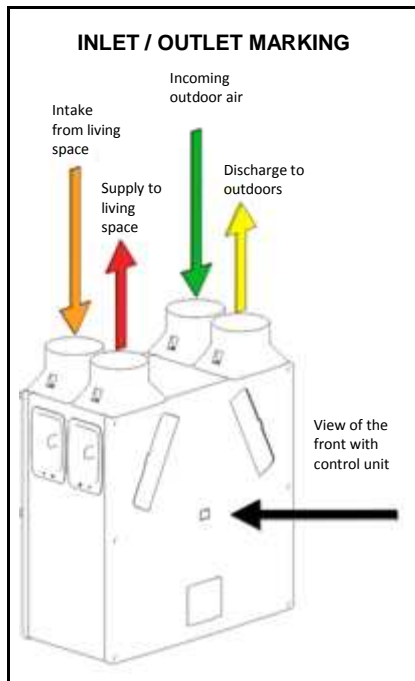
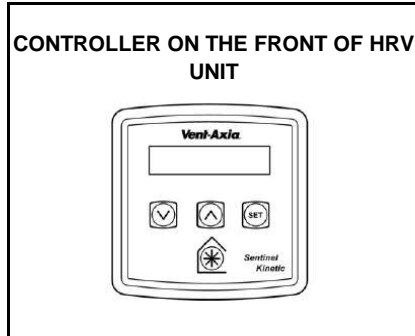


Sentinel Kinetic B Heat Recovery Ventilation Unit



Description	HRV unit with summer bypass and integrated controller
Application	whole-house HRV unit designed for ventilation of residential houses of living area up to 200 sqm
Controller	integrated in the unit, control panel located on its front
Bypass	automatic, based on the outdoor and inner temperatures; it helps cool down inner space in the summer
Code	10 176

Performance data	
Max. air flow rate *	275 m ³ /h
Heat recovery efficiency	max. 92 %
Energy efficiency class	A
Low air flow	20 % (preset)
Medium air flow	30 % (preset)
High air flow	50 % (preset)
Purge	100 %

* flow rates for specific installations shall be modified by performance diagrams

Acoustic data	
Sound level (at 3 m)	20 dB(A) for medium-speed mode 36 dB(A) for high-speed mode

Electric data	
Power supply	220-240 V AC, 50 Hz
Power supply fuse	3 A (external fuse)
Unit fuse	2 A (internal fuse)
Nominal power input	max. 128 W
IP rating	IP 22

Dimensions, weight and installation	
Height x width x depth	550 x 550 x 285 mm (without necks)
Spigot diameter	125 mm
Condensate hose	∅ 22 mm
Weight	15 kg
Mounting manner	wall hung

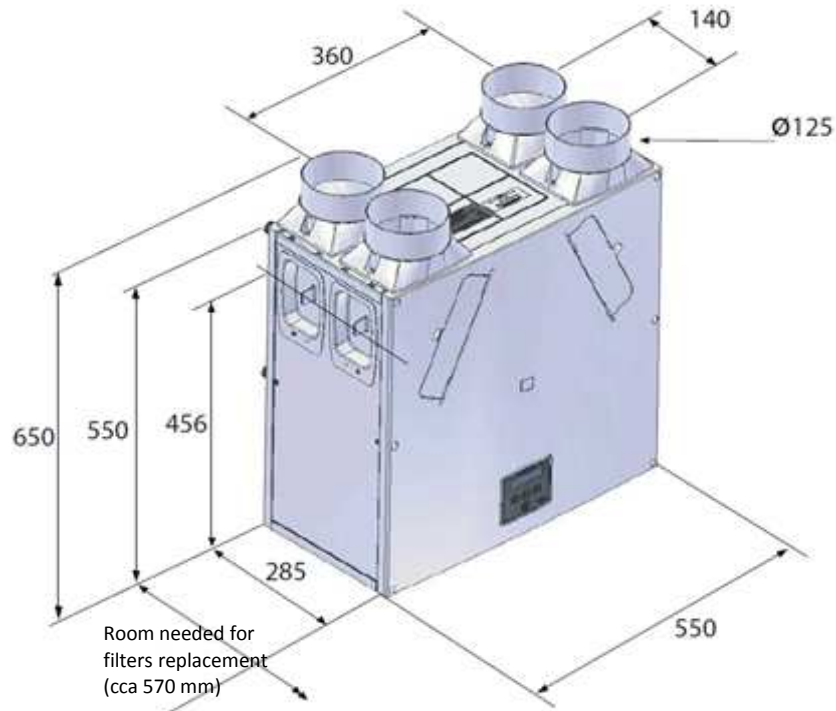
Ambient conditions	
Incoming air temperature	-10 to 45 °C
Ambient temperature	-10 to 50 °C
Humidity (operation, storing)	up to 95 % RH

