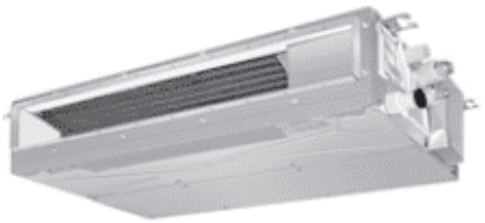
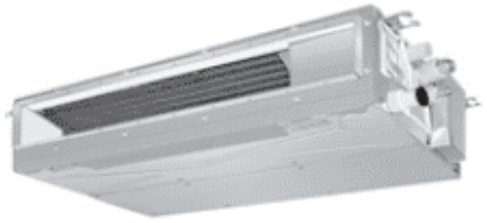
Concealed Duct Type

RAS-M07U2DVG-E
RAS-M10U2DVG-E
RAS-M13U2DVG-E
RAS-M16U2DVG-E
RAS-M22U2DVG-E
RAS-M24U2DVG-E



Contents

1. Specifications



MODEL NAME		RAS-M	07U2DVG-E	10U2DVG-E	13U2DVG-E	16U2DVG-E	22U2DVG-E	24U2DVG-E
Cooling/Heating Capacity (*1)		kW	2.0/2.7	2.7/4.0	3.7/5.0	4.5/5.5	6.0/7.0	7.1/8.1
Electrical characteristics (*2)	Power supply		1 phase 60Hz 220V ; 50Hz 220-240V					
	Running current (A)	220V	0.35	0.35	0.40	0.45	0.49	0.54
		230V	0.34	0.34	0.38	0.43	0.47	0.52
		240V	0.32	0.32	0.36	0.42	0.45	0.49
	Power consumption	kW	0.048	0.048	0.054	0.062	0.069	0.076
	Starting current	A	0.62	0.62	0.69	0.80	0.86	0.94
Appearance			Zinc hot dipping steel plate					
Dimension (*3)	H	mm	210					
	W	mm	700			900	1100	
	D	mm	450					
Total Weight		kg	15			19	22	
Heat exchanger			Finned tube					
Soundproof / Heat-insulating meterial			Polyethlene foam + Polyurethane foam					
External Static Pressure		Pa	4steps(35/45/60/75)					
			35Pa 45Pa 60Pa 75Pa	35Pa 45Pa 60Pa 75Pa	35Pa 45Pa 60Pa 75Pa	35Pa 45Pa 60Pa 75Pa	35Pa 45Pa 60Pa 75Pa	35Pa 45Pa 60Pa 75Pa
Fan unit	Fan		Centrifugal fan (Sirocco fan)					
	Motor output	W	50			94		

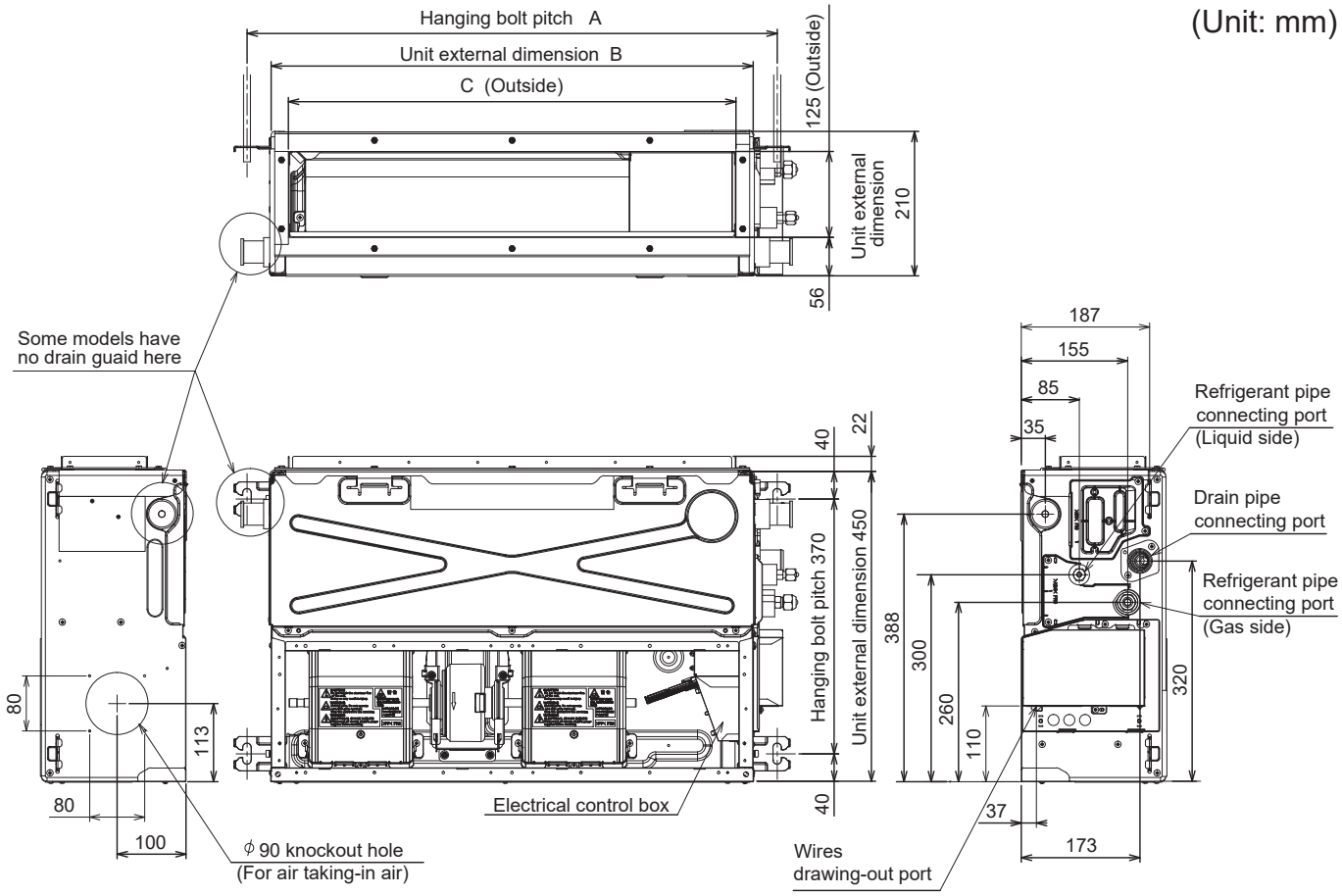
MODEL NAME			RAS-M	07U2DVG-E				10U2DVG-E				13U2DVG-E				16U2DVG-E				22U2DVG-E				24U2DVG-E			
Standard air flow (m^3/h) (*4)		Cooling	High	570				570				610				780				1000				1060			
			Med	475				475				500				590	600	580	580	870				910			
			Low	380				380				385				420				740				760			
		Heating	High	570				570				610				780				1000				1060			
			Med	475				475				500				590	600	580	580	870				910			
			Low	380				380				385				450				740				760			
Sound pressure level (dB(A)) (*5)	Back air intake (*6)	Cooling	High	35	36	37	42	37	42	37	42	37	38	39	42	35	36	37	38	38	38	39	40	39	39	40	40
			Med	31	32	35	39	35	39	35	39	31	32	36	39	29	31	33	35	35	36	37	38	36	37	38	39
			Low	27	28	34	38	34	38	34	38	27	28	34	38	24	25	32	33	32	32	35	36	33	34	35	37
		Heating	High	35	36	37	42	37	42	37	42	37	38	39	42	35	36	37	38	38	38	39	40	39	39	40	40
			Med	31	32	35	39	35	39	35	39	31	32	36	39	29	31	33	35	35	36	37	38	36	37	38	39
			Low	27	28	34	38	34	38	34	38	27	28	34	38	25	26	32	34	32	32	35	36	33	34	35	37
	Under air intake (*7)	Cooling	High	43	44	43	48	43	48	43	48	45	46	46	48	43	44	48	46	45	45	47	48	46	46	48	49
			Med	37	38	42	45	42	45	42	45	38	39	42	45	36	38	44	43	42	42	45	47	42	44	46	47
			Low	32	33	40	43	40	43	40	43	32	33	40	43	29	30	42	41	39	40	43	45	40	41	44	46
		Heating	Med	37	38	42	45	42	45	42	45	38	39	42	45	36	38	44	43	42	42	45	47	42	44	46	47
			Low	32	33	40	43	40	43	40	43	32	33	40	43	30	31	41	42	39	40	43	45	40	41	44	46
(Option)Wired Remote Controller				RB-RWS20-E,RB-RWS21-E																							
Connecting pipe		Gas side	mm	φ9.5												φ12.7											
		Liquid side	mm	φ6.4																							
		Drain port	mm	25 (Polyvinyl chloride tube)																							

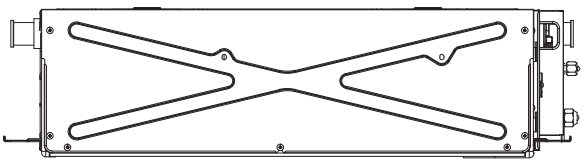
Note
(*1) … Refer to the service manual of the outdoor unit to be combined.
(*2) … Electrical charasteristics in usual use is under FAN ONLY mode HH tap at 35Pa.
(*3) … Unit external dimensions (except hanging hook)
(*4) … Air Flow is under standard external static pressure line at each pressure setting.
(*5) … Sound power level = Sound pressure level +15 [dBA]
(*6) … Measuring condition of sound pressure level with back air intake:
Air discharge duct length= 2m, air suction duct length=1m, positon of sound pressure level measurement is at 1.5m below the product.
(*7) … Measuring condition of sound pressure level with under air intake:
Air discharge duct length= 2m, air suction duct is not attached , positon of sound pressure level measurement is at 1.5m below the product.

