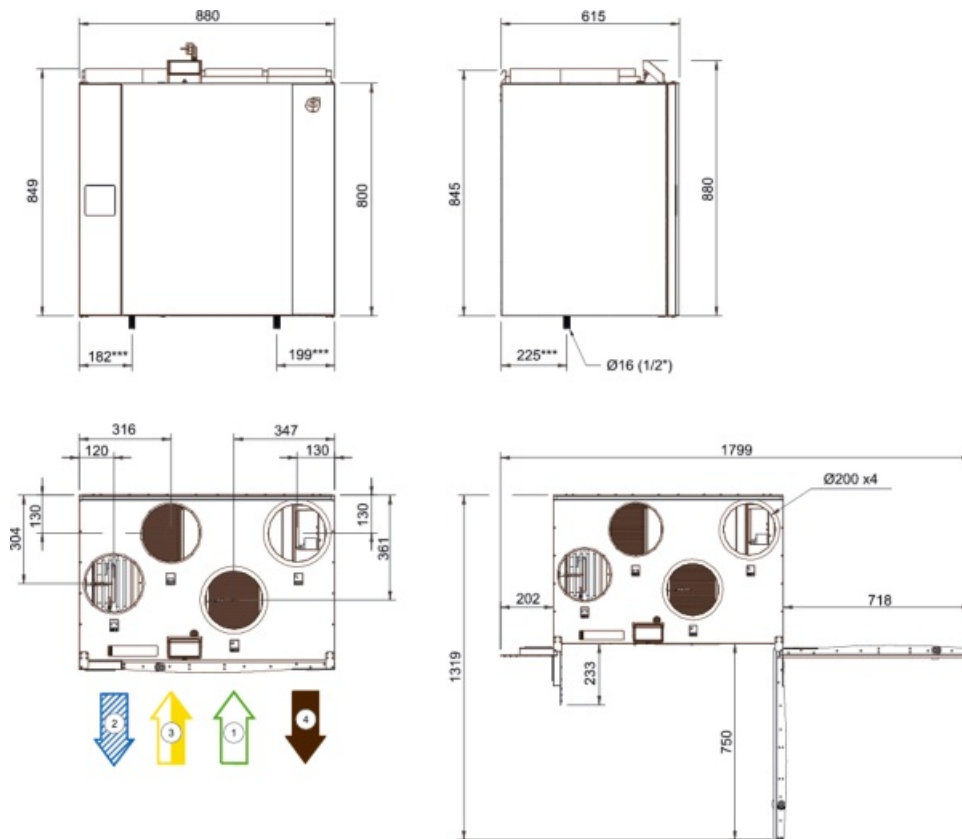
Product

Trade name	Systemair
Product name	SAVE VTC 500 L

Basic unit		
ErP compliance	2018	
SEC Average	-36.4	kWh/(m².a)
SEC Cold	-79.2	kWh/(m².a)
SEC Warm	-12	kWh/(m².a)
SEC Class	A	
Unit category	RVU	
Unit type	BVU	
Drive	Integrated VSD	
Heat recovery type	Recuperative	
Temperature ratio	84	%
qv max	602	m³/h
P max	329	W
Sound power (LWA)	44	dB(A)
qv ref	0.117	m³/s
Ps ref	50	Pa
SPI	0.344	W/(m³/h)
CTRL	0.85	
MISC	1.1	
x-value	2	
External Leakage	2	%
Internal Leakage	1	%
Type of product	RAHU/AAHE	
AEC average	356	kWh
AEC cold	894	kWh
AEC warm	311	kWh
AHS Average	4,467	kWh/a
AHS Cold	8,739	kWh/a
AHS Warm	2,020	kWh/a

Units with local demand control		
ErP compliance	2018	
SEC Average	-40.7	kWh/(m².a)
SEC Cold	-84.4	kWh/(m².a)
SEC Warm	-15.7	kWh/(m².a)
SEC Class	A	
Unit category	RVU	
Unit type	BVU	
Drive	Integrated VSD	
Heat recovery type	Recuperative	
Temperature ratio	84	%
qv max	602	m³/h
P max	329	W
Sound power (LWA)	44	dB(A)
qv ref	0.117	m³/s
Ps ref	50	Pa
SPI	0.344	W/(m³/h)
CTRL	0.65	
MISC	1.1	
x-value	2	
External Leakage	2	%
Internal Leakage	1	%
Type of product	RAHU/AAHE	
AEC average	227	kWh
AEC cold	765	kWh
AEC warm	182	kWh
AHS Average	4,569	kWh/a
AHS Cold	8,938	kWh/a
AHS Warm	2,066	kWh/a

