



Technical Manual

50Hz AC Fan Coil Unit

4-Pipe Duct MDVF-FF Series



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1 Specifications

Model name			MDVF-200D304FF	MDVF-300D304FF	MDVF-400D304FF
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)	m³/h		330/226/181	510/355/217	680/396/268
	CFM		194/132/106	300/208/127	400/232/157
Standard external static pressure		Pa	30	30	30
Cooling	Capacity (H/M/L)	kW	2.25/1.81/1.44	3.28/2.53/1.75	4.15/2.84/2.10
	Water flow rate (H/M/L)	m³/h	0.46/0.34/0.26	0.59/0.44/0.32	0.72/0.50/0.37
	Water pressure (H/M/L)	kPa	23.76/14.65/9.69	21.08/12.67/7.09	23.10/12.30/7.10
Heating	Capacity (H/M/L)	kW	2.4/1.92/1.59	3.85/3.18/2.23	4.74/3.71/2.77
	Water flow rate (H/M/L)	m³/h	0.22/0.18/0.14	0.33/0.28/0.20	0.42/0.32/0.24
	Water pressure (H/M/L)	kPa	31.80/21.46/14.46	14.55/10.67/5.86	29.80/17.60/10.30
Power Input (Cooling)		W	40/33/26	57/44/37	70/30/43
Power Input (Heating)		W	41/34/27	59/45/37	72/51/43
Current (Cooling)		A	0.2/0.2/0.1	0.3/0.2/0.2	0.3/0.3/0.2
Current (Heating)		A	0.2/0.2/0.1	0.3/0.2/0.2	0.3/0.3/0.2
Sound pressure level (H/M/L)		dB(A)	38/33/27	40.5/34.5/27.5	41.5/34.5/26
Fan motor	Type		Low noise 3-speed AC capacitor motor		
	Quantity		1		
Fan	Type		Centrifugal, forward-curved blades		
	Quantity		1	1	2
Coil	Row		4		
	MAX. working pressure	MPa	1.6		
	Diameter	mm	7		
Body	Dimensions (W×H×D)	mm	632×243×487	773×243×487	908×243×487
	Packing (W×H×D)	mm	698×270×520	843×270×520	978×270×520
	Net weight	kg	14	16	19
	Gross weight	kg	16	18.5	22
Pipe connection	Water inlet/outlet pipe	inch	RC3/4		
	Drain pipe	inch	OD5/4		

NOTES:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed;
2. Cooling conditions (H speed): water inlet 7°C, water outlet 12°C, entering air temperature 27°C DB/19°C WB, rated external static pressure;
3. Heating conditions (H speed): water inlet 65°C, water outlet 55°C, entering air temperature 20°C DB, rated external static pressure.
4. The above sound level is tested in the semi-anechoic room with background level 17.5dB (A) when the unit is without accessories and running in dry condition;
5. Air flow is tested when the unit is under rated external static pressure without return air box and filter screen in dry condition and 20°C DB/14.5WB;
6. 30Pa is standard, 50Pa need to be customized;
7. Auxiliary electric heater (AEH) is optional.

4-Pipe Duct MDVF-FF Series



Model name			MDVF-500D304FF	MDVF-600D304FF	MDVF-700D304FF
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m³/h	850/535/286	1020/705/405	1170/681/468
		CFM	500/314/168	600/414/238	689/400/275
Standard external static pressure		Pa	30	30	30
Cooling	Capacity (H/M/L)	kW	4.97/3.63/2.26	5.6/4.42/2.95	6.4/4.42/3.43
	Water flow rate (H/M/L)	m³/h	0.86/0.65/0.41	0.95/0.76/0.51	1.16/0.79/0.62
	Water pressure (H/M/L)	kPa	29.48/19.90/11.00	37.70/26.40/13.40	22.93/11.67/7.51
Heating	Capacity (H/M/L)	kW	5.55/4.57/3.00	6.2/5.39/3.78	6.4/4.90/3.90
	Water flow rate (H/M/L)	m³/h	0.52/0.40/0.27	0.57/0.47/0.34	0.56/0.42/0.34
	Water pressure (H/M/L)	kPa	39.16/26.18/14.69	47.80/33.9/19.20	42.93/26.08/17.27
Power Input (Cooling)		W	93/72/58	106/79/61	117/89/78
Power Input (Heating)		W	99/75/59	110/81/62	123/93/81
Current (Cooling)		A	0.4/0.3/0.3	0.4/0.4/0.3	0.5/0.4/0.4
Current (Heating)		A	0.5/0.4/0.3	0.5/0.4/0.3	0.6/0.4/0.4
Sound pressure level (H/M/L)		dB(A)	45/42/32.5	45/41/32	45.5/38/32
Fan motor	Type	Low noise 3-speed AC capacitor motor			
	Quantity	1			
Fan	Type	Centrifugal, forward-curved blades			
	Quantity	2	2	2	2
Coil	Row	4			
	MAX. working pressure	MPa	1.6		
	Diameter	mm	7		
Body	Dimensions (W×H×D)	mm	908×243×487	1003×243×487	1178×243×487
	Packing (W×H×D)	mm	978×270×520	1073×270×520	1248×270×520
	Net weight	kg	19	20.5	22.5
	Gross weight	kg	22	24	26
Pipe connection	Water inlet/outlet pipe	inch	RC3/4		
	Drain pipe	inch	OD5/4		

NOTES:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed;
2. Cooling conditions (H speed): water inlet 7°C, water outlet 12°C, entering air temperature 27°C DB/19°C WB, rated external static pressure;
3. Heating conditions (H speed): water inlet 65°C, water outlet 55°C, entering air temperature 20°C DB, rated external static pressure.
4. The above sound level is tested in the semi-anechoic room with background level 17.5dB (A) when the unit is without accessories and running in dry condition;
5. Air flow is tested when the unit is under rated external static pressure without return air box and filter screen in dry condition and 20°C DB/14.5WB;
6. 30Pa is standard, 50Pa need to be customized;
7. Auxiliary electric heater (AEH) is optional.



4-Pipe Duct MDVF-FF Series

Model name			MDVF-800D304FF	MDVF-1000D304FF
Power supply		V/Ph/Hz	220-240/1/50	
Air flow (H/M/L)		m³/h	1350/1032/571	1540/1280/783
		CFM	795/607/335	906/752/460
Standard external static pressure		Pa	30	30
Cooling	Capacity (H/M/L)	kW	7.32/6.21/4.08	8.4/7.19/5.20
	Water flow rate (H/M/L)	m³/h	1.29/1.04/0.71	1.38/1.20/0.87
	Water pressure (H/M/L)	kPa	27.80/20.50/9.80	32.80/25.80/14.40
Heating	Capacity (H/M/L)	kW	9.72/8.60/6.08	10.85/9.35/7.06
	Water flow rate (H/M/L)	m³/h	0.87/0.75/0.53	0.92/0.80/0.62
	Water pressure (H/M/L)	kPa	47.03/37.11/21.92	52.00/42.10/25.40
Power Input (Cooling)		W	139/118/92	158/131/103
Power Input (Heating)		W	145/124/97	168/138/106
Current (Cooling)		A	0.6/0.5/0.4	0.7/0.6/0.5
Current (Heating)		A	0.6/0.5/0.4	0.7/0.6/0.5
Sound pressure level (H/M/L)		dB(A)	44.5/41.5/34	47.5/44.5/39.5
Fan motor	Type	Low noise 3-speed AC capacitor motor		
	Quantity		1	1
Fan	Type	Centrifugal, forward-curved blades		
	Quantity		3	3
Coil	Row		4	4
	MAX. working pressure	MPa	1.6	1.6
	Diameter	mm	7	7
Body	Dimensions (W×H×D)	mm	1368×243×487	1368×243×487
	Packing (W×H×D)	mm	1438×270×520	1438×270×520
	Net weight	kg	27.5	27.5
	Gross weight	kg	32	32
Pipe connection	Water inlet/outlet pipe	inch	RC3/4	
	Drain pipe	inch	OD5/4	

NOTES:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed;
2. Cooling conditions (H speed): water inlet 7°C, water outlet 12°C, entering air temperature 27°C DB/19°C WB, rated external static pressure;
3. Heating conditions (H speed): water inlet 65°C, water outlet 55°C, entering air temperature 20°C DB, rated external static pressure.
4. The above sound level is tested in the semi-anechoic room with background level 17.5dB (A) when the unit is without accessories and running in dry condition;
5. Air flow is tested when the unit is under rated external static pressure without return air box and filter screen in dry condition and 20°C DB/14.5WB;
6. 30Pa is standard, 50Pa need to be customized;
7. Auxiliary electric heater (AEH) is optional.

4-Pipe Duct MDVF-FF Series



Model name			MDVF-1200D304FF	MDVF-1400D304FF
Power supply		V/Ph/Hz	220-240/1/50	
Air flow (H/M/L)		m³/h	1830/1299/763	2300/1437/839
		CFM	1077/764/448	1354/987/568
Standard external static pressure		Pa	30	30
Cooling	Capacity (H/M/L)	kW	9.85/8.09/5.50	11.9/8.71/5.83
	Water flow rate (H/M/L)	m³/h	1.70/1.40/0.96	1.99/1.47/0.98
	Water pressure (H/M/L)	kPa	29.60/21.00/10.80	49.00/29.40/14.60
Heating	Capacity (H/M/L)	kW	10.5/8.77/6.35	12.85/9.96/7.13
	Water flow rate (H/M/L)	m³/h	0.89/0.75/0.55	1.07/0.85/0.61
	Water pressure (H/M/L)	kPa	25.60/19.00/11.00	37.20/24.30/13.80
Power Input (Cooling)		W	187/156/131	250/198/166
Power Input (Heating)		W	198/163/135	268/207/169
Current (Cooling)		A	0.8/0.7/0.6	1.1/1/0.8
Current (Heating)		A	0.9/0.8/0.6	1.3/1/0.9
Sound pressure level (H/M/L)		dB(A)	48/44/35.5	49.5/44.5/36
Fan motor	Type	Low noise 3-speed AC capacitor motor		
	Quantity		2	2
Fan	Type	Centrifugal, forward-curved blades		
	Quantity		3	4
Coil	Row		4	4
	MAX. working pressure	MPa	1.6	1.6
	Diameter	mm	7	7
Body	Dimensions (W×H×D)	mm	1658×243×487	1898×243×487
	Packing (W×H×D)	mm	1728×270×520	1968×270×520
	Net weight	kg	35.5	39
	Gross weight	kg	40.5	45
Pipe connection	Water inlet/outlet pipe	inch	RC3/4	
	Drain pipe	inch	OD5/4	

NOTES:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed;
2. Cooling conditions (H speed): water inlet 7°C, water outlet 12°C, entering air temperature 27°C DB/19°C WB, rated external static pressure;
3. Heating conditions (H speed): water inlet 65°C, water outlet 55°C, entering air temperature 20°C DB, rated external static pressure.
4. The above sound level is tested in the semi-anechoic room with background level 17.5dB (A) when the unit is without accessories and running in dry condition;
5. Air flow is tested when the unit is under rated external static pressure without return air box and filter screen in dry condition and 20°C DB/14.5WB;
6. 30Pa is standard, 50Pa need to be customized;
7. Auxiliary electric heater (AEH) is optional.



4-Pipe Duct MDVF-FF Series

Model name			MDVF-200D504FF	MDVF-300D504FF	MDVF-400D504FF
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m³/h	320/223/185	480/322/237	650/546/294
		CFM	188/131/108	282/189/139	382/258/150
Standard external static pressure		Pa	50	50	50
Cooling	Capacity (H/M/L)	kW	2.25/1.63/1.42	3.00/2.26/1.79	4.10/2.94/1.94
	Water flow rate (H/M/L)	m³/h	0.36/0.28/0.24	0.51/0.39/0.31	0.69/0.51/0.33
	Water pressure (H/M/L)	kPa	15.57/9.48/7.19	17.77/10.21/6.4	23.5/12.88/5.61
Heating	Capacity (H/M/L)	kW	2.40/1.82/1.57	3.80/2.78/2.21	4.70/3.51/2.24
	Water flow rate (H/M/L)	m³/h	0.2/0.16/0.14	0.31/0.24/0.19	0.4/0.3/0.19
	Water pressure (H/M/L)	kPa	26.8/17.39/13.44	13.16/8.57/5.76	27.99/17.23/7.87
Power Input (Cooling)		W	50/43/33	62/47/39	75/63/53
Power Input (Heating)		W	50/44/34	63/48/40	80/65/56
Current (Cooling)		A	0.2/0.2/0.1	0.3/0.2/0.2	0.4/0.3/0.3
Current (Heating)		A	0.2/0.2/0.1	0.3/0.2/0.2	0.4/0.3/0.3
Sound pressure level (H/M/L)		dB(A)	39/36/24.5	42/37.5/32.5	43/38.5/33
Fan motor	Type	Low noise 3-speed AC capacitor motor			
	Quantity	1			
Fan	Type	Centrifugal, forward-curved blades			
	Quantity	1	1	2	
Coil	Row	4			
	MAX. working pressure	MPa	1.6		
	Diameter	mm	7		
Body	Dimensions (W×H×D)	mm	632×243×487	773×243×487	908×243×487
	Packing (W×H×D)	mm	698×270×520	843×270×520	978×270×520
	Net weight	kg	14	16	19
	Gross weight	kg	16	18.5	22
Pipe connection	Water inlet/outlet pipe	inch	RC3/4		
	Drain pipe	inch	OD5/4		

NOTES:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed;
2. Cooling conditions (H speed): water inlet 7°C, water outlet 12°C, entering air temperature 27°C DB/19°C WB, rated external static pressure;
3. Heating conditions (H speed): water inlet 65°C, water outlet 55°C, entering air temperature 20°C DB, rated external static pressure.
4. The above sound level is tested in the semi-anechoic room with background level 17.5dB (A) when the unit is without accessories and running in dry condition;
5. Air flow is tested when the unit is under rated external static pressure without return air box and filter screen in dry condition and 20°C DB/14.5WB;
6. 30Pa is standard, 50Pa need to be customized;
7. Auxiliary electric heater (AEH) is optional.

4-Pipe Duct MDVF-FF Series



Model name			MDVF-500D504FF	MDVF-600D504FF	MDVF-700D504FF
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m³/h	740/546/294	900/622/331	1120/829/611
		CFM	435/321/173	529/366/195	658/488/359
Standard external static pressure		Pa	50	50	50
Cooling	Capacity (H/M/L)	kW	4.60/3.60/2.23	5.40/4.02/2.48	6.30/4.88/3.88
	Water flow rate (H/M/L)	m³/h	0.8/0.62/0.38	0.95/0.69/0.43	1.04/0.84/0.67
	Water pressure (H/M/L)	kPa	28.86/18.14/7.1	39.1/22.51/8.69	19.24/12.97/0.67
Heating	Capacity (H/M/L)	kW	5.00/4.03/2.49	6.40/5.07/3.18	6.30/5.45/4.52
	Water flow rate (H/M/L)	m³/h	0.43/0.35/0.21	0.56/0.44/0.27	0.55/0.47/0.39
	Water pressure (H/M/L)	kPa	28.62/19.76/8.57	48.39/31.07/13.81	42.49/32.24/23.22
Power Input (Cooling)		W	89/67/54	110/84/68	118/107/93
Power Input (Heating)		W	95/70/56	117/88/71	126/110/96
Current (Cooling)		A	0.4/0.4/0.3	0.5/0.4/0.3	0.5/0.5/0.4
Current (Heating)		A	0.4/0.4/0.3	0.5/0.4/0.3	0.6/0.5/0.4
Sound pressure level (H/M/L)		dB(A)	44/39.5/32	45/41.5/33	46/42.5/37
Fan motor	Type	Low noise 3-speed AC capacitor motor			
	Quantity	1			
Fan	Type	Centrifugal, forward-curved blades			
	Quantity	2	2	2	2
Coil	Row	4			
	MAX. working pressure	MPa	1.6		
	Diameter	mm	7		
Body	Dimensions (W×H×D)	mm	908×243×487	1003×243×487	1178×243×487
	Packing (W×H×D)	mm	978×270×520	1073×270×520	1248×270×520
	Net weight	kg	19	20.5	22.5
	Gross weight	kg	22	24	26
Pipe connection	Water inlet/outlet pipe	inch	RC3/4		
	Drain pipe	inch	OD5/4		

NOTES:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed;
2. Cooling conditions (H speed): water inlet 7°C, water outlet 12°C, entering air temperature 27°C DB/19°C WB, rated external static pressure;
3. Heating conditions (H speed): water inlet 65°C, water outlet 55°C, entering air temperature 20°C DB, rated external static pressure.
4. The above sound level is tested in the semi-anechoic room with background level 17.5dB (A) when the unit is without accessories and running in dry condition;
5. Air flow is tested when the unit is under rated external static pressure without return air box and filter screen in dry condition and 20°C DB/14.5WB;
6. 30Pa is standard, 50Pa need to be customized;
7. Auxiliary electric heater (AEH) is optional.



4-Pipe Duct MDVF-FF Series

Model name			MDVF-800D504FF	MDVF-1000D504FF
Power supply		V/Ph/Hz	220-240/1/50	
Air flow (H/M/L)		m³/h	1200/940/580	1450/1296/996
		CFM	705/553/341	852/762/586
Standard external static pressure		Pa	50	50
Cooling	Capacity (H/M/L)	kW	7.40/5.77/3.97	8.30/7.45/6.11
	Water flow rate (H/M/L)	m³/h	1.20/0.99/0.68	1.37/1.28/1.05
	Water pressure (H/M/L)	kPa	24.86/17.53/8.41	31.72/28.36/19.86
Heating	Capacity (H/M/L)	kW	9.60/8.16/5.81	10.00/9.55/8.29
	Water flow rate (H/M/L)	m³/h	0.81/0.7/0.5	0.83/0.82/0.71
	Water pressure (H/M/L)	kPa	41.56/32.85/18.07	44.95/44.35/34.59
Power Input (Cooling)		W	141/120/97	184/157/133
Power Input (Heating)		W	150/126/101	187/164/137
Current (Cooling)		A	0.6/0.5/0.4	0.8/0.7/0.6
Current (Heating)		A	0.6/0.6/0.5	0.8/0.8/0.7
Sound pressure level (H/M/L)		dB(A)	47.5/43.5/35	48/46/43.5
Fan motor	Type	Low noise 3-speed AC capacitor motor		
	Quantity		1	1
Fan	Type	Centrifugal, forward-curved blades		
	Quantity		3	3
Coil	Row		4	4
	MAX. working pressure	MPa	1.6	1.6
	Diameter	mm	7	7
Body	Dimensions (W×H×D)	mm	1368×243×487	1368×243×487
	Packing (W×H×D)	mm	1438×270×520	1438×270×520
	Net weight	kg	27.5	27.5
	Gross weight	kg	32	32
Pipe connection	Water inlet/outlet pipe	inch	RC3/4	
	Drain pipe	inch	OD5/4	

NOTES:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed;
2. Cooling conditions (H speed): water inlet 7°C, water outlet 12°C, entering air temperature 27°C DB/19°C WB, rated external static pressure;
3. Heating conditions (H speed): water inlet 65°C, water outlet 55°C, entering air temperature 20°C DB, rated external static pressure.
4. The above sound level is tested in the semi-anechoic room with background level 17.5dB (A) when the unit is without accessories and running in dry condition;
5. Air flow is tested when the unit is under rated external static pressure without return air box and filter screen in dry condition and 20°C DB/14.5WB;
6. 30Pa is standard, 50Pa need to be customized;
7. Auxiliary electric heater (AEH) is optional.

4-Pipe Duct MDVF-FF Series

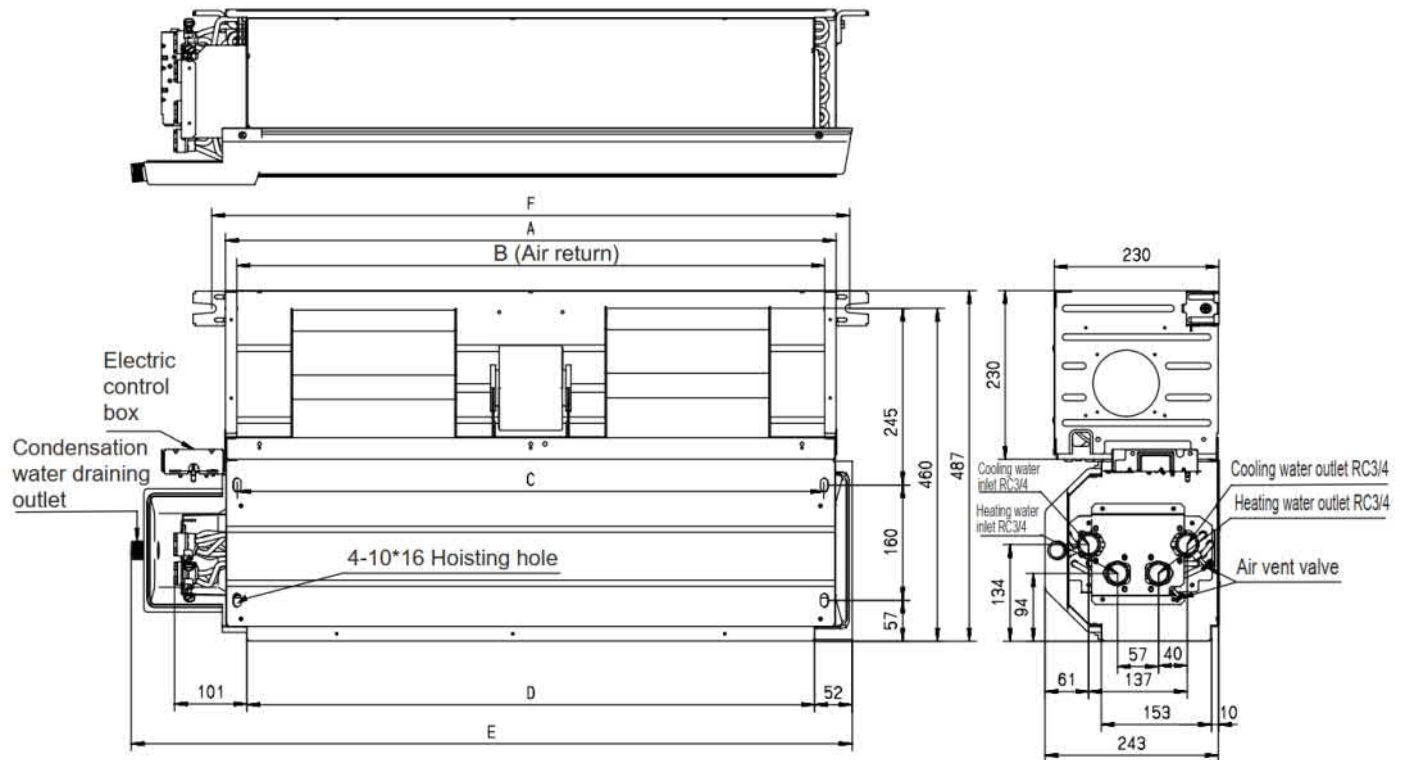


Model name			MDVF-1200D504FF	MDVF-1400D504FF
Power supply		V/Ph/Hz	220-240/1/50	
Air flow (H/M/L)		m³/h	1800/1358/792	2100/1728/1254
		CFM	1058/799/466	1235/1016/737
Standard external static pressure		Pa	50	50
Cooling	Capacity (H/M/L)	kW	9.90/8.13/5.36	11.60/9.81/7.71
	Water flow rate (H/M/L)	m³/h	1.74/1.4/0.92	2/1.68/1.33
	Water pressure (H/M/L)	kPa	30.97/20.94/9.45	49.64/36.87/24
Heating	Capacity (H/M/L)	kW	10.50/9.09/6.30	12.70/11.43/9.44
	Water flow rate (H/M/L)	m³/h	0.91/0.78/0.54	1.10/0.98/0.81
	Water pressure (H/M/L)	kPa	26.17/19.92/10.52	40.73/33.64/24.06
Power Input (Cooling)		W	241/196/166	248/218/201
Power Input (Heating)		W	250/203/171	265/226/208
Current (Cooling)		A	1.1/1.0/0.9	1.1/1.1/1.0
Current (Heating)		A	1.1/1.0/0.9	1.2/1.1/1.0
Sound pressure level (H/M/L)		dB(A)	49/46/42	50/47/42.5
Fan motor	Type	Low noise 3-speed AC capacitor motor		
	Quantity		2	2
Fan	Type	Centrifugal, forward-curved blades		
	Quantity		3	4
Coil	Row		4	4
	MAX. working pressure	MPa	1.6	1.6
	Diameter	mm	7	7
Body	Dimensions (W×H×D)	mm	1658×243×487	1898×243×487
	Packing (W×H×D)	mm	1728×270×520	1968×270×520
	Net weight	kg	35.5	39
	Gross weight	kg	40.5	45
Pipe connection	Water inlet/outlet pipe	inch	RC3/4	
	Drain pipe	inch	OD5/4	

NOTES:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed;
2. Cooling conditions (H speed): water inlet 7°C, water outlet 12°C, entering air temperature 27°C DB/19°C WB, rated external static pressure;
3. Heating conditions (H speed): water inlet 65°C, water outlet 55°C, entering air temperature 20°C DB, rated external static pressure.
4. The above sound level is tested in the semi-anechoic room with background level 17.5dB (A) when the unit is without accessories and running in dry condition;
5. Air flow is tested when the unit is under rated external static pressure without return air box and filter screen in dry condition and 20°C DB/14.5WB;
6. 30Pa is standard, 50Pa need to be customized;
7. Auxiliary electric heater (AEH) is optional.