2. Dimensions

RAS-M07U2DVG-E, RAS-M10U2DVG-E, RAS-M13U2DVG-E
RAS-M16U2DVG-E, RAS-M22U2DVG-E, RAS-M24U2DVG-E

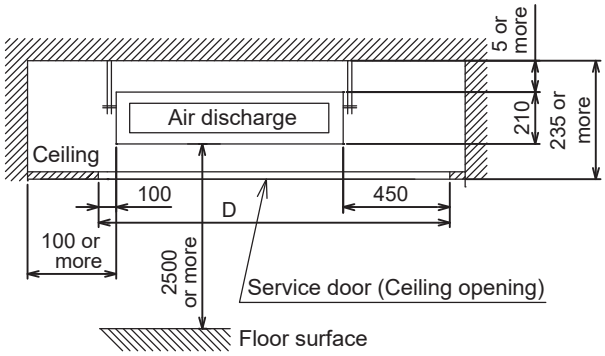
(Unit: mm)

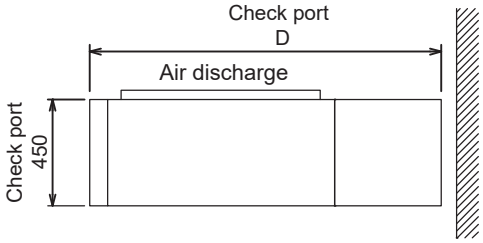




	A	B	C
07, 10, 13 Type	770	700	650
16 Type	970	900	850
22, 24 Type	1170	1100	1050

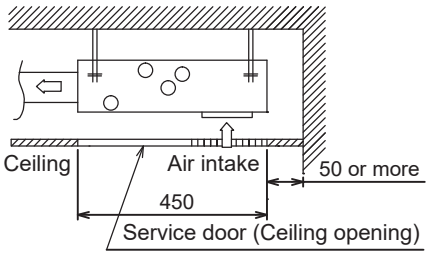
Space required for installation and servicing (Unit: mm)



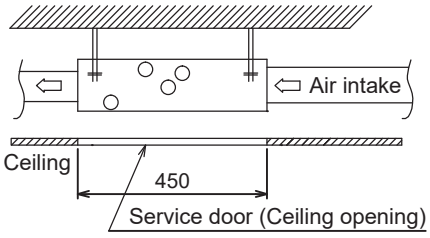


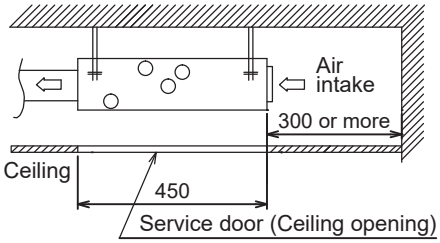
	D
07, 10, 13 Type	1250
16 Type	1450
22, 24 Type	1650

<Under air intake>



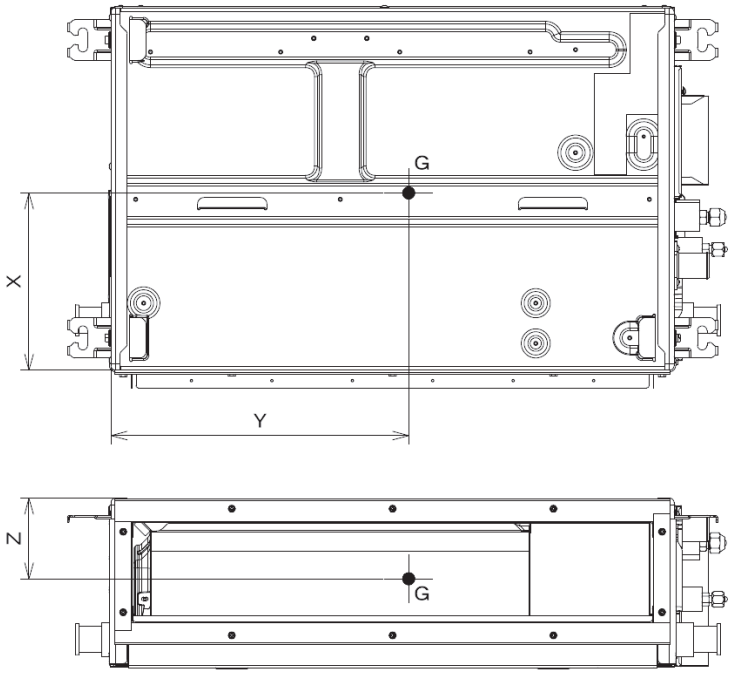
<Back air intake>



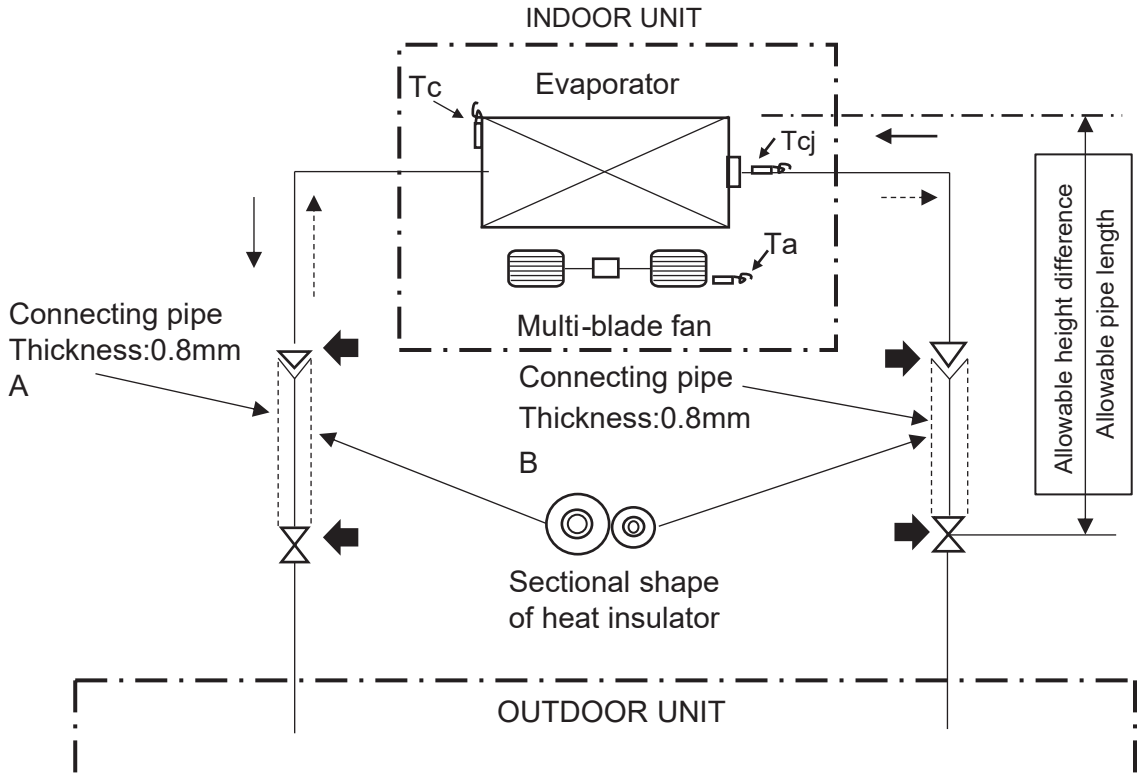


3. Center of gravity

Model name	X (mm)	Y (mm)	Z (mm)	Total weight (kg)
RAS-M07U2DVG-E	220	370	100	15
RAS-M10U2DVG-E				
RAS-M13U2DVG-E				
RAS-M16U2DVG-E	210	465	100	19
RAS-M22U2DVG-E	205	585	100	22
RAS-M24U2DVG-E				



4. Piping diagram



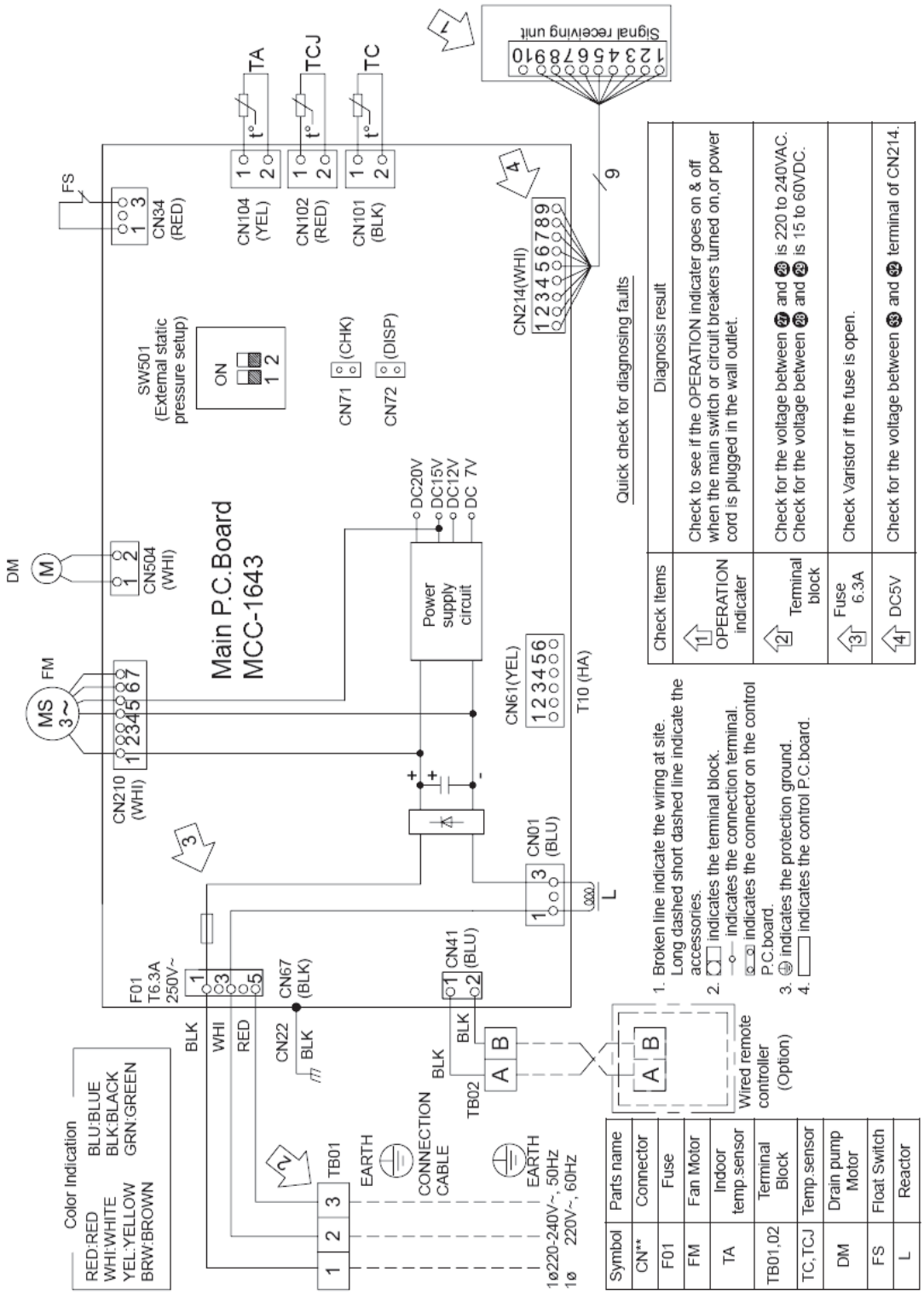
Type	A	B
07,10,13	φ9.52	φ6.35
16	φ12.70	φ6.35
22,24	φ12.70	φ6.35

