

HRV air-to-air heat exchangers with heat recovery



- › Air-to-air cross-flow heat exchanger for stand-alone operation
- › New chassis in four sizes
- › DC fan motor
- › Wide operating temperature range
- › Enthalpy exchange efficiency of up to 88%
- › Conforms to the ENTR LOT 6, Tier 2 requirements
- › An optional CO₂/PM sensor adapts the fan speed to suit the room air quality status
- › Integrated standard air filter
- › Optional high-performance air filter
- › Ventilation control screen with RBC-AMSU52-E / AWSU52-E remote control
- › Display with information about the room air quality, temperatures, and humidity
- › Convenient control of all air handling functions
- › The DC motor provides flexible management of the air volume and automatic stable adaptation of the air volume.
- › An electric damper on the fresh air inlet and a wind-proof non-return flap on the exhaust air side prevent outdoor air from entering when the unit is switched off.

Versatile air handling options when integrated into SMMSu systems:

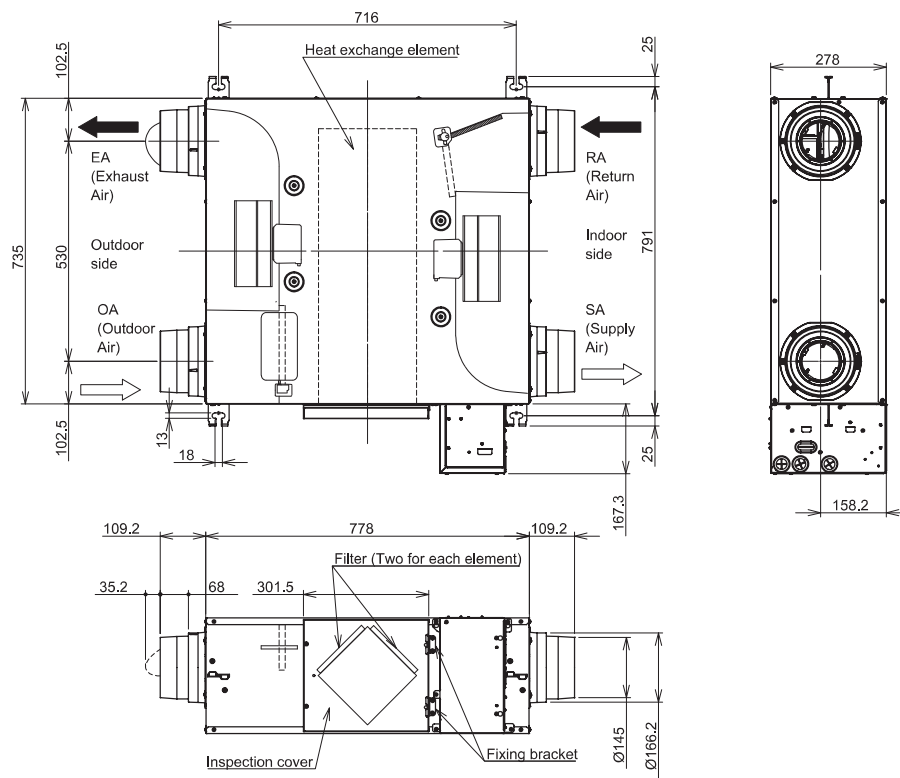
- › Operation with delay: Operation of the HRV air handling unit is delayed in 10-minute increments for 10 to 60 minutes.
- › 24-hour ventilation: The HRV air handling unit works continuously, even if the air conditioning system is switched off.
- › Night time heat dissipation: Removes hot air from the room in bypass mode and reduces the cooling load in the morning.
- › Automatic ventilation mode: The ventilation mode is automatically switched according to the operating status of the air conditioning system and the information from room and outdoor air temperature sensors in the unit (cooling, heating, drying, fan, or temperature setting).
- › Not a stock item – lead time on request

