

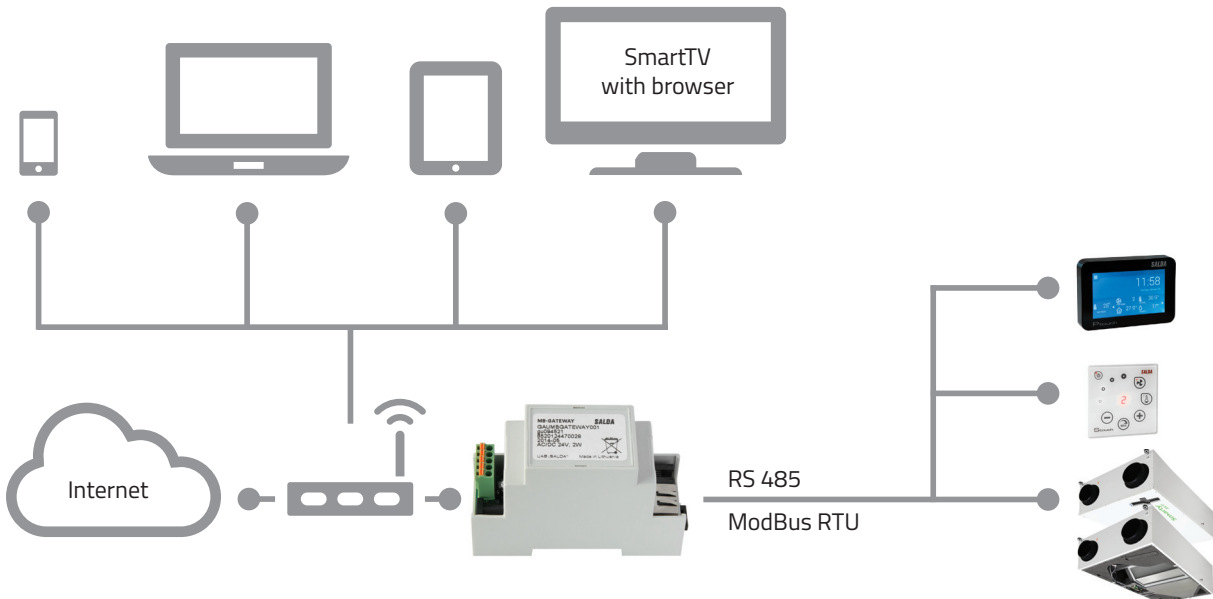



SMARTY 3X P FUNCTIONS	
Main functions and control of functional units	
User and servicing control level	
Week timer + Holidays + Digital timer channels	
8 events for each day or weekday group* per week. *1-7 entire week, 1-5 working days, 6-7 weekend.	
START/STOP function	
„START/STOP” function for starting or stopping operation of the heat recovery unit. „STOP” sign is indicated on a remote control (Flex). It can be used with door lock, motion sensor (PIR), outside switch or other external digital signal (potential-free contacts). On a position „START” heat recovery unit operates according to the last remote controller settings.	
Year-round optimization of recovery unit regulation	
Winter –heat recovery; Summer – cold recovery; Autumn and spring – low rotor speed/half by-pass opened.	
Night Cooling function	
The premises are cooled down by supplying fresh air, when exhaust air temperature is higher then fresh air, operates at night when standby mode is turned on.	
Cool recovery	
The heat exchanger recovers cold air from exhaust air when premises temperature is lower than outside.	
By-pass three-positional control	
Minimum and maximum limits for supply air temperature	
By activating temperature control according to extracted air sensor (Min. -15°C, Max. +40°C adjustable in service menu).	
PWM control of electric post-heater	
ON/OFF control of DX coolers	
Water cooler control with three-positional valve actuator	
ON/OFF control of circulation pump	
Fans’ speed synchronous 0-10V control	
Separate fans’ speed asynchronous 0-10V control	
4 speeds for easy end-user control	
Service menu allows adjusting each speed separately.	
BOOST function	
Fans operate at high speed (set in service menu). Operation time is also set in service menu. „Boost” function is reflected in FLEX remote.	
CO2, constant pressure, humidity control	
Fan speed control only.	
CO2, constant pressure control	
Possibility to connect CO2 or two pressure transmitters.	
Supply air temperature control according to the extract air sensor	
Exhaust air damper control	
Supply air damper control	
Remote control ModBus input	
Web-based software control.	
Remote controller input	
Safety/emergency signal indications	
Economy mode by external signal Start / Stop. Turns economy mode by external signal	
Building protection function. Protecting building from moisture, mold and moisture (drying). Room protection from drying	
Configured shutdown duration time (you can set how long a day is allowed to turn off the unit)	
Seasons switching by the calendar, 3-day average or manually	
Economic operation mode (unit is working by lowest speed and trying to keep the set economic temperature).	
Overheat protection	
Additional electrical heater overheat protection (software).	
Fire alarm signal	
Fire and smoke alarm input	
The AHU stops till alarms are reset.	
Fans’ overheating alarm signal	
Filter pollution indicator by pressure drop transmitter	
Filter pollution indicator by working hours	
A possibility to choose period of time after which indication informs about necessity to change the filters. (Min. 168 h, Max. 6482 h) Number of working hours set as default -2160h.	
FanRun function	
Unit in operation signal.	
FanFail function	
Unit off operation signal.	
Extracted air temperature sensor	
Exhaust air temperature sensor	
Returning water temperature sensor	
Extracted air relative humidity converter	
Fresh air temperature sensor	
Supplied air temperature sensor	