Note: Gas leak check position
Refrigerant flow (Cooling)
Refrigerant flow (Heating)

· The allowable pipe length,charge amount of refrigerant,and allowable height difference differ according to the outdoor unit to be combined.
For details,refer to the service manual of outdoor unit to be combined.

5. Wiring diagram

RAS-M07U2DVG-E, RAS-M10U2DVG-E, RAS-M13U2DVG-E,
RAS-M16U2DVG-E, RAS-M22U2DVG-E, RAS-M24U2DVG-E



6. Electrical characteristics

1. 50 Hz

Model	Nominal Voltage (V-Ph-Hz)	Voltage Range		Fan Motor		Power Supply	
		Min	Max	kW	FLA	MCA	MOCP
RAS-M07U2DVG-E	230-1-50	198	264	0.050	0.40	0.50	15
RAS-M10U2DVG-E	230-1-50	198	264	0.050	0.44	0.55	15
RAS-M13U2DVG-E	230-1-50	198	264	0.050	0.44	0.55	15
RAS-M16U2DVG-E	230-1-50	198	264	0.095	0.49	0.62	15
RAS-M22U2DVG-E	230-1-50	198	264	0.095	0.51	0.63	15
RAS-M24U2DVG-E	230-1-50	198	264	0.095	0.60	0.75	15

2. 60 Hz

Model	Nominal Voltage (V-Ph-Hz)	Voltage Range		Fan Motor		Power Supply	
		Min	Max	kW	FLA	MCA	MOCP
RAS-M07U2DVG-E	220-1-60	198	242	0.050	0.42	0.52	15
RAS-M10U2DVG-E	220-1-60	198	242	0.050	0.46	0.57	15
RAS-M13U2DVG-E	220-1-60	198	242	0.050	0.46	0.57	15
RAS-M16U2DVG-E	220-1-60	198	242	0.095	0.53	0.66	15
RAS-M22U2DVG-E	220-1-60	198	242	0.095	0.54	0.68	15
RAS-M24U2DVG-E	220-1-60	198	242	0.095	0.62	0.78	15

MCA : Minimum Circuit Amps
MOCP : Maximum Over Current protection (Amps)
FLA : Full Load Amps
kW : Fan motor Rated Output (kW)

7. Sensible capacity table

Concealed Duct Type (RAS-M___U2DVG-E)

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
		20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
07	10.0	1.6	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8	2.3	1.9
	12.0	1.6	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8	2.3	1.9
	14.0	1.6	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8	2.3	1.9
	16.0	1.6	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8	2.3	1.9
	18.0	1.6	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8	2.3	1.9
	20.0	1.6	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8	2.3	1.9
	21.0	1.6	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8	2.3	1.9
	23.0	1.6	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8	2.3	1.9
	25.0	1.6	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8	2.3	1.9
	27.0	1.6	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8	2.3	1.9
	29.0	1.6	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8	2.3	1.9
	31.0	1.6	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8	2.3	1.9
	33.0	1.6	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8	2.3	1.9
	35.0	1.6	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8	2.3	1.9
	37.0	1.6	1.3	1.7	1.4	1.8	1.4	1.8	1.5	1.9	1.5	2.0	1.6	2.0	1.6	2.1	1.7	2.2	1.8
	39.0	1.6	1.3	1.7	1.3	1.7	1.4	1.8	1.5	1.9	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.8
10	10.0	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.2	3.1	2.3
	12.0	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.2	3.1	2.3
	14.0	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.2	3.1	2.3
	16.0	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.2	3.1	2.3
	18.0	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.2	3.1	2.3
	20.0	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.2	3.1	2.3
	21.0	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.2	3.1	2.3
	23.0	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.2	3.1	2.3
	25.0	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.2	3.1	2.3
	27.0	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.2	3.1	2.3
	29.0	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.2	3.1	2.3
	31.0	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.2	3.1	2.3
	33.0	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.2	3.1	2.3
	35.0	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.2	3.1	2.3
	37.0	2.2	1.6	2.3	1.7	2.4	1.8	2.5	1.9	2.6	1.9	2.6	2.0	2.7	2.0	2.9	2.2	3.0	2.3
	39.0	2.1	1.6	2.2	1.7	2.4	1.8	2.4	1.8	2.5	1.9	2.6	1.9	2.7	2.0	2.8	2.1	3.0	2.2
13	10.0	3.0	2.1	3.2	2.2	3.4	2.3	3.5	2.4	3.6	2.5	3.7	2.6	3.8	2.6	4.0	2.8	4.2	2.9
	12.0	3.0	2.1	3.2	2.2	3.4	2.3	3.5	2.4	3.6	2.5	3.7	2.6	3.8	2.6	4.0	2.8	4.2	2.9
	14.0	3.0	2.1	3.2	2.2	3.4	2.3	3.5	2.4	3.6	2.5	3.7	2.6	3.8	2.6	4.0	2.8	4.2	2.9
	16.0	3.0	2.1	3.2	2.2	3.4	2.3	3.5	2.4	3.6	2.5	3.7	2.6	3.8	2.6	4.0	2.8	4.2	2.9
	18.0	3.0	2.1	3.2	2.2	3.4	2.3	3.5	2.4	3.6	2.5	3.7	2.6	3.8	2.6	4.0	2.8	4.2	2.9
	20.0	3.0	2.1	3.2	2.2	3.4	2.3	3.5	2.4	3.6	2.5	3.7	2.6	3.8	2.6	4.0	2.8	4.2	2.9
	21.0	3.0	2.1	3.2	2.2	3.4	2.3	3.5	2.4	3.6	2.5	3.7	2.6	3.8	2.6	4.0	2.8	4.2	2.9
	23.0	3.0	2.1	3.2	2.2	3.4	2.3	3.5	2.4	3.6	2.5	3.7	2.6	3.8	2.6	4.0	2.8	4.2	2.9
	25.0	3.0	2.1	3.2	2.2	3.4	2.3	3.5	2.4	3.6	2.5	3.7	2.6	3.8	2.6	4.0	2.8	4.2	2.9
	27.0	3.0	2.1	3.2	2.2	3.4	2.3	3.5	2.4	3.6	2.5	3.7	2.6	3.8	2.6	4.0	2.8	4.2	2.9
	29.0	3.0	2.1	3.2	2.2	3.4	2.3	3.5	2.4	3.6	2.5	3.7	2.6	3.8	2.6	4.0	2.8	4.2	2.9
	31.0	3.0	2.1	3.2	2.2	3.4	2.3	3.5	2.4	3.6	2.5	3.7	2.6	3.8	2.6	4.0	2.8	4.2	2.9
	33.0	3.0	2.1	3.2	2.2	3.4	2.3	3.5	2.4	3.6	2.5	3.7	2.6	3.8	2.6	4.0	2.8	4.2	2.9
	35.0	3.0	2.1	3.2	2.2	3.4	2.3	3.5	2.4	3.6	2.5	3.7	2.6	3.8	2.6	4.0	2.8	4.2	2.9
	37.0	3.0	2.1	3.1	2.2	3.3	2.3	3.4	2.4	3.5	2.4	3.6	2.5	3.7	2.6	4.0	2.7	4.1	2.9
	39.0	2.9	2.0	3.1	2.1	3.2	2.2	3.3	2.3	3.5	2.4	3.6	2.5	3.7	2.5	3.9	2.7	4.1	2.8

TC : Total Capacity [kW]
SHC : Sensible Heat Capacity [kW]

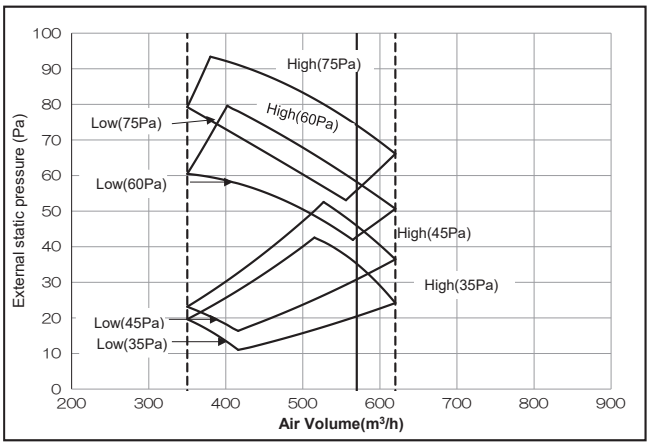
Concealed Duct Type (RAS-M___U2DVG-E)

