

Compact 4-way Cassette Type

RAS-M10U2MUVG-E

RAS-M13U2MUVG-E

RAS-M16U2MUVG-E



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1. Specifications



Model Name			RAS-M10U2MUVG-E			RAS-M13U2MUVG-E			RAS-M16U2MUVG-E		
			RAS-M10U2MUVG-TR			RAS-M13U2MUVG-TR			RAS-M16U2MUVG-TR		
Cooling capacity (Rated) [kW]			2.0			3.7			4.5		
Cooling Capacity range [kW]			*1			*1			*1		
Heating Capacity (Rated) [kW]			2.7			5.0			5.5		
Heating Capacity range [kW]			*1			*1			*1		
Power supply			1Phase, 50Hz, 220-240V / 1Phase, 60Hz, 220V								
Electric characteristics in usual use *2	Voltage [V]		220	230	240	220	230	240	220	230	240
	Running current [A]		0.22	0.21	0.20	0.24	0.23	0.22	0.26	0.25	0.24
	Power Consumption [W]		24			26			29		
	Power Factor [%]		50			50			50		
Electric characteristics in NP *3	Maximum current [A]		0.22			0.24			0.40		
	Maximum power input [W]		24			26			44		
Air flow [m³/h]	Cooling	HH	590			620			660		
		H+	550			550			620		
		H	495			520			570		
		L+	465			490			525		
		L	435			485			485		
	Heating	HH	590			620			660		
		H+	565			565			620		
		H	495			520			570		
		L+	465			490			525		
		L	435			485			485		
Sound pressure level [dBA]	Cooling	HH	37			39			41		
		H+	36			37			39		
		H	33			35			37		
		L+	32			34			35		
		L	30			33			33		
	Heating	HH	37			39			41		
		H+	36			37			39		
		H	33			34			37		
		L+	32			33			35		
		L	30			32			32		
Sound power level [dBA]	Cooling	HH	52			54			56		
		H+	51			52			54		
		H	48			50			52		
		L+	47			49			50		
		L	45			48			48		
	Heating	HH	52			54			56		
		H+	51			52			54		
		H	48			49			52		
		L+	47			48			50		
		L	45			47			47		

Model Name		RAS-M10U2MUVG-E	RAS-M13U2MUVG-E	RAS-M16U2MUVG-E
		RAS-M10U2MUVG-TR	RAS-M13U2MUVG-TR	RAS-M16U2MUVG-TR
Fan Unit	Fan	Turbo fan		
	Motor Output [W]	60		
Dimensions *4	Height [mm]	256		
	Width [mm]	575		
	Depth [mm]	575		
Net weight [kg]		15		
Piping connection	Type	Flare connection		
	Liquid side [mm]	Φ6.35		
	Gas side [mm]	Φ9.52	Φ12.7	
	Drain port	VP20 (Polyvinyl chloride tube)		
Air filter		Standard filter (Long life filter)		
Usable indoor temperature range (Cooling / Heating)		21~32°C / 0~28°C		
Manufacturer	Name	Toshiba Carrier Co.,Ltd.		
	Address, city, country	Building 1, No.60, 21st Avenue, Baiyang Street, Hangzhou Economic and Technological Development Area, China		
Connecting cable		More than H07RN-F or 60245 IEC66 (1.5 mm ² or more)		
(Option) Ceiling panel		RBC-UM21PG(W)-E		
(Option) Wireless remote controller kit		RBC-AX32UM(W)-E		
(Option) Wired remote controller		RB-RWS21-E		
(Option) Occupancy sensor		TCB-SIR41UM-E		
Conformity Standards	-E	IEC • EN, CE Mark, LVD • EMC Certification, RoHS, WEEE, ErP, AS/NZS, RCM Mark		
	-TR	IEC • EN, CE Mark, LVD • EMC Certification, RoHS, WEEE, ErP		

*1 Refer to the service manual of the outdoor unit to be combined.