Controllers		
	Ptouch Smart control, professional adjusting	Stouch Easy control, optimal adjusting
Display	LCD 65k colours	Segment
One touch control		✓
Child lock	✓	✓
Touch sound feedback	✓	✓
Modbus communication protocol	✓	✓
Software updates from SD card	✓	✓
Sleep mode	✓	✓
0-10 VDC output/input		✓
Frame		
Dimensions H/L/W (mm)	84/124/16	84/84/22
Date and time	✓	
Language selection	✓	
Supply air temperature	✓	✓
Set point temperature	✓	✓
Fan speed	✓	✓
Humidity level	✓	
CO2 level	✓	
Menu	✓	

SMARTY CONTROL OPTIONS




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Approved for Passive Houses

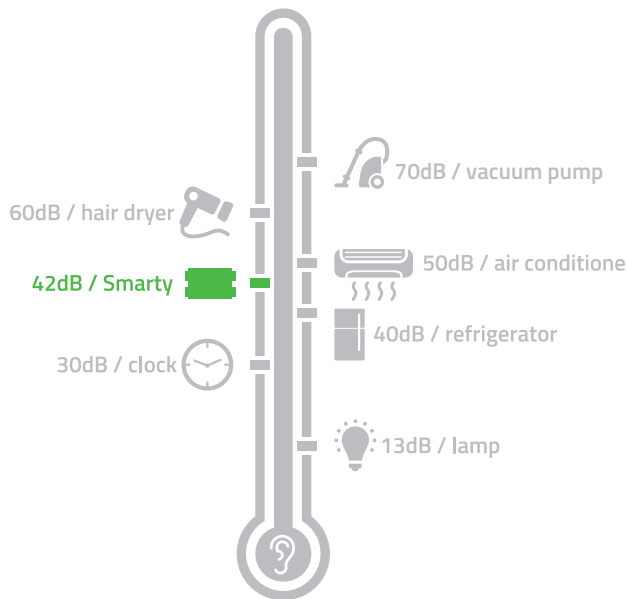


2015
Ver. C 

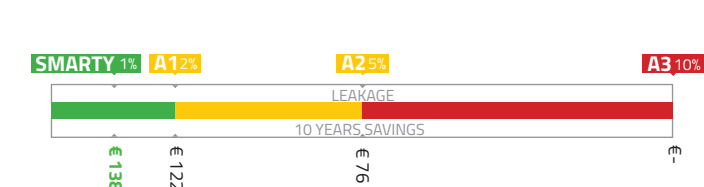
Smarty

Compact ventilation unit Smarty for residential buildings. Exclusive models characterized by efficiency up to 94 % and lowest leakage parameters. Tested and certified by independent EU laboratories. Advanced control system ensures comfortable and efficient operation of the unit. Designed for Passivehaus, DIBt, Appendix Q, EN BE308; EN 13141-7 certification !

