



MMD-UP_SPHY SLIM DUCT

R32 Ready



Whether installed in a ceiling void or in a false ceiling, Toshiba Slim Duct offers the ultimate technology, with exceptional energy savings, high performance and easy installation.

CAPACITY **SOUND PRESSURE LEVEL**

0.3 HP < 3 HP **25dB(A)**

OUTDOOR UNITS COMPATIBILITY



LOCAL CONTROLS



Features

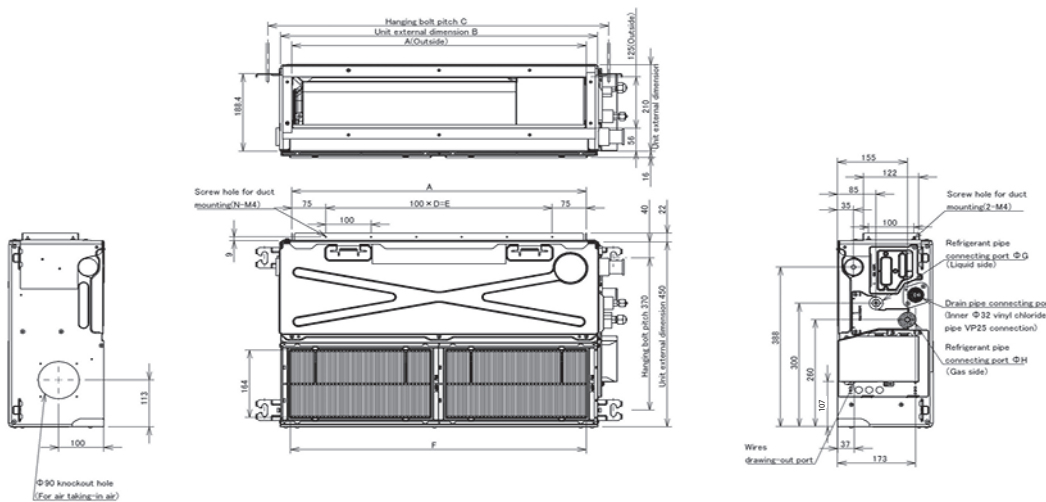
PRELIMINARY DATA

Model name	MMD-	UP0031SPHY-E	UP0051SPHY-E	UP0071SPHY-E	UP0091SPHY-E	UP0121SPHY-E	UP0151SPHY-E	UP0181SPHY-E	UP0241SPHY-E	UP0271SPHY-E	
Capacity code	HP	0.3	0.6	0.8	1	1.3	1.5	2	2.5	3	
Cooling capacity	kW	0.9	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8	
Heating capacity (1)	kW	1.0	1.9	2.5	3.2	4	5	6.3	8	9	
Electrical characteristics	Power supply	1 phase 50 Hz 220-240 V									
	Running current 50Hz / 60Hz	A	0.34 / 0.36	0.36 / 0.37	0.40 / 0.42	0.42 / 0.44	0.44 / 0.46	0.47 / 0.49	0.53 / 0.56	0.69 / 0.73	0.74 / 0.78
	Power consumption	kW	0.018	0.02	0.026	0.029	0.031	0.035	0.044	0.067	0.072
	Starting current 50Hz / 60Hz	A	0.60 / 0.63	0.62 / 0.65	0.69 / 0.73	0.73 / 0.77	0.77 / 0.81	0.82 / 0.86	0.92 / 0.97	1.21 / 1.27	1.30 / 1.36
Appearance	Zinc hot dipping steel plate										
Outer dimension HxLxP	mm	210x700x450			210x900x450			210x1110x450			
Total weight	kg	15			19			22			
Heat exchanger	Finned tube										
Soundproof / Heat-insulating material	Polyethylene foam + Polyurethane foam										
Fan unit	Fan	Centrifugal fan (sirocco fan)									
	Standard air flow (H/M+/M/L+/L)	m³/h	410/390/370/360/350	450/430/410/390/380	540/500/460/430/400	570/530/500/450/420	600/550/520/470/440	690/660/640/590/550	780/760/730/690/650	1080/1010/950/900/860	1140/1060/980/940/910
	Motor output	W	50			94					
External static pressure	Pa	10 (factory setting) -20-30-40-50									
Sound pressure level (H/M+/M/L+/L)	Under air intake	dB(A)	37/36/35/34/32	39/38/37/35/34	41/40/39/38/35	42/41/40/38/36	44/42/40/39/37	42/40/39/38/37	44/43/42/41/39	47/46/44/43/41	48/47/45/44/43
	Back air intake	dB(A)	29/28/27/26/25	30/29/28/27/26	31/30/29/28/26	32/31/29/28/26	33/32/30/29/27	33/31/30/29/28	34/33/32/31/29	36/35/33/32/30	37/36/34/33/32
Sound power level (H/M+/M/L+/L)	dB(A)	46/45/44/43/42	49/47/46/45/44	52/51/49/47/45	54/52/50/48/46	54/51/50/48/46	52/51/50/49/46	56/55/54/52/51	60/58/56/55/53	61/59/58/56/55	
Air filter	Standard filter supplied (Long life filter)										
Controller	Remote controller										
Connecting pipe	Gas pipe	inch	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	5/8"	5/8"
	Liquid pipe	inch	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"
	Drain pipe (Outside dia.)	mm	25 (Polyvinyl chloride tube : External dia.32 Internal dia.25)								

