

Toshiba's VN model uses exhaust air to pre-condition the incoming air, thus reducing the cooling or heating load on the system. This allows the overall capacity size of the system to be reduced.

AIR FLOW



SOUND PRESSURE LEVEL



150m³/h > 2,000m³/h

20dB(A)

OUTDOOR UNITS COMPATIBILITY



Side Blow
& MINI SMMS-e



SMMS-u



SMMS-e



SHRM-e

LOCAL CONTROLS



NRC-01HE
RBC-AMTU31-E

Features

Item		VN-M150HE	VN-M250HE	VN-M350HE	VN-M500HE	VN-M650HE	VN-M800HE	VN-M1000HE1	VN-M1500HE1	VN-M2000HE1	
Air volume (m³/h)	Extra high	150	250	350	500	650	800	1000	1500	2000	
	High	150	250	350	500	650	800	1000	1500	2000	
	Low	110	155	210	390	520	700	700	1200	1400	
Power consumption (W)	Extra high	68-78	123-138	165-182	214-238	262-290	360-383	390	640	780	
	High	59-67	99-111	135-145	176-192	240-258	339-353	340	570	680	
	Low	42-47	52-59	82-88	128-142	178-191	286-300	190	320	380	
External static pressure (Pa)	Extra high	82-102	80-98	114-125	134-150	91-107	142-158	105	140	105	
	High	52-78	34-65	56-83	69-99	58-82	102-132	80	110	80	
	Low	47-64	28-40	65-94	62-92	61-96	76-112	70	80	70	
Sound pressure level (dB(A))	Extra high	26-28	29/5/30	34-35	32.5-34	34-36	37-38.5	38.0	41.0	41.5	
	High	24-25.5	25-27	30-32	29/5/31	33-34	35.5-37	37.0	40.0	40.5	
	Low	20-22	21-22	27-29	26-29	31-32.5	33.5-35	33.0	36.0	36.5	
Sound power level (dB(A))	Extra high	41.0-43.0	44.5-45.0	49.0-50.0	47.5-49.0	49.0-51.0	52.0-53.5	53.0	56.0	56.5	
Temperature exchange efficiency (%)	Extra high	81.5	78	74.5	76.5	75	76.5	73.5	76.5	73.5	
	High	81.5	78	74.5	76.5	75	76.5	73.5	76.5	73.5	
	Low	83	81.5	79.5	78	76.5	77.5	77.0	79.0	77.5	
Enthalpy exchange efficiency (%)	For heating	Extra high	74.5	70	65	72	69.5	71	68.5	71.0	68.5
		High	74.5	70	65	72	69.5	71	68.5	71.0	68.5
		Low	76	74	71.5	73.5	71.5	71.5	71.5	73.5	72.0
	For cooling	Extra high	69.5	65	60.5	64.5	61.5	64	60.5	64.0	60.5
		High	69.5	65	60.5	64.5	61.5	64	60.5	64.0	60.5
		Low	71	69	67	66.5	64	65.5	64.5	67.0	65.5
Power supply (V)		220-240V- 50Hz									
Dimensions (LxWxH) (mm)		900 x 900 x 290			1140 x 1140 x 350		1189 x 1189 x 400		1189 x 1189 x 810		
Weight (kg)		36	36	38	53	53	70	70	126	126	
Duct diameter (mm)		100	150		200		250		Inside: 250 Outside: 283x730		
Filtration efficiency grade (%)		82									
Operating range	Around unit	-10°C-40°C 80%RH or less									
	Outdoor Air (OA)	- 15°C(*1)-43°C 80%RH or less									
	Return Air (RA)	5°C-40°C 80%RH or less									

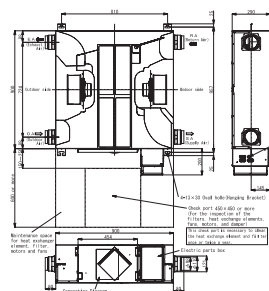
* Air volume can be changed over to high (Extra high) mode or low mode at both heat exchange and normal ventilation modes.
 * Sound pressure level is measured 1.5 m below the center of the unit, and the value which was measured at the acoustic room.
 * Sound pressure levels usually become higher than above values by the influence of actual installation condition such as reflected sound and peripheral noise.