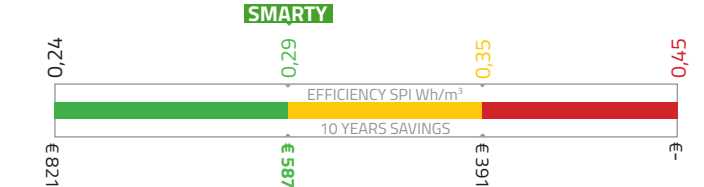
LOW NOISE*



LEAK-PROOF*



EFFICIENCY*



* Euro area (EA-17) 0,211 € kWh: Eurostat statistics data;
www.passiv.de: reference point 220m³/h efficiency, 333 m³/h leakage;

APPLICATION:

- › Apartments
- › Private houses
- › Villas

CASING:

- › Advanced casing insulation – EPP (λ 0.02 W/K m²)
- › The highest possible internal and external leakage class A1/A1 (EN13141-7)
- › Extremely low noise level within the housing LwA - 42dB (EN 13141-7)
- › External side of the casing powder coated in white - RAL 9016 (Corrosion C3)
- › The casing is made of two layers of galvanized steel and EPP
- › Hygienic condensate tray
- › Designed in accordance with hygiene requirements VDI 6022-1

FILTERS:

- › High-efficiency panel filters G4/G4, optional F7
- › Large filtering area - long service period (~ 6 months)
- › Easy and quick filters' change
- › Filter type corresponds requirements of EN 779: 2013 directive

FANS:

- › The new generation EC fans - EMB-papst radical
- › Specific power input of the unit SPI (efficiency) - 0,29W m³/h
- › Minimal power consumption (SFP).
- › 10 years exploitation time (40,000 hours)
- › Fans additionally protected with covers

HEAT EXCHANGER:

- › Cross counter - flow, plastic
- › Efficiency 94% (DIBt)
- › Efficiency up to 94% (70% 50Pa EN 13141-7; + 2 °C)

- › Efficiency 85% (Passive haus)
- › 100% of the bypass damper (night-cooling)
- › By-pass monitoring sensor for smooth operation

CONTROL:

- › Integrated pressure switches for balanced and constant airflow
- › Switching power supply 1,3W (standby mode)
- › Pre-heater control 0-10V (0-100%) up to 1kW (by DIBt)
- › Optional duct heater controlled by automatics of the unit
- › Extensive remote control possibilities: Stouch; Ptouch; Flex; MB-Gateway

AIR FLOW RANGE (DEFAULT SETTINGS)

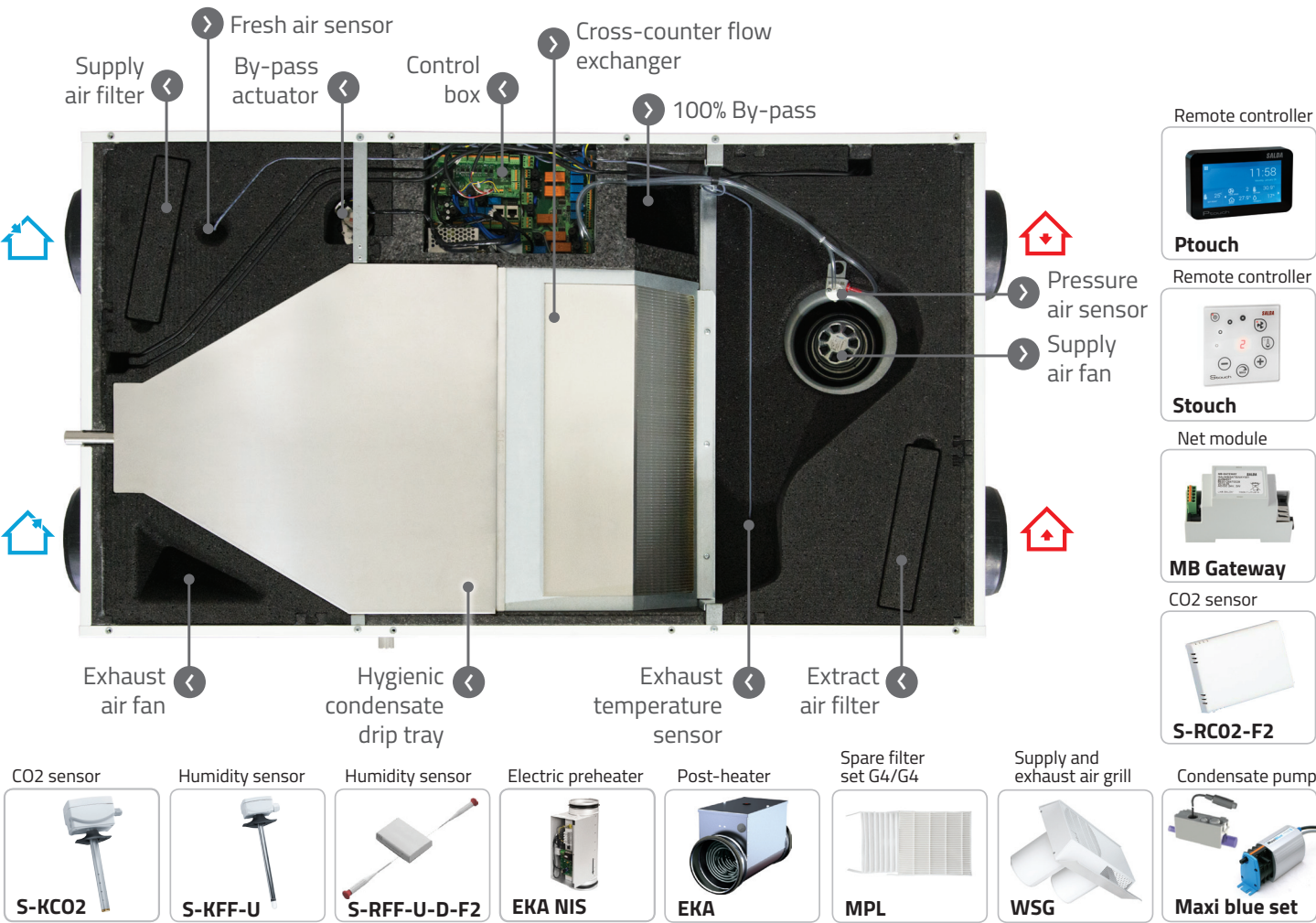
- › Operating range DIBt
- › Operating range Passivehaus