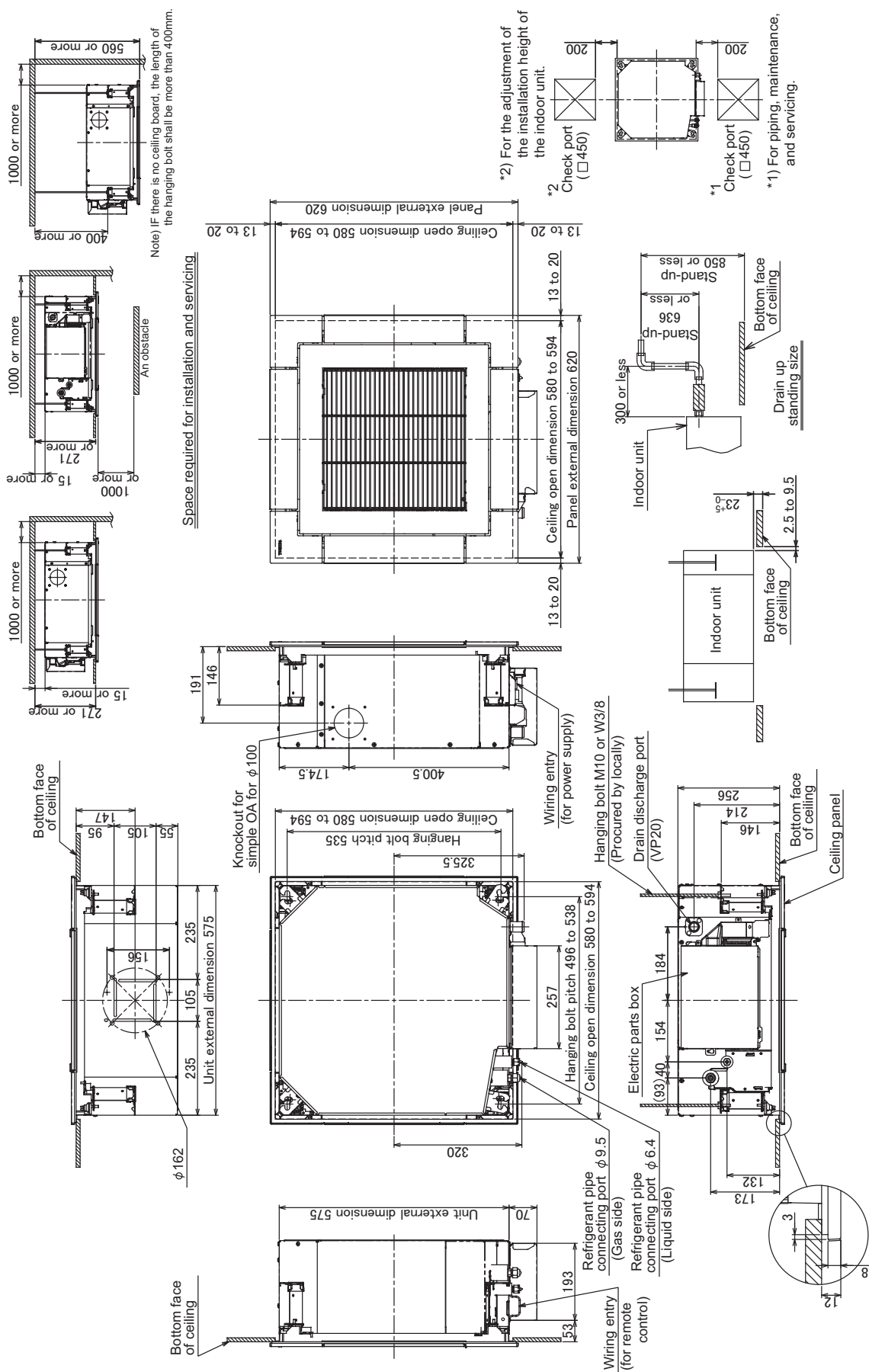
*2 Electrical characteristics in usual use is under FAN ONLY mode HH tap.

*3 Electrical characteristics in NP is under maximum load condition.

*4 Unit external dimensions (except hanging hook)

