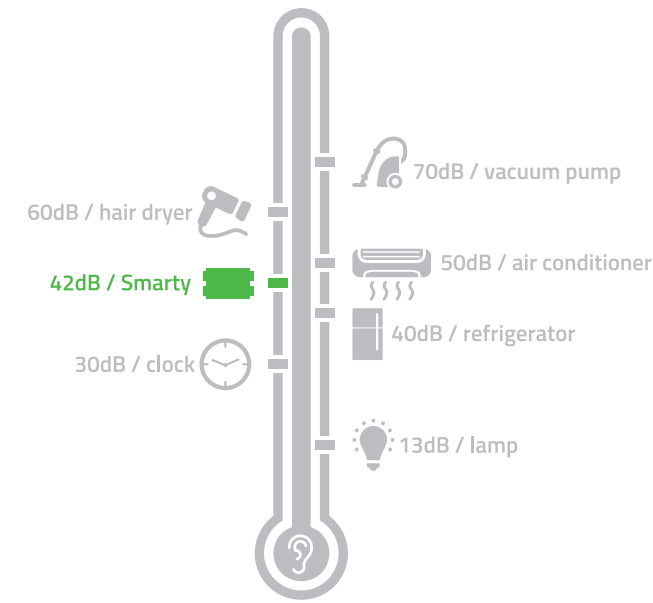


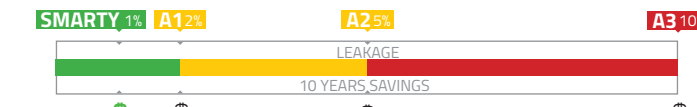
Smarty

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!

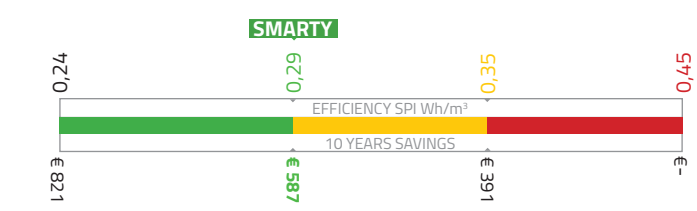
LOW NOISE*



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;

- > 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

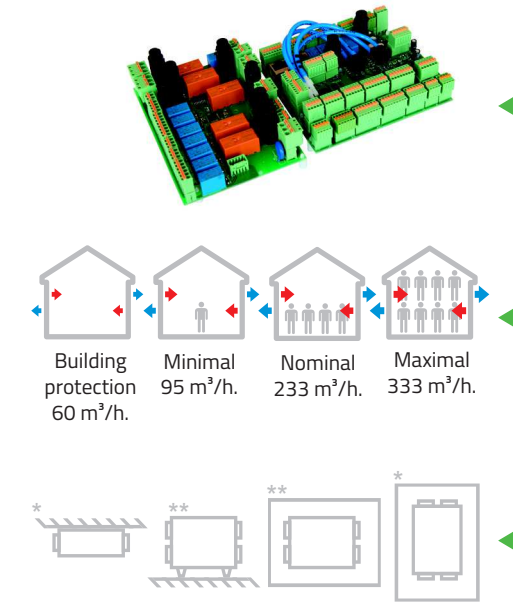
AIR FLOW RANGE (DEFAULT SETTINGS)