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
		20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
16	10.0	3.7	2.6	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.6
	12.0	3.7	2.6	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.6
	14.0	3.7	2.6	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.6
	16.0	3.7	2.6	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.6
	18.0	3.7	2.6	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.6
	20.0	3.7	2.6	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.6
	21.0	3.7	2.6	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.6
	23.0	3.7	2.6	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.6
	25.0	3.7	2.6	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.6
	27.0	3.7	2.6	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.6
	29.0	3.7	2.6	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.6
	31.0	3.7	2.6	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.6
	33.0	3.7	2.6	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.6
	35.0	3.7	2.6	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.6
	37.0	3.6	2.6	3.8	2.7	4.0	2.8	4.1	2.9	4.3	3.0	4.4	3.1	4.5	3.2	4.8	3.4	5.0	3.6
	39.0	3.6	2.5	3.7	2.7	3.9	2.8	4.1	2.9	4.2	3.0	4.3	3.1	4.4	3.2	4.7	3.3	4.9	3.5
22	10.0	4.9	3.4	5.2	3.6	5.4	3.7	5.6	3.9	5.8	4.0	6.0	4.1	6.2	4.2	6.5	4.5	6.8	4.7
	12.0	4.9	3.4	5.2	3.6	5.4	3.7	5.6	3.9	5.8	4.0	6.0	4.1	6.2	4.2	6.5	4.5	6.8	4.7
	14.0	4.9	3.4	5.2	3.6	5.4	3.7	5.6	3.9	5.8	4.0	6.0	4.1	6.2	4.2	6.5	4.5	6.8	4.7
	16.0	4.9	3.4	5.2	3.6	5.4	3.7	5.6	3.9	5.8	4.0	6.0	4.1	6.2	4.2	6.5	4.5	6.8	4.7
	18.0	4.9	3.4	5.2	3.6	5.4	3.7	5.6	3.9	5.8	4.0	6.0	4.1	6.2	4.2	6.5	4.5	6.8	4.7
	20.0	4.9	3.4	5.2	3.6	5.4	3.7	5.6	3.9	5.8	4.0	6.0	4.1	6.2	4.2	6.5	4.5	6.8	4.7
	21.0	4.9	3.4	5.2	3.6	5.4	3.7	5.6	3.9	5.8	4.0	6.0	4.1	6.2	4.2	6.5	4.5	6.8	4.7
	23.0	4.9	3.4	5.2	3.6	5.4	3.7	5.6	3.9	5.8	4.0	6.0	4.1	6.2	4.2	6.5	4.5	6.8	4.7
	25.0	4.9	3.4	5.2	3.6	5.4	3.7	5.6	3.9	5.8	4.0	6.0	4.1	6.2	4.2	6.5	4.5	6.8	4.7
	27.0	4.9	3.4	5.2	3.6	5.4	3.7	5.6	3.9	5.8	4.0	6.0	4.1	6.2	4.2	6.5	4.5	6.8	4.7
	29.0	4.9	3.4	5.2	3.6	5.4	3.7	5.6	3.9	5.8	4.0	6.0	4.1	6.2	4.2	6.5	4.5	6.8	4.7
	31.0	4.9	3.4	5.2	3.6	5.4	3.7	5.6	3.9	5.8	4.0	6.0	4.1	6.2	4.2	6.5	4.5	6.8	4.7
	33.0	4.9	3.4	5.2	3.6	5.4	3.7	5.6	3.9	5.8	4.0	6.0	4.1	6.2	4.2	6.5	4.5	6.8	4.7
	35.0	4.9	3.4	5.2	3.6	5.4	3.7	5.6	3.9	5.8	4.0	6.0	4.1	6.2	4.2	6.5	4.5	6.8	4.7
	37.0	4.8	3.3	5.1	3.5	5.3	3.7	5.5	3.8	5.7	3.9	5.9	4.0	6.1	4.1	6.4	4.4	6.7	4.6
	39.0	4.7	3.2	5.0	3.4	5.2	3.6	5.4	3.7	5.6	3.8	5.8	3.9	5.9	4.1	6.3	4.3	6.6	4.5
24	10.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.5	6.9	4.7	7.1	4.8	7.3	5.0	7.7	5.2	8.1	5.5
	12.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.5	6.9	4.7	7.1	4.8	7.3	5.0	7.7	5.2	8.1	5.5
	14.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.5	6.9	4.7	7.1	4.8	7.3	5.0	7.7	5.2	8.1	5.5
	16.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.5	6.9	4.7	7.1	4.8	7.3	5.0	7.7	5.2	8.1	5.5
	18.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.5	6.9	4.7	7.1	4.8	7.3	5.0	7.7	5.2	8.1	5.5
	20.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.5	6.9	4.7	7.1	4.8	7.3	5.0	7.7	5.2	8.1	5.5
	21.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.5	6.9	4.7	7.1	4.8	7.3	5.0	7.7	5.2	8.1	5.5
	23.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.5	6.9	4.7	7.1	4.8	7.3	5.0	7.7	5.2	8.1	5.5
	25.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.5	6.9	4.7	7.1	4.8	7.3	5.0	7.7	5.2	8.1	5.5
	27.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.5	6.9	4.7	7.1	4.8	7.3	5.0	7.7	5.2	8.1	5.5
	29.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.5	6.9	4.7	7.1	4.8	7.3	5.0	7.7	5.2	8.1	5.5
	31.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.5	6.9	4.7	7.1	4.8	7.3	5.0	7.7	5.2	8.1	5.5
	33.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.5	6.9	4.7	7.1	4.8	7.3	5.0	7.7	5.2	8.1	5.5
	35.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.5	6.9	4.7	7.1	4.8	7.3	5.0	7.7	5.2	8.1	5.5
	37.0	5.7	3.9	6.0	4.1	6.3	4.3	6.5	4.4	6.8	4.6	7.0	4.7	7.2	4.9	7.6	5.1	7.9	5.4
	39.0	5.6	3.8	5.9	4.0	6.2	4.2	6.4	4.3	6.6	4.5	6.8	4.6	7.0	4.8	7.4	5.0	7.8	5.3

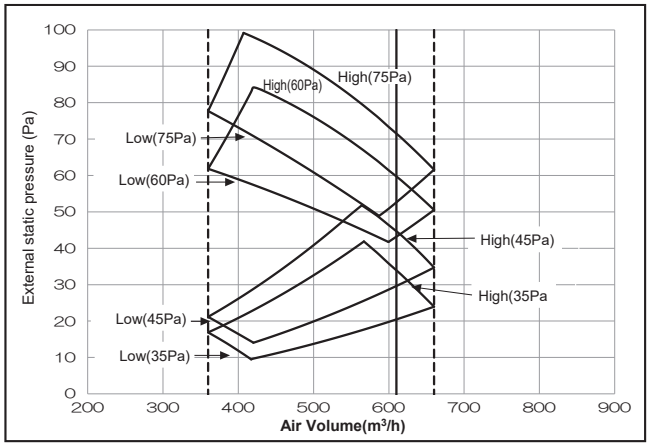
TC : Total Capacity [kW]
SHC : Sensible Heat Capacity [kW]