MOUNTING AND OPERATION:

- › Easy and convenient filter and heat exchanger maintenance
- › Anti-vibration materials for silent operation as a standard
- › Fresh air temperature up to -15 °C *
- › Ambient temperature +5/+40 °C
- › Supply air 17.5 °C air without additional heaters **
- › Balanced air flows (by DIBt requirement) ***
- › Plastic flanges - protection from cold bridges

*Operation in lower outdoor temperatures (up to -30 °C) available with more powerful pre-heater;
** Optional electric duct heater with autonomic control;
*** Remote percentage balance of air flows;

CONSTRUCTION



ACCESSORIES

Remote controller



Ptouch

Remote controller



Stouch

Net module



MB Gateway

CO2 sensor



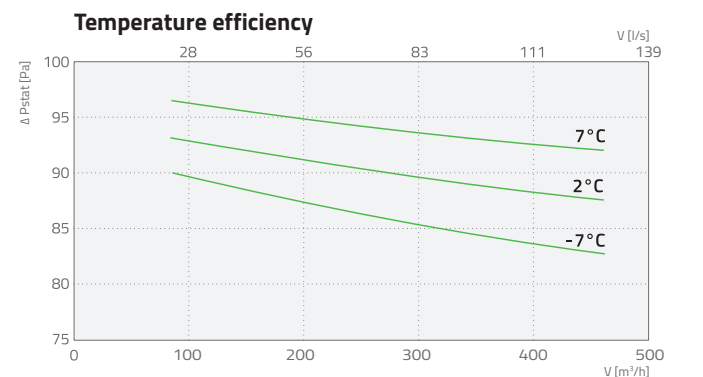
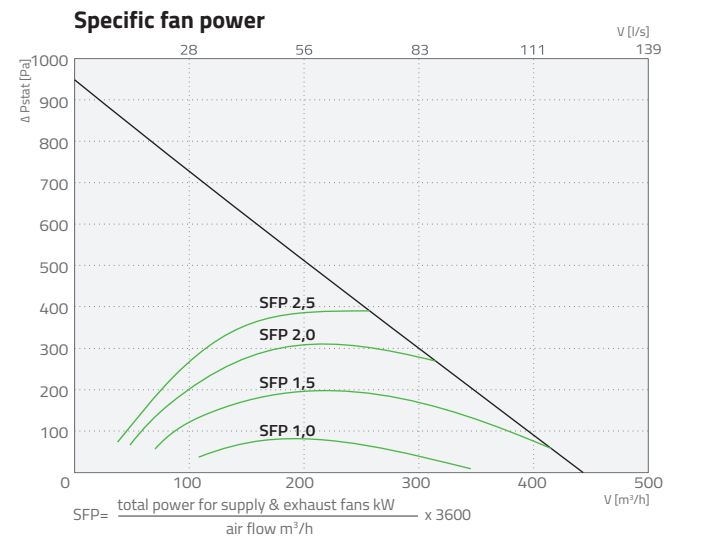
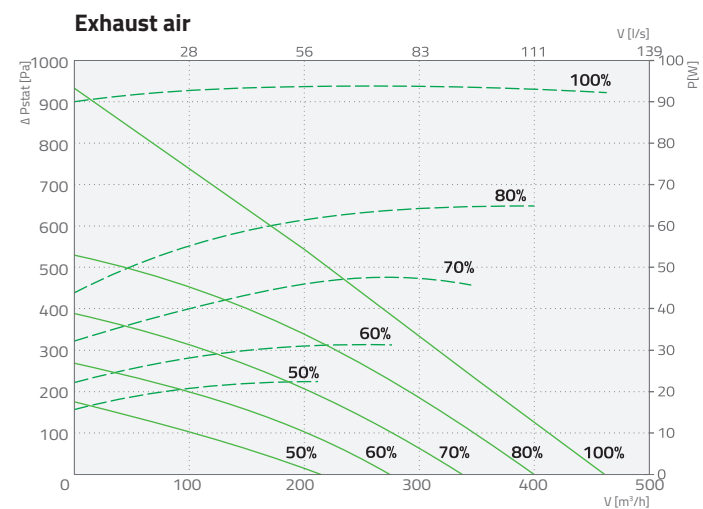
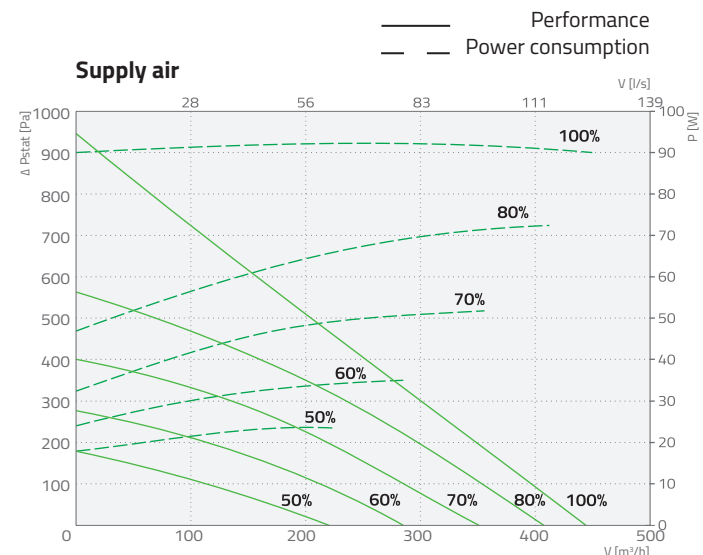
S-RCO2-F2

Condensate pump



Maxi blue set

Available from II quarter, 2015



Smarty 3X P				
EC fans	phase/voltage	[50Hz/VAC]	1,230	
exhaust	power/current	[kW/A]	0,084/0,75	
supply	fan speed	[min ⁻¹]	3200	
	power/current	[kW/A]	0,084/0,75	
		fan speed	[min ⁻¹]	

Thermal efficiency up to*		94%	
Max power consumption		[kW/A]	0,168/1,5
Filter class		exhaust/supply	G4/G4 (F7 optional)
Housing insulation, Elastic Polyether Polyurethane		[mm]	30
Colour		RAL	white
Weight (net, without packing)		[kg]	53
Comply with ERP			2015
Operation			indoors
Dimension (LxWxH)		[mm]	1225x685x318
Housing protection class		IP	34

*DIBt and EN13141-7

Smarty 3X P		LWA, dB(A)							
	Lwa total, dB(A)	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Supply	57	49	50	53	48	47	45	40	
Extract	50	41	43	44	42	39	37	34	
Surrounding	42	34	35	36	34	32	31	27	

Temperature efficiency (balanced mass flow):
Extract air = 20 °C/60%RH
Outdoor air = -7 °C / 2 °C / 7 °C

Certifications
EUROVENT certified heat exchanger performance

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com