INDOOR UNIT		VN-U00151SY-E	VN-U00251SY-E	VN-U00351SY-E	VN-U00501SY-E	VN-U00651SY-E	VN-U00801SY-E	VN-U01001SY-E
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Heat exchanger mode power consumption (min./nom./max.)	W	28/35/43/56	29/39/57/75	39/59/92/152	51/60/105/174	55/96/176/306	62/114/196/328	74/151/291/541
Airflow (min./nom./max.)	m³/h	73/95/120/150	100/145/210/250	140/210/280/350	260/300/400/500	260/390/520/650	320/480/640/800	400/600/800/1000
External static pressure	Pa	26/43/60/90	06/30/53/75	26/57/100/160	39/45/80/125	29/58/100/150	28/53/92/145	30/60/110/170
Sound pressure level (low/med/high)	dB(A) ❄️	20/22/25/28	20/24/27/28	21/26/31/36	25/27/31/36	24/30/35/39	23/30/35/39	24/33/38/41
Sound pressure level (low/med/high)	dB(A) 🔴	20/22/25/28	20/24/27/28	21/26/31/36	25/27/31/36	24/30/35/39	23/30/35/39	24/33/38/41
Temperature exchange efficiency (min./nom./max.)	%	83,0/83,5/84,5/85,0	80,0/80,5/82,0/84,0	81,0/81,5/84,0/87,0	79,0/79,5/80,0/80,5	77,0/77,5/78,0/79,0	78,0/79,0/84,0/91,0	78,0/78,5/80,0/87,0
Enthalpy exchange efficiency (min./nom./max.)	% 🔴	76,0/80,0/81,0/82,0	75,0/76,0/78,0/81,0	73,0/76,0/80,0/84,0	73,0/76,0/80,0/84,0	70,0/72,0/74,0/76,0	73,0/74,0/80,0/88,0	72,0/73,0/75,0/83,0
Enthalpy exchange efficiency (min./nom./max.)	% ❄️	66,0/73,0/75,0/77,0	65,0/68,0/71,0/75,0	64,0/67,0/71,0/76,0	64,0/66,0/68,0/69,0	60,0/62,0/66,0/69,0	64,0/67,0/73,0/81,0	62,0/63,0/68,0/77,0
Dimensions (HxWxD)	mm	778 x 735 x 278	778 x 735 x 278	880 x 880 x 305	920 x 1020 x 337	920 x 1020 x 337	1130 x 1230 x 386	1130 x 1230 x 386
Air connections diameter	mm	100	150	150	200	200	250	250
Weight	kg	29	29	40	47	47	63	63
Price	€	1.950,-	2.000,-	2.350,-	2.750,-	3.100,-	3.800,-	4.150,-

ACCESSORIES	DESCRIPTION	PRICE €
TCB-SFMC1V-E	Multifunctional air quality sensor for CO2 and PM2.5 particle concentration	960,-
TCB-PSFC551VSY-E	High performance filter (ePM1 55%) for model size 015/025	Not a stock item – lead time on request 90,-
TCB-PSFC551VMY-E	High performance filter (ePM1 55%) for model size 035	Not a stock item – lead time on request 105,-
TCB-PSFC551VLY-E	High performance filter (ePM1 55%) for model size 050/065	Not a stock item – lead time on request 140,-
TCB-PSFC551VXY-E	High performance filter (ePM1 55%) for model size 080/100	Not a stock item – lead time on request 170,-
TCB-KBCN610V-E	CN610 - DO: cold air detection	12,-
TCB-KBCN704V-E	CN704 - DO: supply fan ON, external damper, alarm, bypass mode	18,-
TCB-KBCN705V-E	CN705 - DI: remote controller prohibition, ventilation fan speed, ventilation mode, ON/OFF linked	110,-
TCB-KBCN706V-E	CN706 - DI: ON/OFF, ON/OFF linked	12,-

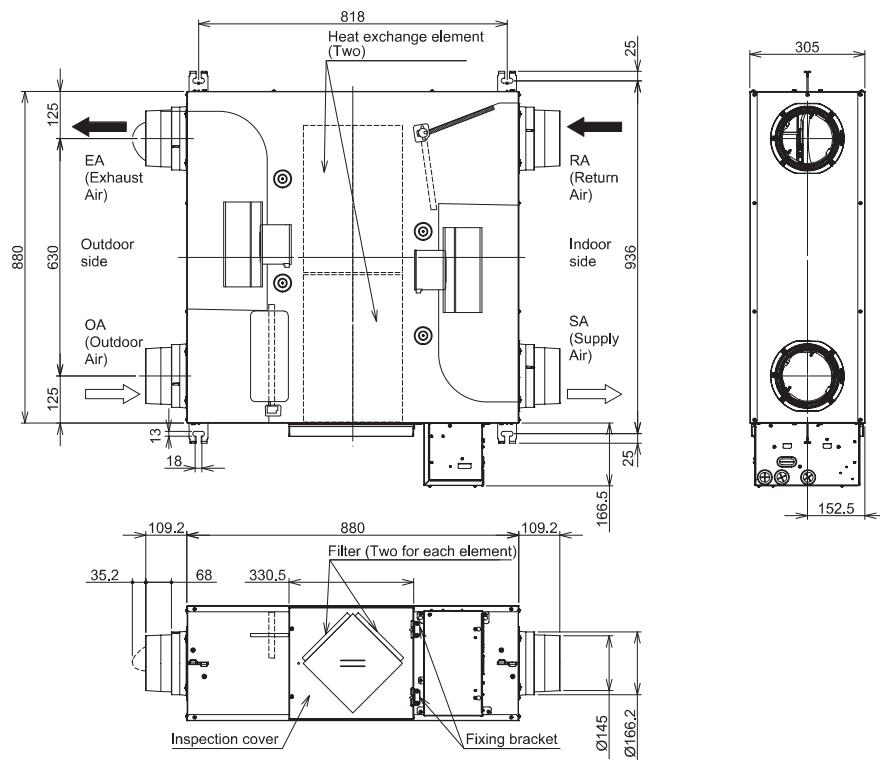
You will find all the control options from page 183 onwards.

VN-U00151SY-E



HRV AIR-TO-AIR HEAT EXCHANGERS WITH HEAT RECOVERY

VN-U00351SY-E



VN-U00501SY-E, VN-U00651SY-E