8. Fan characteristics

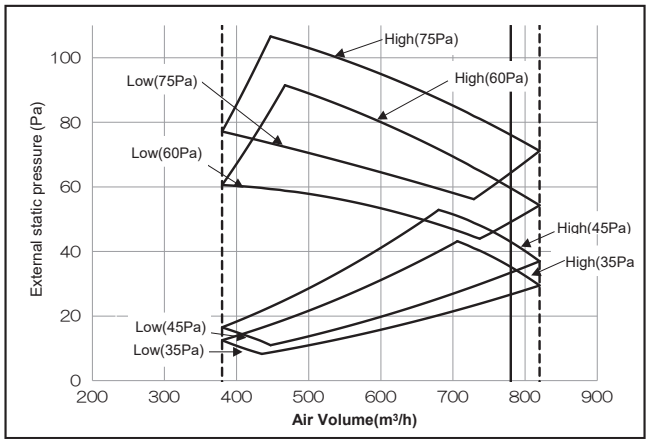
RAS-M07U2DVG-E
RAS-M10U2DVG-E



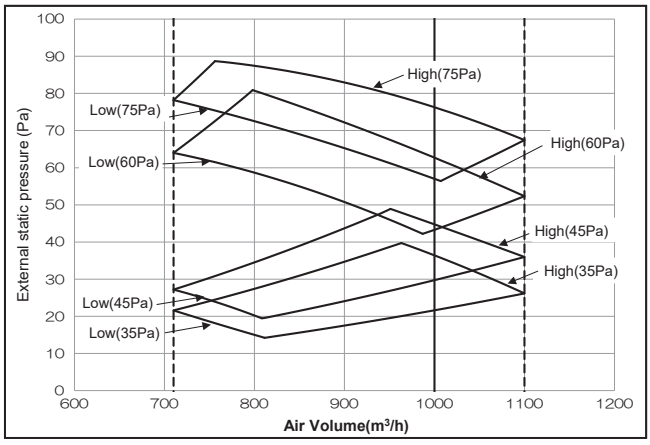
RAS-M13U2DVG-E



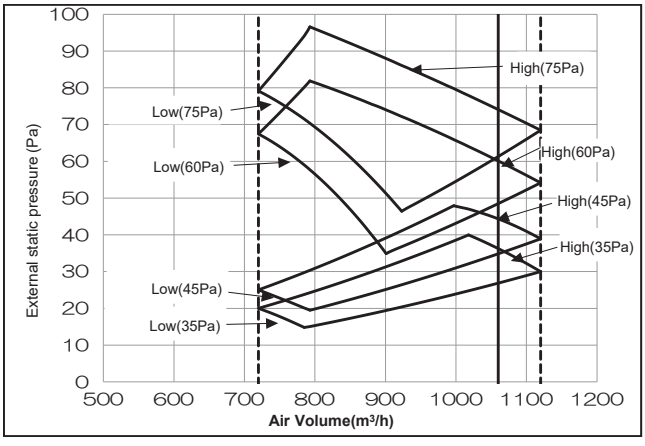
RAS-M16U2DVG-E



RAS-M22U2DVG-E



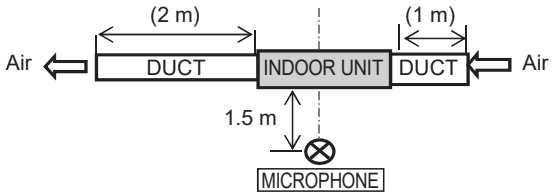
RAS-M24U2DVG-E



9. Sound data

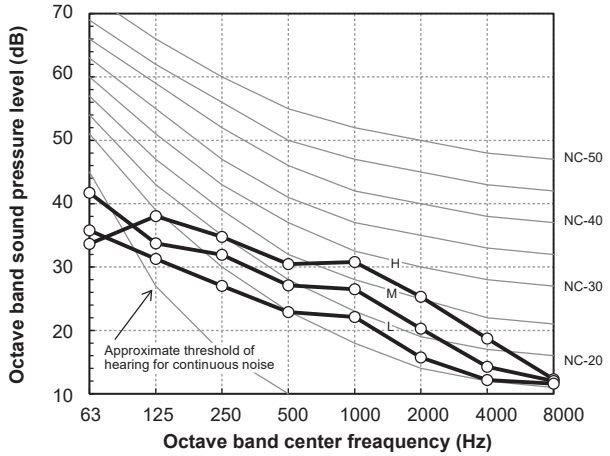
RAS-M07U2DVG-E
RAS-M10U2DVG-E

Measuring location
Rear air intake



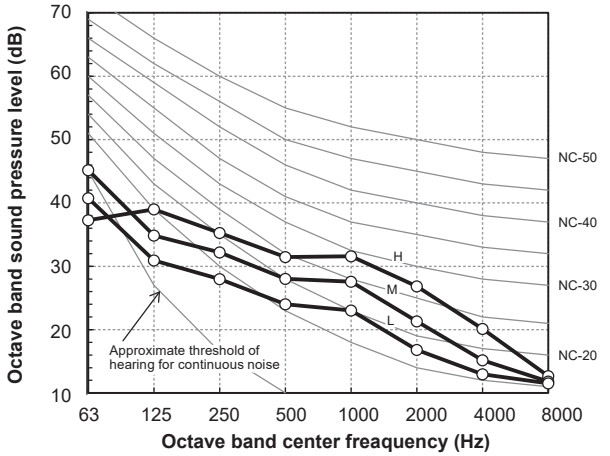
Extarnal static pressure 35 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	35	31	27



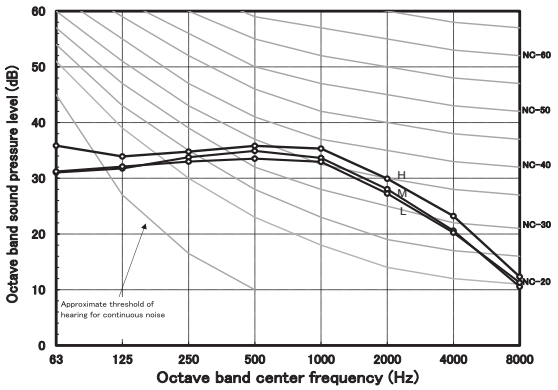
Extarnal static pressure 45 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	36	32	28



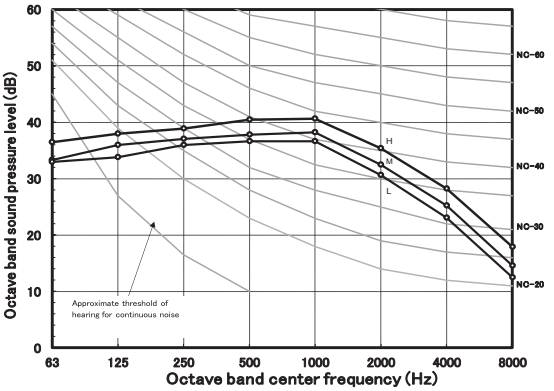
Extarnal static pressure 60 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	37	35	34



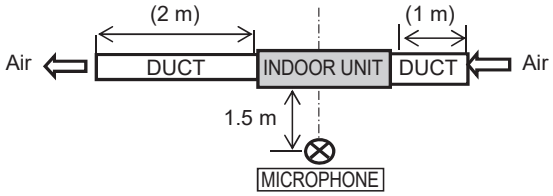
Extarnal static pressure 75 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	42	39	38



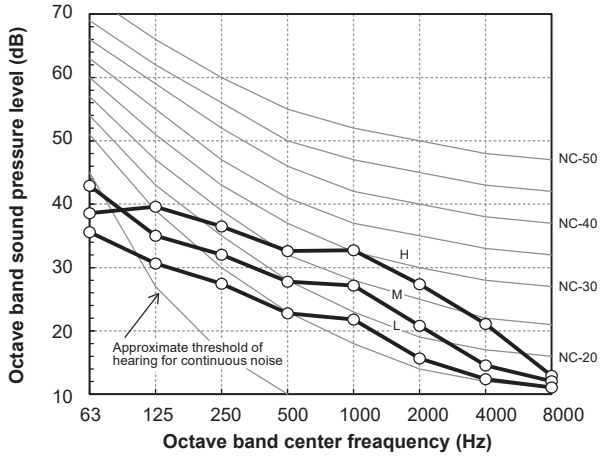
RAS-M13U2DVG-E

Measuring location
Rear air intake



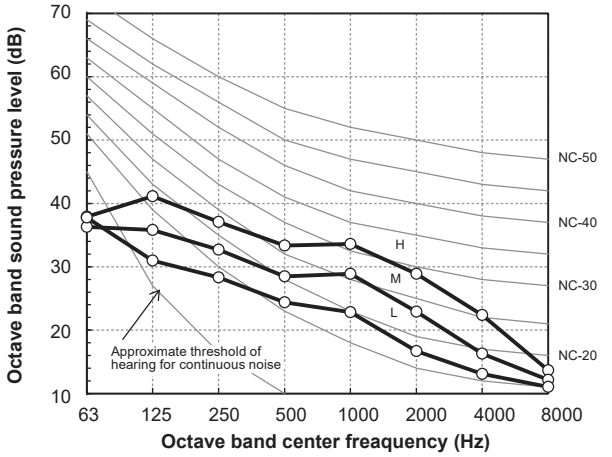
Extarnal static pressure 35 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	37	31	27



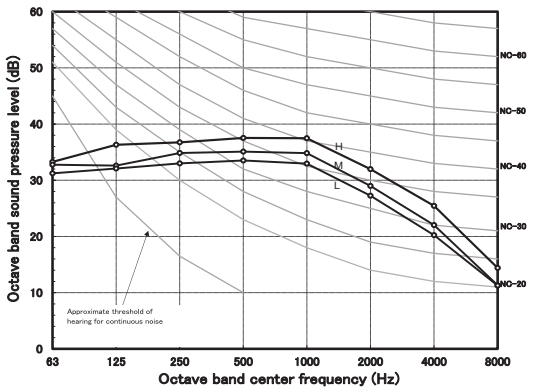
Extarnal static pressure 45 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	38	32	28



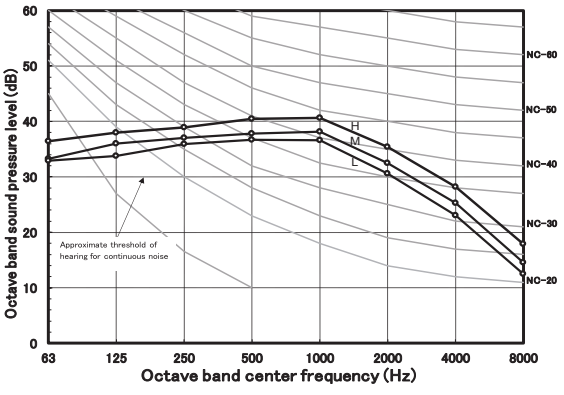
Extarnal static pressure 60 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	39	36	34



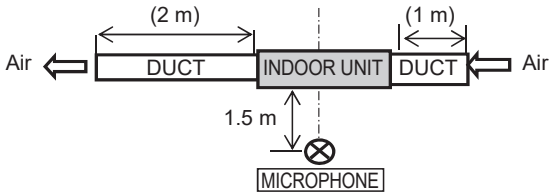
Extarnal static pressure 75 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	42	39	38



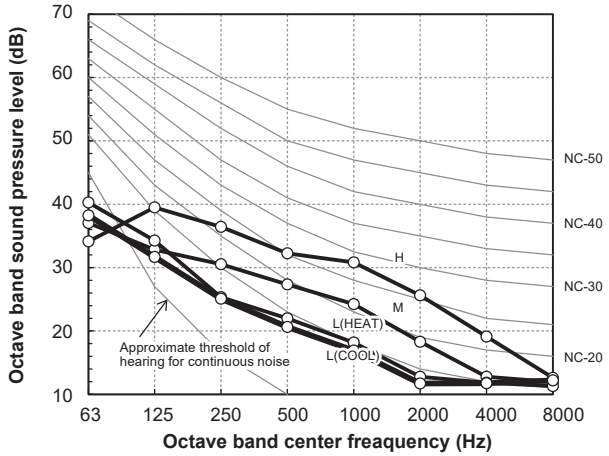
RAS-M16U2DVG-E

Measuring location
Rear air intake



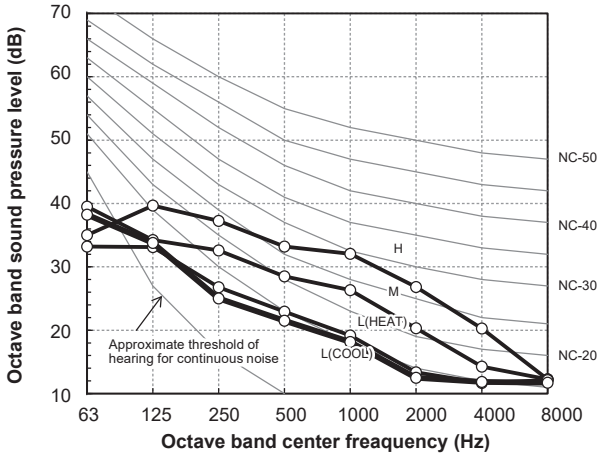
Extarnal static pressure 35 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	35	29	(COOL)24 (MEAT)25