- > Operating range DIBt
- > Operating range Passivehaus

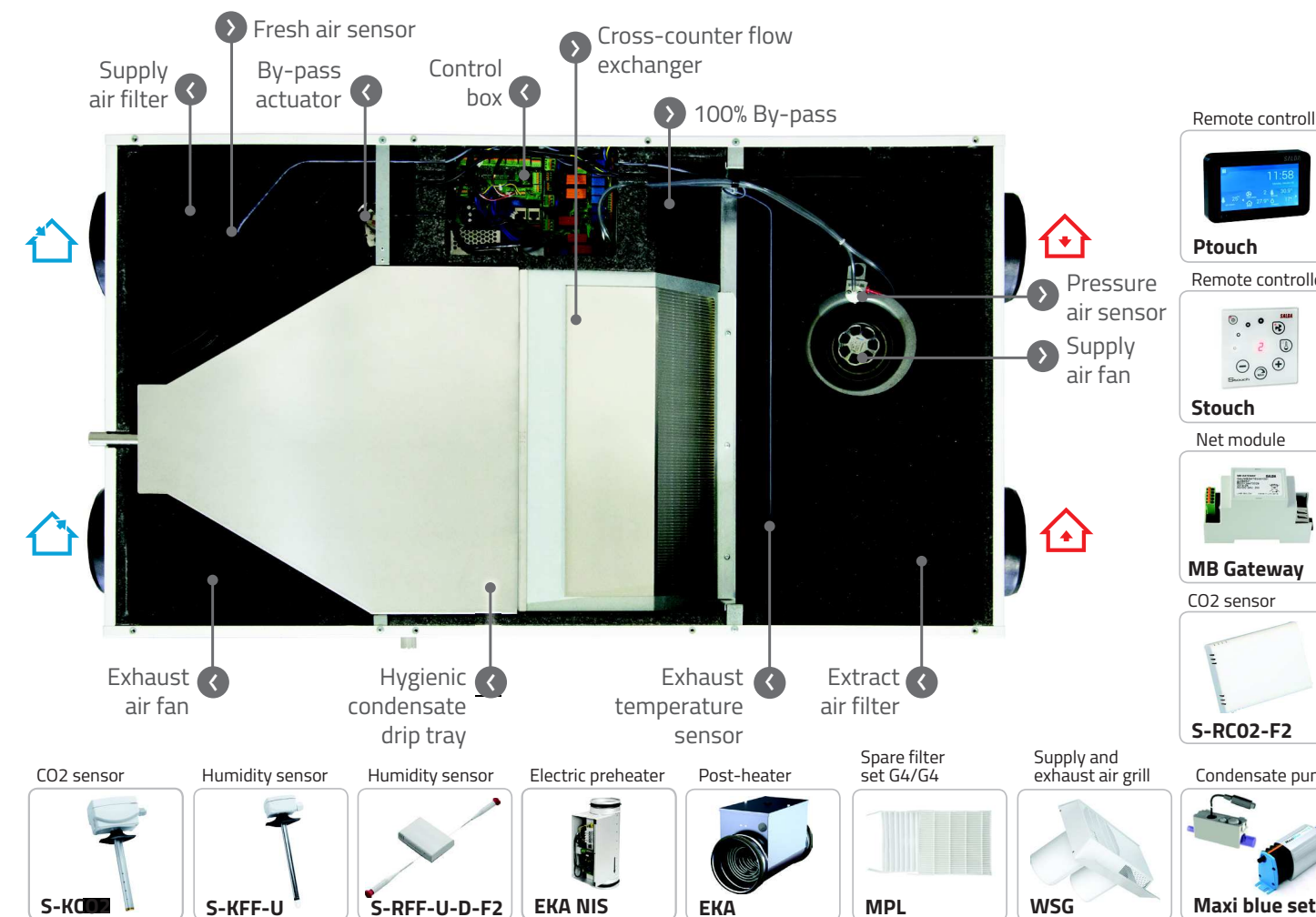
MOUNTING AND OPERATION:

- > 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 automatic control;
 *** Remote percentage balance of air flows;



CONSTRUCTION



ACCESSORIES

- Supply air filter
- Fresh air sensor
- By-pass actuator
- Control box
- Cross-counter flow exchanger
- 100% By-pass
- Pressure air sensor
- Supply air fan
- Remote controller Ptouch
- Remote controller Stouch
- Net module MB Gateway
- CO2 sensor S-RC02-F2
- Exhaust air fan
- Hygienic condensate drip tray
- Exhaust temperature sensor
- Extract air filter
- CO2 sensor S-KC
- Humidity sensor S-KFF-U
- Humidity sensor S-RFF-U-D-F2
- Electric preheater EKA NIS
- Post-heater EKA
- Spare filter set G4/G4 MPL
- Supply and exhaust air grill WSG
- Condensate pump Maxi blue set

