



Air-to-air heat exchangers

Features

The air-to-air heat exchangers can be integrated with the air conditioning system. They use exhaust air to pre-condition the incoming air, thus reducing the cooling or heating load and the overall size of the required air conditioning system. A range of electric heaters is available, together with controls that enable integration with both split and VRF indoor units.

Key features

Five models available with air flow ranges from 70 to 280 l/s (250-1000 m³/h).

Fresh air ventilation: increasingly required in rooms with no window access.

Temperature and humidity: changed by the entering fresh air.

Recycles 20-50% of the energy lost by ventilation.

Improved energy efficiency, particularly during extremes of heat and cold.

Recovers up to 75% heat from exhaust air.

Technical specifications heat pump

Model		VN-250TE	VN-350TE	VN-500TE	VN-800TE	VN-1KTAE
Air flow (h/l)	m ³ /h – l/s	250/170 – 70/48	350/280 – 98/78	500/370 – 140/104	800/650 – 224/182	1000/810 – 218/227
Temperature exchange efficiency (h/l)	%	75/77	75/77	75/77	75/77	75/77
Sound pressure level (h/l)						
Heat reclaim mode	dB(A)	28/21	32/26	34/25	39/32	38.5/31
Bypass mode	dB(A)	28/22.5	32/26	34/26.5	38.5/33	39/31.5
Operating range	°C	–10 to 40°C	–10 to 40°C	–10 to 40°C	–10 to 40°C	–10 to 40°C
Power Input (h/l)						
Heat reclaim mode	W	119/79	154/117	214/151	347/302	445/332
Bypass mode	W	119/79	151/113	210/145	337/297	438/326
Enthalpy exchange efficiency (h/l)						
Heating	%	70/73	69/71	67/71	71/74	71/73
Cooling	%	63/66	66/69	62/67	65/68	65/68
Max. external static pressure (h/l)	Pa	90/37	95/42	105/38	140/70	90/35
Dimensions (H x L x D)	mm	270 x 599 x 882	270 x 804 x 882	270 x 904 x 962	388 x 884 x 1322	388 x 1134 x 1322
Weight	kg	29	37	43	71	83
Duct diameter	mm	150	150	200	250	250
Filtration efficiency grade (EU3)	%	82	82	82	82	82
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50
Maximum relative humidity	%	85	85	85	85	85