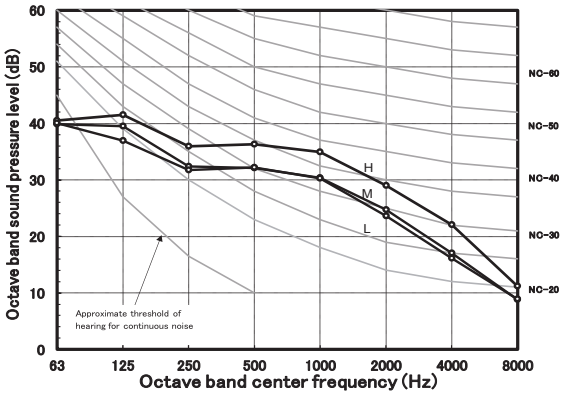
Extarnal static pressure 45 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	36	31	(COOL)25 (MEAT)26



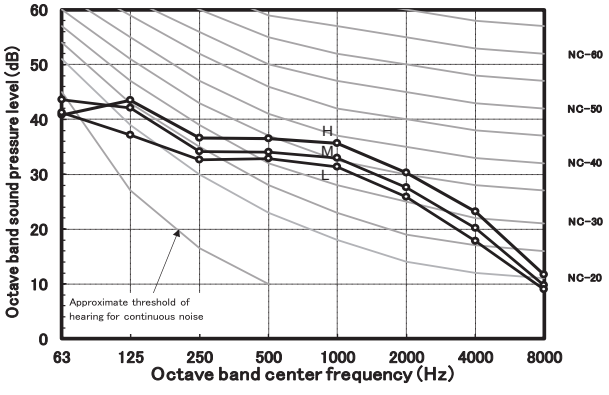
Extarnal static pressure 60 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	37	33	32



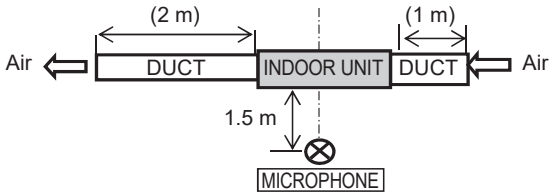
Extarnal static pressure 75 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	38	35	33



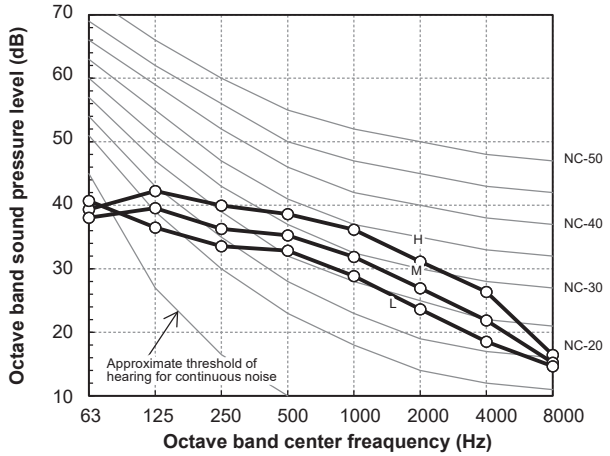
RAS-M22U2DVG-E

Measuring location
Rear air intake



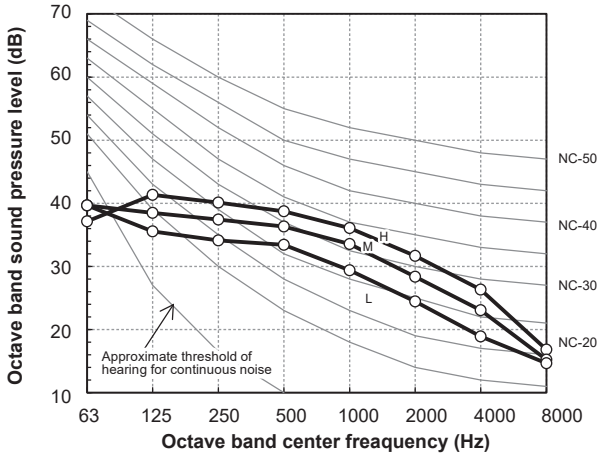
Extarnal static pressure 35 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	38	35	32



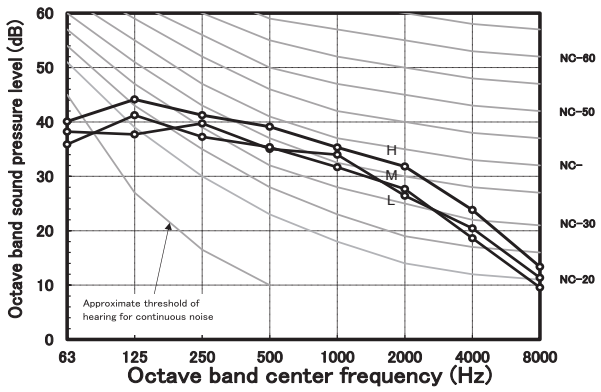
Extarnal static pressure 45 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	38	36	32



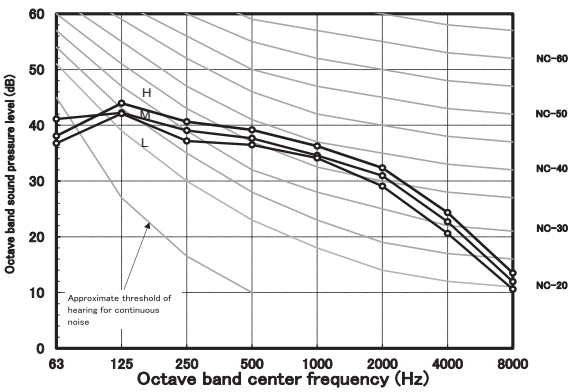
Extarnal static pressure 60 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	39	37	35



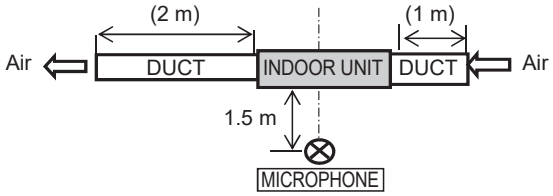
Extarnal static pressure 75 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	40	38	36



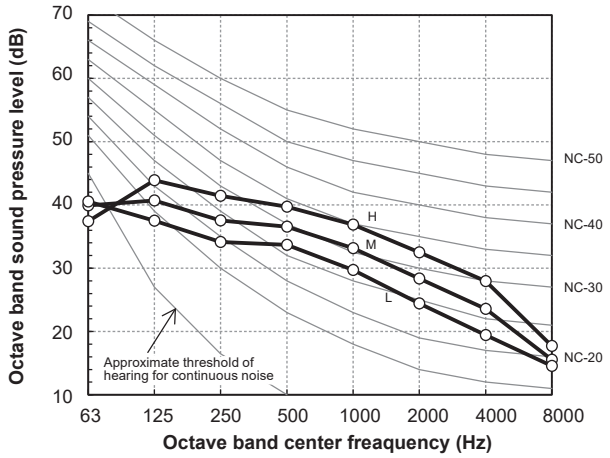
RAS-M24U2DVG-E

Measuring location
Rear air intake



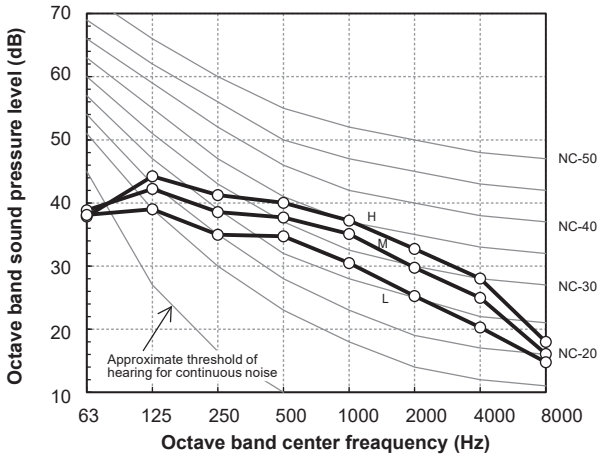
Extarnal static pressure 35 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	39	36	33



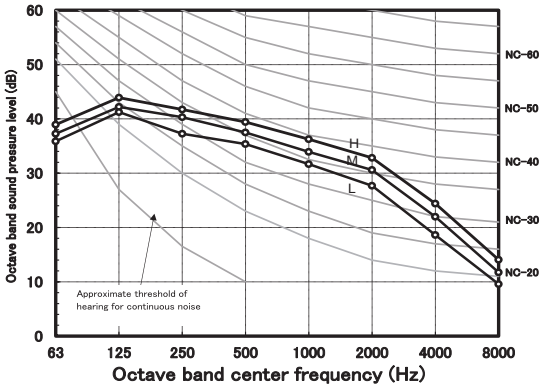
Extarnal static pressure 45 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	39	37	34



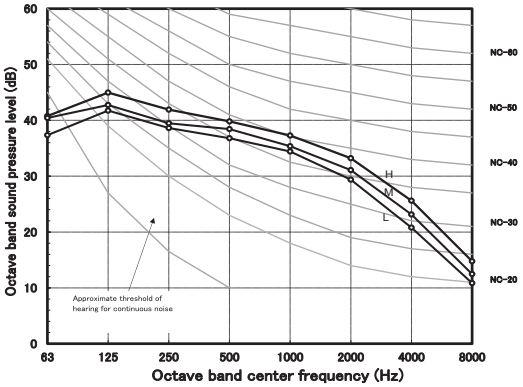
Extarnal static pressure 60 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	40	38	35