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

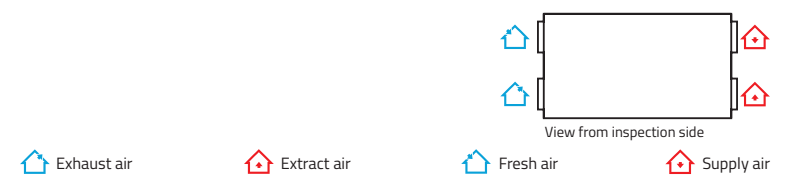
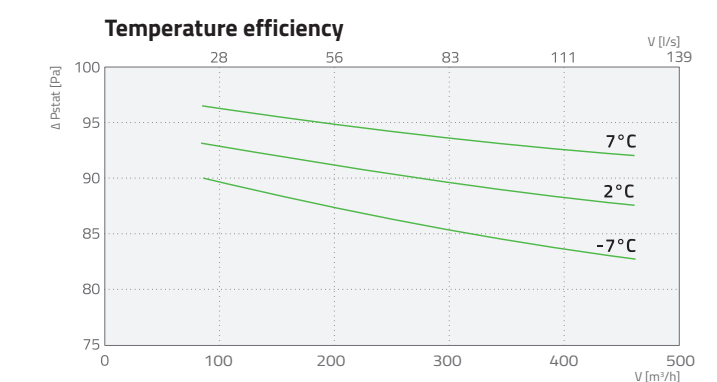
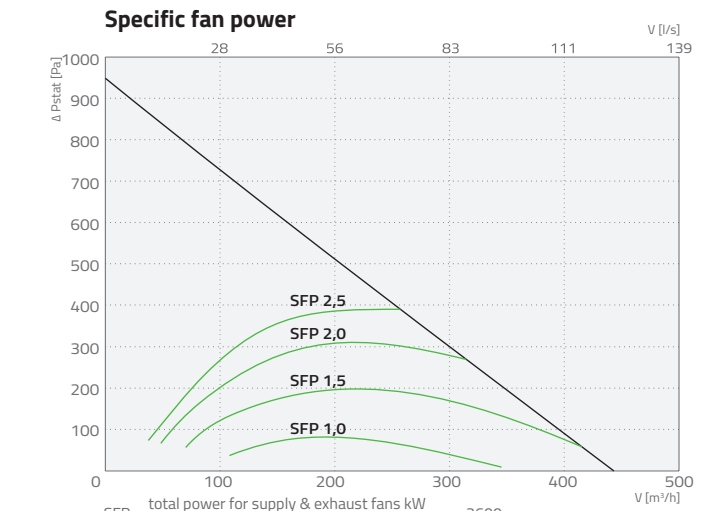
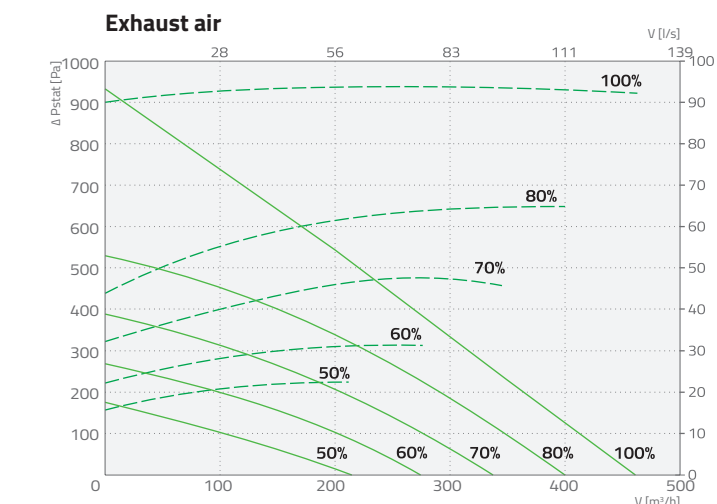
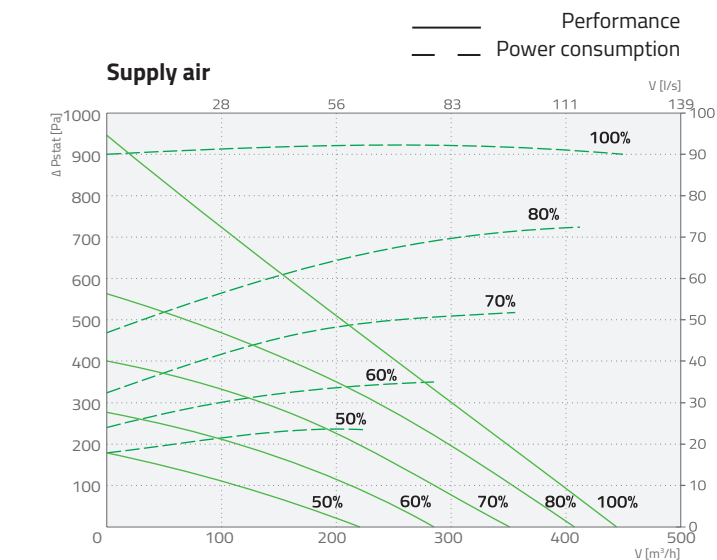
FANS:

- > 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)

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
	fan speed	[min⁻¹]	3200
supply	power/current	[kW/A]	0,084/0,75
	fan speed	[min⁻¹]	3200

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 total, dB(A)	LWA, 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

Measured at 230 m³/h, 99 Pa

Temperature efficiency (balanced mass flow):
 Extract air = 20°C/60%RH
 Outdoor air = -7°C/2%/17°C



Certifications

EUROVENT certified heat exchanger performance