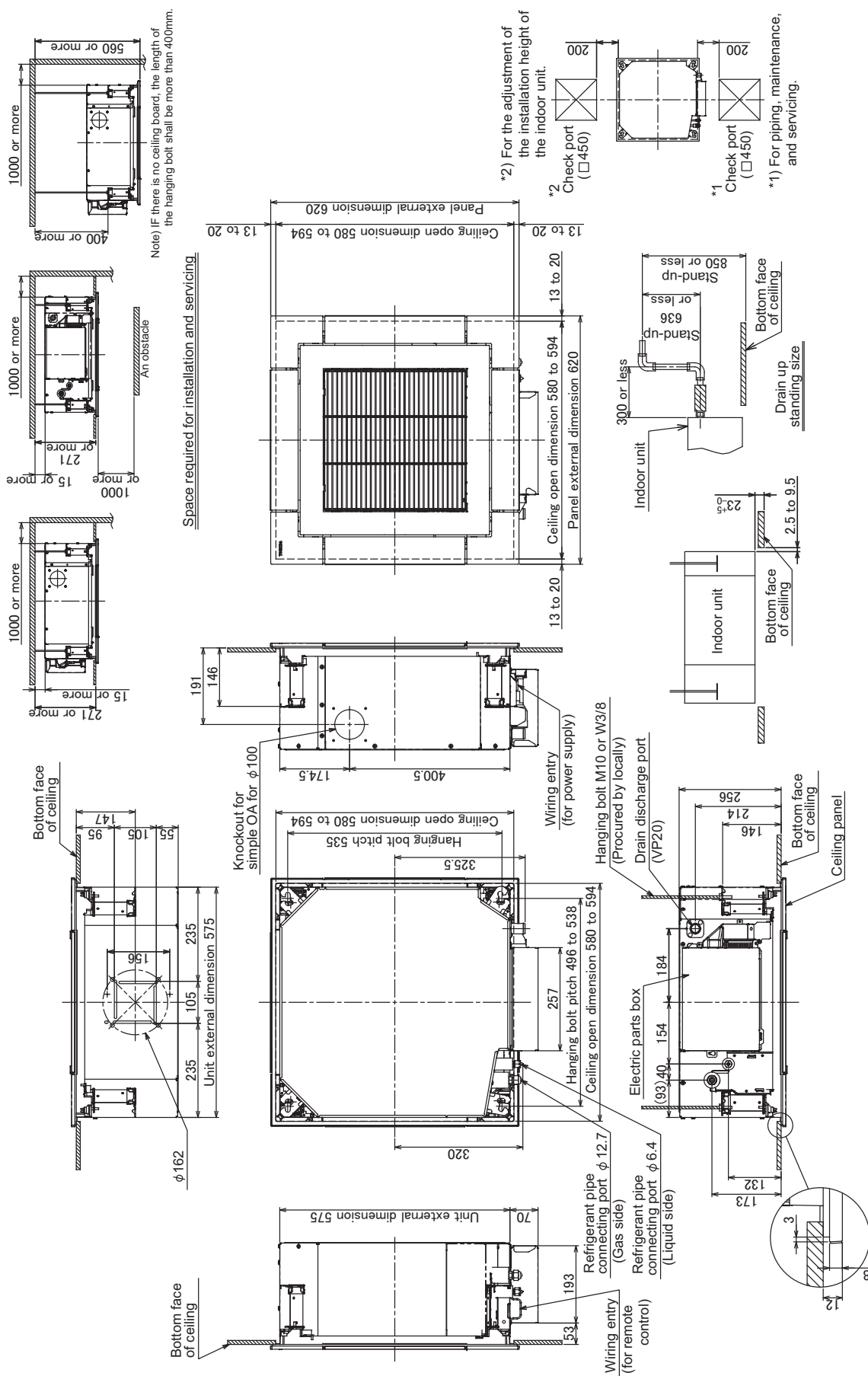
2. Dimensions

RAS-M10U2MUVG-E, RAS-M13U2MUVG-E



(Unit: mm)

