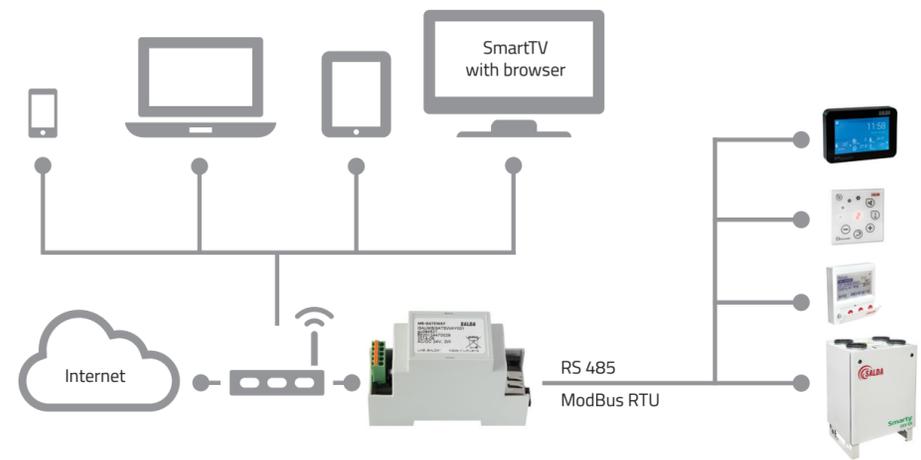




SMARTY 3X VE 3.0 FUNCTIONS	
Main functions and control of functional units	
<b>User and servicing control level</b>	
<b>Week timer + Holidays + Digital timer channels</b>	
8 events for each day or weekday group* per week. *1-7 entire week, 1-5 working days, 6-7 weekend.	
<b>START/STOP function</b>	
„START/STOP” 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.	
<b>Year-round optimization of recovery unit regulation</b>	
Winter –heat recovery; Summer – cold recovery; Autumn and spring – low rotor speed/half by-pass opened.	
<b>Night Cooling function</b>	
The premises are cooled down by supplying fresh air, when exhaust air temperature is higher than fresh air, operates at night when standby mode is turned on.	
<b>Cool recovery</b>	
The heat exchanger recovers cold air from exhaust air when premises temperature is lower than outside.	
<b>By-pass three-positional control</b>	
<b>Minimum and maximum limits for supply air temperature</b>	
By activating temperature control according to extracted air sensor (Min. -15°C, Max. +40°C adjustable in service menu).	
<b>PWM control of electric post-heater</b>	
<b>ON/OFF control of DX coolers</b>	
<b>Water cooler control with three-positional valve actuator</b>	
<b>ON/OFF control of circulation pump</b>	
<b>Fans’ speed synchronous 0-10V control</b>	
<b>Separate fans’ speed asynchronous 0-10V control</b>	
<b>4 speeds for easy end-user control</b>	
Service menu allows adjusting each speed separately.	
<b>BOOST function</b>	
Fans operate at high speed (set in service menu). Operation time is also set in service menu. „Boost” function is reflected in FLEX remote.	
<b>CO2, constant pressure, humidity control</b>	
Fan speed control only.	
<b>CO2, constant pressure control</b>	
Possibility to connect CO2 or two pressure transmitters.	
<b>Supply air temperature control according to the extract air sensor</b>	
<b>Exhaust air damper control</b>	
<b>Supply air damper control</b>	
<b>Remote control ModBus input</b>	
Web-based software control.	
<b>Remote controller input</b>	
Safety/emergency signal indications	
<b>Economy mode by external signal Start / Stop. Turns economy mode by external signal</b>	
<b>Building protection function. Protecting building from moisture, mold and moisture (drying). Room protection from drying</b>	
<b>Configured shutdown duration time (you can set how long a day is allowed to turn off the unit)</b>	
<b>Seasons switching by the calendar, 3-day average or manually</b>	
<b>Economic operation mode (unit is working by lowest speed and trying to keep the set economic temperature).</b>	
<b>Overheat protection</b>	
Additional electrical heater overheat protection (software).	
<b>Fire alarm signal</b>	
<b>Fire and smoke alarm input</b>	
The AHU stops till alarms are reset.	
<b>Fans’ overheating alarm signal</b>	
<b>Filter pollution indicator by pressure drop transmitter</b>	
<b>Filter pollution indicator by working hours</b>	
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.	
<b>FanRun function</b>	
Unit in operation signal.	
<b>FanFail function</b>	
Unit off operation signal.	
<b>Extracted air temperature sensor</b>	
<b>Exhaust air temperature sensor</b>	
<b>Returning water temperature sensor</b>	
<b>Extracted air relative humidity converter</b>	
<b>Fresh air temperature sensor</b>	
<b>Supplied air temperature sensor</b>	