Flow rate adjustment depending on the total floor area of rooms to be ventilated *							
Max. ventilated room area	volume	low speed		medium speed		high speed (boost)	
		setting	[m ³ /h]	setting	[m ³ /h]	setting	[m ³ /h]
80 m ²	200 m ³	25%	40	40%	70	60%	130
100 m ²	250 m ³	30%	50	50%	100	70%	160
120 m ²	300 m ³	35%	60	60%	130	80%	200
150 m ²	375 m ³	40%	70	70%	160	100%	240

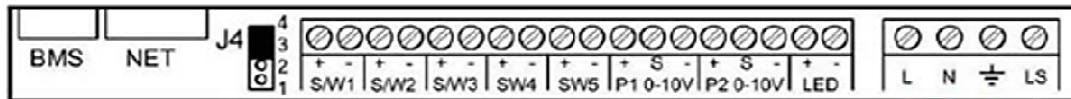
* Preset values can be changed freely. Switching between low and medium speed is automatic following the preset time program. Boost mode can be switched on either periodically, or by schedule, or by pressing a key (⊛) Repeated pressing the key returns the unit to medium speed.

Sentinel Kinetic B Heat Recovery Ventilation Unit

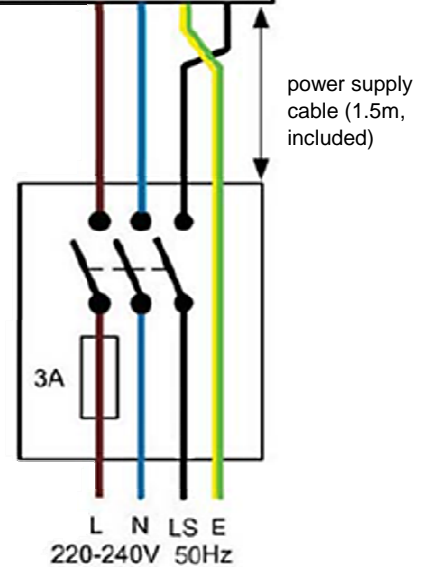
Dimensions



Wiring of terminals, switches and sensors



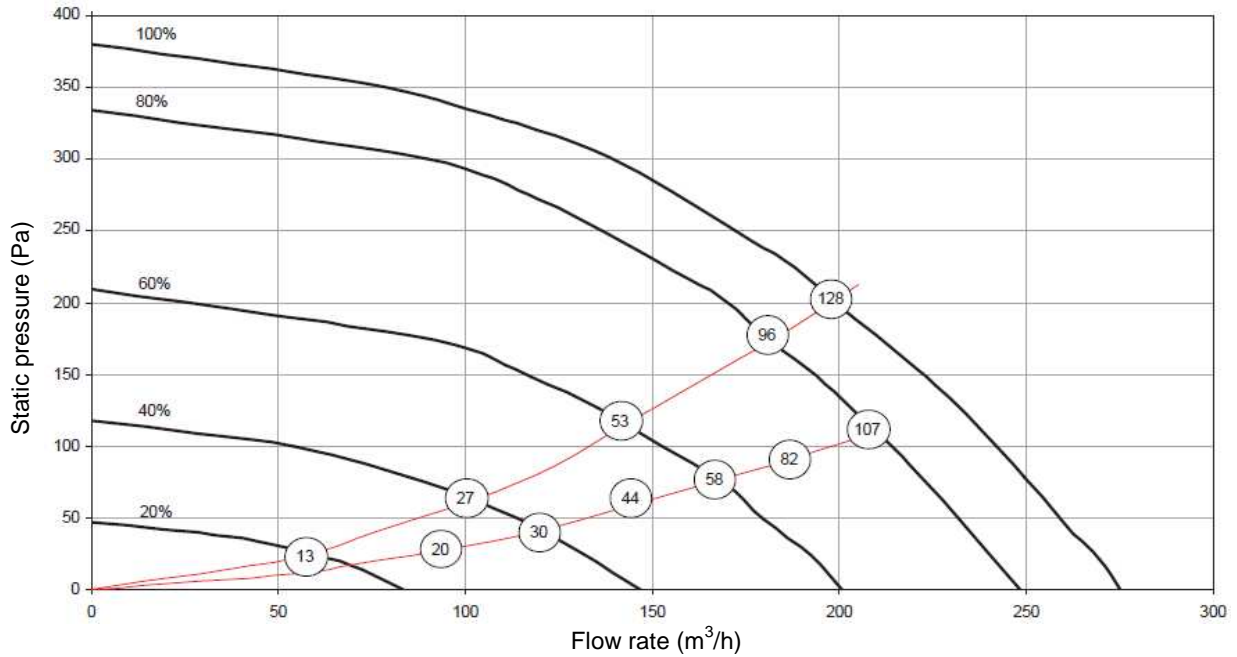
- BMS** wiring to Building Management System
- NET** network
- J4** Vent-wise terminals
- SW1** when jumper is used on terminals 3-4, these terminals are designed for volt-free contact for sensor input between + and – terminals
- SW2**
- SW3**
- SW4** Volt-free contact for sensor input between + and – terminals
- SW5**
- P1 0-10 V** 0-10 V proportional sensor input is received between S and - terminals; 24 V DC sensor supply is output between the + and – terminals
- P2 0-10 V**
- LED** 5 V LED driving signal output between the + and – terminals
- L** live, 220 - 240 V AC, 50 Hz
- N** neutral, 220 - 240 V AC, 50 Hz
- PE** PE, protective earth in TN-S network
- LS** control live, 220 - 240 V AC, 50 Hz