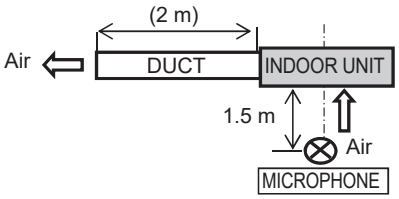
Extarnal static pressure 75 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	40	39	37



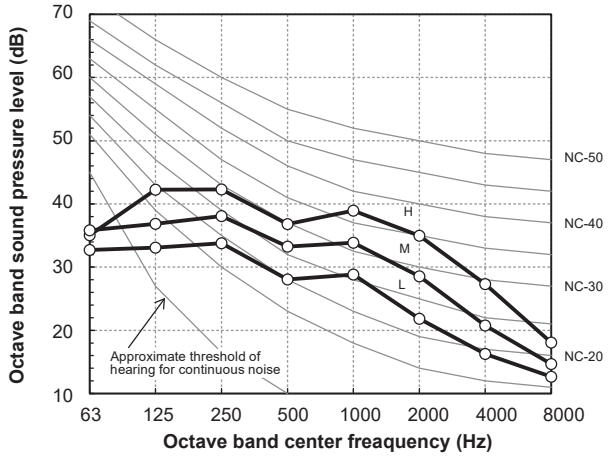
RAS-M07U2DVG-E
RAS-M10U2DVG-E

Measuring location
Under air intake



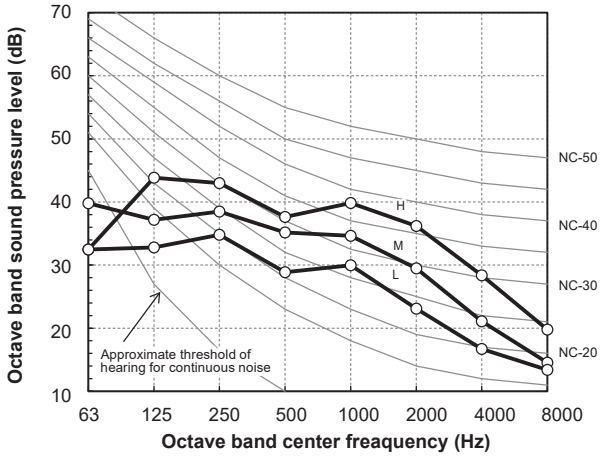
Extarnal static pressure 35 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	43	37	32



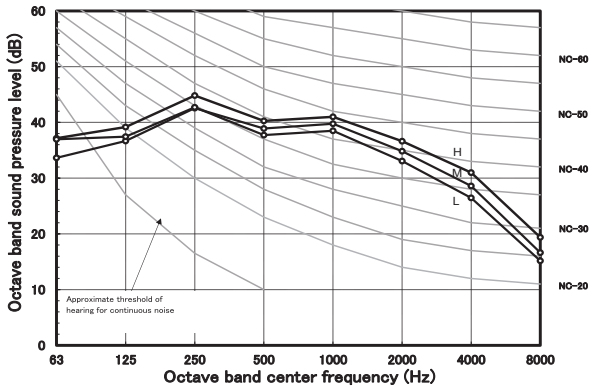
Extarnal static pressure 45 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	44	38	33



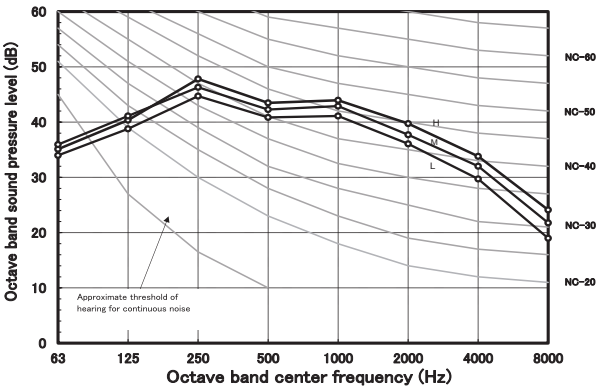
Extarnal static pressure 60 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	43	42	40



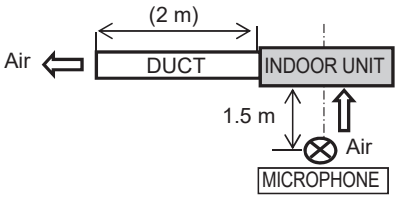
Extarnal static pressure 75 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	48	45	43



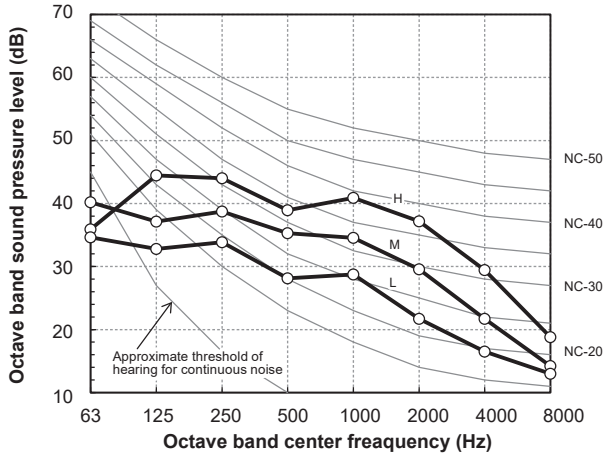
RAS-M13U2DVG-E

Measuring location
Under air intake



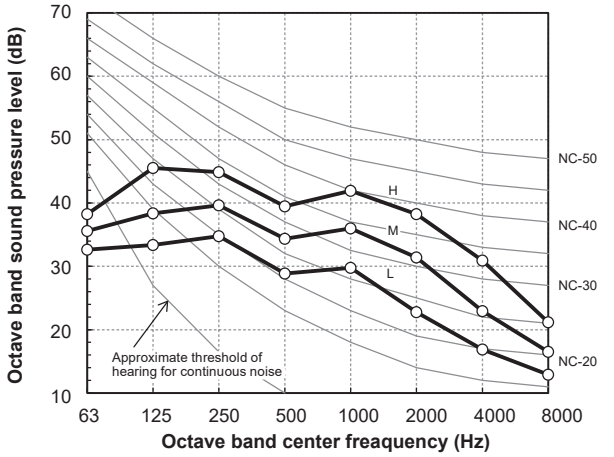
Extarnal static pressure 35 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	45	38	32



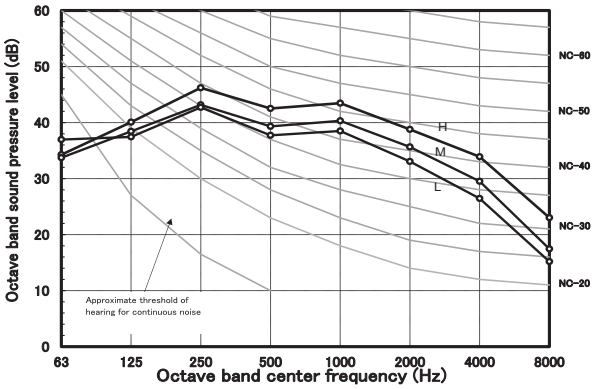
Extarnal static pressure 45 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	46	39	33



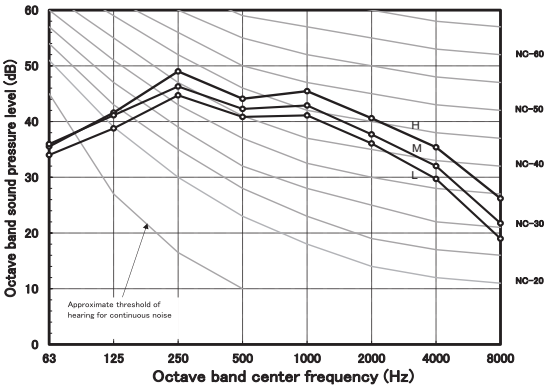
Extarnal static pressure 60 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	46	42	40



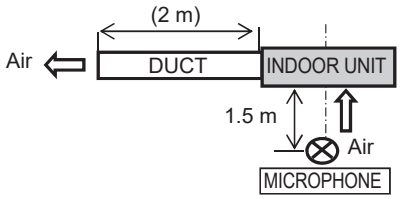
Extarnal static pressure 75 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	48	45	43



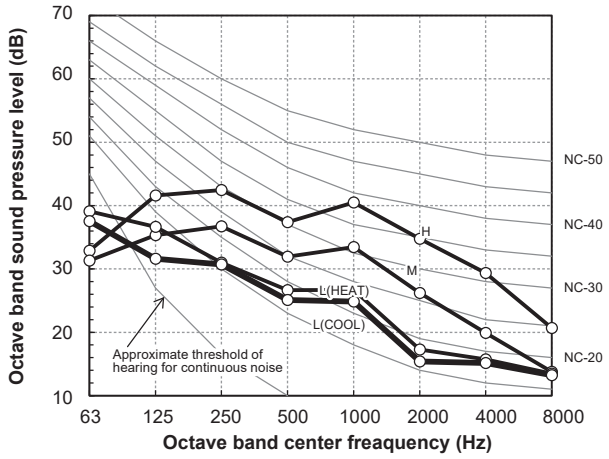
RAS-M16U2DVG-E

Measuring location
Under air intake



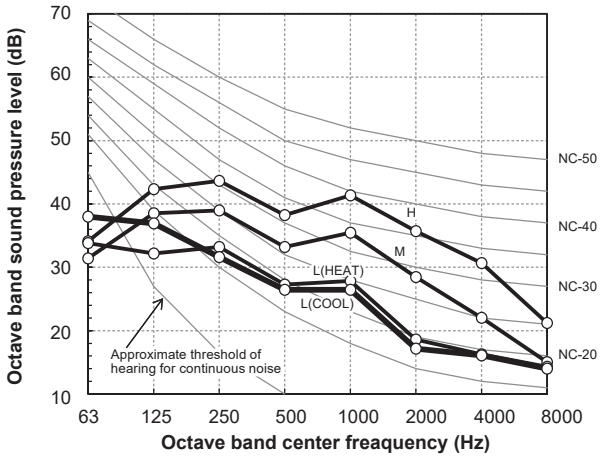
Extarnal static pressure 35 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	43	36	(COOL)29 (MEAT)30