Controllers	Ptouch Smart control, professional adjusting	Stouch Easy control, optimal adjusting	Flex Simple control, advanced adjusting
Display	LCD 65k colours	Segment	LCD Monochrome
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	86/86/19
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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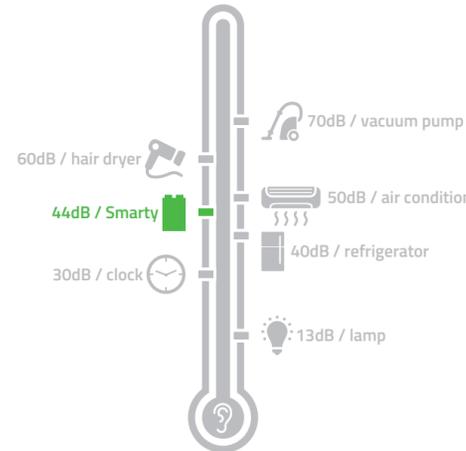
Distributor



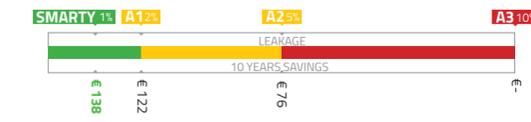
# Smarty

Compact ventilation unit Smarty for residential buildings. Exclusive models characterized by efficiency up to 90% and lowest leakage characteristics < 1%. Tested by independent EU laboratories and accredited by DIBt certificate. Advanced control system guarantees comfortable and efficient operation of the unit.

## LOW NOISE\*



## LEAK-PROOF\*



## EFFICIENCY\*



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

## APPLICATION:

- › Apartments
- › Private houses
- › Villas

## CASING:

- › Advanced casing insulation - mineral wool 30mm (λ 0.03 W mK)
- › The highest possible internal and external leakage class A1/A1 (EN13141-7)
- › Extremely low noise level within the housing LwA - 44dB (EN 13141-7)
- › External side of the casing powder coated in white - RAL 9016
- › The casing is made of two layers of galvanized steel
- › Hygienic condensate drip tray
- › Designed in accordance with hygiene requirements VDI 6022-1

## FILTERS:

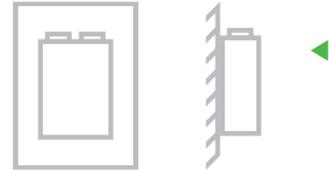
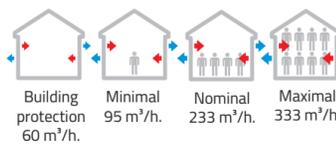
- › High-efficiency panel filters M5/F7
- › Large filtering area - long service period (up to 6 months)
- › Filter type corresponds requirements of EN 779: 2013 directive

## FANS:

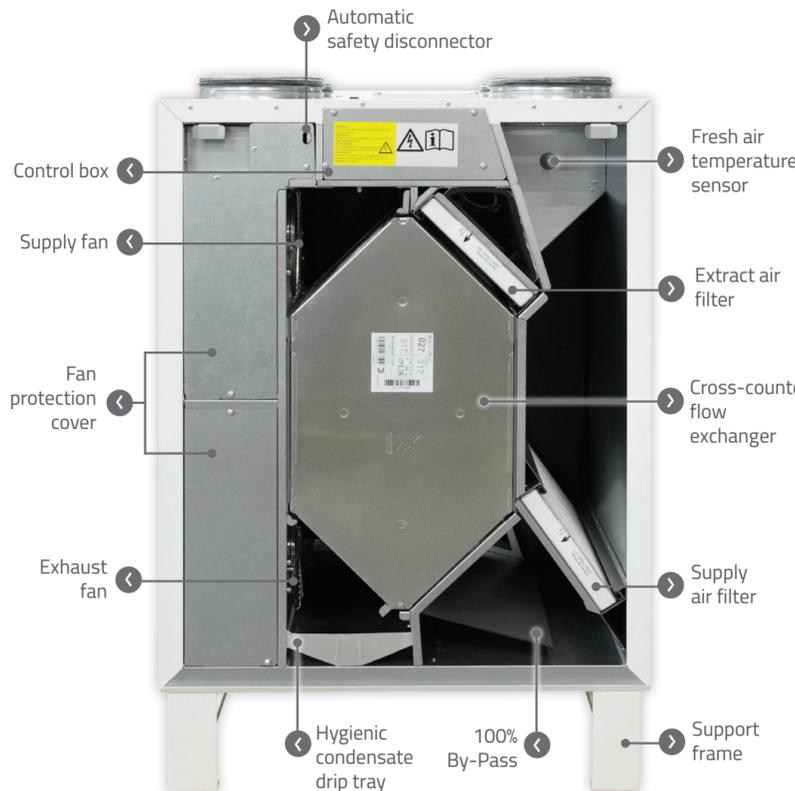
- › The new generation EC fans - EBM-papst
- › Specific power input of the unit SPI (efficiency) - 0,3W m³/h
- › Minimal power consumption (SFP)
- › 10 years exploitation time (40,000 hours)
- › Fans additionally protected with covers

## HEAT EXCHANGER:

- › Cross-counter flow, aluminium
- › Efficiency up to 84% (70% 50Pa EN13141; +2°C)
- › Efficiency up to 92% (calculated for balanced air flows)
- › 100% of the bypass damper (night-cooling)