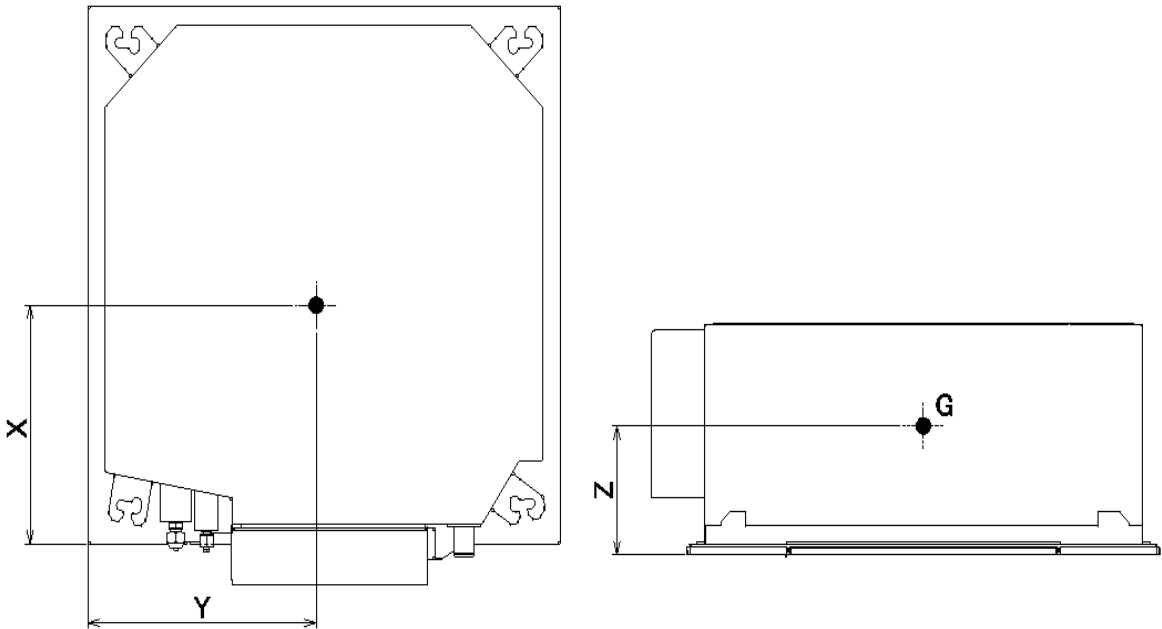
RAS-M16U2MUVG-E



(Unit: mm)