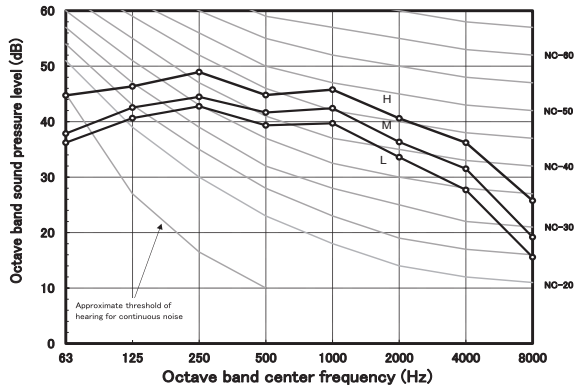
Extarnal static pressure 45 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	44	38	(COOL)30 (MEAT)31



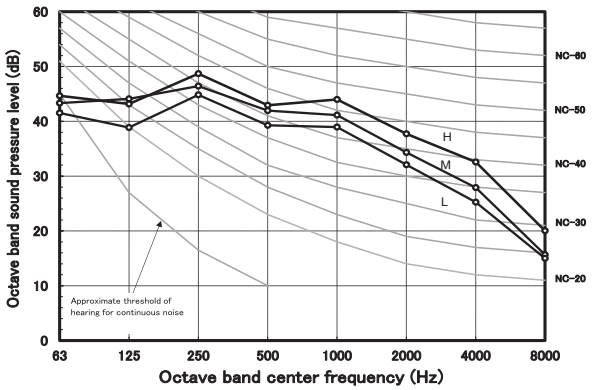
Extarnal static pressure 60 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	48	44	42



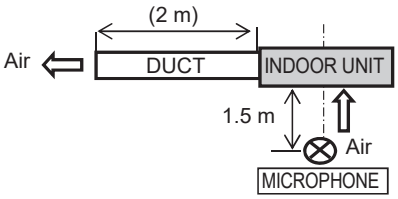
Extarnal static pressure 75 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	46	43	41



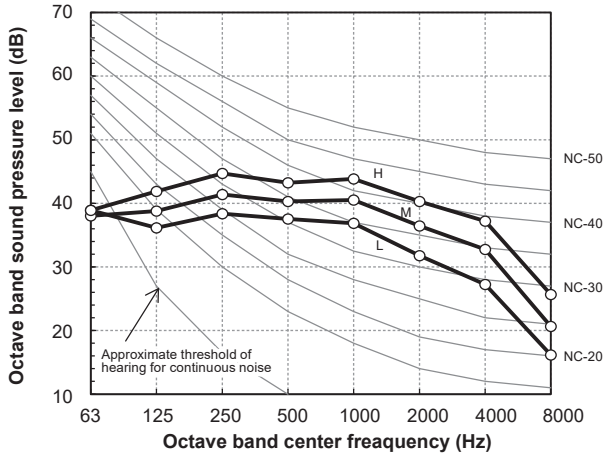
RAS-M22U2DVG-E

Measuring location
Under air intake



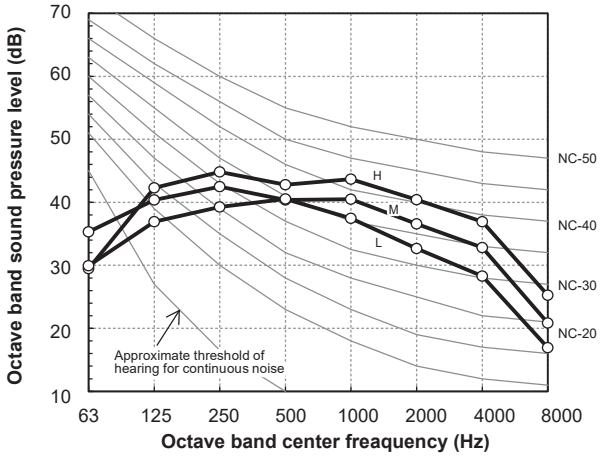
Extarnal static pressure 35 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	45	42	39



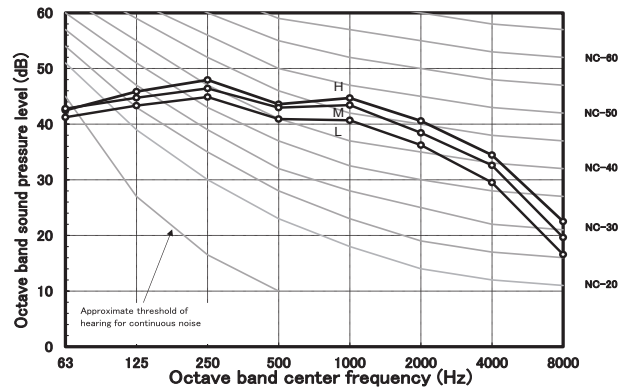
Extarnal static pressure 45 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	45	42	40



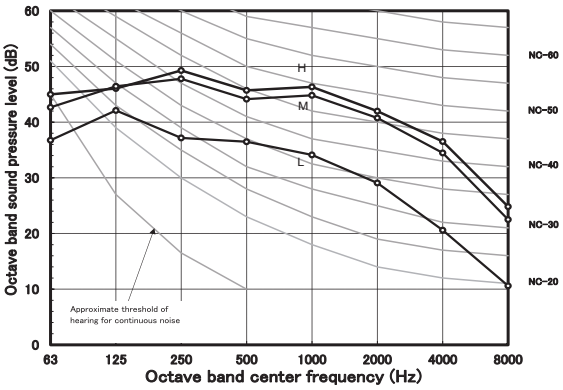
Extarnal static pressure 60 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	47	45	43



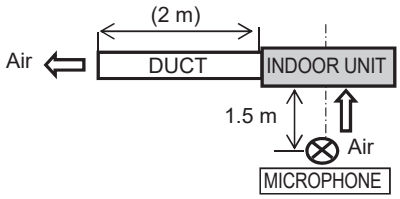
Extarnal static pressure 75 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	48	47	45



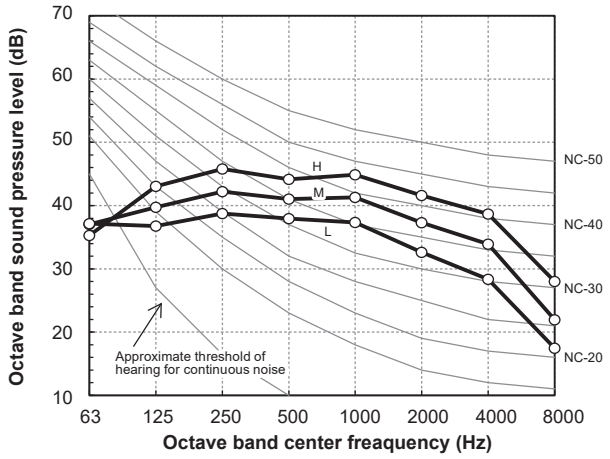
RAS-M24U2DVG-E

Measuring location
Under air intake



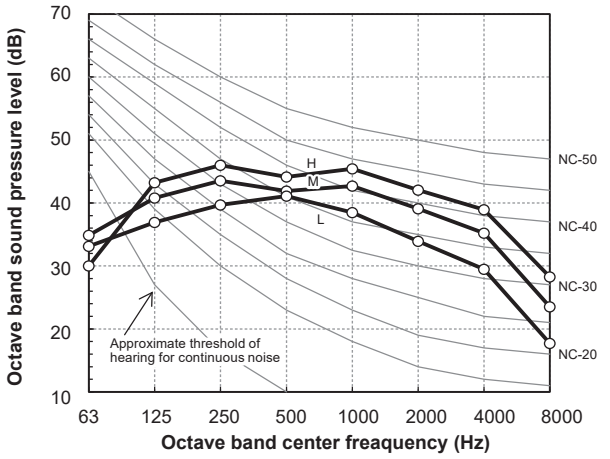
Extarnal static pressure 35 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	46	42	40



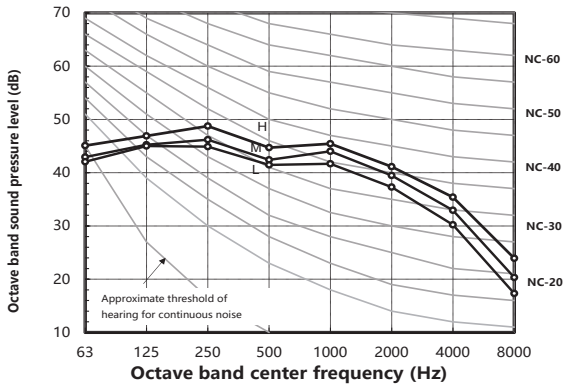
Extarnal static pressure 45 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	46	44	41



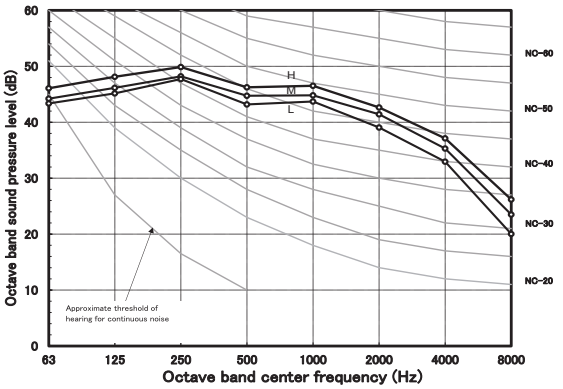
Extarnal static pressure 60 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	48	46	44



Extarnal static pressure 75 Pa

Fan tap	H	M	L
Sound pressure level (dB(A))	49	47	46



Concealed Duct Type Engineering Data Book

Model name:

RAS-M___U2DVG-E

Aug, 2024 First Edition

Carrier HVAC Equipment (Hangzhou) Co., Ltd.