2 Dimensions



Model Size	200-model	300-Model	400-Model	600-Model	700-Model	800-Model	1200-Model	1400-Model
			500-Model			1000-Model		
A	475	620	755	850	1025	1215	1505	1745
B	443	588	723	818	993	1183	1473	1713
C	442	587	722	817	992	1182	1472	1712
D	415	560	695	790	965	1155	1445	1685
E	632	773	908	1003	1178	1368	1658	1898
F	513	658	793	888	1063	1253	1543	1783

3 Capacity Tables

Cooling Capacity Table

MDVF-200D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
5	3	15	1.86	1.39	0.54	26.39	1.85	1.57	0.53	26.21	1.87	1.77	0.54	26.59	1.96	1.96	0.56	28.6	2.14	2.14	0.61	33.35
		17	2.44	1.4	0.7	41.8	2.42	1.59	0.7	41.33	2.41	1.77	0.69	40.86	2.39	1.95	0.69	40.29	2.38	2.14	0.68	39.98
		19	-	-	-	-	3.04	1.6	0.88	61.54	3.01	1.78	0.86	60	2.99	1.97	0.86	59.33	2.97	2.15	0.85	58.67
		20	-	-	-	-	3.36	1.6	0.97	73.41	3.34	1.79	0.96	72.6	3.31	1.97	0.95	70.81	3.3	2.15	0.95	71.41
	4	15	1.68	1.3	0.36	13.32	1.7	1.5	0.36	13.61	1.76	1.7	0.38	14.52	1.9	1.9	0.41	16.63	2.08	2.08	0.45	19.5
		17	2.28	1.32	0.49	22.42	2.26	1.51	0.49	22.43	2.25	1.7	0.48	22.18	2.24	1.88	0.48	22	2.26	2.07	0.49	22.33
		19	-	-	-	-	2.89	1.53	0.62	33.71	2.87	1.71	0.62	33.34	2.85	1.9	0.61	32.97	2.83	2.08	0.61	32.61
		20	-	-	-	-	3.21	1.53	0.69	40.58	3.19	1.72	0.69	40.14	3.17	1.9	0.68	39.76	3.15	2.09	0.68	39.48
	5	15	1.48	1.2	0.25	6.62	1.55	1.41	0.27	7.38	1.66	1.63	0.28	8.63	1.83	1.83	0.31	10.5	2.02	2.02	0.35	12.45
		17	2.08	1.23	0.36	13.15	2.07	1.42	0.35	12.99	2.06	1.61	0.35	12.88	2.08	1.8	0.36	13.11	2.13	2	0.37	13.7
		19	-	-	-	-	2.72	1.45	0.47	20.85	2.7	1.64	0.47	20.62	2.69	1.82	0.46	20.4	2.67	2	0.46	20.17
		20	-	-	-	-	3.05	1.46	0.52	25.19	3.03	1.64	0.52	24.92	3.01	1.83	0.52	24.65	2.99	2.01	0.51	24.38
	6	15	1.35	1.14	0.19	3.2	1.45	1.35	0.21	3.83	1.57	1.56	0.23	4.82	1.75	1.75	0.25	6.42	1.94	1.94	0.28	8.24
		17	1.85	1.13	0.27	7.43	1.84	1.32	0.26	7.32	1.87	1.52	0.27	7.54	1.92	1.72	0.28	8.09	2.01	1.93	0.29	8.93
		19	-	-	-	-	2.52	1.36	0.36	13.38	2.51	1.55	0.36	13.23	2.49	1.73	0.36	13.08	2.48	1.92	0.36	12.98
		20	-	-	-	-	2.87	1.37	0.41	16.52	2.85	1.56	0.41	16.48	2.83	1.75	0.41	16.3	2.82	1.93	0.4	16.13
7	3	15	1.43	1.18	0.41	16.72	1.47	1.38	0.43	17.53	1.58	1.58	0.46	19.85	1.77	1.77	0.51	23.73	1.96	1.96	0.56	28.13
		17	2.02	1.2	0.58	29.98	2	1.39	0.58	29.63	1.99	1.57	0.57	29.27	1.99	1.76	0.57	29.23	2.02	1.95	0.58	30.2
		19	-	-	-	-	2.62	1.4	0.75	46.48	2.6	1.59	0.75	45.96	2.58	1.77	0.74	45.43	2.57	1.95	0.74	44.91
		20	-	-	-	-	2.94	1.4	0.85	57.4	2.92	1.59	0.84	56.75	2.9	1.78	0.83	55.71	2.88	1.96	0.83	55.08
	4	15	1.26	1.1	0.27	7.89	1.36	1.31	0.29	9.2	1.52	1.52	0.33	11.16	1.71	1.71	0.37	13.73	1.9	1.9	0.41	16.39
		17	1.83	1.12	0.4	15.45	1.82	1.31	0.39	15.26	1.82	1.5	0.39	15.24	1.86	1.69	0.4	15.77	1.93	1.89	0.42	16.75
		19	-	-	-	-	2.45	1.33	0.53	25.2	2.44	1.51	0.52	24.91	2.42	1.7	0.52	24.64	2.41	1.88	0.52	24.35
		20	-	-	-	-	2.79	1.34	0.6	31.69	2.77	1.52	0.6	31.33	2.75	1.71	0.6	30.99	2.73	1.89	0.59	30.64
	5	15	1.13	1.03	0.2	3.38	1.26	1.24	0.22	4.5	1.44	1.44	0.25	6.38	1.63	1.63	0.28	8.5	1.83	1.83	0.31	10.4
		17	1.59	1.01	0.27	8.08	1.59	1.21	0.27	8.07	1.64	1.41	0.28	8.56	1.72	1.62	0.3	9.39	1.84	1.83	0.32	10.55
		19	-	-	-	-	2.26	1.24	0.39	14.94	2.25	1.43	0.39	14.76	2.25	1.63	0.46	23.76	2.23	1.8	0.38	14.57
		20	-	-	-	-	2.6	1.26	0.45	18.97	2.59	1.44	0.45	18.76	2.57	1.63	0.44	18.55	2.55	1.81	0.44	18.34
	6	15	1.04	0.97	0.15	1.87	1.2	1.19	0.17	2.45	1.38	1.38	0.2	3.55	1.56	1.56	0.22	4.95	1.75	1.75	0.25	6.63
		17	1.38	0.92	0.2	3.57	1.42	1.13	0.2	3.88	1.5	1.34	0.21	4.44	1.61	1.55	0.23	5.37	1.76	1.76	0.25	6.68
		19	-	-	-	-	2.03	1.14	0.29	9	2.01	1.33	0.29	8.88	2.01	1.52	0.29	8.89	2.05	1.72	0.29	9.2
		20	-	-	-	-	2.39	1.16	0.34	11.96	2.37	1.35	0.34	11.82	2.36	1.54	0.34	11.69	2.34	1.72	0.34	11.58



(Continued)

MDVF-200D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
9	3	15	1.04	0.99	0.3	9.44	1.2	1.2	0.34	11.98	1.39	1.39	0.4	15.56	1.58	1.58	0.45	19.23	1.77	1.77	0.51	23.27
		17	1.55	0.99	0.44	18.57	1.54	1.18	0.44	18.32	1.56	1.38	0.45	18.69	1.62	1.58	0.46	20.04	1.77	1.77	0.51	23.35
		19	-	-	-	-	2.17	1.2	0.62	33.07	2.15	1.39	0.62	32.68	2.14	1.57	0.61	32.29	2.13	1.76	0.61	32.16
		20	-	-	-	-	2.5	1.21	0.72	42.85	2.48	1.4	0.72	42.35	2.46	1.58	0.71	41.24	2.45	1.76	0.7	40.77
	4	15	0.94	0.92	0.2	3.91	1.12	1.12	0.24	6.14	1.32	1.32	0.28	8.65	1.52	1.52	0.33	10.92	1.71	1.71	0.37	13.49
		17	1.32	0.9	0.28	8.6	1.34	1.1	0.29	8.89	1.42	1.31	0.3	9.73	1.53	1.52	0.33	11.11	1.71	1.71	0.37	13.53
		19	-	-	-	-	1.98	1.12	0.43	17.25	1.97	1.31	0.42	17.03	1.95	1.5	0.42	16.84	1.97	1.69	0.42	17.07
		20	-	-	-	-	2.32	1.13	0.5	22.66	2.3	1.32	0.5	22.4	2.29	1.51	0.49	22.13	2.27	1.69	0.49	21.87
	5	15	0.87	0.87	0.15	1.84	1.06	1.06	0.18	2.92	1.25	1.25	0.21	4.57	1.44	1.44	0.25	6.56	1.64	1.64	0.28	8.48
		17	1.1	0.8	0.19	3.26	1.18	1.02	0.2	3.93	1.29	1.23	0.22	5.02	1.45	1.44	0.25	6.6	1.64	1.64	0.28	8.51
		19	-	-	-	-	1.75	1.03	0.3	9.46	1.73	1.22	0.3	9.35	1.76	1.41	0.3	9.57	1.82	1.62	0.31	10.12
		20	-	-	-	-	2.11	1.05	0.36	13.01	2.09	1.23	0.36	12.86	2.08	1.42	0.36	12.69	2.08	1.61	0.36	12.69
	6	15	0.79	0.79	0.11	1.31	1	1	0.14	1.7	1.19	1.19	0.17	2.47	1.38	1.38	0.2	3.66	1.56	1.56	0.22	5.15
		17	0.94	0.74	0.14	1.57	1.07	0.96	0.15	1.93	1.21	1.18	0.17	2.6	1.38	1.38	0.2	3.67	1.57	1.57	0.22	5.17
		19	-	-	-	-	1.47	0.92	0.21	4.41	1.5	1.12	0.22	4.66	1.57	1.33	0.23	5.26	1.67	1.54	0.24	6.1
		20	-	-	-	-	1.84	0.94	0.26	7.51	1.83	1.13	0.26	7.39	1.83	1.32	0.26	7.42	1.88	1.52	0.27	7.77
11	3	15	0.8	0.8	0.23	5.43	1	1	0.29	8.61	1.2	1.2	0.34	11.67	1.39	1.39	0.4	15.13	1.58	1.58	0.45	18.67
		17	1.03	0.78	0.29	9.03	1.09	0.99	0.31	9.98	1.21	1.2	0.34	11.82	1.39	1.39	0.4	15.18	1.58	1.58	0.45	18.73
		19	-	-	-	-	1.68	1	0.48	20.72	1.67	1.19	0.48	20.44	1.66	1.38	0.47	20.42	1.7	1.57	0.49	21.21
		20	-	-	-	-	2.01	1.01	0.58	28.54	2	1.2	0.57	28.19	1.99	1.38	0.57	27.81	1.97	1.57	0.56	27.43
	4	15	0.74	0.74	0.16	2.05	0.93	0.93	0.2	3.82	1.13	1.13	0.24	6.22	1.32	1.32	0.28	8.46	1.52	1.52	0.32	10.66
		17	0.84	0.7	0.18	2.95	0.96	0.92	0.21	4.22	1.13	1.12	0.24	6.23	1.33	1.33	0.28	8.49	1.52	1.52	0.33	10.69
		19	-	-	-	-	1.44	0.9	0.31	9.79	1.45	1.1	0.31	9.84	1.5	1.3	0.32	10.43	1.58	1.51	0.34	11.49
		20	-	-	-	-	1.8	0.92	0.39	14.3	1.79	1.11	0.38	14.12	1.78	1.3	0.38	13.95	1.8	1.5	0.38	14.22
	5	15	0.67	0.67	0.11	1.28	0.87	0.87	0.15	1.83	1.06	1.06	0.18	3.05	1.25	1.25	0.22	4.76	1.45	1.45	0.25	6.67
		17	0.72	0.64	0.12	1.38	0.88	0.86	0.15	1.9	1.06	1.06	0.18	3.06	1.25	1.25	0.22	4.78	1.45	1.45	0.25	6.7
		19	-	-	-	-	1.17	0.8	0.2	4.06	1.24	1.01	0.21	4.71	1.35	1.23	0.23	5.73	1.48	1.44	0.25	6.98
		20	-	-	-	-	1.54	0.82	0.26	7.49	1.53	1.01	0.26	7.39	1.56	1.22	0.27	7.7	1.63	1.42	0.28	8.31
	6	15	0.58	0.58	0.08	0.92	0.8	0.8	0.11	1.25	1	1	0.14	1.68	1.19	1.19	0.17	2.56	1.38	1.38	0.2	3.82
		17	0.6	0.57	0.09	0.94	0.8	0.8	0.11	1.26	1	1	0.14	1.69	1.19	1.19	0.17	2.58	1.38	1.38	0.2	3.83
		19	-	-	-	-	1	0.73	0.14	1.68	1.11	0.95	0.16	2.16	1.24	1.17	0.18	2.89	1.39	1.38	0.2	3.92
		20	-	-	-	-	1.25	0.72	0.18	2.94	1.29	0.92	0.18	3.23	1.37	1.13	0.2	3.82	1.48	1.35	0.21	4.66

4-Pipe Duct MDVF-FF Series



(Continued)

MDVF-200D304FF																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m3/h	kPa	kW	kW	m3/h	kPa	kW	kW	m3/h	kPa	kW	kW	m3/h	kPa	kW	kW	m3/h	kPa	
13	3	15	0.6	0.6	0.17	2.72	0.8	0.8	0.23	5.69	1	1	0.29	8.6	1.2	1.2	0.34	11.62	1.39	1.39	0.4	14.94	
		17	0.62	0.6	0.18	2.94	0.8	0.8	0.23	5.7	1	1	0.29	8.62	1.2	1.2	0.34	11.65	1.39	1.39	0.4	14.99	
		19	-	-	-	-	1.12	0.78	0.32	10.39	1.16	0.99	0.33	11.01	1.25	1.19	0.36	12.43	1.39	1.39	0.4	15	
		20	-	-	-	-	1.48	0.8	0.42	16.61	1.46	0.99	0.42	16.36	1.47	1.18	0.42	16.43	1.51	1.38	0.43	17.32	
	4	15	0.54	0.54	0.12	1.23	0.74	0.74	0.16	2.15	0.93	0.93	0.2	4.04	1.13	1.13	0.24	6.28	1.32	1.32	0.28	8.33	
		17	0.54	0.54	0.12	1.24	0.74	0.74	0.16	2.16	0.93	0.93	0.2	4.06	1.13	1.13	0.24	6.3	1.32	1.32	0.28	8.35	
		19	-	-	-	-	0.89	0.69	0.19	3.6	1	0.91	0.22	4.88	1.14	1.13	0.24	6.45	1.33	1.33	0.28	8.38	
		20	-	-	-	-	1.19	0.69	0.26	6.97	1.21	0.9	0.26	7.17	1.29	1.11	0.28	7.93	1.39	1.32	0.3	9.03	
	5	15	0.45	0.45	0.08	0.81	0.67	0.67	0.11	1.21	0.87	0.87	0.15	1.84	1.06	1.06	0.18	3.12	1.25	1.25	0.21	4.84	
		17	0.45	0.45	0.08	0.81	0.67	0.67	0.11	1.21	0.87	0.87	0.15	1.85	1.06	1.06	0.18	3.14	1.25	1.25	0.21	4.86	
		19	-	-	-	-	0.75	0.63	0.13	1.37	0.9	0.85	0.15	2.02	1.06	1.06	0.18	3.16	1.25	1.25	0.22	4.88	
		20	-	-	-	-	0.92	0.6	0.16	2.18	1.02	0.82	0.17	2.81	1.14	1.03	0.19	3.79	1.28	1.25	0.22	5.1	
	6	15	0.36	0.36	0.05	0.52	0.59	0.59	0.08	0.87	0.8	0.8	0.11	1.19	1	1	0.14	1.68	1.19	1.19	0.17	2.63	
		17	0.36	0.36	0.05	0.52	0.59	0.59	0.08	0.87	0.8	0.8	0.11	1.19	1	1	0.14	1.68	1.19	1.19	0.17	2.64	
		19	-	-	-	-	0.62	0.56	0.09	0.91	0.81	0.79	0.12	1.21	1	1	0.14	1.69	1.19	1.19	0.17	2.66	
		20	-	-	-	-	0.72	0.52	0.1	1.06	0.89	0.76	0.13	1.34	1.04	0.98	0.15	1.86	1.2	1.19	0.17	2.7	
15	3	15	0.4	0.4	0.11	1.18	0.6	0.6	0.17	2.75	0.8	0.8	0.23	5.65	1	1	0.29	8.34	1.19	1.19	0.34	11.26	
		17	0.4	0.4	0.12	1.18	0.6	0.6	0.17	2.76	0.8	0.8	0.23	5.67	1	1	0.29	8.36	1.2	1.2	0.34	11.29	
		19	-	-	-	-	0.64	0.59	0.18	3.19	0.8	0.8	0.23	5.68	1	1	0.29	8.39	1.2	1.2	0.34	11.33	
		20	-	-	-	-	0.84	0.57	0.24	6.14	0.92	0.79	0.26	7.18	1.03	1	0.3	8.8	1.2	1.19	0.34	11.32	
	4	15	0.32	0.32	0.07	0.69	0.54	0.54	0.11	1.17	0.73	0.73	0.16	2.19	0.93	0.93	0.2	4.1	1.13	1.13	0.24	6.25	
		17	0.32	0.32	0.07	0.69	0.54	0.54	0.12	1.17	0.74	0.74	0.16	2.2	0.93	0.93	0.2	4.12	1.13	1.13	0.24	6.27	
		19	-	-	-	-	0.55	0.53	0.12	1.19	0.74	0.73	0.16	2.2	0.93	0.93	0.2	4.14	1.13	1.13	0.24	6.29	
		20	-	-	-	-	0.64	0.5	0.14	1.54	0.78	0.72	0.17	2.55	0.94	0.93	0.2	4.2	1.13	1.13	0.24	6.31	
	5	15	0.21	0.21	0.04	0.36	0.46	0.46	0.08	0.78	0.67	0.67	0.12	1.16	0.87	0.87	0.15	1.92	1.06	1.06	0.18	3.29	
		17	0.21	0.21	0.04	0.36	0.46	0.46	0.08	0.78	0.67	0.67	0.12	1.16	0.87	0.87	0.15	1.93	1.06	1.06	0.18	3.3	
		19	-	-	-	-	0.46	0.46	0.08	0.79	0.67	0.67	0.12	1.17	0.87	0.87	0.15	1.94	1.06	1.06	0.18	3.32	
		20	-	-	-	-	0.49	0.43	0.08	0.84	0.69	0.66	0.12	1.2	0.87	0.87	0.15	1.94	1.06	1.06	0.18	3.33	
	6	15	-	-	-	-	0.36	0.36	0.05	0.51	0.59	0.59	0.08	0.84	0.8	0.8	0.12	1.15	1	1	0.14	1.73	
		17	-	-	-	-	0.36	0.36	0.05	0.51	0.59	0.59	0.09	0.84	0.8	0.8	0.12	1.15	1	1	0.14	1.74	
		19	-	-	-	-	0.36	0.36	0.05	0.51	0.59	0.59	0.09	0.84	0.8	0.8	0.12	1.15	1	1	0.14	1.75	
		20	-	-	-	-	0.37	0.35	0.05	0.51	0.59	0.59	0.09	0.84	0.8	0.8	0.12	1.15	1	1	0.14	1.75	