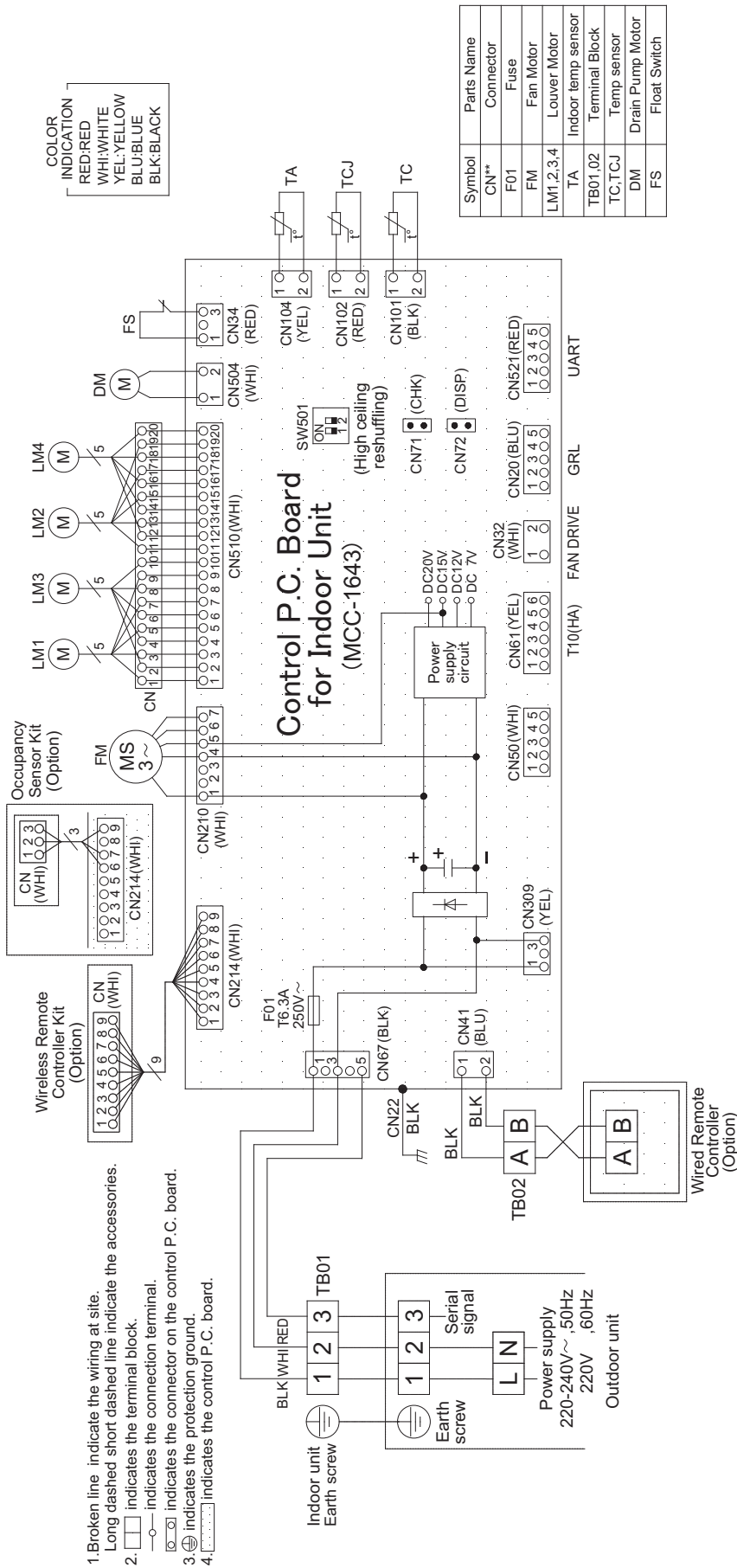
3. Center of gravity

Model name	X (mm)	Y (mm)	Z (mm)	Total weight	
				Main unit (kg)	Ceiling panel (kg)
RAS-M10U2MUVG-E	275	300	148	15	2.5
RAS-M13U2MUVG-E					
RAS-M16U2MUVG-E					



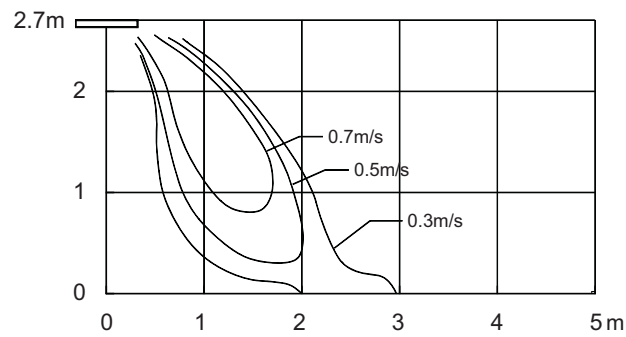
4. Wiring diagram

RAS-M10U2MUVG-E, RAS-M13U2MUVG-E, RAS-M16U2MUVG-E

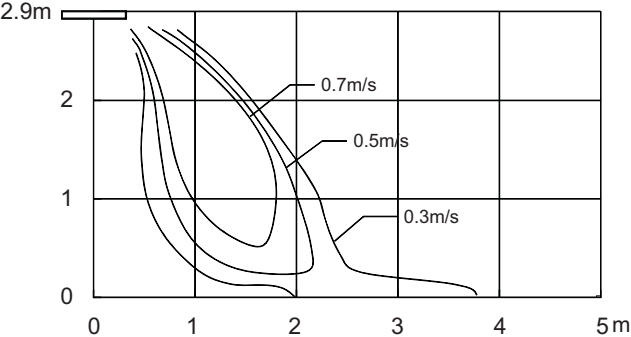


5. Air flow distance chart

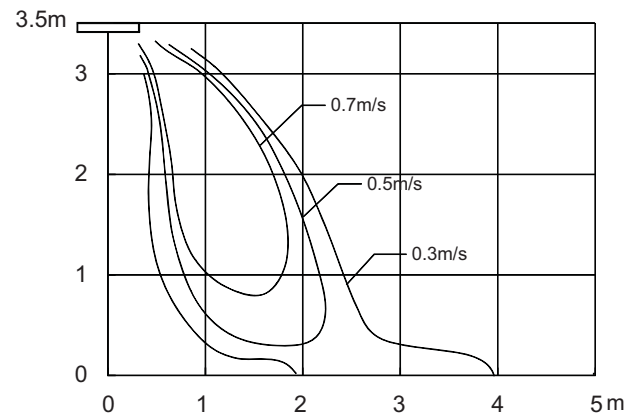
RAS-M10U2MUVG-E, RAS-M13U2MUVG-E



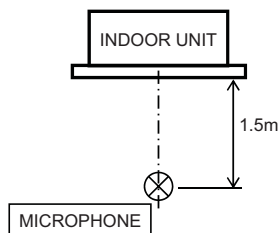
RAS-M16U2MUVG-E



RAS-M16U2MUVG-E
(High ceiling mode)

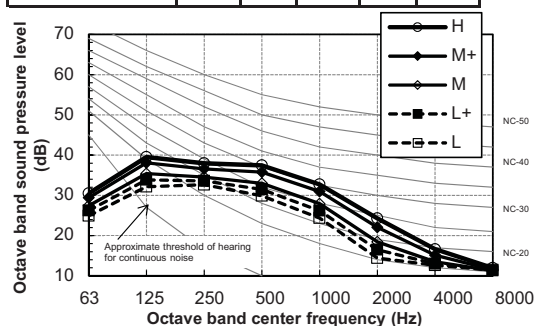


6. Sound data

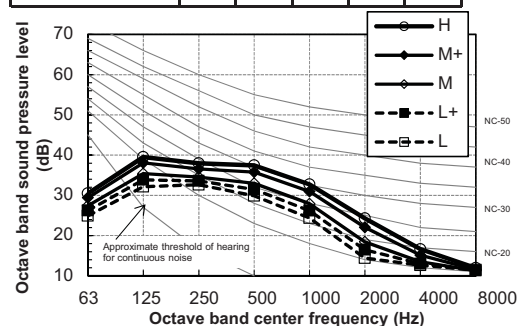


RAS-M10U2MUVG-E

Cooling					
Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	37	35	33	32	30