## CONSTRUCTION



## CONTROL:

- › Stand-by power consumption 1,3W
- › Pre-heater control 0-10V (0-100%) up to 1kW (by DIBt)
- › Optional duct post-heater control
- › Open doors automatic safety disconnecter
- › Extensive remote control possibilities: Ptouch; Stouch; Flex; MB-Gateway

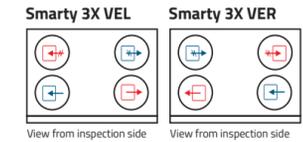
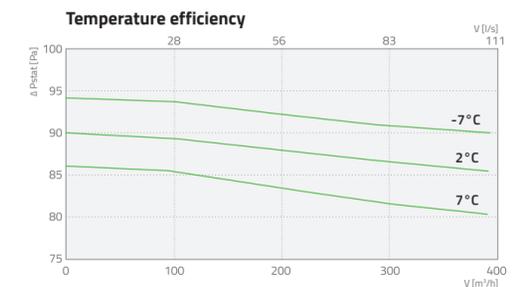
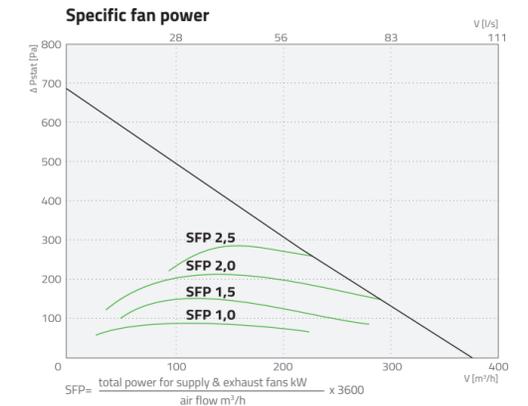
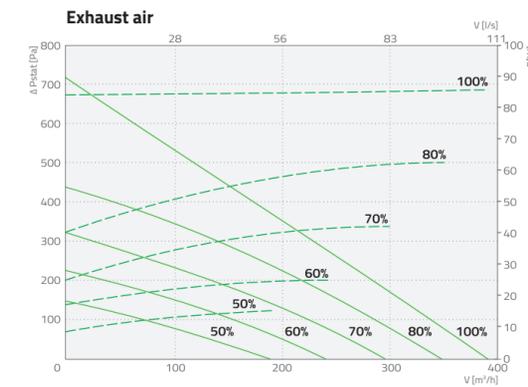
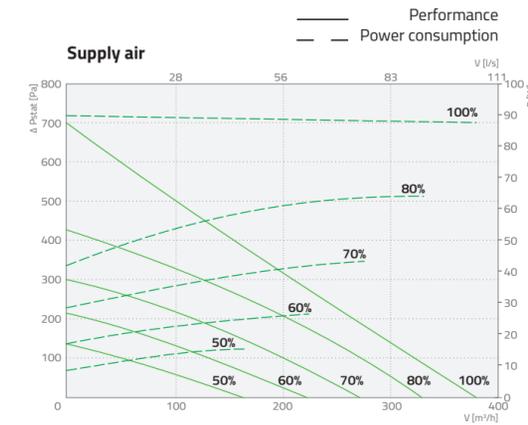
## AIR FLOW RANGE (DEFAULT SETTINGS)

## 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 (by DIBt)\*
- › Ambient temperature +5/+40°C
- › Supply air temperature 17.5°C air without additional post-heater (by DIBt)\*\*
- › Balanced air flows (by DIBt)\*\*\*

\* In -30°C outdoor temperature operation is used with powerful post-heater;  
\*\* Optional duct post-heater (on/off control);  
\*\*\* Air flow balance in % with remote controller;

## ACCESSORIES



➡ Exhaust air   ➡ Extract air   ➡ Fresh air   ➡ Supply air

Unit	Version
Smarty 3X VER	Certified DIBt; PRV 2.3 control board
Smarty 3X VEL	Standard; PRV 2.4 control board
Smarty 3X VER 3.0	Standard; PRV 2.4 control board
Smarty 3X VEL 3.0	Standard; PRV 2.4 control board

Smarty 3X VER/VEL/3.0			
EC fans	phase/voltage	[50Hz/VAC]	~ 1, 230
exhaust	power/current	[kW/A]	0,089/0,83
	fan speed	[min <sup>-1</sup> ]	3200
supply	power/current	[kW/A]	0,086/0,92
	fan speed	[min <sup>-1</sup> ]	3200
Thermal efficiency up to*			90%
Max power consumption	[kW/A]		0,18/1,77
Filter class	exhaust/supply		M5/F7
Housing insulation, mineral wool	[mm]		30
Colour	RAL	white	9016
Weight (net, without packing)	[kg]		57,0
Comply with ERP			2015
Operation			indoors
Dimension (LxWxH)	[mm]		598x500x750
Housing protection class	IP		34

Smarty 3X VER/VEL/3.0	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	66	55	58	60	61	59	55	44
Extract	57	52	51	50	48	44	36	32
Surrounding	48	41	42	43	41	38	34	27

Measured at 300 m³/h, 100 Pa

**Certifications**  
EUROVENT certified heat exchanger performance