Drawings

Unit: mm

MMD-UP0031SPHY-E to MMD-UP0271SPHY-E



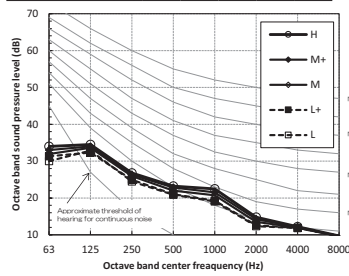
MMD-UP****1SPHY-E	003~012	015~018	024~027
A	650	850	1050
B	700	900	1100
C	770	970	1170
D	5	7	9
E	500	700	900
F	655	855	1055
G	6.4		9.5
H	9.5	12.7	15.9

Unit: dB(A)

Sound pressure levels

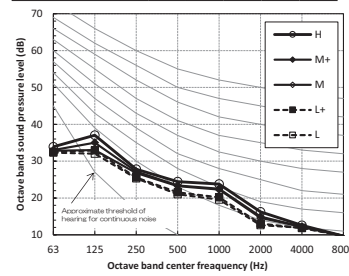
MMD-UP0031SPHY-E

Sound Pressure Level (dB(A))	H	M+	M	L+	L
	29	28	27	26	25



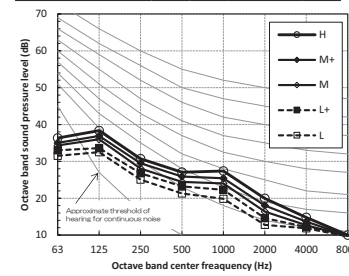
UP0051SPHY-E

Sound Pressure Level (dB(A))	H	M+	M	L+	L
	30	29	28	27	26



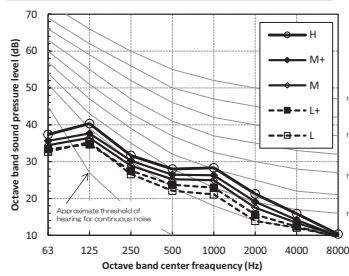
UP0071SPHY-E

Sound Pressure Level (dB(A))	H	M+	M	L+	L
	31	30	29	28	26



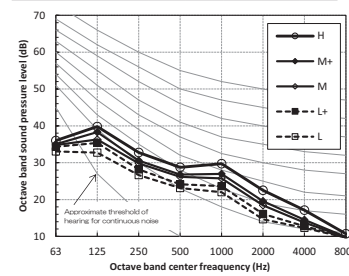
UP0091SPHY-E

Sound Pressure Level (dB(A))	H	M+	M	L+	L
	32	31	29	28	26



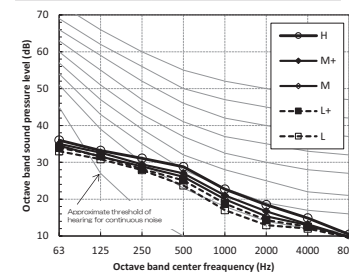
UP0121SPHY-E

Sound Pressure Level (dB(A))	H	M+	M	L+	L
	33	32	30	29	27



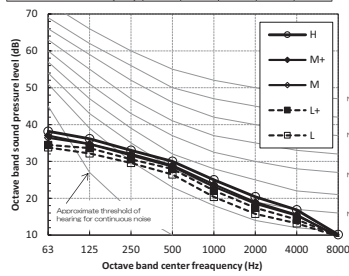
UP0151SPHY-E

Sound Pressure Level (dB(A))	H	M+	M	L+	L
	33	31	30	29	28



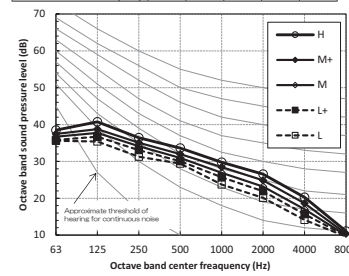
UP0181SPHY-E

Sound Pressure Level (dB(A))	H	M+	M	L+	L
	34	33	32	31	29



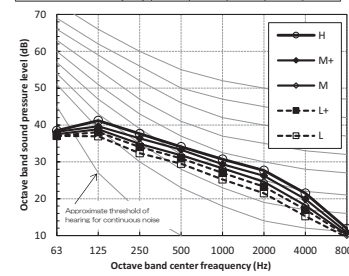
UP0241SPHY-E

Sound Pressure Level (dB(A))	H	M+	M	L+	L
	36	35	33	32	30



UP0271SPHY-E

Sound Pressure Level (dB(A))	H	M+	M	L+	L