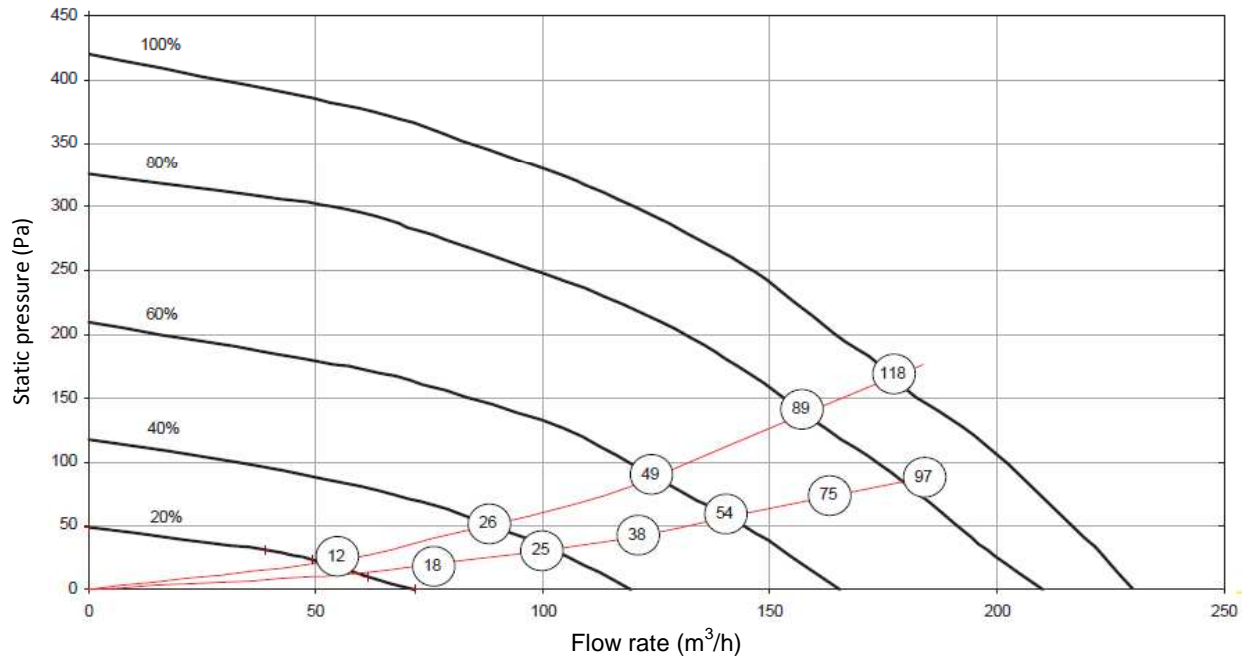
Sentinel Kinetic B Heat Recovery Ventilation Unit

Graph of performance data

Vertical air outlets



Horizontal air outlets



Note: red curves represent current air ducts, the numbers in circles stand for the whole unit power input in Watt