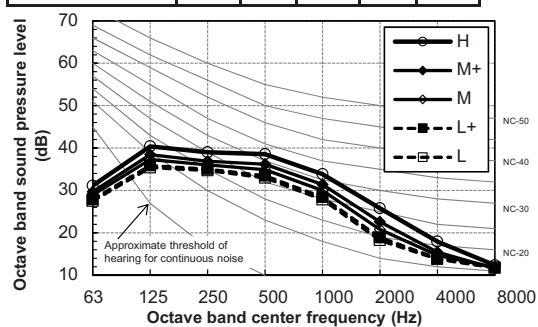


Heating					
Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	37	35	33	32	30

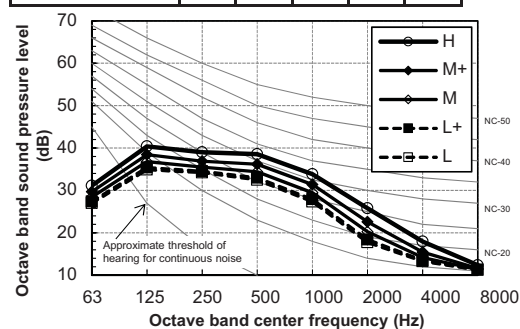


RAS-M13U2MUVG-E

Cooling					
Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	39	37	35	34	33

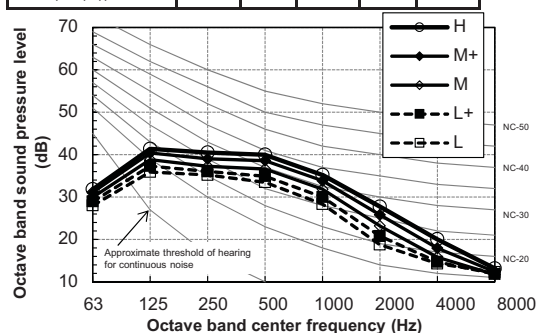


Heating					
Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	39	37	34	33	32

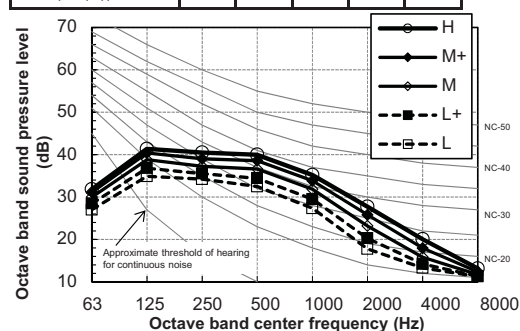


RAS-M16U2MUVG-E

Cooling					
Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	41	39	37	35	33

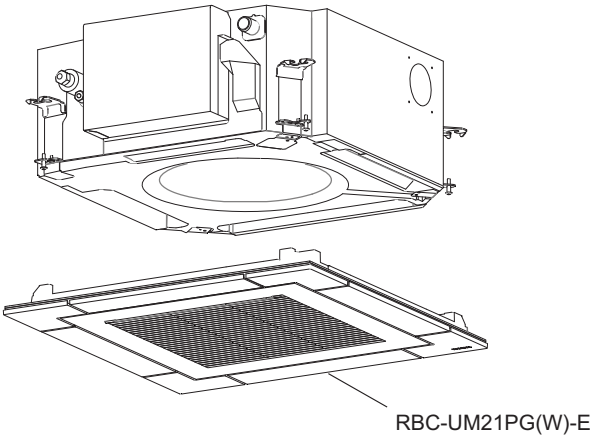


Heating					
Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	41	39	37	35	32



7. Accessories

Optional accessories



Indoor unit type	Parts name	Model name
Compact 4-Way Cassette Type	Ceiling panel	RBC-UM21PG(W)-E
	Wireless remote controller kit	RBC-AX32UM(W)-E
	Wired remote controller	RB-RWS21-E
	Occupancy sensor	TCB-SIR41UM-E

Compact 4-way Cassette Engineering Data Book

Model name:

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December, 2020

Toshiba Carrier Corporation