Dimension

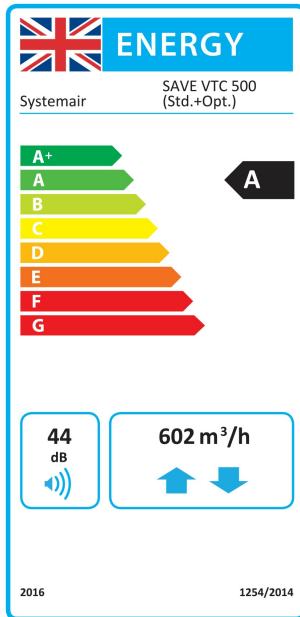


*** Drainage connection

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

Energy class label

Energy class, Basic unit



Accessories

- SAVE LIGHT Black (319119)
- SAVE TOUCH Black (138078)
- CAV kit (161100)
- Presence detector/IR24-P (6995)
- Re-heater VTC 500 L 1670W (158109)
- Systemair-E CO2 sensor (14904)
- CB 200-2,1 230V/1 Duct heater (5384)
- CEC Cable w/plug 12m (24782)
- CEC Cable w/plug 6m (24783)
- FK 200 Fast clamp (1611)
- LDC 200-900 Silencer (5195)
- VBC 200-3 Water heating batt (9841)
- CVVX 200 Combi grille, white (25397)
- SCD 200 silencer 25mm insulat. (2560)
- TUNE-R-200-3-M1 (311940)
- TUNE-R-200-3-M4 (311970)
- ZTR 15-0,6 valve 3-way (6573)
- ZTV 15-0,6 2-way valve (6571)
- SAVE LIGHT White (319118)
- SAVE TOUCH White (138077)
- CB heater connection kit 1 ~ (142852)
- PSS20 Transformer 24V (202692)
- SAVE Wall Mounted Kit (140736)
- VAV/CAV conversion kit (140777)
- CB 200-3,0 230V/1 Duct heater (5370)
- CEC Cable w/plug 15m (306594)
- CWK 200-3-2,5 Duct cooler,circ (30023)
- LDC 200-600 Silencer (5194)
- VBC 200-2 Water heating batt (5459)
- CVVX 200 Combi grille, black (25395)
- RVAZ4 24A Actuator 0-10V (9862)
- SPI-200 C Iris damper (6754)
- TUNE-R-200-3-M2 (311950)
- TUNE-R-200-3-M5 (311980)
- ZTR 15-1,0 valve 3-way (9672)
- ZTV 15-1,0 2-way valve (9823)

Documents

- Control panel installation quick guide
- Energy label placement quick guide
- Installation manual
- Modbus variable list
- Service and Accessories installation manual
- User manual
- Certificate Passive House Institute - SAVE VTC 500
- Eurovent Certification Diploma
- Commissioning record
- Technical fiche
- Schematic layout and description of components
- UK_declaration_of_conformity
- Electrical diagrams for accessories
- Wiring diagram

Specification

Filter kits:

161251 PF STD kit (F7/ePM1 60% supply and M5/ePM10 50% extract)

161252 PF OPT kit (accessory) (F8/ePM1 70% supply and M5/ePM10 50% extract)

SAVE VTC 500 is designed for ventilated areas up to 400 m².

MAIN FEATURES

- High energy-efficiency counter flow heat exchanger and EC technology fans
- Demand control regulation with the built-in humidity sensor
- Automatic defrosting
- Multiple control options to choose from
- Connection board for easy access and connection of accessories
- Modbus communication RS-485 as standard
- Eurovent Certification

THE UNIT CAN BE OPERATED IN 3 WAYS

- **SAVE LIGHT** – control panel for basic functions such as airflow control, general alarm and filter change indication.
 - **SAVE TOUCH** – control panel with touch screen and full access to all functions and settings. The home screen displays information such as airflow, temperature, air quality and active functions. You can select between MANUAL and AUTO mode or select preferred settings from the pre-configured user modes and much more.
 - **SAVE CONNECT** – Home solutions by Systemair mobile application and Internet Access Module for wireless control of the SAVE unit. The mobile application mirrors functionality of SAVE TOUCH control panel and allows you to access all control functions on your smartphone.
- Each control method is optional and have to be ordered separately as an accessory. The unit is prepared for control panel installation in the front door. The cable for external control panel installation is not included and has to be ordered separately.

INSTALLATION

The unit can be installed on a wall and preferably in a storeroom or laundry room. Left and right-handed models are available.

External connection board that has prewired inputs and outputs allows easy installation and setup of external sensors as well as external heaters / coolers and other accessories.

COMPONENTS

SAVE VTC 500 has white painted double skinned panels. The unit is equipped with a high efficiency counter flow heat exchanger. Energy efficient fans with EC motors as well as low-pressure filters reduce the energy consumptions and ensures low SFP factor (Specific Fan Power) and sound level. The built-in humidity sensor in extract air can be used for demand control.

SAVE VTC 500 can be supplemented with a built in electrical re-heater which is available as an accessory.

DEFROSTING

The product has an automatic defrost function with 3 different modes for different indoor environments as well as the outdoor conditions.

The pre-heater is always recommended for frost protection when the outside air temperature is below -15 °C. The pre-heater increases the intake air temperature and reduces the need for the defrost function. During the defrosting process the supply air fan may be stopped periodically to remove frost from the heat exchanger.

When the unbalanced airflow is not desired, for example in tight or passive houses, the pre-heater is always required when the outside air temperature is -5 °C to prevent supply air fan from stopping during defrost mode.

The pre-heater and a CB Preheater Connection kit can be ordered as accessories.