

SUBJECT: VRF DX Kit Interface – Guidelines and recommendations for AHU and DX Coil

TOSHIBA would like to announce the release of new Guidelines and Recommendations for sizing the AHU and DX Coil used with the VRF DX Interface.

1. Model Names

MM-DXC010 VRF DX Coil Controller (Header/Individual)
MM-DXC012 VRF DX Coil Controller (Follower)

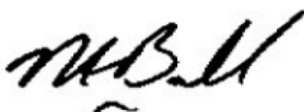
MM-DXV080 VRF DX Coil Valve Kit (5.6,7.1,8.0kW)
MM-DXV140 VRF DX Coil Valve Kit (11.2,14.0,16.0kW)
MM-DXV280 VRF DX Coil Valve Kit (22.4, 28.0kW)

2. Guidelines and Recommendations

	Current	Revised	
		Guideline	Recommended
Design evaporating temp (°C)	6.5	6.5	-
Design condensing temp (°C)	52	52	-
Sub cool (K)	4	4	-
Super heat (K)	6	6	-
Cooling nominal condition (°C)	27/19 (DB/WB)	27/19 (DB/WB)	-
Heating nominal condition (°C)	20/- (DB/WB)	20/- (DB/WB)	-
Air volume	Standard ± 20%	Standard ± 20%	-
Diversity	Up 110 %	60% to 110%	-
U pipe dia.	No limitation	12.7mm dia. or less	9.52mm dia. or less
Internal Volume	No limit	500cc/HP ± 15%	-
Ref. circuit	Not Specified	Not specified	See Below
Pressure drop	Not Specified	Not specified	-
TCJ position	Lowest circuit	Lowest circuit	-
Distributor/Capi.	Not mentioned	Not specified	-
Air-in temp.(Cooling)	15 to 24 C (WB)	15 to 24 C (WB)	-
Air-in temp.(Heating)	15 to 28 C (DB)	15 to 28 C (DB)	-
Defrost Fan Control	On or Off	On or Off	-
DX Range (HP)	MM-DXC010 MM-DXC012 DXV080: 2,2.5,3 DXV140: 4,5,6 DXV280: 8,10	MM-DXC010 MM-DXC012 DXV080: 2,2.5,3 DXV140: 4,5,6 DXV280: 8,10	-
VRF Range (HP)	Full VRF range MiNi: 4,5,6 SMMSi: 8 - 48 SHRMi: 8 - 42	Full VRF range MiNi: 4,5,6 SMMSi: 8 - 48 SHRMi: 8 - 42	-

3. Recommended Ref. Circuit number by DX-Coil U-Pipe Dia. and DX Coil Size (HP)

U-Pipe Diameter	HP	Cooling Cap. kW	No. of Circuits	
			Min.	Max.
8	2	5.6	3	4
	2.5	7.1	3	4
	3	8	4	6
	4	11.2	5	8
	5	14	6	8
	6	16	6	10
	8	22.4	8	12
	10	28	10	14
9.52	2	5.6	2	3
	2.5	7.1	2	3
	3	8	3	4
	4	11.2	3	5
	5	14	4	6
	6	16	5	7
	8	22.4	6	10
	10	28	8	12
12.7	2	5.6	2	2
	2.5	7.1	2	2
	3	8	2	2
	4	11.2	2	3
	5	14	3	3
	6	16	3	4
	8	22.4	4	6
	10	28	5	7



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