

MM-DXC STANDARD DX KIT



Built an efficient and reliable ventilation system managed by Toshiba remote controller mixing third party AHU, DX coil and Toshiba VRF system.

Full Toshiba control

- On/Off fan, temperature control and safety cut managed by Toshiba system.
- Air temperature control achieved using TA sensor positioned in return air stream (set with remote controller).

High capacity, high air flow

- Up to 60HP capacity (master/slave DX kits), up to 30000 m³/h to be suitable for every type of project.

Packaged solution

- DX kit composed of two parts: controller and valve kit.
- Delivered with temperature sensors.



CAPACITY



5kW > 168kW

AIR FLOW



Up to 30000m³/h

OUTDOOR UNITS



Mini SMMS-e



SMMS-e



SHRM-e

LOCAL CONTROLS



RBC-AMT32E

STANDARD DX KIT Physical data

DX Controller unit	MM-	DXC010		DXC012
		VRF DX COIL CONTROLLER (Individual / Header)		VRF DX COIL CONTROLLER (Follower)
Dimensions (HxWxD)	mm	400x300x150		400x300x150
Weight	kg	8		7.6
Standard rating	IP	65		65
Operating temperature/humidity	°C / RH	5-40 / 10-90		5-40 / 10-90
Operating range - Cooling coil "Air on" temp	°C	15°CWB±24°CWB		15°CWB±24°CWB
Operating range - Heating coil "Air on" temp	°C	15°CDB±28°CDB		15°CDB±28°CDB
Power supply	V-ph-Hz	220/240-1-50		220/240-1-50

STANDARD DX KIT Physical data

DX valve kit	MM-	DXV080			DXV140		DXV280	
		5.6kW, 7.1kW, 8.0kW		11.2kW, 14.0kW, 16.0kW		22.4kW, 28.0kW		
Nominal capacity		1.7 - 3.2 HP		4 - 6HP		8 - 10 HP		
Dimensions	mm	155x155x185						
Weight	kg	0.9kg						
Integrated components		TA, TC1, TC & TCJ sensors, PMV, sensor holder 4 & 6 mm, fix plate, strainer and clamp (for TA)						

STANDARD DX KIT Capacity table

Capacity in HP	VRF DX Coil controller (Individual/ Header)	VRF DX Coil Controller (Follower)	VRF DX Coil valve kit			Nominal capacity (kW) ^{*3}		DX coil internal volume (cc)			Recommended liquid capillary	Air volume flow rate (m ³ /h *4)		
	MM-DXC010	MM-DXC012	MM-DXV080	MM-DXV140	MM-DXV280	Cool *1	Heat *2	Min	Std	Max	mm	Min	Std	Max
1,7	1		1			4.5	5	723	850	977	3.2 ~ 3.5	720	900	1080
2	1		1			5.6	6.3	850	1000	1150	3.2 ~ 3.5	720	900	1080
2,5	1		1			7.1	8	1063	1250	1438	3.5 ~ 4	1060	1320	1580
3	1		1			8	9	1275	1500	1725	3.5 ~ 4	1060	1320	1580
3,2	1		1			9	10	1360	1600	1840	3.5 ~ 4	1060	1320	1580
4	1			1		11.2	12.5	1700	2000	2300	4.5 ~ 5	1280	1600	1920
5	1			1		14	16	2125	2500	2875	5 ~ 5.5	1680	2100	2520
6	1			1		16	1	2550	3000	3450	5.5 ~ 6	1850	2800	3740
8	1				1	2.4	25	3400	4000	4600	6.5 ~ 7	2880	3600	4320
10	1				1	28	31.5	4250	5000	5250	7 ~ 8	3360	4200	5040
12	1	1		2		33.5	37.5	5100	6000	6900	DX-Coils > 10HP must be designed with multiple sections each 10HP, or less/. These sections must have dedicated Headers and liquid capillary distributors. Therefore recommended orifice sizes only 2 - 10 HP	3700	5600	7480
14	1	1		1	1	10	45	5950	7000	8050		4730	6400	8060
16	1	1			2	45	50	6800	800	9200		5760	7200	8640
18	1	1			2	50.4	56	7650	9000	10350		6240	7800	9360
20	1	1			2	56	63	8500	10000	11500		6720	8400	10080
22	1	2		1	2	31.5	64	9350	11000	12650		7610	10000	12380
24	1	2			3	67	75	10200	12000	13800		8640	10800	12960
26	1	2			3	73.5	82.5	11050	13000	14950		9120	11400	13680
28	1	2			3	78.5	87.5	11900	14000	16100		9600	12000	14400
30	1	2			2	85	95	12750	15000	17250		10050	12600	15120
32	1	3			4	90	100	13600	16000	18400		11520	14400	17280
34	1	3			4	95.4	106.5	14450	17000	19550		12000	15000	18000
36	1	3			4	101	113	15300	18000	20700		12480	15600	18720
38	1	3			4	106.5	114	16150	19000	21850		12960	16200	19440
40	1	4			4	112	126	17000	20000	23000		13440	16800	20160
42	1	4			5	117.5	127	17850	21000	24150		14880	18600	22320
44	1	4			5	123	128	18700	22000	25300		15360	19200	23040
46	1	4			5	130	145	19550	23000	26450		15840	19800	23760
48	1	4			5	135	150	20400	24000	27600	16320	20400	24480	
50	1	4			5	140.4	156	21250	25000	28750	16800	21000	25200	
52	1	4			6	146	163	22100	26000	29900	18240	22800	27360	
54	1	5			6	151.5	164	22950	27000	31050	18720	23400	28080	
56	1	5			6	157	176	23800	28000	32200	19000	24000	28800	
58	1	5			6	162.5	177	24650	29000	33350	19680	24600	29520	
60	1	5			6	168	178	25500	30000	34500	20160	25200	30240	

*1 Cooling Capacity Conditions (Indoor 27 °Cdb / 19 °Cwb & Outdoor 35 °Cdb) at Standard Air Flow rate.
 *2 Heating Capacity Conditions (Indoor 20 °Cdb & Outdoor 7 °Cdb / 6 °Cdb) at Standard Air Flow rate.
 *3 SHRMe Capacity quoted as nominal cooling and maximum heating.
 *4 The standard Air volume flow rate is a guideline. The required capacity should determine DX-Interface size selection.

DX-Coils > 10HP must be designed with multiple pathways each 10HP or less. These pathways must have dedicated Headers and Liquid Capillary distributors. Therefore recommended sizes only needed for 2 - 10HP.

Single Port Flow Selectors (3-Series) MUST be used with the DX-Interface. It is not compatible with Multi Port Flow Selector (This limits the maximum SHRMe DX-Interface size to 42HP).

Heating & Cooling Capacity are guide-line figures, the design of each customer's AHU and DX Coil will have an impact on the actual system performance.
 Cooling Capacity Conditions (Indoor 27 °Cdb / 19 °Cwb & Outdoor 35 °Cdb) at Standard Air flow rate.
 Heating Capacity Conditions (Indoor 20 °Cdb & Outdoor 7 °Cdb / 6 °Cdb) at Standard Air flow rate.