* Sound power level is the value of casing.
 *1) When the temperature of the outdoor air is below -10°C, the unit runs cold operation mode (intermittent operation of the ventilation for air supply).
 The unit cannot be used at -15°C or less.
 The ventilator for air supply stops, and the ventilator for air exhaust also can be stopped by the setting.

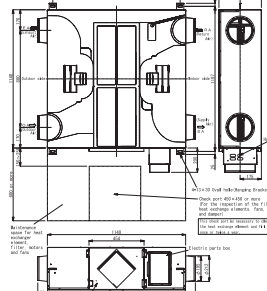
Drawings

Unit: mm

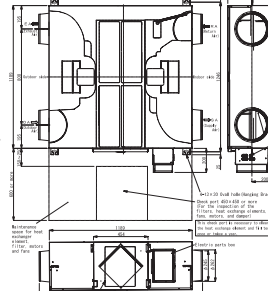
VN-M150HE to VN-M350HE



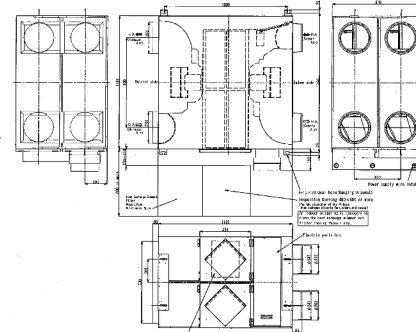
VN-M500HE & VN-M650HE*



VN-M800HE & VN-M1000HE1



VN-M1500HE1 & VN-M2000HE1

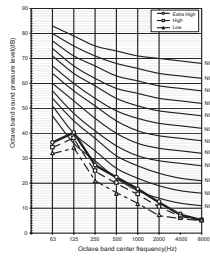


AIR-TO-AIR HEAT EXCHANGER

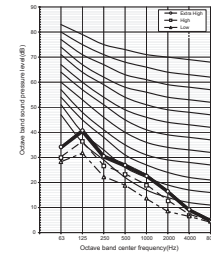
Sound pressure levels

Unit: dB(A)

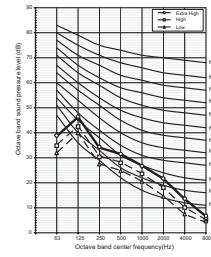
VN-M150HE



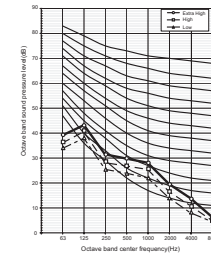
VN-M250HE



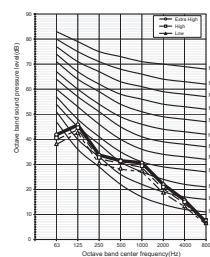
VN-M350HE



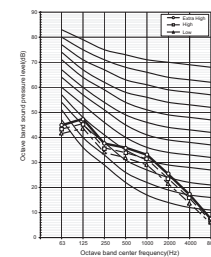
VN-M500HE



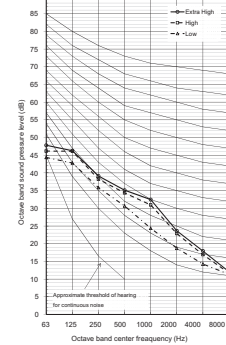
VN-M650HE



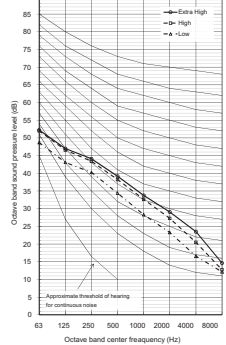
VN-M800HE



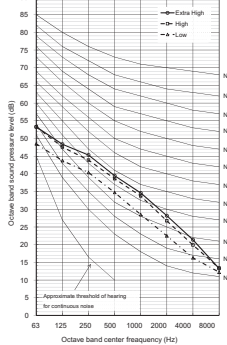
VN-M1000HE1



VN-M1500HE1



VN-M2000HE1



Accessories

Type	Model name	Description	Appearance	Remarks
Control	NRC-01HE	All air-to-air heat exchangers dedicated remote control		Integrated functions : fan speed, freecooling, air balance volume rate, temperature management and timer.
	NRB-1HE	All air-to-air heat exchangers On/Off additional PCB		On/off optional PCB for air-to-air heat exchanger

Other information