	37	36	34	33	32

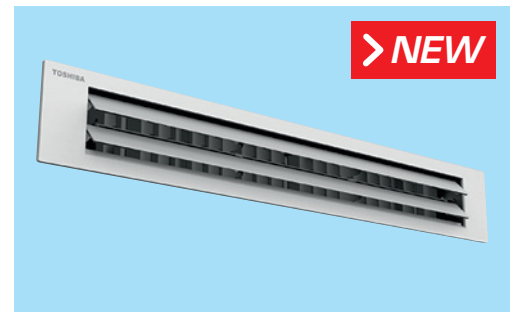


Accessories

Part name	Model name	Applied model	Remarks
Auxiliary fresh air flange	TCB-FF101URE2	MMD-UP_1SPHY-E	For fresh air intake by using the knockout hole of indoor unit (dia.=100 mm)
3DW diffusor	TCB-TDL0141SDY-E	MMD-UP_1SPHY-E - sizes 3 to 12	Motorized horizontal louver controlled by remotes
	TCB-TDL0181SDY-E	MMD-UP_1SPHY-E - sizes 15 to 18	
	TCB-TDL0271SDY-E	MMD-UP_1SPHY-E - sizes 24 to 27	

3DW DIFFUSOR Physical data

Model name	TCB-TDL0141SDY-E	TCB-TDL0181SDY-E	TCB-TDL0271SDY-E
Description	Motorized horizontal louver for slim duct		
Compatible with slim duct size	MMD-UP0xx1SPHY-E	003 to 012	015 & 018
Dimensions (H x L x D) *: from panel surface	mm	180 x 810 x 88 (*99)	180 x 1010 x 88 (*99)
Distance from duct to louver	min	91mm	
	max	1000mm	
Pressure lost	Pa	5	
Color	Mansell	5PB9/1	
	RAL (approximation)	250 92 05	
Remote controller needed to operate	Horizontal louver	RBC-ASCU11-E, RBC-AMTU31-E, RBC-AMSU51E/ES/EN	



Slim duct connectors

CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input. No IDU thermo off	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
•	TCB-PCUC2E pcb needed	•	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed