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

Heating Capacity Table

MDVF-200D304FF													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
°C	°C	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa
40	8	1.11	0.12	11.03	0.98	0.11	8.96	0.86	0.09	7.02	0.73	0.08	5.32
	10	1.01	0.09	6.36	0.88	0.08	5.03	0.74	0.06	3.81	0.61	0.05	2.67
	12	0.89	0.06	3.84	0.75	0.05	2.86	0.62	0.04	1.83	0.5	0.04	1.01
	14	0.76	0.05	2.06	0.64	0.04	1.28	0.51	0.03	0.76	0.38	0.02	0.52
	16	0.66	0.04	0.97	0.53	0.03	0.66	0.39	0.02	0.48	0.23	0.01	0.29
45	8	1.43	0.15	16.58	1.31	0.14	14.21	1.18	0.13	11.86	1.05	0.11	9.76
	10	1.33	0.12	10.06	1.21	0.1	8.47	1.08	0.09	6.99	0.95	0.08	5.63
	12	1.23	0.09	6.49	1.1	0.08	5.37	0.97	0.07	4.33	0.84	0.06	3.37
	14	1.12	0.07	4.25	0.99	0.06	3.43	0.85	0.05	2.65	0.71	0.04	1.82
	16	1	0.05	2.79	0.86	0.05	2.06	0.73	0.04	1.36	0.6	0.03	0.83
50	8	1.75	0.19	23.12	1.62	0.17	20.18	1.5	0.16	17.54	1.36	0.15	15.07
	10	1.66	0.14	14.35	1.53	0.13	12.5	1.4	0.12	10.77	1.28	0.11	9.15
	12	1.56	0.11	9.46	1.43	0.1	8.16	1.31	0.09	6.95	1.18	0.08	5.82
	14	1.46	0.09	6.51	1.33	0.08	5.55	1.2	0.07	4.66	1.07	0.07	3.82
	16	1.35	0.07	4.57	1.22	0.07	3.85	1.09	0.06	3.16	0.95	0.05	2.51
55	8	2.07	0.22	30.18	1.94	0.21	27.01	1.81	0.2	24.01	1.69	0.18	21.29
	10	1.98	0.17	19.02	1.85	0.16	16.94	1.72	0.15	14.98	1.6	0.14	13.15
	12	1.87	0.14	12.83	1.76	0.13	11.36	1.63	0.12	9.97	1.5	0.11	8.67
	14	1.79	0.11	9.06	1.66	0.1	7.97	1.54	0.09	6.94	1.41	0.09	5.98
	16	1.69	0.09	6.56	1.56	0.08	5.72	1.43	0.08	4.91	1.3	0.07	4.17
60	8	2.38	0.26	38.18	2.26	0.24	34.66	2.13	0.23	31.39	2	0.22	28.06
	10	2.3	0.2	24.34	2.17	0.19	22.03	2.04	0.18	19.82	1.92	0.17	17.73
	12	2.21	0.16	16.59	2.08	0.15	14.96	1.95	0.14	13.4	1.83	0.13	11.93
	14	2.12	0.13	11.8	1.99	0.12	10.59	1.86	0.11	9.44	1.73	0.11	8.35
	16	2.02	0.11	8.72	1.9	0.1	7.79	1.77	0.1	6.9	1.64	0.09	6.06

Abbreviations:

Δt : Temperature Difference. (°C) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

4-Pipe Duct MDVF-FF Series



Cooling Capacity Table

MDVF-300D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
5	3	15	2.77	2.07	0.79	31.23	2.75	2.35	0.79	30.89	2.79	2.64	0.8	31.61	2.93	2.93	0.84	34.49	3.21	3.21	0.92	40.44
		17	3.64	2.09	1.05	50.61	3.61	2.37	1.04	50	3.58	2.65	1.03	49.4	3.56	2.92	1.03	48.82	3.55	3.2	1.02	48.48
		19	-	-	-	-	4.53	2.38	1.31	74.21	4.5	2.66	1.3	73.34	4.47	2.94	1.29	72.49	4.43	3.21	1.27	70.66
		20	-	-	-	-	5.01	2.39	1.44	87.44	4.98	2.67	1.44	87.79	4.94	2.94	1.42	85.44	4.91	3.22	1.41	84.5
	4	15	2.49	1.94	0.53	15.82	2.52	2.23	0.54	16.17	2.62	2.54	0.57	17.52	2.83	2.83	0.61	19.97	3.11	3.11	0.67	23.21
		17	3.38	1.97	0.73	26.75	3.36	2.25	0.72	26.42	3.33	2.53	0.71	26.11	3.32	2.81	0.71	25.9	3.35	3.09	0.72	26.34
		19	-	-	-	-	4.29	2.27	0.92	40.38	4.26	2.55	0.92	39.91	4.24	2.83	0.91	39.68	4.21	3.1	0.91	39.23
		20	-	-	-	-	4.78	2.28	1.03	48.7	4.75	2.56	1.02	48.14	4.72	2.84	1.01	47.6	4.69	3.11	1.01	47.07
	5	15	2.18	1.79	0.37	8.35	2.29	2.1	0.39	9.25	2.46	2.42	0.42	10.62	2.72	2.72	0.47	12.61	3.01	3.01	0.52	15.04
		17	3.1	1.83	0.53	15.78	3.07	2.12	0.53	15.58	3.06	2.4	0.53	15.43	3.09	2.69	0.53	15.7	3.17	2.99	0.55	16.45
		19	-	-	-	-	4.03	2.15	0.69	24.58	4	2.43	0.69	24.29	3.98	2.71	0.68	24.02	3.95	2.98	0.68	23.75
		20	-	-	-	-	4.54	2.17	0.78	30.35	4.51	2.45	0.78	30	4.48	2.73	0.77	29.66	4.45	3	0.77	29.34
	6	15	1.96	1.68	0.28	4.02	2.12	2	0.3	4.91	2.32	2.31	0.33	6.28	2.6	2.6	0.37	8.26	2.89	2.89	0.41	10.22
		17	2.74	1.67	0.39	9.21	2.72	1.96	0.39	9.07	2.75	2.26	0.39	9.31	2.85	2.56	0.41	9.93	2.99	2.87	0.43	10.84
		19	-	-	-	-	3.74	2.02	0.54	15.87	3.71	2.3	0.53	15.68	3.69	2.58	0.53	15.49	3.67	2.85	0.53	15.36
		20	-	-	-	-	4.25	2.04	0.61	19.62	4.22	2.32	0.6	19.39	4.19	2.6	0.6	19.17	4.16	2.87	0.6	18.96
7	3	15	2.13	1.77	0.61	19.89	2.19	2.07	0.63	20.9	2.36	2.36	0.68	23.56	2.65	2.65	0.77	28.98	2.92	2.92	0.85	34.39
		17	3	1.79	0.87	35.9	2.98	2.07	0.86	35.44	2.95	2.35	0.85	34.98	2.95	2.63	0.85	34.95	3.01	2.92	0.87	36.24
		19	-	-	-	-	3.9	2.09	1.12	55.89	3.87	2.37	1.11	55.21	3.84	2.64	1.11	54.56	3.82	2.92	1.1	53.91
		20	-	-	-	-	4.39	2.09	1.27	69.16	4.36	2.38	1.26	68.34	4.33	2.65	1.25	67.54	4.3	2.93	1.24	66.76
	4	15	1.86	1.64	0.4	9.61	2.02	1.96	0.43	11.01	2.26	2.26	0.49	13.45	2.55	2.55	0.55	16.47	2.83	2.83	0.61	19.48
		17	2.71	1.66	0.58	18.11	2.69	1.94	0.58	17.87	2.69	2.23	0.58	17.85	2.75	2.53	0.59	18.53	2.87	2.82	0.62	20.02
		19	-	-	-	-	3.65	1.97	0.79	30.42	3.62	2.26	0.78	30.05	3.6	2.53	0.78	29.71	3.57	2.81	0.77	29.35
		20	-	-	-	-	4.14	1.98	0.89	37.44	4.11	2.26	0.88	37.01	4.08	2.54	0.88	36.58	4.05	2.82	0.87	36.16
	5	15	1.66	1.52	0.28	4.29	1.86	1.84	0.32	5.84	2.14	2.14	0.37	8.13	2.44	2.44	0.42	10.31	2.72	2.72	0.47	12.45
		17	2.36	1.51	0.41	9.74	2.36	1.8	0.41	9.72	2.43	2.1	0.42	10.23	2.56	2.42	0.44	11.17	2.74	2.72	0.47	12.59
		19	-	-	-	-	3.35	1.84	0.58	17.67	3.32	2.13	0.57	17.45	3.28	2.39	0.59	21.08	3.3	2.69	0.57	17.31
		20	-	-	-	-	3.86	1.86	0.66	22.54	3.83	2.14	0.66	22.27	3.81	2.42	0.66	22.01	3.78	2.7	0.65	21.76
	6	15	1.52	1.44	0.22	2.19	1.75	1.75	0.25	3.11	2.03	2.03	0.29	4.58	2.32	2.32	0.33	6.44	2.61	2.61	0.37	8.35
		17	1.99	1.35	0.29	4.43	2.06	1.66	0.3	4.8	2.19	1.98	0.31	5.65	2.38	2.3	0.34	6.85	2.61	2.61	0.37	8.39
		19	-	-	-	-	3	1.69	0.43	10.67	2.97	1.98	0.43	10.53	2.97	2.26	0.43	10.53	3.03	2.56	0.43	10.89
		20	-	-	-	-	3.54	1.72	0.51	14.14	3.51	2.01	0.5	14.04	3.49	2.29	0.5	13.91	3.47	2.57	0.5	13.79



4-Pipe Duct MDVF-FF Series

(Continued)

MDVF-300D304FF																							
EWT	ΔT	Indoor	Indoor temperature (D.B.)																				
		temp	21				23				25				27				29				
		(W.B.)	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
9	3	15	1.55	1.48	0.44	11.24	1.79	1.79	0.51	14.4	2.08	2.08	0.6	18.59	2.36	2.36	0.68	23.14	2.64	2.64	0.76	28.44	
		17	2.3	1.48	0.66	22.1	2.28	1.76	0.65	21.78	2.31	2.06	0.66	22.24	2.41	2.36	0.69	23.99	2.65	2.65	0.77	28.53	
		19	-	-	-	-	3.22	1.79	0.93	39.58	3.2	2.07	0.92	39.08	3.18	2.35	0.91	38.59	3.15	2.63	0.91	38.14	
		20	-	-	-	-	3.72	1.8	1.07	51.13	3.69	2.08	1.07	50.77	3.67	2.36	1.06	50.15	3.64	2.64	1.05	49.56	
	4	15	1.38	1.37	0.3	4.98	1.67	1.67	0.36	7.77	1.97	1.97	0.42	10.36	2.26	2.26	0.49	13.23	2.54	2.54	0.55	16.03	
		17	1.95	1.33	0.42	10.18	1.99	1.64	0.43	10.5	2.1	1.95	0.45	11.54	2.28	2.26	0.49	13.41	2.55	2.55	0.55	16.08	
		19	-	-	-	-	2.93	1.67	0.63	20.52	2.91	1.95	0.63	20.25	2.89	2.23	0.62	20.01	2.92	2.52	0.63	20.31	
		20	-	-	-	-	3.44	1.68	0.75	27.14	3.42	1.97	0.74	26.81	3.4	2.25	0.74	26.49	3.37	2.52	0.73	26.16	
	5	15	1.28	1.28	0.22	2.23	1.56	1.56	0.27	3.8	1.85	1.85	0.32	5.94	2.15	2.15	0.37	8.16	2.44	2.44	0.42	10.15	
		17	1.59	1.19	0.27	4.05	1.72	1.51	0.3	4.98	1.91	1.83	0.33	6.4	2.15	2.15	0.37	8.18	2.44	2.44	0.42	10.18	
		19	-	-	-	-	2.58	1.52	0.44	11.16	2.56	1.81	0.44	11.01	2.6	2.1	0.45	11.28	2.69	2.41	0.46	11.97	
		20	-	-	-	-	3.12	1.55	0.54	15.39	3.1	1.84	0.53	15.28	3.07	2.12	0.53	15.08	3.07	2.4	0.53	15.06	
	6	15	1.16	1.16	0.17	1.44	1.47	1.47	0.21	2.03	1.75	1.75	0.25	3.19	2.03	2.03	0.29	4.77	2.32	2.32	0.33	6.61	
		17	1.37	1.09	0.2	1.77	1.56	1.42	0.22	2.36	1.77	1.74	0.25	3.32	2.03	2.03	0.29	4.79	2.32	2.32	0.33	6.63	
		19	-	-	-	-	2.14	1.35	0.31	5.49	2.19	1.66	0.31	5.82	2.31	1.97	0.33	6.56	2.47	2.29	0.35	7.53	
		20	-	-	-	-	2.72	1.39	0.39	8.93	2.7	1.68	0.39	8.79	2.7	1.97	0.39	8.82	2.77	2.27	0.4	9.21	
11	3	15	1.19	1.19	0.34	6.93	1.49	1.49	0.43	10.31	1.79	1.79	0.51	14.15	2.07	2.07	0.59	18.06	2.36	2.36	0.67	22.48	
		17	1.52	1.16	0.43	10.65	1.62	1.47	0.46	11.83	1.8	1.79	0.52	14.28	2.08	2.08	0.59	18.12	2.36	2.36	0.67	22.55	
		19	-	-	-	-	2.49	1.48	0.71	24.64	2.47	1.77	0.7	24.29	2.46	2.05	0.7	24.25	2.52	2.35	0.72	25.28	
		20	-	-	-	-	2.99	1.5	0.86	34.06	2.96	1.78	0.85	33.35	2.94	2.06	0.84	32.92	2.92	2.34	0.83	32.51	
	4	15	1.08	1.08	0.23	2.63	1.37	1.37	0.29	4.99	1.67	1.67	0.36	7.67	1.97	1.97	0.42	10.12	2.26	2.26	0.48	12.77	
		17	1.23	1.03	0.26	3.7	1.42	1.36	0.3	5.4	1.68	1.67	0.36	7.68	1.97	1.97	0.42	10.15	2.26	2.26	0.48	12.81	
		19	-	-	-	-	2.13	1.35	0.46	11.54	2.14	1.64	0.46	11.59	2.22	1.94	0.47	12.33	2.35	2.25	0.5	13.66	
		20	-	-	-	-	2.67	1.37	0.57	16.9	2.64	1.65	0.57	16.67	2.62	1.94	0.56	16.47	2.66	2.23	0.57	16.82	
	5	15	0.98	0.98	0.17	1.4	1.28	1.28	0.22	2.3	1.56	1.56	0.27	3.97	1.85	1.85	0.32	6.1	2.15	2.15	0.37	8.09	
		17	1.05	0.94	0.18	1.53	1.29	1.27	0.22	2.38	1.56	1.56	0.27	3.99	1.86	1.86	0.32	6.12	2.16	2.16	0.37	8.12	
		19	-	-	-	-	1.71	1.18	0.29	5.04	1.82	1.5	0.31	5.87	1.99	1.83	0.34	7.04	2.19	2.15	0.38	8.36	
		20	-	-	-	-	2.27	1.22	0.39	8.83	2.25	1.51	0.39	8.71	2.3	1.81	0.4	9.06	2.41	2.12	0.42	9.8	
	6	15	0.85	0.85	0.12	1	1.17	1.17	0.17	1.38	1.47	1.47	0.21	2.08	1.75	1.75	0.25	3.33	2.04	2.04	0.29	4.96	
		17	0.88	0.83	0.13	1.02	1.18	1.17	0.17	1.38	1.47	1.47	0.21	2.09	1.75	1.75	0.25	3.34	2.04	2.04	0.29	4.98	
		19	-	-	-	-	1.44	1.08	0.21	1.99	1.61	1.4	0.23	2.68	1.81	1.72	0.26	3.68	2.05	2.04	0.29	5.05	
		20	-	-	-	-	1.79	1.05	0.26	3.59	1.86	1.36	0.27	3.98	2	1.68	0.29	4.78	2.18	2	0.31	5.78	

(Continued)

MDVF-300D304FF																						
EWT	ΔT	Indoor	Indoor temperature (D.B.)																			
		temp	21				23				25				27				29			
		(W.B.)	TC	SC	WF	WPD	TC	TC	SC	WF	WPD	TC	TC	SC	WF	WPD	TC	TC	SC	WF	WPD	TC
°C	°C	°C	kW	kW	m3/h	kPa	kW	kW	m3/h	kPa	kW	kW	m3/h	kPa	kW	kW	m3/h	kPa	kW	kW	m3/h	kPa
13	3	15	0.89	0.89	0.26	3.54	1.19	1.19	0.34	7.03	1.49	1.49	0.43	10.29	1.78	1.78	0.51	13.74	2.07	2.07	0.6	17.96
		17	0.91	0.88	0.26	3.77	1.2	1.19	0.34	7.04	1.5	1.5	0.43	10.32	1.79	1.79	0.51	13.78	2.07	2.07	0.6	18.02
		19	-	-	-	-	1.66	1.17	0.48	12.22	1.71	1.47	0.49	12.78	1.85	1.78	0.53	14.57	2.08	2.07	0.6	18.04
		20	-	-	-	-	2.19	1.19	0.63	19.68	2.17	1.47	0.62	19.36	2.17	1.76	0.62	19.45	2.24	2.06	0.64	20.58
	4	15	0.79	0.79	0.17	1.36	1.08	1.08	0.23	2.78	1.37	1.37	0.29	5.13	1.68	1.68	0.36	7.58	1.97	1.97	0.42	9.96
		17	0.79	0.79	0.17	1.37	1.08	1.08	0.23	2.79	1.38	1.38	0.29	5.15	1.68	1.68	0.36	7.6	1.97	1.97	0.42	9.99
		19	-	-	-	-	1.29	1.02	0.28	4.49	1.47	1.35	0.31	5.97	1.7	1.68	0.36	7.73	1.98	1.98	0.42	10.02
		20	-	-	-	-	1.76	1.03	0.38	8.19	1.79	1.33	0.38	8.41	1.9	1.65	0.41	9.34	2.06	1.96	0.44	10.71
	5	15	0.66	0.66	0.11	0.88	0.98	0.98	0.17	1.33	1.27	1.27	0.22	2.35	1.56	1.56	0.27	4.07	1.86	1.86	0.32	6.09
		17	0.66	0.66	0.11	0.88	0.98	0.98	0.17	1.34	1.28	1.28	0.22	2.36	1.56	1.56	0.27	4.08	1.86	1.86	0.32	6.12
		19	-	-	-	-	1.09	0.93	0.19	1.58	1.31	1.26	0.22	2.55	1.56	1.56	0.27	4.1	1.86	1.86	0.32	6.14
		20	-	-	-	-	1.32	0.88	0.23	2.63	1.47	1.2	0.25	3.5	1.66	1.53	0.29	4.79	1.89	1.86	0.32	6.32
	6	15	0.51	0.51	0.07	0.56	0.86	0.86	0.12	0.94	1.17	1.17	0.17	1.32	1.46	1.46	0.21	2.12	1.75	1.75	0.25	3.42
		17	0.52	0.52	0.07	0.56	0.86	0.86	0.12	0.95	1.17	1.17	0.17	1.32	1.47	1.47	0.21	2.13	1.75	1.75	0.25	3.43
		19	-	-	-	-	0.9	0.83	0.13	0.99	1.19	1.17	0.17	1.34	1.47	1.47	0.21	2.13	1.75	1.75	0.25	3.45
		20	-	-	-	-	1.04	0.77	0.15	1.14	1.29	1.12	0.18	1.55	1.52	1.44	0.22	2.33	1.76	1.75	0.25	3.48
15	3	15	0.59	0.59	0.17	1.32	0.89	0.89	0.25	3.58	1.19	1.19	0.34	6.83	1.49	1.49	0.43	9.97	1.78	1.78	0.51	13.5
		17	0.59	0.59	0.17	1.32	0.89	0.89	0.25	3.6	1.19	1.19	0.34	6.85	1.49	1.49	0.43	10	1.78	1.78	0.51	13.54
		19	-	-	-	-	0.93	0.87	0.27	4.07	1.19	1.19	0.34	6.85	1.5	1.5	0.43	10.04	1.79	1.79	0.51	13.59
		20	-	-	-	-	1.23	0.85	0.35	7.21	1.35	1.17	0.39	8.45	1.53	1.49	0.44	10.46	1.79	1.78	0.51	13.58
	4	15	0.46	0.46	0.1	0.75	0.79	0.79	0.17	1.31	1.08	1.08	0.23	2.83	1.38	1.38	0.3	5.23	1.68	1.68	0.36	7.47
		17	0.46	0.46	0.1	0.75	0.79	0.79	0.17	1.32	1.08	1.08	0.23	2.84	1.38	1.38	0.3	5.25	1.68	1.68	0.36	7.49
		19	-	-	-	-	0.8	0.78	0.17	1.34	1.08	1.08	0.23	2.85	1.38	1.38	0.3	5.27	1.68	1.68	0.36	7.52
		20	-	-	-	-	0.92	0.73	0.2	1.85	1.13	1.06	0.24	3.23	1.39	1.38	0.3	5.31	1.69	1.69	0.36	7.53
	5	15	0.31	0.31	0.05	0.39	0.67	0.67	0.11	0.85	0.99	0.99	0.17	1.32	1.27	1.27	0.22	2.47	1.56	1.56	0.27	4.26
		17	0.31	0.31	0.05	0.39	0.67	0.67	0.12	0.85	0.99	0.99	0.17	1.32	1.28	1.28	0.22	2.48	1.57	1.57	0.27	4.27
		19	-	-	-	-	0.67	0.67	0.12	0.85	0.99	0.99	0.17	1.33	1.28	1.28	0.22	2.5	1.57	1.57	0.27	4.29
		20	-	-	-	-	0.71	0.63	0.12	0.91	1.01	0.98	0.17	1.37	1.28	1.27	0.22	2.49	1.57	1.57	0.27	4.3
	6	15	-	-	-	-	0.52	0.52	0.08	0.54	0.86	0.86	0.12	0.91	1.18	1.18	0.17	1.31	1.46	1.46	0.21	2.22
		17	-	-	-	-	0.52	0.52	0.08	0.55	0.87	0.87	0.12	0.91	1.18	1.18	0.17	1.31	1.47	1.47	0.21	2.23
		19	-	-	-	-	0.52	0.52	0.08	0.55	0.87	0.87	0.12	0.91	1.18	1.18	0.17	1.32	1.47	1.47	0.21	2.24
		20	-	-	-	-	0.53	0.52	0.08	0.55	0.87	0.87	0.12	0.91	1.18	1.18	0.17	1.32	1.47	1.47	0.21	2.25

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

Heating Capacity Table

MDVF-300D304FF													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
°C	°C	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa
40	8	1.79	0.19	5.06	1.59	0.17	4.08	1.38	0.15	3.19	1.16	0.13	2.39
	10	1.61	0.14	2.88	1.39	0.12	2.24	1.17	0.1	1.63	0.95	0.08	1
	12	1.4	0.1	1.62	1.18	0.09	1.08	0.99	0.07	0.66	0.79	0.06	0.41
	14	1.21	0.07	0.74	1.02	0.06	0.49	0.8	0.05	0.36	0.57	0.04	0.26
	16	1.04	0.06	0.42	0.82	0.04	0.33	0.58	0.03	0.24	0.33	0.02	0.14
45	8	2.34	0.25	7.71	2.13	0.23	6.56	1.92	0.21	5.49	1.71	0.18	4.5
	10	2.17	0.19	4.64	1.96	0.17	3.89	1.74	0.15	3.19	1.53	0.13	2.55
	12	1.99	0.14	2.95	1.77	0.13	2.42	1.55	0.11	1.93	1.32	0.09	1.45
	14	1.78	0.11	1.89	1.55	0.1	1.46	1.33	0.08	1.02	1.13	0.07	0.66
	16	1.56	0.08	1.08	1.36	0.07	0.75	1.16	0.06	0.5	0.95	0.05	0.35
50	8	2.87	0.31	10.75	2.66	0.29	9.42	2.45	0.26	8.17	2.24	0.24	7.01
	10	2.71	0.23	6.67	2.5	0.22	5.8	2.29	0.2	4.98	2.08	0.18	4.22
	12	2.54	0.18	4.37	2.33	0.17	3.76	2.11	0.15	3.18	1.9	0.14	2.65
	14	2.36	0.15	2.97	2.14	0.13	2.52	1.92	0.12	2.1	1.7	0.1	1.7
	16	2.17	0.12	2.06	1.94	0.1	1.71	1.71	0.09	1.36	1.48	0.08	1
55	8	3.4	0.37	14.14	3.19	0.34	12.64	2.98	0.32	11.23	2.77	0.3	9.89
	10	3.25	0.28	8.92	3.03	0.26	7.94	2.83	0.24	7.01	2.62	0.23	6.13
	12	3.09	0.22	5.96	2.88	0.21	5.27	2.65	0.19	4.62	2.45	0.18	4
	14	2.92	0.18	4.19	2.71	0.17	3.67	2.49	0.15	3.19	2.28	0.14	2.73
	16	2.74	0.15	3	2.52	0.14	2.6	2.3	0.12	2.23	2.08	0.11	1.88
60	8	3.93	0.42	17.93	3.72	0.4	16.3	3.51	0.38	14.71	3.3	0.36	13.14
	10	3.78	0.33	11.34	3.57	0.31	10.26	3.36	0.29	9.22	3.15	0.27	8.24
	12	3.63	0.26	7.74	3.41	0.25	6.97	3.2	0.23	6.24	2.99	0.22	5.55
	14	3.47	0.21	5.49	3.25	0.2	4.92	3.03	0.19	4.38	2.83	0.17	3.86
	16	3.3	0.18	4.04	3.09	0.17	3.59	2.87	0.15	3.17	2.65	0.14	2.77

Abbreviations:

Δt : Temperature Difference. (°C) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

4-Pipe Duct MDVF-FF Series



Cooling Capacity Table

MDVF-400D304FF																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	3	15	3.5	2.63	1	31.18	3.47	3	0.99	30.85	3.53	3.37	1.01	31.8	3.75	3.74	1.07	35.16	4.1	4.1	1.18	41.34	
		17	4.62	2.66	1.33	50.9	4.58	3.02	1.32	50.39	4.55	3.38	1.31	49.75	4.52	3.73	1.3	49.12	4.5	4.09	1.3	48.83	
		19	-	-	-	-	5.77	3.04	1.67	75.24	5.72	3.4	1.65	74.32	5.68	3.75	1.64	73.41	5.64	4.1	1.63	72.51	
		20	-	-	-	-	6.39	3.04	1.85	90.17	6.34	3.4	1.83	88.77	6.3	3.76	1.82	87.95	6.25	4.11	1.79	85.64	
	4	15	3.1	2.45	0.66	15.48	3.16	2.83	0.68	15.95	3.32	3.23	0.71	17.51	3.61	3.61	0.78	20.22	3.96	3.96	0.85	23.54	
		17	4.26	2.49	0.91	26.58	4.23	2.85	0.91	26.24	4.19	3.21	0.9	25.9	4.18	3.57	0.9	25.73	4.23	3.94	0.91	26.31	
		19	-	-	-	-	5.43	2.88	1.17	40.49	5.4	3.24	1.16	40	5.36	3.6	1.15	39.7	5.32	3.95	1.15	39.25	
		20	-	-	-	-	6.07	2.89	1.3	49	6.02	3.25	1.29	48.41	5.98	3.61	1.28	47.83	5.94	3.96	1.28	47.26	
	5	15	2.69	2.25	0.46	7.95	2.85	2.66	0.49	9.01	3.1	3.07	0.53	10.55	3.45	3.45	0.59	12.67	3.82	3.82	0.66	15.16	
		17	3.86	2.3	0.66	15.4	3.83	2.67	0.66	15.2	3.81	3.04	0.66	15.06	3.86	3.41	0.67	15.43	3.99	3.8	0.69	16.32	
		19	-	-	-	-	5.06	2.71	0.87	24.33	5.03	3.07	0.86	24.03	4.99	3.43	0.86	23.74	4.96	3.78	0.85	23.44	
		20	-	-	-	-	5.72	2.73	0.99	30.21	5.68	3.09	0.98	29.84	5.64	3.45	0.97	29.48	5.6	3.81	0.97	29.14	
	6	15	2.42	2.1	0.35	3.78	2.63	2.51	0.38	4.74	2.91	2.91	0.42	6.23	3.28	3.28	0.47	8.28	3.65	3.65	0.52	10.23	
		17	3.36	2.08	0.48	8.69	3.33	2.45	0.48	8.57	3.4	2.84	0.49	8.91	3.54	3.24	0.51	9.65	3.75	3.64	0.54	10.69	
		19	-	-	-	-	4.66	2.53	0.67	15.47	4.62	2.89	0.66	15.27	4.58	3.25	0.66	15.08	4.56	3.61	0.66	14.96	
		20	-	-	-	-	5.31	2.55	0.76	19.27	5.27	2.91	0.75	19.04	5.24	3.27	0.75	18.8	5.2	3.63	0.74	18.57	
7	3	15	2.67	2.25	0.77	19.65	2.77	2.64	0.8	20.89	3.02	3.01	0.87	23.95	3.38	3.38	0.98	29.52	3.74	3.74	1.08	35.09	
		17	3.79	2.27	1.1	35.92	3.76	2.64	1.09	35.43	3.73	3	1.08	34.95	3.73	3.36	1.08	35.01	3.83	3.73	1.11	36.6	
		19	-	-	-	-	4.95	2.66	1.43	56.79	4.91	3.02	1.41	55.64	4.88	3.37	1.4	54.95	4.84	3.73	1.39	54.26	
		20	-	-	-	-	5.58	2.67	1.62	70.51	5.54	3.03	1.6	69.11	5.5	3.39	1.59	68.26	5.46	3.74	1.58	67.42	
	4	15	2.32	2.07	0.5	9.33	2.54	2.48	0.55	10.91	2.87	2.87	0.62	13.55	3.24	3.24	0.7	16.57	3.6	3.6	0.77	19.73	
		17	3.39	2.09	0.73	17.76	3.36	2.46	0.72	17.5	3.37	2.83	0.72	17.56	3.46	3.21	0.74	18.39	3.64	3.6	0.78	20.12	
		19	-	-	-	-	4.6	2.5	0.99	30.29	4.56	2.86	0.99	29.9	4.53	3.22	0.98	29.52	4.5	3.58	0.97	29.14	
		20	-	-	-	-	5.23	2.51	1.13	37.46	5.19	2.87	1.12	36.99	5.15	3.23	1.11	36.53	5.12	3.59	1.1	36.07	
	5	15	2.05	1.91	0.35	4.1	2.33	2.32	0.4	5.77	2.7	2.7	0.46	8.14	3.08	3.08	0.53	10.33	3.45	3.45	0.59	12.51	
		17	2.9	1.88	0.5	9.26	2.9	2.26	0.5	9.29	3.01	2.66	0.52	9.93	3.2	3.06	0.55	11.01	3.46	3.46	0.6	12.59	
		19	-	-	-	-	4.18	2.32	0.72	17.36	4.15	2.68	0.72	17.15	4.15	3.07	0.72	23.1	4.12	3.41	0.71	16.96	
		20	-	-	-	-	4.84	2.34	0.83	22.23	4.8	2.71	0.83	21.95	4.77	3.07	0.82	21.67	4.73	3.42	0.81	21.4	
	6	15	1.88	1.8	0.27	2.1	2.19	2.19	0.32	3.06	2.55	2.55	0.37	4.55	2.91	2.91	0.42	6.43	3.29	3.29	0.47	8.35	
		17	2.42	1.68	0.35	4.02	2.52	2.08	0.36	4.46	2.71	2.49	0.39	5.39	2.97	2.9	0.43	6.71	3.29	3.29	0.47	8.38	
		19	-	-	-	-	3.69	2.11	0.53	10.19	3.65	2.48	0.52	10.04	3.67	2.85	0.53	10.1	3.76	3.24	0.54	10.55	
		20	-	-	-	-	4.4	2.15	0.63	13.84	4.36	2.52	0.63	13.66	4.33	2.88	0.62	13.48	4.3	3.24	0.62	13.34	



(Continued)

MDVF-400D304FF																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
9	3	15	1.94	1.88	0.56	11.13	2.27	2.27	0.65	14.56	2.65	2.65	0.76	18.85	3.01	3.01	0.86	23.53	3.37	3.37	0.98	28.96	
		17	2.88	1.87	0.83	21.8	2.86	2.24	0.82	21.48	2.91	2.62	0.83	22.11	3.06	3.01	0.88	24.17	3.38	3.38	0.98	29.05	
		19	-	-	-	-	4.07	2.27	1.17	39.62	4.04	2.64	1.16	39.09	4.01	3	1.15	38.57	3.98	3.35	1.15	38.11	
		20	-	-	-	-	4.71	2.28	1.36	51.11	4.68	2.65	1.36	51.04	4.64	3.01	1.35	50.38	4.61	3.37	1.34	49.74	
	4	15	1.73	1.72	0.37	4.89	2.11	2.11	0.45	7.77	2.49	2.49	0.54	10.4	2.87	2.87	0.62	13.33	3.23	3.23	0.7	16.21	
		17	2.4	1.67	0.52	9.71	2.46	2.07	0.53	10.16	2.63	2.47	0.57	11.36	2.89	2.87	0.62	13.44	3.24	3.24	0.7	16.25	
		19	-	-	-	-	3.67	2.1	0.79	20.17	3.64	2.47	0.79	19.89	3.62	2.83	0.78	19.66	3.66	3.2	0.79	20.06	
		20	-	-	-	-	4.33	2.12	0.94	26.9	4.3	2.49	0.93	26.55	4.26	2.85	0.92	26.2	4.23	3.21	0.92	25.84	
	5	15	1.59	1.59	0.27	2.18	1.96	1.96	0.34	3.77	2.33	2.33	0.4	5.93	2.71	2.71	0.47	8.15	3.09	3.09	0.53	10.18	
		17	1.94	1.48	0.33	3.7	2.12	1.9	0.37	4.71	2.38	2.31	0.41	6.25	2.71	2.71	0.47	8.17	3.09	3.09	0.53	10.21	
		19	-	-	-	-	3.18	1.9	0.55	10.69	3.16	2.27	0.54	10.55	3.22	2.66	0.55	10.91	3.35	3.05	0.58	11.72	
		20	-	-	-	-	3.88	1.94	0.67	15.04	3.85	2.31	0.66	14.83	3.81	2.67	0.66	14.62	3.82	3.04	0.66	14.65	
	6	15	1.44	1.44	0.21	1.4	1.83	1.83	0.26	1.98	2.19	2.19	0.31	3.15	2.55	2.55	0.37	4.74	2.92	2.92	0.42	6.59	
		17	1.66	1.35	0.24	1.65	1.92	1.78	0.28	2.23	2.21	2.18	0.32	3.22	2.55	2.55	0.37	4.76	2.93	2.93	0.42	6.61	
		19	-	-	-	-	2.58	1.67	0.37	4.94	2.67	2.07	0.38	5.36	2.84	2.48	0.41	6.22	3.07	2.89	0.44	7.3	
		20	-	-	-	-	3.32	1.72	0.48	8.41	3.29	2.09	0.47	8.27	3.31	2.47	0.47	8.35	3.42	2.86	0.49	8.84	
11	3	15	1.5	1.5	0.43	6.92	1.89	1.89	0.54	10.37	2.27	2.27	0.65	14.28	2.64	2.64	0.75	18.31	3.01	3.01	0.86	22.84	
		17	1.88	1.47	0.54	10.25	2.03	1.87	0.58	11.63	2.28	2.28	0.65	14.35	2.65	2.65	0.76	18.36	3.01	3.01	0.86	22.91	
		19	-	-	-	-	3.12	1.88	0.89	24.33	3.09	2.25	0.88	23.96	3.1	2.62	0.88	24.01	3.19	3	0.91	25.26	
		20	-	-	-	-	3.77	1.9	1.08	33.93	3.73	2.26	1.07	33.19	3.7	2.62	1.06	32.73	3.68	2.98	1.05	32.32	
	4	15	1.35	1.35	0.29	2.59	1.73	1.73	0.37	4.96	2.11	2.11	0.45	7.67	2.5	2.5	0.53	10.16	2.87	2.87	0.61	12.87	
		17	1.5	1.29	0.32	3.44	1.76	1.71	0.38	5.24	2.12	2.11	0.45	7.68	2.5	2.5	0.54	10.19	2.87	2.87	0.62	12.9	
		19	-	-	-	-	2.63	1.69	0.56	11.05	2.64	2.07	0.57	11.17	2.76	2.46	0.59	12.07	2.96	2.86	0.63	13.56	
		20	-	-	-	-	3.32	1.72	0.71	16.47	3.29	2.09	0.7	16.23	3.27	2.46	0.7	16.03	3.32	2.83	0.71	16.49	
	5	15	1.22	1.22	0.21	1.36	1.6	1.6	0.27	2.26	1.96	1.96	0.34	3.94	2.34	2.34	0.4	6.08	2.72	2.72	0.47	8.08	
		17	1.29	1.18	0.22	1.45	1.61	1.59	0.28	2.3	1.96	1.96	0.34	3.95	2.34	2.34	0.4	6.11	2.72	2.72	0.47	8.11	
		19	-	-	-	-	2.07	1.48	0.36	4.56	2.23	1.89	0.38	5.51	2.47	2.31	0.43	6.81	2.75	2.72	0.47	8.26	
		20	-	-	-	-	2.77	1.51	0.48	8.31	2.75	1.89	0.47	8.21	2.84	2.28	0.49	8.66	3	2.68	0.52	9.52	
	6	15	1.05	1.05	0.15	0.96	1.45	1.45	0.21	1.34	1.83	1.83	0.26	2.03	2.19	2.19	0.31	3.28	2.56	2.56	0.37	4.92	
		17	1.07	1.03	0.15	0.97	1.46	1.45	0.21	1.34	1.84	1.84	0.26	2.04	2.19	2.19	0.31	3.3	2.56	2.56	0.37	4.94	
		19	-	-	-	-	1.75	1.34	0.25	1.81	1.98	1.76	0.28	2.5	2.25	2.17	0.32	3.53	2.57	2.56	0.37	4.98	
		20	-	-	-	-	2.15	1.29	0.31	3.15	2.26	1.7	0.32	3.6	2.45	2.11	0.35	4.46	2.69	2.52	0.39	5.54	

4-Pipe Duct MDVF-FF Series



(Continued)

MDVF-400D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
13	3	15	1.12	1.12	0.32	3.5	1.51	1.51	0.43	7.02	1.9	1.9	0.54	10.35	2.27	2.27	0.65	13.89	2.64	2.64	0.76	18.21
		17	1.13	1.11	0.33	3.64	1.51	1.51	0.43	7.04	1.9	1.9	0.55	10.38	2.27	2.27	0.65	13.93	2.64	2.64	0.76	18.27
		19	-	-	-	-	2.04	1.47	0.59	11.75	2.14	1.87	0.61	12.58	2.33	2.27	0.66	14.52	2.65	2.64	0.76	18.3
		20	-	-	-	-	2.73	1.5	0.78	19.26	2.7	1.87	0.78	18.92	2.72	2.24	0.78	19.12	2.82	2.63	0.81	20.46
	4	15	0.98	0.98	0.21	1.32	1.35	1.35	0.29	2.74	1.73	1.73	0.37	5.11	2.12	2.12	0.45	7.57	2.5	2.5	0.53	10
		17	0.98	0.98	0.21	1.33	1.36	1.36	0.29	2.75	1.73	1.73	0.37	5.13	2.12	2.12	0.45	7.59	2.5	2.5	0.54	10.03
		19	-	-	-	-	1.58	1.28	0.34	4.13	1.82	1.71	0.39	5.75	2.13	2.12	0.46	7.66	2.5	2.5	0.54	10.06
		20	-	-	-	-	2.13	1.28	0.46	7.65	2.19	1.68	0.47	7.99	2.36	2.08	0.5	9.06	2.58	2.49	0.55	10.58
	5	15	0.81	0.81	0.14	0.85	1.22	1.22	0.21	1.3	1.59	1.59	0.27	2.31	1.96	1.96	0.34	4.03	2.34	2.34	0.4	6.07
		17	0.81	0.81	0.14	0.85	1.22	1.22	0.21	1.3	1.59	1.59	0.27	2.31	1.96	1.96	0.34	4.04	2.34	2.34	0.4	6.09
		19	-	-	-	-	1.33	1.16	0.23	1.48	1.62	1.58	0.28	2.43	1.96	1.96	0.34	4.05	2.35	2.35	0.4	6.11
		20	-	-	-	-	1.59	1.09	0.27	2.33	1.79	1.51	0.31	3.22	2.06	1.93	0.35	4.57	2.37	2.34	0.41	6.21
	6	15	0.62	0.62	0.09	0.53	1.05	1.05	0.15	0.91	1.46	1.46	0.21	1.28	1.83	1.83	0.26	2.07	2.19	2.19	0.31	3.37
		17	0.62	0.62	0.09	0.53	1.05	1.05	0.15	0.91	1.46	1.46	0.21	1.29	1.83	1.83	0.26	2.08	2.19	2.19	0.31	3.38
		19	-	-	-	-	1.09	1.03	0.16	0.94	1.47	1.46	0.21	1.3	1.83	1.83	0.26	2.09	2.19	2.19	0.31	3.4
		20	-	-	-	-	1.25	0.95	0.18	1.07	1.57	1.4	0.22	1.45	1.87	1.81	0.27	2.21	2.2	2.19	0.31	3.41
15	3	15	0.74	0.74	0.21	1.28	1.11	1.11	0.32	3.54	1.51	1.51	0.43	6.82	1.89	1.89	0.54	10.03	2.26	2.26	0.65	13.64
		17	0.74	0.74	0.21	1.29	1.11	1.11	0.32	3.55	1.51	1.51	0.43	6.84	1.89	1.89	0.54	10.06	2.27	2.27	0.65	13.68
		19	-	-	-	-	1.15	1.1	0.33	3.88	1.51	1.5	0.43	6.83	1.9	1.9	0.54	10.09	2.27	2.27	0.65	13.72
		20	-	-	-	-	1.5	1.06	0.43	6.74	1.68	1.48	0.48	8.17	1.93	1.89	0.55	10.38	2.27	2.27	0.65	13.73
	4	15	0.57	0.57	0.12	0.71	0.98	0.98	0.21	1.28	1.35	1.35	0.29	2.79	1.73	1.73	0.37	5.2	2.12	2.12	0.45	7.47
		17	0.57	0.57	0.12	0.71	0.98	0.98	0.21	1.28	1.35	1.35	0.29	2.8	1.73	1.73	0.37	5.22	2.12	2.12	0.45	7.49
		19	-	-	-	-	0.99	0.98	0.21	1.29	1.35	1.35	0.29	2.81	1.74	1.74	0.37	5.24	2.13	2.13	0.46	7.51
		20	-	-	-	-	1.12	0.92	0.24	1.68	1.4	1.33	0.3	3.07	1.74	1.74	0.37	5.25	2.13	2.13	0.46	7.52
	5	15	0.36	0.36	0.06	0.36	0.82	0.82	0.14	0.82	1.22	1.22	0.21	1.28	1.59	1.59	0.27	2.43	1.96	1.96	0.34	4.21
		17	0.36	0.36	0.06	0.36	0.82	0.82	0.14	0.82	1.23	1.23	0.21	1.28	1.59	1.59	0.27	2.44	1.96	1.96	0.34	4.23
		19	-	-	-	-	0.82	0.81	0.14	0.82	1.23	1.23	0.21	1.29	1.6	1.6	0.27	2.45	1.97	1.97	0.34	4.25
		20	-	-	-	-	0.86	0.78	0.15	0.86	1.24	1.22	0.21	1.31	1.6	1.59	0.27	2.44	1.97	1.97	0.34	4.26
	6	15	-	-	-	-	0.63	0.63	0.09	0.51	1.06	1.06	0.15	0.88	1.46	1.46	0.21	1.27	1.83	1.83	0.26	2.17
		17	-	-	-	-	0.63	0.63	0.09	0.51	1.06	1.06	0.15	0.88	1.46	1.46	0.21	1.27	1.83	1.83	0.26	2.18
		19	-	-	-	-	0.63	0.63	0.09	0.51	1.07	1.07	0.15	0.88	1.47	1.47	0.21	1.28	1.83	1.83	0.26	2.19
		20	-	-	-	-	0.63	0.63	0.09	0.52	1.07	1.06	0.15	0.88	1.47	1.47	0.21	1.28	1.83	1.83	0.26	2.2

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

Heating Capacity Table

MDVF-400D304FF													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
°C	°C	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa
40	8	2.18	0.24	8.61	1.92	0.21	6.93	1.67	0.18	5.44	1.41	0.15	4.1
	10	1.96	0.17	4.91	1.7	0.15	3.86	1.44	0.12	2.9	1.16	0.1	1.98
	12	1.72	0.12	2.91	1.44	0.1	2.12	1.18	0.09	1.32	0.95	0.07	0.73
	14	1.46	0.09	1.49	1.22	0.08	0.92	0.98	0.06	0.56	0.71	0.04	0.39
	16	1.26	0.07	0.71	1	0.05	0.5	0.72	0.04	0.36	0.42	0.02	0.21
45	8	2.82	0.3	13.03	2.57	0.28	11.09	2.32	0.25	9.29	2.06	0.22	7.62
	10	2.62	0.23	7.85	2.36	0.2	6.59	2.11	0.18	5.42	1.85	0.16	4.35
	12	2.41	0.17	5.02	2.15	0.15	4.13	1.89	0.14	3.32	1.62	0.12	2.56
	14	2.17	0.13	3.25	1.9	0.12	2.6	1.63	0.1	1.97	1.36	0.08	1.32
	16	1.91	0.1	2.08	1.64	0.09	1.5	1.39	0.08	0.98	1.16	0.06	0.6
50	8	3.45	0.37	18.15	3.2	0.34	15.91	2.95	0.32	13.81	2.7	0.29	11.85
	10	3.26	0.28	11.27	3.01	0.26	9.8	2.76	0.24	8.43	2.51	0.22	7.15
	12	3.06	0.22	7.38	2.81	0.2	6.36	2.55	0.18	5.4	2.3	0.17	4.51
	14	2.85	0.18	5.05	2.6	0.16	4.29	2.34	0.14	3.59	2.07	0.13	2.93
	16	2.63	0.14	3.53	2.37	0.13	2.95	2.1	0.11	2.4	1.82	0.1	1.88
55	8	4.08	0.44	23.89	3.83	0.41	21.48	3.58	0.39	19.08	3.33	0.36	16.82
	10	3.9	0.34	14.99	3.65	0.31	13.34	3.4	0.29	11.84	3.15	0.27	10.36
	12	3.71	0.27	10.06	3.46	0.25	8.9	3.21	0.23	7.81	2.95	0.21	6.78
	14	3.52	0.22	7.07	3.26	0.2	6.21	3.01	0.19	5.4	2.75	0.17	4.64
	16	3.31	0.18	5.08	3.05	0.16	4.42	2.79	0.15	3.79	2.53	0.14	3.21
60	8	4.72	0.51	30.28	4.46	0.48	27.41	4.21	0.45	24.76	3.96	0.43	22.23
	10	4.54	0.39	19.24	4.29	0.37	17.4	4.04	0.35	15.65	3.78	0.33	13.99
	12	4.36	0.31	13.07	4.1	0.3	11.77	3.85	0.28	10.54	3.6	0.26	9.37
	14	4.17	0.26	9.26	3.91	0.24	8.3	3.66	0.23	7.39	3.4	0.21	6.53
	16	3.97	0.21	6.82	3.72	0.2	6.08	3.46	0.19	5.37	3.21	0.17	4.71

Abbreviations:

Δt: Temperature Difference. (°C) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

4-Pipe Duct MDVF-FF Series



Cooling Capacity Table

MDVF-500D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
5	3	15	4.19	3.17	1.2	42.66	4.17	3.61	1.19	42.28	4.25	4.07	1.22	43.74	4.53	4.53	1.31	49.4	4.96	4.96	1.42	57.17
		17	5.54	3.19	1.59	69.23	5.5	3.63	1.58	68.48	5.47	4.07	1.57	67.74	5.44	4.51	1.57	67.72	5.43	4.95	1.57	67.74
		19	-	-	-	-	6.94	3.66	2.01	104.38	6.9	4.1	2	103.26	6.86	4.53	1.98	101.36	6.82	4.96	1.97	100.73
		20	-	-	-	-	7.7	3.67	2.23	125.29	7.65	4.11	2.22	124	7.6	4.54	2.2	121.8	7.56	4.97	2.18	120.58
	4	15	3.74	2.95	0.81	21.43	3.8	3.42	0.82	22.09	3.99	3.9	0.86	23.8	4.35	4.35	0.93	27.65	4.79	4.79	1.03	32.62
		17	5.11	2.99	1.1	36.43	5.08	3.44	1.09	36.04	5.05	3.88	1.08	35.65	5.03	4.32	1.08	35.45	5.1	4.77	1.1	36.34
		19	-	-	-	-	6.54	3.47	1.41	56.03	6.5	3.91	1.4	55.45	6.46	4.35	1.39	54.87	6.42	4.78	1.38	54.3
		20	-	-	-	-	7.3	3.48	1.57	67.53	7.25	3.92	1.56	66.84	7.21	4.36	1.55	66.16	7.17	4.79	1.54	65.48
	5	15	3.24	2.72	0.56	11.38	3.44	3.21	0.59	12.59	3.74	3.71	0.64	14.54	4.17	4.17	0.72	17.63	4.62	4.62	0.79	20.88
		17	4.63	2.77	0.79	20.85	4.61	3.22	0.79	20.84	4.59	3.67	0.79	20.67	4.64	4.12	0.8	20.98	4.81	4.59	0.83	22.28
		19	-	-	-	-	6.1	3.27	1.05	33.74	6.06	3.71	1.05	33.39	6.03	4.15	1.04	33.04	5.99	4.58	1.03	32.69
		20	-	-	-	-	6.87	3.28	1.18	41.11	6.83	3.73	1.18	40.85	6.8	4.17	1.17	40.67	6.76	4.6	1.17	40.25
	6	15	2.83	2.5	0.4	5.79	3.12	3	0.45	7.39	3.51	3.5	0.5	9.48	3.97	3.97	0.57	11.85	4.43	4.43	0.64	14.23
		17	4.07	2.52	0.58	12.29	4.04	2.97	0.58	12.15	4.12	3.44	0.59	12.54	4.29	3.92	0.62	13.45	4.54	4.41	0.65	14.83
		19	-	-	-	-	5.6	3.04	0.8	21.03	5.56	3.49	0.8	20.8	5.53	3.92	0.79	20.58	5.5	4.36	0.79	20.44
		20	-	-	-	-	6.39	3.07	0.91	26.41	6.35	3.51	0.91	26.14	6.31	3.95	0.9	25.87	6.28	4.39	0.9	25.6
7	3	15	3.19	2.7	0.92	26.33	3.33	3.18	0.96	28.65	3.64	3.64	1.05	33.53	4.09	4.09	1.18	40.87	4.52	4.52	1.3	48.12
		17	4.54	2.73	1.31	48.63	4.51	3.17	1.3	47.96	4.49	3.62	1.3	47.91	4.49	4.06	1.29	47.59	4.62	4.52	1.34	50.72
		19	-	-	-	-	5.95	3.2	1.72	77.89	5.92	3.64	1.7	77.03	5.88	4.08	1.69	76.18	5.84	4.51	1.68	75.35
		20	-	-	-	-	6.72	3.21	1.95	97.67	6.68	3.65	1.94	96.62	6.63	4.09	1.91	94.17	6.59	4.52	1.9	93.19
	4	15	2.79	2.5	0.6	12.88	3.06	3	0.66	15.06	3.46	3.46	0.74	18.45	3.91	3.91	0.84	22.74	4.35	4.35	0.94	27.31
		17	4.07	2.52	0.87	24.26	4.04	2.96	0.87	23.97	4.05	3.42	0.87	24.05	4.16	3.88	0.9	25.29	4.4	4.35	0.95	27.79
		19	-	-	-	-	5.52	3.01	1.2	41.55	5.49	3.45	1.19	41.1	5.46	3.89	1.18	40.66	5.42	4.32	1.17	40.18
		20	-	-	-	-	6.3	3.02	1.36	52.14	6.26	3.47	1.36	51.58	6.22	3.91	1.35	51.03	6.18	4.34	1.34	50.49
	5	15	2.42	2.28	0.42	6.35	2.8	2.79	0.48	8.72	3.27	3.27	0.56	11.39	3.73	3.73	0.64	14.25	4.18	4.18	0.72	17.36
		17	3.5	2.27	0.6	12.75	3.5	2.73	0.6	12.78	3.64	3.21	0.63	13.64	3.87	3.7	0.67	15.19	4.19	4.18	0.72	17.39
		19	-	-	-	-	5.02	2.79	0.86	23.68	4.99	3.24	0.86	23.43	4.97	3.69	0.86	29.48	4.97	4.12	0.85	23.23
		20	-	-	-	-	5.83	2.82	1.01	30.78	5.79	3.26	1	30.45	5.75	3.71	0.99	30.13	5.72	4.14	0.99	29.8
	6	15	2.2	2.13	0.32	3.08	2.59	2.59	0.37	4.76	3.05	3.05	0.44	7.15	3.52	3.52	0.5	9.46	3.98	3.98	0.57	11.66
		17	2.82	1.99	0.4	5.96	2.98	2.49	0.43	6.82	3.25	3	0.47	8.16	3.58	3.51	0.51	9.74	3.99	3.99	0.57	11.69
		19	-	-	-	-	4.46	2.55	0.64	14.1	4.43	3	0.64	13.95	4.43	3.45	0.64	13.99	4.54	3.92	0.65	14.54
		20	-	-	-	-	5.28	2.59	0.76	18.88	5.25	3.04	0.75	18.66	5.22	3.48	0.75	18.46	5.19	3.92	0.75	18.3



(Continued)

MDVF-500D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
9	3	15	2.34	2.26	0.67	15.28	2.74	2.74	0.79	19.97	3.19	3.19	0.92	25.99	3.64	3.64	1.04	32.56	4.08	4.08	1.17	39.67
		17	3.47	2.26	1	30.32	3.44	2.71	1	29.92	3.5	3.17	1.01	30.82	3.69	3.64	1.06	33.35	4.08	4.08	1.17	39.79
		19	-	-	-	-	4.89	2.73	1.41	54.49	4.86	3.18	1.4	53.86	4.83	3.62	1.39	53.24	4.8	4.05	1.38	52.7
		20	-	-	-	-	5.67	2.75	1.64	71.15	5.62	3.19	1.62	69.5	5.59	3.63	1.61	68.73	5.55	4.07	1.6	67.97
	4	15	2.07	2.06	0.45	7.49	2.54	2.54	0.55	10.75	3.01	3.01	0.65	14.31	3.47	3.47	0.75	18.29	3.91	3.91	0.84	22.5
		17	2.9	2.02	0.63	13.53	2.97	2.5	0.64	13.99	3.17	2.99	0.68	15.59	3.48	3.47	0.75	18.41	3.92	3.92	0.85	22.56
		19	-	-	-	-	4.41	2.53	0.96	27.78	4.38	2.98	0.95	27.46	4.36	3.42	0.94	27.17	4.41	3.88	0.96	27.77
		20	-	-	-	-	5.19	2.55	1.12	36.42	5.16	3	1.11	36.01	5.12	3.44	1.1	35.61	5.09	3.87	1.1	35.19
	5	15	1.87	1.87	0.32	3.35	2.33	2.33	0.4	5.95	2.81	2.81	0.48	8.68	3.28	3.28	0.56	11.27	3.74	3.74	0.65	14.16
		17	2.27	1.76	0.39	5.6	2.53	2.28	0.44	7.16	2.87	2.8	0.49	9	3.28	3.28	0.56	11.29	3.74	3.74	0.65	14.2
		19	-	-	-	-	3.84	2.3	0.66	14.75	3.81	2.75	0.66	14.57	3.88	3.22	0.67	15.06	4.05	3.69	0.7	16.12
		20	-	-	-	-	4.65	2.33	0.8	20.45	4.62	2.78	0.8	20.22	4.59	3.22	0.79	19.97	4.6	3.67	0.79	20.03
	6	15	1.71	1.71	0.24	1.73	2.15	2.15	0.31	3.01	2.6	2.6	0.37	4.99	3.07	3.07	0.44	7.29	3.54	3.54	0.51	9.39
		17	1.93	1.6	0.28	2.25	2.24	2.1	0.32	3.36	2.61	2.6	0.37	5.07	3.07	3.07	0.44	7.32	3.54	3.54	0.51	9.41
		19	-	-	-	-	3.1	2.02	0.44	7.43	3.21	2.5	0.46	7.94	3.44	3.01	0.49	8.92	3.72	3.51	0.53	10.2
		20	-	-	-	-	4.02	2.08	0.58	11.6	3.98	2.53	0.57	11.44	4	2.99	0.57	11.53	4.13	3.47	0.59	12.19
11	3	15	1.81	1.81	0.52	9.59	2.28	2.28	0.65	14.37	2.74	2.74	0.78	19.49	3.19	3.19	0.91	25.31	3.63	3.63	1.04	31.66
		17	2.27	1.77	0.65	14.2	2.43	2.26	0.69	15.89	2.75	2.75	0.78	19.57	3.2	3.2	0.91	25.38	3.64	3.64	1.04	31.75
		19	-	-	-	-	3.74	2.26	1.07	33.25	3.71	2.71	1.06	32.81	3.72	3.16	1.06	32.92	3.84	3.62	1.1	35.08
		20	-	-	-	-	4.52	2.28	1.29	46.19	4.49	2.72	1.28	45.65	4.46	3.17	1.27	45.11	4.43	3.61	1.27	44.6
	4	15	1.6	1.6	0.34	4.06	2.08	2.08	0.44	7.42	2.55	2.55	0.55	10.56	3.02	3.02	0.65	14.01	3.47	3.47	0.74	17.78
		17	1.76	1.54	0.38	5.25	2.12	2.07	0.45	7.71	2.56	2.55	0.55	10.57	3.02	3.02	0.65	14.05	3.47	3.47	0.74	17.83
		19	-	-	-	-	3.16	2.04	0.68	15.12	3.18	2.5	0.68	15.29	3.33	2.98	0.71	16.55	3.57	3.46	0.76	18.68
		20	-	-	-	-	3.98	2.07	0.85	22.51	3.95	2.52	0.85	22.24	3.93	2.97	0.84	21.99	4	3.42	0.86	22.66
	5	15	1.44	1.44	0.25	1.75	1.88	1.88	0.32	3.53	2.35	2.35	0.4	6.15	2.83	2.83	0.49	8.63	3.29	3.29	0.57	11.16
		17	1.51	1.39	0.26	1.95	1.89	1.88	0.32	3.57	2.35	2.35	0.4	6.17	2.83	2.83	0.49	8.65	3.29	3.29	0.57	11.19
		19	-	-	-	-	2.47	1.78	0.43	6.82	2.69	2.29	0.46	7.94	2.98	2.8	0.51	9.46	3.33	3.29	0.57	11.4
		20	-	-	-	-	3.34	1.83	0.58	11.43	3.32	2.28	0.57	11.29	3.42	2.76	0.59	11.9	3.61	3.24	0.62	12.96
	6	15	1.24	1.24	0.18	1.13	1.72	1.72	0.25	1.75	2.16	2.16	0.31	3.17	2.61	2.61	0.37	5.14	3.08	3.08	0.44	7.27
		17	1.25	1.22	0.18	1.14	1.72	1.72	0.25	1.75	2.16	2.16	0.31	3.18	2.61	2.61	0.37	5.16	3.09	3.09	0.44	7.29
		19	-	-	-	-	2.01	1.58	0.29	2.61	2.31	2.09	0.33	3.81	2.67	2.59	0.38	5.43	3.1	3.09	0.44	7.32
		20	-	-	-	-	2.5	1.53	0.36	4.7	2.65	2.02	0.38	5.37	2.93	2.54	0.42	6.62	3.26	3.05	0.47	7.97

(Continued)

MDVF-500D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
13	3	15	1.33	1.33	0.38	5.47	1.82	1.82	0.52	9.64	2.28	2.28	0.65	14.02	2.74	2.74	0.79	19.45	3.19	3.19	0.92	25.22
		17	1.35	1.33	0.39	5.63	1.82	1.82	0.52	9.66	2.29	2.29	0.65	14.06	2.75	2.75	0.79	19.5	3.19	3.19	0.92	25.29
		19	-	-	-	-	2.45	1.77	0.7	16.04	2.57	2.25	0.74	17.4	2.81	2.74	0.81	20.28	3.2	3.19	0.92	25.34
		20	-	-	-	-	3.27	1.8	0.94	26.26	3.24	2.25	0.93	25.86	3.26	2.71	0.94	26.18	3.39	3.17	0.97	27.74
	4	15	1.16	1.16	0.25	1.79	1.61	1.61	0.35	4.32	2.09	2.09	0.45	7.38	2.56	2.56	0.55	10.43	3.02	3.02	0.65	13.81
		17	1.15	1.15	0.25	1.79	1.61	1.61	0.35	4.34	2.09	2.09	0.45	7.4	2.56	2.56	0.55	10.46	3.02	3.02	0.65	13.85
		19	-	-	-	-	1.87	1.54	0.4	6.06	2.2	2.06	0.47	8.06	2.57	2.56	0.55	10.54	3.03	3.03	0.65	13.89
		20	-	-	-	-	2.58	1.55	0.55	10.53	2.64	2.03	0.56	10.94	2.84	2.52	0.61	12.42	3.12	3.01	0.67	14.75
	5	15	0.95	0.95	0.16	1	1.44	1.44	0.25	1.77	1.88	1.88	0.32	3.64	2.35	2.35	0.4	6.16	2.83	2.83	0.49	8.46
		17	0.95	0.95	0.16	1	1.44	1.44	0.25	1.77	1.88	1.88	0.32	3.65	2.36	2.36	0.4	6.17	2.83	2.83	0.49	8.48
		19	-	-	-	-	1.54	1.37	0.26	2.11	1.91	1.87	0.33	3.78	2.36	2.36	0.4	6.18	2.84	2.84	0.49	8.51
		20	-	-	-	-	1.83	1.29	0.31	3.42	2.12	1.81	0.36	4.92	2.48	2.33	0.43	6.74	2.86	2.83	0.49	8.63
	6	15	0.72	0.72	0.1	0.62	1.24	1.24	0.18	1.07	1.72	1.72	0.25	1.77	2.16	2.16	0.31	3.27	2.62	2.62	0.38	5.3
		17	0.72	0.72	0.1	0.62	1.25	1.25	0.18	1.07	1.72	1.72	0.25	1.78	2.16	2.16	0.31	3.28	2.63	2.63	0.38	5.31
		19	-	-	-	-	1.28	1.22	0.18	1.1	1.73	1.72	0.25	1.79	2.17	2.17	0.31	3.29	2.63	2.63	0.38	5.33
		20	-	-	-	-	1.45	1.13	0.21	1.27	1.83	1.65	0.26	2.08	2.2	2.15	0.31	3.44	2.63	2.63	0.38	5.34
15	3	15	0.87	0.87	0.25	1.8	1.33	1.33	0.38	5.47	1.82	1.82	0.52	9.38	2.28	2.28	0.65	13.83	2.74	2.74	0.79	19.13
		17	0.87	0.87	0.25	1.8	1.33	1.33	0.38	5.48	1.82	1.82	0.52	9.4	2.29	2.29	0.65	13.87	2.74	2.74	0.79	19.19
		19	-	-	-	-	1.38	1.32	0.39	5.85	1.82	1.81	0.52	9.39	2.29	2.29	0.65	13.91	2.75	2.75	0.79	19.25
		20	-	-	-	-	1.8	1.29	0.51	9.24	2.02	1.79	0.58	11.18	2.33	2.29	0.67	14.5	2.75	2.75	0.79	19.26
	4	15	0.66	0.66	0.14	0.84	1.15	1.15	0.25	1.81	1.61	1.61	0.34	4.4	2.09	2.09	0.45	7.31	2.57	2.57	0.55	10.42
		17	0.67	0.67	0.14	0.84	1.15	1.15	0.25	1.82	1.61	1.61	0.35	4.42	2.1	2.1	0.45	7.33	2.57	2.57	0.55	10.45
		19	-	-	-	-	1.16	1.15	0.25	1.84	1.61	1.61	0.35	4.44	2.1	2.1	0.45	7.35	2.57	2.57	0.55	10.48
		20	-	-	-	-	1.29	1.08	0.28	2.46	1.66	1.59	0.36	4.75	2.1	2.1	0.45	7.36	2.58	2.58	0.56	10.5
	5	15	0.42	0.42	0.07	0.41	0.96	0.96	0.17	0.97	1.44	1.44	0.25	1.86	1.89	1.89	0.33	3.85	2.37	2.37	0.41	6.22
		17	0.42	0.42	0.07	0.41	0.97	0.97	0.17	0.97	1.44	1.44	0.25	1.86	1.89	1.89	0.33	3.86	2.37	2.37	0.41	6.23
		19	-	-	-	-	0.97	0.96	0.17	0.97	1.45	1.45	0.25	1.87	1.9	1.9	0.33	3.88	2.38	2.38	0.41	6.25
		20	-	-	-	-	1.01	0.93	0.17	1.01	1.45	1.44	0.25	1.9	1.9	1.89	0.33	3.88	2.38	2.38	0.41	6.26
	6	15	-	-	-	-	0.74	0.74	0.11	0.6	1.26	1.26	0.18	1.04	1.72	1.72	0.25	1.86	2.17	2.17	0.31	3.45
		17	-	-	-	-	0.74	0.74	0.11	0.6	1.26	1.26	0.18	1.04	1.73	1.73	0.25	1.87	2.17	2.17	0.31	3.46
		19	-	-	-	-	0.74	0.74	0.11	0.6	1.26	1.26	0.18	1.04	1.73	1.73	0.25	1.87	2.17	2.17	0.31	3.48
		20	-	-	-	-	0.74	0.73	0.11	0.6	1.26	1.26	0.18	1.04	1.73	1.73	0.25	1.88	2.18	2.18	0.31	3.49

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

Heating Capacity Table

MDVF-500D304FF													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
°C	°C	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa
40	8	2.59	0.28	11.58	2.29	0.25	9.38	1.99	0.21	7.34	1.69	0.18	5.55
	10	2.34	0.2	6.63	2.03	0.18	5.23	1.73	0.15	3.96	1.41	0.12	2.8
	12	2.07	0.15	3.98	1.75	0.13	3	1.42	0.1	2.05	1.11	0.08	1.12
	14	1.75	0.11	2.27	1.44	0.09	1.43	1.16	0.07	0.8	0.85	0.05	0.47
	16	1.48	0.08	1.06	1.19	0.06	0.64	0.87	0.05	0.44	0.51	0.03	0.26
45	8	3.34	0.36	17.49	3.04	0.33	14.98	2.75	0.3	12.48	2.45	0.26	10.25
	10	3.11	0.27	10.55	2.81	0.24	8.87	2.51	0.22	7.31	2.21	0.19	5.87
	12	2.86	0.21	6.76	2.56	0.18	5.59	2.26	0.16	4.5	1.95	0.14	3.5
	14	2.6	0.16	4.42	2.29	0.14	3.55	1.97	0.12	2.76	1.64	0.1	2
	16	2.31	0.12	2.91	1.98	0.11	2.23	1.65	0.09	1.52	1.36	0.07	0.91
50	8	4.09	0.44	24.48	3.79	0.41	21.47	3.49	0.38	18.54	3.2	0.34	15.91
	10	3.87	0.33	15.12	3.57	0.31	13.16	3.27	0.28	11.33	2.98	0.26	9.61
	12	3.63	0.26	9.92	3.33	0.24	8.55	3.04	0.22	7.27	2.74	0.2	6.08
	14	3.39	0.21	6.79	3.09	0.19	5.79	2.79	0.17	4.85	2.48	0.15	3.97
	16	3.14	0.17	4.75	2.83	0.15	4	2.52	0.14	3.28	2.2	0.12	2.6
55	8	4.83	0.52	32.06	4.54	0.49	28.68	4.24	0.46	25.49	3.95	0.43	22.59
	10	4.62	0.4	20.11	4.32	0.37	17.91	4.02	0.35	15.82	3.73	0.32	13.85
	12	4.39	0.32	13.5	4.1	0.29	11.95	3.8	0.27	10.48	3.5	0.25	9.1
	14	4.17	0.26	9.5	3.87	0.24	8.35	3.57	0.22	7.26	3.27	0.2	6.24
	16	3.93	0.21	6.85	3.63	0.2	5.97	3.32	0.18	5.12	3.02	0.16	4.34
60	8	5.58	0.6	40.55	5.28	0.57	36.9	4.98	0.54	33.42	4.69	0.51	29.94
	10	5.37	0.46	25.81	5.07	0.44	23.36	4.77	0.41	21.01	4.48	0.39	18.79
	12	5.15	0.37	17.46	4.86	0.35	15.8	4.56	0.33	14.15	4.26	0.31	12.58
	14	4.93	0.3	12.42	4.63	0.29	11.14	4.33	0.27	9.93	4.04	0.25	8.77
	16	4.71	0.25	9.15	4.41	0.24	8.16	4.11	0.22	7.22	3.81	0.21	6.33

Abbreviations:

Δt: Temperature Difference. (°C) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

4-Pipe Duct MDVF-FF Series



Cooling Capacity Table

MDVF-600D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
5	3	15	4.73	3.57	1.35	59.56	4.7	4.08	1.35	58.99	4.8	4.6	1.39	61.93	5.11	5.11	1.46	68.24	5.6	5.6	1.61	80.22
		17	6.24	3.59	1.79	96.85	6.21	4.1	1.78	95.9	6.17	4.6	1.77	94.96	6.14	5.09	1.76	94	6.12	5.59	1.76	93.75
		19	-	-	-	-	7.82	4.12	2.26	144.67	7.79	4.62	2.26	144.64	7.75	5.12	2.25	144.02	7.7	5.61	2.23	141.34
		20	-	-	-	-	8.68	4.13	2.5	173.17	8.63	4.63	2.49	171.54	8.58	5.12	2.48	169.88	8.54	5.62	2.46	168.32
	4	15	4.22	3.33	0.9	29.59	4.28	3.86	0.92	30.38	4.5	4.4	0.97	33.14	4.92	4.92	1.06	38.62	5.41	5.41	1.16	45.62
		17	5.77	3.37	1.24	50.85	5.74	3.88	1.23	50.36	5.7	4.38	1.22	49.86	5.68	4.88	1.22	49.5	5.76	5.39	1.24	50.69
		19	-	-	-	-	7.37	3.91	1.59	77.88	7.33	4.41	1.58	77.12	7.29	4.91	1.57	76.76	7.26	5.4	1.57	76.55
		20	-	-	-	-	8.23	3.92	1.77	94.52	8.19	4.42	1.76	93.61	8.14	4.92	1.75	92.73	8.11	5.42	1.75	92.7
	5	15	3.69	3.08	0.64	16.18	3.9	3.64	0.67	17.77	4.23	4.19	0.73	20.46	4.71	4.71	0.81	24.36	5.22	5.22	0.9	29.25
		17	5.25	3.13	0.9	29.5	5.22	3.64	0.9	29.2	5.19	4.15	0.89	28.91	5.25	4.66	0.91	29.56	5.43	5.19	0.94	31.35
		19	-	-	-	-	6.88	3.68	1.18	46.69	6.84	4.19	1.18	46.24	6.8	4.68	1.17	45.8	6.76	5.18	1.16	45.35
		20	-	-	-	-	7.76	3.7	1.34	57.73	7.72	4.21	1.33	57.19	7.67	4.71	1.32	56.65	7.63	5.2	1.31	55.85
	6	15	3.19	2.82	0.46	8.82	3.53	3.4	0.51	10.89	3.97	3.97	0.57	13.41	4.5	4.5	0.65	16.53	5	5	0.72	19.72
		17	4.63	2.86	0.66	17.21	4.59	3.37	0.66	17	4.66	3.89	0.67	17.41	4.84	4.44	0.69	18.63	5.13	4.99	0.73	20.55
		19	-	-	-	-	6.35	3.45	0.91	29.72	6.31	3.95	0.91	29.43	6.27	4.45	0.9	29.15	6.24	4.94	0.9	28.89
		20	-	-	-	-	7.22	3.46	1.03	36.94	7.19	3.97	1.03	36.6	7.15	4.47	1.02	36.26	7.11	4.97	1.02	35.91
7	3	15	3.6	3.05	1.04	37.27	3.74	3.58	1.08	39.82	4.11	4.1	1.18	46.18	4.61	4.61	1.33	56.86	5.11	5.11	1.48	67.97
		17	5.13	3.07	1.48	68.34	5.09	3.58	1.47	67.61	5.06	4.08	1.46	66.88	5.07	4.59	1.46	66.97	5.22	5.11	1.51	70.98
		19	-	-	-	-	6.71	3.6	1.94	109.15	6.68	4.11	1.94	109.21	6.64	4.6	1.92	106.95	6.6	5.1	1.91	105.9
		20	-	-	-	-	7.57	3.61	2.19	135.14	7.53	4.12	2.19	134.71	7.5	4.62	2.18	134.52	7.44	5.11	2.15	131.18
	4	15	3.15	2.82	0.68	17.72	3.44	3.38	0.74	20.7	3.91	3.91	0.84	25.7	4.42	4.42	0.96	32.05	4.91	4.91	1.06	38.14
		17	4.6	2.84	1	34.34	4.57	3.35	0.99	33.98	4.57	3.86	0.99	33.94	4.7	4.39	1.02	35.54	4.96	4.91	1.07	38.75
		19	-	-	-	-	6.22	3.38	1.34	57.33	6.19	3.89	1.33	56.76	6.15	4.39	1.33	56.19	6.11	4.88	1.32	55.66
		20	-	-	-	-	7.1	3.4	1.54	72.59	7.06	3.91	1.53	71.89	7.02	4.41	1.52	71.18	6.98	4.9	1.51	70.48
	5	15	2.73	2.58	0.47	9.45	3.17	3.16	0.55	12.25	3.69	3.69	0.64	15.94	4.21	4.21	0.72	19.85	4.72	4.72	0.81	24.12
		17	3.98	2.58	0.68	18.01	3.97	3.09	0.68	17.94	4.11	3.64	0.71	19.03	4.36	4.19	0.75	21.1	4.73	4.72	0.81	24.25
		19	-	-	-	-	5.68	3.15	0.98	33.1	5.64	3.66	0.97	32.77	5.6	4.15	0.95	37.7	5.61	4.66	0.97	32.41
		20	-	-	-	-	6.58	3.18	1.14	42.99	6.54	3.69	1.13	42.57	6.5	4.19	1.12	42.15	6.45	4.68	1.11	41.29
	6	15	2.44	2.37	0.35	4.61	2.91	2.91	0.42	7.28	3.45	3.45	0.49	10.35	3.99	3.99	0.57	13.33	4.51	4.51	0.65	16.3
		17	3.22	2.27	0.46	9.1	3.4	2.83	0.49	10.04	3.69	3.41	0.53	11.59	4.07	3.98	0.58	13.74	4.51	4.51	0.65	16.33
		19	-	-	-	-	5.07	2.9	0.73	19.87	5.03	3.4	0.72	19.66	5.03	3.91	0.72	19.63	5.14	4.44	0.74	20.41
		20	-	-	-	-	5.99	2.93	0.86	26.6	5.96	3.44	0.86	26.33	5.92	3.95	0.85	26.06	5.89	4.44	0.85	25.79



(Continued)

MDVF-600D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
9	3	15	2.63	2.55	0.75	21.11	3.09	3.09	0.89	28.22	3.6	3.6	1.03	36.24	4.11	4.11	1.19	46.15	4.6	4.6	1.33	55.56
		17	3.91	2.54	1.13	42.29	3.87	3.05	1.11	41.02	3.94	3.58	1.14	42.86	4.16	4.11	1.21	47.23	4.61	4.61	1.33	55.71
		19	-	-	-	-	5.52	3.08	1.6	76.64	5.49	3.59	1.59	76.06	5.46	4.09	1.58	75.74	5.42	4.59	1.58	74.92
		20	-	-	-	-	6.39	3.09	1.86	99.95	6.35	3.6	1.85	98.94	6.3	4.1	1.82	96.38	6.27	4.59	1.81	95.44
	4	15	2.34	2.33	0.5	10.58	2.87	2.87	0.62	14.97	3.4	3.4	0.73	20.03	3.91	3.91	0.85	25.63	4.41	4.41	0.95	31.25
		17	3.29	2.29	0.71	18.89	3.35	2.82	0.72	19.5	3.57	3.37	0.77	21.8	3.93	3.92	0.85	25.8	4.42	4.42	0.95	31.33
		19	-	-	-	-	4.97	2.85	1.07	38.31	4.94	3.36	1.06	37.9	4.91	3.86	1.06	37.47	4.96	4.38	1.07	38.22
		20	-	-	-	-	5.86	2.88	1.27	51.49	5.82	3.38	1.25	50.32	5.8	3.89	1.26	50.46	5.75	4.38	1.24	49.26
	5	15	2.09	2.09	0.36	5.14	2.63	2.63	0.45	8.77	3.18	3.18	0.55	12.1	3.7	3.7	0.64	15.7	4.22	4.22	0.73	19.61
		17	2.59	2	0.45	8.47	2.88	2.59	0.5	10.23	3.25	3.16	0.56	12.57	3.71	3.7	0.64	15.73	4.22	4.22	0.73	19.66
		19	-	-	-	-	4.35	2.6	0.75	20.61	4.31	3.11	0.74	20.35	4.38	3.64	0.75	20.9	4.57	4.18	0.79	22.45
		20	-	-	-	-	5.26	2.63	0.91	28.61	5.23	3.15	0.9	28.47	5.2	3.65	0.9	28.16	5.2	4.16	0.9	28.11
	6	15	1.91	1.91	0.27	2.48	2.4	2.4	0.34	4.62	2.93	2.93	0.42	7.54	3.48	3.48	0.5	10.31	4	4	0.57	13.11
		17	2.14	1.79	0.31	3.37	2.5	2.36	0.36	5.14	2.95	2.93	0.42	7.64	3.48	3.48	0.5	10.34	4.01	4.01	0.58	13.14
		19	-	-	-	-	3.58	2.31	0.51	10.81	3.67	2.85	0.53	11.28	3.9	3.41	0.56	12.52	4.21	3.97	0.6	14.25
		20	-	-	-	-	4.58	2.37	0.66	16.42	4.55	2.88	0.65	16.22	4.55	3.39	0.65	16.23	4.68	3.93	0.67	17.05
11	3	15	2.04	2.04	0.58	13.34	2.57	2.57	0.73	19.8	3.09	3.09	0.88	27.21	3.6	3.6	1.03	35.55	4.1	4.1	1.17	44.28
		17	2.55	2	0.73	19.52	2.74	2.55	0.78	22.09	3.1	3.1	0.89	27.33	3.61	3.61	1.03	35.64	4.11	4.11	1.17	44.4
		19	-	-	-	-	4.22	2.55	1.21	46.42	4.19	3.06	1.2	45.86	4.19	3.57	1.2	45.86	4.32	4.09	1.24	48.52
		20	-	-	-	-	5.1	2.57	1.47	65.61	5.07	3.08	1.46	64.88	5.03	3.58	1.44	62.95	4.99	4.08	1.43	62.37
	4	15	1.79	1.79	0.38	6.2	2.35	2.35	0.5	10.37	2.88	2.88	0.62	14.7	3.4	3.4	0.73	19.51	3.91	3.91	0.84	24.8
		17	2	1.74	0.43	7.86	2.4	2.34	0.51	10.78	2.88	2.88	0.62	14.72	3.41	3.41	0.73	19.56	3.92	3.92	0.84	24.87
		19	-	-	-	-	3.58	2.3	0.77	21.26	3.59	2.82	0.77	21.34	3.75	3.36	0.8	23.02	4.02	3.91	0.86	26.01
		20	-	-	-	-	4.5	2.34	0.97	31.7	4.47	2.85	0.96	31.34	4.44	3.35	0.95	30.93	4.51	3.87	0.97	31.75
	5	15	1.6	1.6	0.28	2.59	2.11	2.11	0.36	5.43	2.66	2.66	0.46	8.8	3.19	3.19	0.55	12.03	3.72	3.72	0.64	15.57
		17	1.67	1.55	0.29	2.91	2.12	2.11	0.36	5.47	2.66	2.66	0.46	8.82	3.2	3.2	0.55	12.06	3.72	3.72	0.64	15.61
		19	-	-	-	-	2.84	2.03	0.49	9.81	3.06	2.59	0.53	11.17	3.37	3.16	0.58	13.07	3.76	3.72	0.65	15.9
		20	-	-	-	-	3.81	2.08	0.66	16.19	3.78	2.59	0.65	15.96	3.87	3.12	0.67	16.65	4.08	3.67	0.7	18.26
	6	15	1.39	1.39	0.2	1.44	1.92	1.92	0.27	2.6	2.42	2.42	0.35	4.87	2.95	2.95	0.42	7.6	3.49	3.49	0.5	10.18
		17	1.41	1.37	0.2	1.46	1.92	1.91	0.27	2.6	2.42	2.42	0.35	4.89	2.96	2.96	0.42	7.62	3.5	3.5	0.5	10.2
		19	-	-	-	-	2.23	1.77	0.32	3.96	2.59	2.35	0.37	5.73	3.03	2.94	0.43	7.95	3.51	3.5	0.5	10.24
		20	-	-	-	-	2.87	1.74	0.41	7.19	3.04	2.3	0.43	8	3.34	2.88	0.48	9.42	3.69	3.46	0.53	11.17

4-Pipe Duct MDVF-FF Series



(Continued)

MDVF-600D304FF																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
13	3	15	1.5	1.5	0.43	7.92	2.05	2.05	0.58	13.19	2.58	2.58	0.74	19.82	3.09	3.09	0.89	26.91	3.6	3.6	1.03	34.78	
		17	1.53	1.5	0.44	8.11	2.05	2.05	0.58	13.22	2.58	2.58	0.74	19.87	3.09	3.09	0.89	26.98	3.6	3.6	1.03	34.88	
		19	-	-	-	-	2.77	2	0.8	22.46	2.89	2.54	0.83	24.16	3.16	3.09	0.9	27.78	3.61	3.6	1.03	34.95	
		20	-	-	-	-	3.67	2.02	1.05	36.07	3.64	2.54	1.04	35.56	3.66	3.05	1.05	35.83	3.82	3.58	1.09	38.66	
	4	15	1.28	1.28	0.28	2.69	1.81	1.81	0.39	6.4	2.36	2.36	0.51	10.29	2.89	2.89	0.62	14.7	3.41	3.41	0.73	19.47	
		17	1.28	1.28	0.28	2.69	1.81	1.81	0.39	6.42	2.36	2.36	0.51	10.31	2.9	2.9	0.62	14.73	3.41	3.41	0.74	19.52	
		19	-	-	-	-	2.13	1.75	0.46	8.67	2.49	2.33	0.53	11.26	2.91	2.9	0.63	14.86	3.42	3.42	0.74	19.57	
		20	-	-	-	-	2.96	1.77	0.64	15.24	3	2.3	0.65	15.58	3.21	2.85	0.69	17.52	3.52	3.4	0.76	20.52	
	5	15	1.07	1.07	0.18	1.27	1.6	1.6	0.27	2.66	2.12	2.12	0.36	5.56	2.67	2.67	0.46	8.66	3.2	3.2	0.55	11.8	
		17	1.07	1.07	0.18	1.27	1.6	1.6	0.27	2.66	2.12	2.12	0.36	5.57	2.67	2.67	0.46	8.68	3.2	3.2	0.55	11.83	
		19	-	-	-	-	1.71	1.54	0.29	3.18	2.15	2.11	0.37	5.76	2.67	2.67	0.46	8.69	3.21	3.21	0.55	11.86	
		20	-	-	-	-	2.07	1.45	0.35	5.28	2.41	2.05	0.41	7.28	2.81	2.64	0.48	9.46	3.24	3.2	0.56	12.04	
	6	15	0.81	0.81	0.12	0.79	1.4	1.4	0.2	1.37	1.92	1.92	0.27	2.68	2.43	2.43	0.35	5.02	2.97	2.97	0.43	7.62	
		17	0.81	0.81	0.12	0.79	1.4	1.4	0.2	1.38	1.92	1.92	0.27	2.68	2.43	2.43	0.35	5.03	2.98	2.98	0.43	7.64	
		19	-	-	-	-	1.44	1.37	0.21	1.42	1.92	1.92	0.28	2.7	2.43	2.43	0.35	5.05	2.98	2.98	0.43	7.66	
		20	-	-	-	-	1.63	1.27	0.23	1.78	2.03	1.85	0.29	3.14	2.47	2.42	0.35	5.25	2.98	2.98	0.43	7.67	
15	3	15	0.96	0.96	0.27	2.72	1.51	1.51	0.43	7.74	2.05	2.05	0.59	13.05	2.58	2.58	0.74	19.53	3.09	3.09	0.88	26.31	
		17	0.96	0.96	0.28	2.73	1.51	1.51	0.43	7.76	2.05	2.05	0.59	13.08	2.58	2.58	0.74	19.58	3.09	3.09	0.88	26.38	
		19	-	-	-	-	1.56	1.5	0.45	8.23	2.05	2.04	0.59	13.06	2.58	2.58	0.74	19.63	3.09	3.09	0.88	26.45	
		20	-	-	-	-	2.05	1.46	0.58	13	2.28	2.02	0.66	15.84	2.62	2.58	0.75	20.15	3.1	3.09	0.88	26.47	
	4	15	0.75	0.75	0.16	1.07	1.28	1.28	0.27	2.75	1.82	1.82	0.39	6.5	2.37	2.37	0.51	10.32	2.9	2.9	0.62	14.52	
		17	0.75	0.75	0.16	1.07	1.28	1.28	0.28	2.76	1.82	1.82	0.39	6.52	2.37	2.37	0.51	10.35	2.9	2.9	0.63	14.56	
		19	-	-	-	-	1.29	1.28	0.28	2.78	1.82	1.82	0.39	6.54	2.38	2.38	0.51	10.37	2.91	2.91	0.63	14.6	
		20	-	-	-	-	1.43	1.21	0.31	3.74	1.89	1.81	0.4	6.93	2.38	2.38	0.51	10.39	2.91	2.91	0.63	14.62	
	5	15	0.47	0.47	0.08	0.53	1.08	1.08	0.19	1.23	1.61	1.61	0.28	2.82	2.13	2.13	0.37	5.79	2.68	2.68	0.46	8.69	
		17	0.47	0.47	0.08	0.53	1.08	1.08	0.19	1.23	1.61	1.61	0.28	2.83	2.14	2.14	0.37	5.81	2.69	2.69	0.46	8.71	
		19	-	-	-	-	1.08	1.08	0.19	1.23	1.61	1.61	0.28	2.84	2.14	2.14	0.37	5.83	2.69	2.69	0.46	8.73	
		20	-	-	-	-	1.14	1.04	0.2	1.3	1.62	1.6	0.28	2.88	2.14	2.14	0.37	5.83	2.69	2.69	0.46	8.74	
	6	15	-	-	-	-	0.83	0.83	0.12	0.77	1.41	1.41	0.2	1.36	1.92	1.92	0.28	2.83	2.44	2.44	0.35	5.25	
		17	-	-	-	-	0.83	0.83	0.12	0.77	1.41	1.41	0.2	1.36	1.92	1.92	0.28	2.84	2.45	2.45	0.35	5.26	
		19	-	-	-	-	0.83	0.83	0.12	0.77	1.41	1.41	0.2	1.36	1.93	1.93	0.28	2.85	2.45	2.45	0.35	5.28	
		20	-	-	-	-	0.83	0.83	0.12	0.77	1.41	1.41	0.2	1.36	1.93	1.93	0.28	2.86	2.45	2.45	0.35	5.29	

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

Heating Capacity Table

MDVF-600D304FF													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
°C	°C	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa
40	8	2.86	0.31	15.6	2.54	0.27	12.65	2.21	0.24	9.97	1.87	0.2	7.49
	10	2.59	0.22	8.95	2.26	0.19	7.07	1.92	0.17	5.36	1.57	0.14	3.82
	12	2.3	0.17	5.4	1.95	0.14	4.09	1.59	0.11	2.89	1.23	0.09	1.65
	14	1.96	0.12	3.2	1.6	0.1	2.1	1.27	0.08	1.16	0.95	0.06	0.61
	16	1.63	0.09	1.56	1.32	0.07	0.89	0.97	0.05	0.55	0.58	0.03	0.33
45	8	3.69	0.4	23.56	3.36	0.36	20.07	3.04	0.33	16.82	2.71	0.29	13.82
	10	3.43	0.3	14.21	3.11	0.27	11.95	2.78	0.24	9.86	2.45	0.21	7.93
	12	3.17	0.23	9.12	2.84	0.2	7.54	2.5	0.18	6.08	2.16	0.16	4.74
	14	2.88	0.18	5.97	2.54	0.16	4.82	2.19	0.14	3.75	1.83	0.11	2.77
	16	2.58	0.14	3.96	2.22	0.12	3.07	1.85	0.1	2.2	1.5	0.08	1.33
50	8	4.51	0.49	32.91	4.19	0.45	28.79	3.86	0.42	25.14	3.54	0.38	21.57
	10	4.27	0.37	20.37	3.95	0.34	17.73	3.62	0.31	15.26	3.29	0.28	12.96
	12	4.02	0.29	13.35	3.69	0.27	11.52	3.36	0.24	9.8	3.03	0.22	8.2
	14	3.75	0.23	9.15	3.42	0.21	7.8	3.09	0.19	6.54	2.75	0.17	5.37
	16	3.48	0.19	6.41	3.14	0.17	5.38	2.8	0.15	4.42	2.45	0.13	3.54
55	8	5.34	0.58	43.44	5.01	0.54	38.89	4.69	0.51	34.47	4.36	0.47	30.31
	10	5.1	0.44	27.09	4.77	0.41	24.13	4.45	0.38	21.32	4.12	0.36	18.67
	12	4.86	0.35	18.25	4.53	0.33	16.16	4.2	0.3	14.18	3.87	0.28	12.27
	14	4.61	0.28	12.78	4.28	0.26	11.24	3.95	0.24	9.78	3.62	0.22	8.41
	16	4.35	0.23	9.22	4.02	0.22	8.04	3.68	0.2	6.92	3.35	0.18	5.88
60	8	6.16	0.66	54.68	5.83	0.63	49.92	5.51	0.59	44.87	5.18	0.56	40.33
	10	5.93	0.51	34.72	5.6	0.48	31.35	5.28	0.46	28.32	4.95	0.43	25.34
	12	5.69	0.41	23.52	5.36	0.39	21.2	5.04	0.36	18.99	4.71	0.34	16.96
	14	5.45	0.34	16.72	5.12	0.32	15	4.79	0.3	13.37	4.46	0.27	11.82
	16	5.2	0.28	12.31	4.87	0.26	10.98	4.54	0.25	9.73	4.21	0.23	8.53

Abbreviations:

Δt: Temperature Difference. (°C) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

4-Pipe Duct MDVF-FF Series



Cooling Capacity Table

MDVF-700D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
5	3	15	5.5	4.19	1.57	37.29	5.48	4.79	1.57	37.03	5.61	5.4	1.6	38.6	6.01	6.01	1.72	43.51	6.59	6.59	1.89	51.09
		17	7.31	4.22	2.11	61.93	7.26	4.81	2.08	60.32	7.21	5.4	2.07	59.68	7.17	5.99	2.05	59.05	7.16	6.57	2.05	58.97
		19	-	-	-	-	9.18	4.84	2.66	92.36	9.13	5.43	2.64	91.42	9.08	6.02	2.63	90.49	9.03	6.6	2.61	89.54
		20	-	-	-	-	10.19	4.85	2.93	109.65	10.14	5.44	2.93	109.65	10.08	6.03	2.92	108.89	10.02	6.61	2.9	107.78
	4	15	4.84	3.88	1.04	18.37	4.96	4.51	1.07	19.13	5.25	5.15	1.13	21.12	5.76	5.76	1.24	24.56	6.35	6.35	1.36	29.03
		17	6.69	3.93	1.43	31.68	6.65	4.53	1.43	31.34	6.6	5.12	1.42	31.01	6.59	5.71	1.41	30.91	6.71	6.32	1.44	31.92
		19	-	-	-	-	8.6	4.57	1.85	48.94	8.55	5.16	1.84	48.44	8.5	5.75	1.82	47.95	8.45	6.33	1.81	47.47
		20	-	-	-	-	9.62	4.58	2.07	59.82	9.57	5.18	2.07	59.56	9.52	5.77	2.06	58.96	9.46	6.35	2.04	58.36
	5	15	4.14	3.54	0.71	9.47	4.45	4.21	0.76	10.78	4.9	4.88	0.84	12.69	5.5	5.5	0.95	15.56	6.1	6.1	1.05	18.55
		17	6	3.62	1.03	18.01	5.96	4.22	1.03	17.81	5.94	4.82	1.02	17.71	6.06	5.44	1.04	18.33	6.31	6.07	1.09	19.66
		19	-	-	-	-	7.97	4.28	1.37	29.29	7.92	4.88	1.37	28.99	7.87	5.46	1.36	28.69	7.81	6.04	1.34	28.09
		20	-	-	-	-	9.01	4.31	1.55	36.21	8.96	4.9	1.54	35.84	8.91	5.49	1.54	35.48	8.85	6.07	1.53	35.12
	6	15	3.64	3.27	0.52	4.54	4.04	3.93	0.58	5.97	4.58	4.57	0.66	8.04	5.2	5.2	0.75	10.31	5.82	5.82	0.84	12.51
		17	5.15	3.24	0.74	10.09	5.12	3.85	0.73	10.01	5.27	4.49	0.75	10.51	5.55	5.15	0.8	11.52	5.93	5.8	0.85	12.89
		19	-	-	-	-	7.23	3.96	1.03	17.95	7.19	4.55	1.03	17.76	7.14	5.14	1.02	17.56	7.13	5.73	1.02	17.51
		20	-	-	-	-	8.31	3.99	1.19	22.75	8.26	4.59	1.18	22.52	8.21	5.18	1.17	22.29	8.16	5.77	1.17	22.06
7	3	15	4.16	3.56	1.19	22.8	4.36	4.2	1.25	24.74	4.83	4.83	1.4	29.85	5.42	5.42	1.57	36.5	6	6	1.72	42.99
		17	5.96	3.59	1.71	42.42	5.92	4.19	1.7	41.94	5.88	4.79	1.69	41.44	5.91	5.39	1.7	41.82	6.11	6	1.76	44.35
		19	-	-	-	-	7.86	4.23	2.27	69.21	7.82	4.82	2.26	68.47	7.77	5.41	2.24	67.73	7.72	5.99	2.23	67.02
		20	-	-	-	-	8.89	4.24	2.58	86.34	8.83	4.84	2.56	85.44	8.78	5.43	2.55	84.54	8.73	6.01	2.53	83.66
	4	15	3.6	3.27	0.77	10.89	4	3.94	0.86	13.11	4.57	4.57	0.99	16.49	5.17	5.17	1.11	20.16	5.76	5.76	1.24	24.28
		17	5.28	3.3	1.13	20.84	5.24	3.9	1.13	20.59	5.27	4.51	1.13	20.79	5.45	5.14	1.17	22.08	5.8	5.77	1.25	24.57
		19	-	-	-	-	7.22	3.95	1.55	35.8	7.18	4.55	1.55	35.54	7.15	5.14	1.55	35.47	7.1	5.72	1.54	35.07
		20	-	-	-	-	8.27	3.97	1.79	45.68	8.22	4.57	1.78	45.2	8.17	5.16	1.77	44.71	8.12	5.75	1.76	44.25
	5	15	3.12	2.98	0.54	5.06	3.64	3.64	0.63	7.36	4.28	4.28	0.74	9.96	4.9	4.9	0.84	12.53	5.51	5.51	0.95	15.32
		17	4.44	2.94	0.76	10.59	4.48	3.56	0.77	10.72	4.7	4.22	0.81	11.64	5.04	4.88	0.87	13.14	5.52	5.52	0.95	15.37
		19	-	-	-	-	6.51	3.64	1.12	20.31	6.47	4.24	1.11	20.09	6.4	4.81	1.16	22.93	6.46	5.44	1.11	20.04
		20	-	-	-	-	7.59	3.68	1.31	26.63	7.53	4.28	1.3	26.06	7.48	4.87	1.29	25.79	7.44	5.45	1.28	25.51
	6	15	2.86	2.79	0.41	2.48	3.39	3.39	0.49	3.92	3.98	3.98	0.57	5.93	4.6	4.6	0.66	8.17	5.23	5.23	0.75	10.22
		17	3.57	2.58	0.51	4.52	3.81	3.25	0.55	5.32	4.17	3.92	0.6	6.67	4.66	4.6	0.67	8.34	5.24	5.23	0.75	10.25
		19	-	-	-	-	5.68	3.3	0.81	11.72	5.63	3.9	0.81	11.56	5.68	4.51	0.81	11.73	5.87	5.15	0.84	12.41
		20	-	-	-	-	6.8	3.36	0.98	15.96	6.76	3.96	0.97	15.78	6.71	4.55	0.96	15.6	6.69	5.14	0.96	15.51



(Continued)

MDVF-700D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
9	3	15	3.05	2.98	0.87	13.22	3.61	3.61	1.04	17.68	4.22	4.22	1.21	23.09	4.83	4.83	1.4	29.42	5.41	5.41	1.56	35.41
		17	4.5	2.96	1.29	25.74	4.47	3.57	1.28	25.42	4.59	4.2	1.33	26.91	4.88	4.83	1.41	29.96	5.42	5.42	1.56	35.51
		19	-	-	-	-	6.44	3.61	1.87	48.51	6.4	4.21	1.86	47.98	6.36	4.8	1.84	47.44	6.33	5.39	1.83	47
		20	-	-	-	-	7.47	3.63	2.17	62.73	7.42	4.23	2.15	62.13	7.36	4.81	2.12	60.46	7.32	5.4	2.11	59.83
	4	15	2.69	2.69	0.58	6.23	3.33	3.33	0.72	9.41	3.96	3.96	0.85	12.6	4.57	4.57	0.98	16.11	5.17	5.17	1.12	19.98
		17	3.68	2.63	0.79	11.1	3.81	3.27	0.82	11.8	4.13	3.94	0.89	13.67	4.58	4.58	0.99	16.17	5.18	5.18	1.12	20.03
		19	-	-	-	-	5.74	3.32	1.24	23.95	5.7	3.92	1.23	23.68	5.67	4.52	1.23	23.47	5.77	5.13	1.25	24.17
		20	-	-	-	-	6.78	3.34	1.46	31.62	6.74	3.94	1.45	31.27	6.69	4.54	1.44	30.93	6.65	5.12	1.43	30.56
	5	15	2.45	2.44	0.42	2.72	3.04	3.04	0.52	4.88	3.67	3.67	0.63	7.49	4.3	4.3	0.74	9.88	4.91	4.91	0.85	12.39
		17	2.89	2.29	0.5	4.28	3.24	2.97	0.56	5.74	3.72	3.66	0.64	7.69	4.31	4.3	0.74	9.9	4.92	4.92	0.85	12.42
		19	-	-	-	-	4.89	2.98	0.84	12.28	4.87	3.59	0.84	12.17	5	4.22	0.86	12.76	5.27	4.87	0.91	14.05
		20	-	-	-	-	6.01	3.03	1.03	17.42	5.96	3.63	1.03	17.24	5.92	4.23	1.02	17	5.96	4.84	1.03	17.18
	6	15	2.21	2.21	0.32	1.51	2.82	2.82	0.4	2.45	3.39	3.39	0.49	4.07	4	4	0.57	6.15	4.63	4.63	0.66	8.19
		17	2.47	2.09	0.35	1.8	2.91	2.76	0.42	2.67	3.4	3.39	0.49	4.1	4.01	4.01	0.57	6.17	4.64	4.64	0.67	8.22
		19	-	-	-	-	3.85	2.59	0.55	5.65	4.05	3.25	0.58	6.33	4.39	3.93	0.63	7.45	4.81	4.6	0.69	8.74
		20	-	-	-	-	5.08	2.68	0.73	9.55	5.04	3.28	0.72	9.41	5.1	3.9	0.73	9.61	5.31	4.55	0.76	10.32
11	3	15	2.37	2.37	0.67	8.37	3	3	0.86	12.54	3.62	3.62	1.03	17.25	4.23	4.23	1.21	22.51	4.82	4.82	1.38	28.43
		17	2.9	2.31	0.83	11.79	3.18	2.98	0.91	13.96	3.62	3.62	1.03	17.29	4.23	4.23	1.21	22.57	4.83	4.83	1.38	28.5
		19	-	-	-	-	4.88	2.98	1.39	28.8	4.85	3.58	1.39	28.62	4.87	4.18	1.39	28.67	5.05	4.81	1.44	30.62
		20	-	-	-	-	5.94	3	1.71	40.98	5.9	3.6	1.7	40.5	5.86	4.2	1.69	40.02	5.82	4.79	1.68	39.61
	4	15	2.08	2.08	0.45	3.29	2.71	2.71	0.58	6.33	3.35	3.35	0.72	9.25	3.97	3.97	0.85	12.36	4.58	4.58	0.98	15.75
		17	2.26	2.01	0.48	4.09	2.74	2.7	0.59	6.5	3.35	3.35	0.72	9.27	3.98	3.98	0.85	12.39	4.59	4.59	0.98	15.79
		19	-	-	-	-	4.04	2.65	0.87	12.69	4.09	3.28	0.88	12.97	4.33	3.93	0.93	14.27	4.68	4.57	1	16.36
		20	-	-	-	-	5.15	2.7	1.1	19.23	5.11	3.3	1.1	18.99	5.09	3.9	1.09	18.83	5.21	4.53	1.12	19.6
	5	15	1.86	1.86	0.32	1.49	2.46	2.46	0.42	2.87	3.06	3.06	0.53	5.1	3.7	3.7	0.64	7.52	4.32	4.32	0.74	9.81
		17	1.94	1.82	0.33	1.59	2.46	2.46	0.42	2.88	3.06	3.06	0.53	5.12	3.7	3.7	0.64	7.54	4.33	4.33	0.75	9.83
		19	-	-	-	-	3.09	2.29	0.53	5.25	3.42	2.98	0.59	6.54	3.86	3.67	0.66	8.08	4.35	4.33	0.75	9.94
		20	-	-	-	-	4.22	2.36	0.73	9.4	4.2	2.97	0.72	9.34	4.38	3.61	0.75	10.03	4.68	4.27	0.81	11.23
	6	15	1.59	1.59	0.23	1.01	2.23	2.23	0.32	1.49	2.82	2.82	0.4	2.57	3.41	3.41	0.49	4.27	4.02	4.02	0.58	6.23
		17	1.6	1.58	0.23	1.02	2.24	2.23	0.32	1.49	2.83	2.83	0.41	2.58	3.41	3.41	0.49	4.29	4.03	4.03	0.58	6.25
		19	-	-	-	-	2.58	2.07	0.37	2.03	2.98	2.74	0.43	2.99	3.46	3.4	0.5	4.45	4.03	4.03	0.58	6.27
		20	-	-	-	-	3.14	1.97	0.45	3.46	3.37	2.63	0.48	4.17	3.73	3.31	0.53	5.3	4.19	3.99	0.6	6.74

4-Pipe Duct MDVF-FF Series



(Continued)

MDVF-700D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
13	3	15	1.73	1.73	0.5	4.5	2.38	2.38	0.68	8.43	3.01	3.01	0.87	12.56	3.63	3.63	1.04	17.25	4.23	4.23	1.21	22.45
		17	1.74	1.73	0.5	4.57	2.39	2.39	0.69	8.45	3.02	3.02	0.87	12.6	3.63	3.63	1.04	17.3	4.23	4.23	1.22	22.52
		19	-	-	-	-	3.13	2.32	0.89	13.24	3.33	2.97	0.95	14.7	3.69	3.63	1.06	17.8	4.24	4.24	1.22	22.57
		20	-	-	-	-	4.24	2.36	1.22	22.56	4.2	2.96	1.21	22.22	4.25	3.58	1.22	22.65	4.47	4.21	1.28	24.69
	4	15	1.5	1.5	0.32	1.49	2.09	2.09	0.45	3.51	2.72	2.72	0.58	6.39	3.36	3.36	0.72	9.16	3.98	3.98	0.85	12.2
		17	1.5	1.5	0.32	1.49	2.1	2.1	0.45	3.52	2.73	2.73	0.58	6.41	3.37	3.37	0.72	9.18	3.98	3.98	0.85	12.23
		19	-	-	-	-	2.37	2.01	0.51	4.86	2.83	2.7	0.61	6.85	3.37	3.37	0.72	9.21	3.99	3.99	0.85	12.26
		20	-	-	-	-	3.24	2	0.69	8.59	3.36	2.65	0.72	9.15	3.67	3.32	0.79	10.62	4.07	3.97	0.87	12.7
	5	15	1.22	1.22	0.21	0.89	1.87	1.87	0.32	1.47	2.46	2.46	0.42	2.95	3.07	3.07	0.53	5.19	3.71	3.71	0.64	7.39
		17	1.22	1.22	0.21	0.89	1.87	1.87	0.32	1.47	2.46	2.46	0.42	2.96	3.07	3.07	0.53	5.21	3.71	3.71	0.64	7.41
		19	-	-	-	-	1.98	1.8	0.34	1.67	2.48	2.45	0.43	3.03	3.07	3.07	0.53	5.22	3.72	3.72	0.64	7.43
		20	-	-	-	-	2.33	1.68	0.4	2.58	2.7	2.36	0.46	3.82	3.18	3.04	0.55	5.62	3.73	3.72	0.64	7.48
	6	15	0.91	0.91	0.13	0.54	1.6	1.6	0.23	0.96	2.24	2.24	0.32	1.47	2.82	2.82	0.4	2.65	3.42	3.42	0.49	4.39
		17	0.91	0.91	0.13	0.54	1.6	1.6	0.23	0.97	2.24	2.24	0.32	1.48	2.82	2.82	0.4	2.66	3.42	3.42	0.49	4.41
		19	-	-	-	-	1.63	1.58	0.23	0.98	2.25	2.25	0.32	1.48	2.83	2.83	0.4	2.67	3.43	3.43	0.49	4.42
		20	-	-	-	-	1.83	1.47	0.26	1.1	2.36	2.17	0.34	1.66	2.86	2.81	0.41	2.74	3.43	3.42	0.49	4.42
15	3	15	1.13	1.13	0.32	1.48	1.73	1.73	0.49	4.54	2.38	2.38	0.68	8.22	3.01	3.01	0.86	12.22	3.62	3.62	1.04	17
		17	1.13	1.13	0.32	1.48	1.74	1.74	0.49	4.56	2.39	2.39	0.68	8.24	3.01	3.01	0.86	12.25	3.63	3.63	1.04	17.04
		19	-	-	-	-	1.77	1.72	0.51	4.79	2.39	2.38	0.68	8.23	3.02	3.02	0.86	12.28	3.64	3.64	1.05	17.09
		20	-	-	-	-	2.27	1.67	0.65	7.57	2.6	2.35	0.74	9.53	3.05	3.02	0.87	12.49	3.64	3.64	1.05	17.11
	4	15	0.85	0.85	0.18	0.75	1.5	1.5	0.32	1.49	2.1	2.1	0.45	3.6	2.74	2.74	0.59	6.37	3.37	3.37	0.72	9.08
		17	0.85	0.85	0.18	0.75	1.51	1.51	0.32	1.49	2.1	2.1	0.45	3.61	2.74	2.74	0.59	6.39	3.38	3.38	0.72	9.11
		19	-	-	-	-	1.51	1.51	0.32	1.5	2.1	2.1	0.45	3.62	2.75	2.75	0.59	6.41	3.38	3.38	0.73	9.15
		20	-	-	-	-	1.66	1.42	0.36	1.91	2.14	2.08	0.46	3.8	2.74	2.74	0.59	6.4	3.38	3.38	0.73	9.17
	5	15	0.52	0.52	0.09	0.36	1.24	1.24	0.21	0.87	1.88	1.88	0.32	1.52	2.46	2.46	0.42	3.13	3.09	3.09	0.53	5.35
		17	0.52	0.52	0.09	0.36	1.24	1.24	0.21	0.87	1.88	1.88	0.32	1.52	2.47	2.47	0.43	3.14	3.09	3.09	0.53	5.37
		19	-	-	-	-	1.24	1.24	0.21	0.87	1.89	1.89	0.32	1.53	2.47	2.47	0.43	3.15	3.1	3.1	0.53	5.38
		20	-	-	-	-	1.28	1.2	0.22	0.89	1.89	1.88	0.33	1.54	2.47	2.47	0.43	3.16	3.1	3.1	0.53	5.39
	6	15	-	-	-	-	0.93	0.93	0.13	0.53	1.62	1.62	0.23	0.93	2.25	2.25	0.32	1.52	2.83	2.83	0.41	2.8
		17	-	-	-	-	0.93	0.93	0.13	0.53	1.62	1.62	0.23	0.93	2.25	2.25	0.32	1.52	2.83	2.83	0.41	2.81
		19	-	-	-	-	0.93	0.93	0.13	0.53	1.62	1.62	0.23	0.93	2.26	2.26	0.32	1.53	2.84	2.84	0.41	2.82
		20	-	-	-	-	0.93	0.93	0.13	0.53	1.62	1.62	0.23	0.93	2.26	2.26	0.32	1.53	2.84	2.84	0.41	2.83

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

Heating Capacity Table

MDVF-700D304FF													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
°C	°C	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa
40	8	3.01	0.33	20.61	2.67	0.29	16.72	2.33	0.25	13.18	1.98	0.21	9.99
	10	2.73	0.24	11.83	2.38	0.21	9.36	2.02	0.17	7.1	1.66	0.14	5.08
	12	2.43	0.17	7.15	2.06	0.15	5.43	1.69	0.12	3.86	1.3	0.09	2.29
	14	2.08	0.13	4.28	1.69	0.1	2.91	1.34	0.08	1.61	1	0.06	0.8
	16	1.72	0.09	2.16	1.39	0.07	1.22	1.03	0.06	0.71	0.62	0.03	0.43
45	8	3.88	0.42	31.3	3.54	0.38	26.66	3.2	0.34	22.23	2.86	0.31	18.27
	10	3.62	0.31	18.86	3.27	0.28	15.78	2.93	0.25	13.02	2.58	0.22	10.48
	12	3.34	0.24	12.05	2.99	0.22	9.97	2.64	0.19	8.04	2.28	0.16	6.28
	14	3.04	0.19	7.9	2.68	0.17	6.38	2.32	0.14	4.98	1.94	0.12	3.69
	16	2.72	0.15	5.25	2.35	0.13	4.09	1.96	0.11	2.98	1.58	0.09	1.85
50	8	4.75	0.51	43.36	4.41	0.48	38.25	4.07	0.44	33.14	3.73	0.4	28.36
	10	4.49	0.39	26.77	4.15	0.36	23.43	3.81	0.33	20.17	3.47	0.3	17.12
	12	4.23	0.3	17.63	3.88	0.28	15.21	3.53	0.25	12.95	3.19	0.23	10.84
	14	3.96	0.24	12.13	3.6	0.22	10.31	3.25	0.2	8.64	2.9	0.18	7.1
	16	3.66	0.2	8.47	3.31	0.18	7.12	2.95	0.16	5.85	2.58	0.14	4.67
55	8	5.62	0.6	57.11	5.28	0.57	51.39	4.93	0.53	45.68	4.59	0.5	40.29
	10	5.37	0.46	35.87	5.03	0.43	32.03	4.68	0.4	28.3	4.34	0.37	24.68
	12	5.11	0.37	24	4.77	0.34	21.34	4.42	0.32	18.73	4.08	0.29	16.27
	14	4.85	0.3	16.82	4.5	0.28	14.79	4.16	0.26	12.92	3.81	0.24	11.12
	16	4.57	0.25	12.13	4.23	0.23	10.61	3.88	0.21	9.14	3.53	0.19	7.76
60	8	6.48	0.7	72.23	6.14	0.66	65.97	5.8	0.62	59.33	5.45	0.59	53.29
	10	6.24	0.54	45.75	5.89	0.51	41.42	5.55	0.48	37.36	5.21	0.45	33.34
	12	5.99	0.43	31.18	5.64	0.41	28	5.3	0.38	25.09	4.96	0.36	22.32
	14	5.74	0.35	22.15	5.39	0.33	19.81	5.04	0.31	17.65	4.69	0.29	15.61
	16	5.47	0.3	16.25	5.13	0.28	14.5	4.78	0.26	12.84	4.43	0.24	11.27

Abbreviations:

Δt: Temperature Difference. (°C) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

4-Pipe Duct MDVF-FF Series



Cooling Capacity Table

MDVF-800D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
5	3	15	6.27	4.78	1.79	38.65	6.24	5.46	1.79	38.38	6.4	6.17	1.83	40.23	6.86	6.86	1.97	45.52	7.53	7.53	2.16	53.11
		17	8.34	4.82	2.41	64.26	8.29	5.5	2.39	63.6	8.24	6.17	2.38	62.93	8.19	6.84	2.36	62.28	8.18	7.51	2.36	62.14
		19	-	-	-	-	10.47	5.52	3.01	94.53	10.41	6.2	2.99	93.75	10.35	6.87	2.99	93.72	10.3	7.53	2.98	93.01
		20	-	-	-	-	11.64	5.54	3.37	115.53	11.57	6.21	3.35	114.32	11.5	6.89	3.33	113.11	11.44	7.55	3.31	111.94
	4	15	5.51	4.42	1.19	19.02	5.65	5.14	1.22	19.81	5.98	5.88	1.29	21.91	6.57	6.57	1.41	25.49	7.25	7.25	1.55	30.15
		17	7.62	4.48	1.63	32.84	7.57	5.16	1.62	32.5	7.53	5.84	1.61	32.16	7.51	6.52	1.61	32.05	7.65	7.21	1.64	33.11
		19	-	-	-	-	9.8	5.21	2.1	50.75	9.75	5.89	2.09	50.24	9.69	6.56	2.08	49.74	9.63	7.22	2.07	49.24
		20	-	-	-	-	10.98	5.23	2.37	62.43	10.92	5.91	2.36	61.81	10.86	6.58	2.35	61.2	10.79	7.24	2.32	60.24
	5	15	4.71	4.03	0.81	9.77	5.07	4.8	0.87	11.15	5.58	5.56	0.96	13.15	6.27	6.27	1.08	16.14	6.96	6.96	1.2	19.26
		17	6.83	4.12	1.18	18.64	6.79	4.81	1.17	18.44	6.77	5.49	1.17	18.34	6.9	6.2	1.19	18.98	7.19	6.93	1.24	20.38
		19	-	-	-	-	9.08	4.88	1.57	30.36	9.03	5.56	1.56	30.05	8.97	6.23	1.55	29.74	8.92	6.9	1.54	29.43
		20	-	-	-	-	10.27	4.91	1.77	37.53	10.21	5.59	1.76	37.16	10.15	6.26	1.75	36.8	10.09	6.93	1.74	36.43
	6	15	4.15	3.73	0.59	4.69	4.6	4.48	0.66	6.16	5.21	5.21	0.75	8.32	5.93	5.93	0.85	10.69	6.64	6.64	0.95	12.98
		17	5.86	3.69	0.84	10.42	5.83	4.39	0.83	10.34	5.99	5.12	0.86	10.86	6.32	5.87	0.91	11.93	6.75	6.62	0.97	13.36
		19	-	-	-	-	8.24	4.51	1.18	18.58	8.19	5.19	1.17	18.38	8.13	5.87	1.16	18.19	8.12	6.54	1.16	18.13
		20	-	-	-	-	9.46	4.55	1.35	23.57	9.41	5.23	1.35	23.33	9.35	5.91	1.34	23.09	9.3	6.58	1.33	22.86
7	3	15	4.74	4.06	1.36	23.6	4.97	4.79	1.43	25.66	5.51	5.51	1.59	31.01	6.19	6.19	1.79	37.91	6.85	6.85	1.97	44.68
		17	6.8	4.1	1.95	44.01	6.75	4.79	1.94	43.52	6.71	5.46	1.93	43.01	6.74	6.15	1.94	43.39	6.97	6.85	2	46.05
		19	-	-	-	-	8.98	4.83	2.6	72.39	8.92	5.51	2.59	71.63	8.87	6.18	2.57	70.87	8.81	6.84	2.56	70.12
		20	-	-	-	-	10.12	4.83	2.92	88.29	10.06	5.52	2.9	87.61	10.01	6.19	2.91	87.7	9.96	6.86	2.89	86.88
	4	15	4.09	3.73	0.88	11.27	4.56	4.5	0.98	13.59	5.21	5.21	1.12	16.91	5.9	5.9	1.27	20.92	6.57	6.57	1.41	25.21
		17	6.01	3.76	1.29	21.57	5.97	4.44	1.28	21.32	6	5.14	1.29	21.52	6.22	5.86	1.34	22.89	6.62	6.58	1.42	25.5
		19	-	-	-	-	8.23	4.5	1.77	37.1	8.18	5.18	1.76	36.71	8.13	5.86	1.75	36.32	8.08	6.52	1.74	35.92
		20	-	-	-	-	9.43	4.53	2.04	47.37	9.37	5.21	2.03	46.88	9.32	5.89	2.02	46.4	9.26	6.56	2.01	45.92
	5	15	3.56	3.4	0.61	5.22	4.15	4.15	0.71	7.62	4.88	4.88	0.84	10.33	5.59	5.59	0.96	13	6.28	6.28	1.08	15.92
		17	5.06	3.35	0.87	10.94	5.09	4.06	0.88	11.08	5.35	4.81	0.92	12.04	5.75	5.56	0.99	13.62	6.29	6.29	1.08	15.97
		19	-	-	-	-	7.42	4.15	1.28	21.04	7.37	4.84	1.27	20.81	7.32	5.51	1.29	27.8	7.36	6.2	1.27	20.75
		20	-	-	-	-	8.65	4.2	1.5	27.59	8.6	4.88	1.49	27.3	8.55	5.56	1.48	27.01	8.49	6.23	1.47	26.73
	6	15	3.26	3.18	0.47	2.57	3.86	3.86	0.56	4.06	4.54	4.54	0.65	6.13	5.25	5.25	0.75	8.47	5.96	5.96	0.85	10.6
		17	4.07	2.94	0.58	4.66	4.34	3.7	0.62	5.49	4.76	4.47	0.68	6.88	5.31	5.25	0.76	8.63	5.97	5.97	0.86	10.62
		19	-	-	-	-	6.46	3.76	0.93	12.12	6.41	4.44	0.92	11.96	6.46	5.15	0.93	12.13	6.68	5.88	0.96	12.84
		20	-	-	-	-	7.75	3.82	1.11	16.53	7.7	4.51	1.1	16.34	7.65	5.19	1.1	16.16	7.62	5.87	1.09	16.05



(Continued)

MDVF-800D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
9	3	15	3.47	3.4	1	13.69	4.12	4.12	1.18	18.35	4.82	4.82	1.38	23.97	5.51	5.51	1.59	30.56	6.18	6.18	1.78	36.8
		17	5.15	3.39	1.49	27.16	5.11	4.08	1.48	26.81	5.23	4.79	1.51	27.9	5.56	5.51	1.61	31.1	6.19	6.19	1.78	36.89
		19	-	-	-	-	7.35	4.12	2.13	50.32	7.3	4.8	2.12	49.76	7.25	5.48	2.1	49.2	7.21	6.15	2.09	48.74
		20	-	-	-	-	8.51	4.13	2.46	64.47	8.45	4.81	2.43	63.46	8.4	5.49	2.42	62.82	8.36	6.17	2.42	62.75
	4	15	3.06	3.06	0.66	6.44	3.8	3.8	0.82	9.75	4.52	4.52	0.98	13.22	5.22	5.22	1.12	16.74	5.9	5.9	1.27	20.74
		17	4.19	2.99	0.9	11.47	4.34	3.73	0.93	12.21	4.7	4.49	1.01	14.06	5.23	5.22	1.13	16.8	5.91	5.91	1.28	20.79
		19	-	-	-	-	6.54	3.79	1.42	24.81	6.5	4.47	1.41	24.53	6.46	5.15	1.4	24.31	6.57	5.85	1.42	25.04
		20	-	-	-	-	7.73	3.81	1.66	32.77	7.68	4.5	1.65	32.42	7.63	5.18	1.64	32.06	7.58	5.85	1.63	31.68
	5	15	2.79	2.79	0.48	2.81	3.46	3.46	0.6	5.04	4.18	4.18	0.72	7.76	4.9	4.9	0.84	10.24	5.6	5.6	0.96	12.86
		17	3.29	2.61	0.57	4.41	3.69	3.39	0.63	5.92	4.24	4.17	0.73	7.96	4.91	4.91	0.84	10.26	5.61	5.61	0.97	12.89
		19	-	-	-	-	5.57	3.4	0.96	12.7	5.54	4.09	0.95	12.58	5.7	4.82	0.98	13.19	6	5.56	1.04	14.5
		20	-	-	-	-	6.84	3.46	1.18	18.03	6.79	4.13	1.17	17.84	6.74	4.82	1.16	17.6	6.78	5.52	1.17	17.77
	6	15	2.52	2.52	0.36	1.57	3.21	3.21	0.46	2.54	3.87	3.87	0.55	4.21	4.56	4.56	0.65	6.36	5.28	5.28	0.76	8.49
		17	2.82	2.38	0.4	1.86	3.31	3.15	0.47	2.76	3.88	3.87	0.56	4.24	4.57	4.57	0.66	6.39	5.29	5.29	0.76	8.51
		19	-	-	-	-	4.38	2.95	0.63	5.82	4.61	3.7	0.66	6.52	5	4.48	0.72	7.69	5.48	5.25	0.79	9.05
		20	-	-	-	-	5.78	3.05	0.83	9.87	5.73	3.73	0.82	9.72	5.8	4.45	0.83	9.93	6.05	5.19	0.87	10.67
11	3	15	2.7	2.7	0.77	8.67	3.42	3.42	0.98	13	4.13	4.13	1.18	17.91	4.82	4.82	1.38	23.37	5.5	5.5	1.57	29.32
		17	3.3	2.64	0.94	12.19	3.62	3.4	1.04	14.38	4.13	4.13	1.18	17.94	4.83	4.83	1.38	23.43	5.51	5.51	1.57	29.4
		19	-	-	-	-	5.56	3.39	1.59	29.83	5.52	4.08	1.57	29.44	5.54	4.77	1.58	29.7	5.76	5.49	1.65	31.77
		20	-	-	-	-	6.77	3.42	1.95	42.49	6.72	4.11	1.93	42	6.68	4.79	1.92	41.5	6.64	5.47	1.91	41.07
	4	15	2.38	2.38	0.51	3.4	3.08	3.08	0.66	6.55	3.82	3.82	0.82	9.59	4.53	4.53	0.97	12.82	5.22	5.22	1.12	16.34
		17	2.57	2.29	0.55	4.22	3.12	3.08	0.67	6.72	3.82	3.82	0.82	9.61	4.54	4.54	0.97	12.85	5.23	5.23	1.12	16.39
		19	-	-	-	-	4.6	3.03	0.98	13.12	4.66	3.74	1	13.41	4.93	4.48	1.06	14.77	5.34	5.22	1.14	16.96
		20	-	-	-	-	5.86	3.08	1.26	19.9	5.82	3.77	1.25	19.66	5.79	4.45	1.24	19.49	5.93	5.16	1.27	20.3
	5	15	2.13	2.13	0.37	1.55	2.8	2.8	0.48	2.96	3.48	3.48	0.6	5.28	4.21	4.21	0.73	7.8	4.93	4.93	0.85	10.17
		17	2.21	2.08	0.38	1.65	2.8	2.8	0.48	2.98	3.49	3.49	0.6	5.3	4.22	4.22	0.73	7.82	4.93	4.93	0.85	10.2
		19	-	-	-	-	3.51	2.61	0.6	5.4	3.89	3.4	0.67	6.75	4.39	4.18	0.76	8.36	4.96	4.94	0.85	10.3
		20	-	-	-	-	4.8	2.68	0.83	9.72	4.78	3.38	0.82	9.64	4.99	4.12	0.86	10.36	5.33	4.87	0.92	11.62
	6	15	1.81	1.81	0.26	1.05	2.55	2.55	0.37	1.54	3.22	3.22	0.46	2.66	3.88	3.88	0.56	4.42	4.59	4.59	0.66	6.45
		17	1.82	1.8	0.26	1.06	2.55	2.54	0.37	1.54	3.22	3.22	0.46	2.67	3.89	3.89	0.56	4.43	4.59	4.59	0.66	6.47
		19	-	-	-	-	2.94	2.36	0.42	2.1	3.39	3.12	0.49	3.09	3.94	3.87	0.57	4.59	4.6	4.59	0.66	6.49
		20	-	-	-	-	3.57	2.25	0.51	3.57	3.83	3	0.55	4.29	4.25	3.77	0.61	5.47	4.77	4.55	0.68	6.97

4-Pipe Duct MDVF-FF Series



(Continued)

MDVF-800D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
13	3	15	1.97	1.97	0.57	4.65	2.72	2.72	0.78	8.74	3.43	3.43	0.98	12.84	4.14	4.14	1.19	17.91	4.82	4.82	1.39	23.31
		17	1.98	1.97	0.57	4.72	2.72	2.72	0.78	8.76	3.43	3.43	0.98	12.87	4.14	4.14	1.19	17.96	4.83	4.83	1.39	23.38
		19	-	-	-	-	3.56	2.64	1.02	13.69	3.8	3.39	1.09	15.49	4.21	4.14	1.21	18.46	4.84	4.83	1.39	23.44
		20	-	-	-	-	4.83	2.69	1.39	23.36	4.79	3.38	1.38	23	4.84	4.09	1.39	23.45	5.09	4.81	1.46	25.59
	4	15	1.71	1.71	0.37	1.55	2.39	2.39	0.51	3.63	3.1	3.1	0.66	6.62	3.83	3.83	0.82	9.49	4.54	4.54	0.97	12.65
		17	1.71	1.71	0.37	1.55	2.39	2.39	0.51	3.64	3.11	3.11	0.67	6.64	3.84	3.84	0.82	9.52	4.54	4.54	0.97	12.69
		19	-	-	-	-	2.7	2.29	0.58	5	3.22	3.08	0.69	7.09	3.84	3.84	0.82	9.55	4.55	4.55	0.97	12.72
		20	-	-	-	-	3.69	2.28	0.79	8.87	3.82	3.02	0.82	9.45	4.18	3.78	0.9	10.99	4.64	4.53	0.99	13.16
	5	15	1.39	1.39	0.24	0.93	2.13	2.13	0.37	1.52	2.8	2.8	0.48	3.05	3.49	3.49	0.6	5.37	4.23	4.23	0.72	7.66
		17	1.39	1.39	0.24	0.93	2.13	2.13	0.37	1.53	2.8	2.8	0.48	3.06	3.5	3.5	0.6	5.39	4.23	4.23	0.73	7.68
		19	-	-	-	-	2.26	2.06	0.39	1.73	2.82	2.79	0.48	3.13	3.5	3.5	0.6	5.4	4.24	4.24	0.73	7.71
		20	-	-	-	-	2.66	1.92	0.46	2.66	3.07	2.69	0.53	3.94	3.62	3.47	0.62	5.8	4.25	4.24	0.73	7.75
	6	15	1.03	1.03	0.15	0.56	1.82	1.82	0.26	1	2.55	2.55	0.37	1.52	3.22	3.22	0.46	2.74	3.89	3.89	0.56	4.54
		17	1.04	1.04	0.15	0.56	1.82	1.82	0.26	1	2.56	2.56	0.37	1.53	3.22	3.22	0.46	2.75	3.9	3.9	0.56	4.56
		19	-	-	-	-	1.86	1.8	0.27	1.02	2.56	2.56	0.37	1.53	3.22	3.22	0.46	2.76	3.91	3.91	0.56	4.57
		20	-	-	-	-	2.08	1.67	0.3	1.14	2.69	2.47	0.39	1.71	3.26	3.21	0.47	2.83	3.91	3.9	0.56	4.57
15	3	15	1.29	1.29	0.37	1.53	1.97	1.97	0.56	4.7	2.72	2.72	0.78	8.52	3.43	3.43	0.98	12.68	4.13	4.13	1.19	17.64
		17	1.29	1.29	0.37	1.54	1.98	1.98	0.56	4.71	2.72	2.72	0.78	8.54	3.44	3.44	0.98	12.71	4.14	4.14	1.19	17.69
		19	-	-	-	-	2.02	1.97	0.58	4.94	2.72	2.71	0.78	8.53	3.44	3.44	0.98	12.74	4.15	4.15	1.19	17.74
		20	-	-	-	-	2.59	1.91	0.74	7.82	2.96	2.68	0.85	9.85	3.48	3.44	0.99	12.95	4.15	4.15	1.19	17.76
	4	15	0.97	0.97	0.21	0.77	1.71	1.71	0.37	1.54	2.39	2.39	0.51	3.72	3.12	3.12	0.67	6.6	3.85	3.85	0.83	9.51
		17	0.97	0.97	0.21	0.78	1.72	1.72	0.37	1.54	2.39	2.39	0.51	3.73	3.12	3.12	0.67	6.62	3.85	3.85	0.83	9.53
		19	-	-	-	-	1.72	1.72	0.37	1.55	2.39	2.39	0.51	3.74	3.13	3.13	0.67	6.64	3.86	3.86	0.83	9.56
		20	-	-	-	-	1.89	1.61	0.4	1.98	2.44	2.37	0.52	3.93	3.13	3.12	0.67	6.63	3.86	3.86	0.83	9.57
	5	15	0.59	0.59	0.1	0.37	1.41	1.41	0.24	0.9	2.14	2.14	0.37	1.57	2.81	2.81	0.48	3.23	3.52	3.52	0.61	5.54
		17	0.59	0.59	0.1	0.37	1.41	1.41	0.24	0.9	2.15	2.15	0.37	1.57	2.81	2.81	0.48	3.25	3.53	3.53	0.61	5.56
		19	-	-	-	-	1.41	1.41	0.24	0.9	2.15	2.15	0.37	1.58	2.82	2.82	0.49	3.26	3.53	3.53	0.61	5.57
		20	-	-	-	-	1.46	1.37	0.25	0.93	2.16	2.15	0.37	1.59	2.82	2.82	0.49	3.26	3.54	3.54	0.61	5.58
	6	15	-	-	-	-	1.06	1.06	0.15	0.55	1.84	1.84	0.26	0.97	2.57	2.57	0.37	1.57	3.22	3.22	0.46	2.9
		17	-	-	-	-	1.06	1.06	0.15	0.55	1.84	1.84	0.26	0.97	2.57	2.57	0.37	1.58	3.23	3.23	0.46	2.91
		19	-	-	-	-	1.06	1.06	0.15	0.55	1.85	1.85	0.27	0.97	2.57	2.57	0.37	1.58	3.23	3.23	0.46	2.92
		20	-	-	-	-	1.06	1.06	0.15	0.55	1.85	1.84	0.27	0.97	2.57	2.57	0.37	1.58	3.23	3.23	0.46	2.92

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

Heating Capacity Table

MDVF-800D304FF													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
°C	°C	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa
40	8	4.53	0.49	16.44	4.02	0.43	13.39	3.51	0.38	10.6	3	0.32	8.03
	10	4.13	0.36	9.57	3.61	0.31	7.6	3.09	0.27	5.82	2.56	0.22	4.21
	12	3.71	0.27	5.87	3.17	0.23	4.5	2.62	0.19	3.25	2.04	0.15	2.02
	14	3.22	0.2	3.59	2.64	0.16	2.51	2.1	0.13	1.44	1.59	0.1	0.71
	16	2.69	0.15	1.92	2.18	0.12	1.1	1.65	0.09	0.62	1.02	0.06	0.38
45	8	5.81	0.63	24.63	5.3	0.57	21.02	4.8	0.52	17.66	4.29	0.46	14.64
	10	5.44	0.47	14.99	4.93	0.43	12.64	4.42	0.38	10.47	3.9	0.34	8.46
	12	5.05	0.36	9.72	4.54	0.33	8.07	4.02	0.29	6.55	3.49	0.25	5.15
	14	4.63	0.29	6.45	4.1	0.25	5.24	3.56	0.22	4.12	3.01	0.19	3.1
	16	4.18	0.23	4.35	3.63	0.2	3.42	3.06	0.16	2.55	2.48	0.13	1.65
50	8	7.08	0.76	34.22	6.58	0.71	29.97	6.07	0.66	26.19	5.57	0.6	22.52
	10	6.73	0.58	21.32	6.22	0.54	18.59	5.72	0.49	16.04	5.21	0.45	13.64
	12	6.36	0.46	14.09	5.85	0.42	12.18	5.34	0.38	10.4	4.82	0.35	8.73
	14	5.98	0.37	9.74	5.46	0.34	8.33	4.94	0.3	7.01	4.42	0.27	5.79
	16	5.57	0.3	6.9	5.04	0.27	5.82	4.51	0.24	4.81	3.97	0.21	3.89
55	8	8.36	0.9	45.01	7.85	0.85	40.31	7.34	0.79	35.75	6.84	0.74	31.46
	10	8.02	0.69	28.36	7.5	0.65	25.16	6.99	0.6	22.26	6.49	0.56	19.52
	12	7.66	0.55	19.13	7.15	0.51	16.96	6.64	0.48	14.91	6.13	0.44	12.92
	14	7.3	0.45	13.47	6.78	0.42	11.88	6.27	0.39	10.37	5.75	0.36	8.94
	16	6.92	0.37	9.8	6.4	0.35	8.56	5.88	0.32	7.4	5.35	0.29	6.31
60	8	9.63	1.04	56.53	9.12	0.98	51.6	8.61	0.93	46.39	8.1	0.87	41.69
	10	9.3	0.8	36.05	8.78	0.76	32.57	8.28	0.71	29.39	7.77	0.67	26.35
	12	8.95	0.64	24.54	8.42	0.61	22.14	7.93	0.57	19.85	7.42	0.53	17.68
	14	8.59	0.53	17.54	8.08	0.5	15.76	7.57	0.47	14.06	7.06	0.43	12.45
	16	8.24	0.44	12.99	7.72	0.42	11.61	7.2	0.39	10.3	6.69	0.36	9.05

Abbreviations:

Δt: Temperature Difference. (°C) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

4-Pipe Duct MDVF-FF Series



Cooling Capacity Table

MDVF-1000D304FF																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	3	15	7.15	5.43	2.06	49.13	7.11	6.2	2.05	48.71	7.27	7	2.1	50.63	7.78	7.77	2.23	56.2	8.54	8.54	2.46	66.98	
		17	9.45	5.46	2.71	79.02	9.4	6.23	2.7	78.19	9.35	6.99	2.69	77.73	9.3	7.75	2.69	77.74	9.28	8.51	2.68	77.53	
		19	-	-	-	-	11.87	6.26	3.42	118.11	11.81	7.03	3.41	117.9	11.75	7.78	3.41	117.51	11.68	8.53	3.39	116.41	
		20	-	-	-	-	13.2	6.28	3.84	144.52	13.11	7.04	3.79	141.8	13.04	7.8	3.77	140.21	12.95	8.54	3.74	138.04	
	4	15	6.3	5.03	1.35	23.66	6.43	5.84	1.38	24.54	6.8	6.67	1.46	27.01	7.46	7.46	1.6	31.71	8.22	8.22	1.76	37.48	
		17	8.69	5.1	1.86	41.17	8.63	5.87	1.85	40.73	8.58	6.64	1.84	40.32	8.56	7.4	1.84	40.11	8.7	8.19	1.87	41.32	
		19	-	-	-	-	11.15	5.92	2.41	64.12	11.09	6.69	2.4	63.48	11.03	7.45	2.38	62.85	10.96	8.2	2.37	62.23	
		20	-	-	-	-	12.46	5.93	2.68	77.05	12.4	6.71	2.67	76.76	12.33	7.47	2.67	76.43	12.26	8.22	2.65	75.67	
	5	15	5.45	4.62	0.93	12.59	5.82	5.48	1	14.09	6.38	6.34	1.1	16.62	7.13	7.13	1.23	20.11	7.9	7.9	1.36	23.75	
		17	7.81	4.7	1.34	23.25	7.76	5.47	1.33	23	7.73	6.25	1.33	22.85	7.87	7.05	1.35	23.57	8.18	7.86	1.4	25.22	
		19	-	-	-	-	10.37	5.57	1.79	38.04	10.29	6.33	1.78	37.67	10.24	7.09	1.76	37.3	10.18	7.84	1.75	36.93	
		20	-	-	-	-	11.68	5.58	2.01	46.53	11.61	6.35	1.99	46.07	11.55	7.11	1.98	45.62	11.48	7.87	1.97	45.17	
	6	15	4.71	4.22	0.67	6.55	5.25	5.11	0.75	8.46	5.97	5.96	0.85	10.79	6.78	6.78	0.97	13.44	7.56	7.56	1.09	16.2	
		17	6.82	4.26	0.98	13.56	6.78	5.04	0.97	13.41	6.93	5.86	0.99	13.91	7.25	6.7	1.04	15.05	7.71	7.54	1.1	16.62	
		19	-	-	-	-	9.45	5.16	1.35	23.48	9.39	5.93	1.34	23.24	9.33	6.69	1.34	23.01	9.3	7.45	1.33	22.87	
		20	-	-	-	-	10.84	5.21	1.56	29.92	10.77	5.98	1.55	29.62	10.71	6.74	1.54	29.33	10.65	7.5	1.53	29.03	
7	3	15	5.42	4.63	1.57	30.11	5.66	5.45	1.64	32.48	6.25	6.24	1.81	38.52	7.01	7.01	2.01	46.47	7.77	7.77	2.23	55.55	
		17	7.73	4.66	2.22	55.04	7.68	5.43	2.21	54.43	7.63	6.2	2.19	53.8	7.66	6.97	2.2	54.16	7.92	7.77	2.28	57.77	
		19	-	-	-	-	10.17	5.47	2.93	89.03	10.11	6.24	2.91	88.07	10.06	7	2.91	87.63	10.01	7.76	2.9	87.61	
		20	-	-	-	-	11.49	5.49	3.33	111.44	11.43	6.26	3.33	110.89	11.37	7.02	3.31	109.77	11.28	7.77	3.26	106.96	
	4	15	4.71	4.26	1.02	14.35	5.19	5.11	1.12	16.8	5.92	5.92	1.27	21.06	6.7	6.7	1.44	26.02	7.47	7.47	1.62	31.68	
		17	6.87	4.28	1.48	27.17	6.83	5.06	1.47	26.85	6.85	5.84	1.47	26.99	7.09	6.66	1.53	28.93	7.53	7.47	1.63	32.09	
		19	-	-	-	-	9.39	5.12	2.03	47.02	9.33	5.9	2.02	46.54	9.28	6.66	2.01	46.05	9.22	7.41	2	45.54	
		20	-	-	-	-	10.72	5.15	2.32	59.21	10.64	5.91	2.29	57.9	10.58	6.68	2.28	57.31	10.52	7.43	2.27	56.81	
	5	15	4.05	3.87	0.7	7.24	4.75	4.75	0.82	9.88	5.57	5.57	0.96	12.92	6.37	6.37	1.1	16.28	7.14	7.14	1.23	19.74	
		17	5.86	3.85	1.01	14.07	5.88	4.65	1.01	14.14	6.14	5.49	1.06	15.27	6.57	6.33	1.13	17.15	7.16	7.15	1.23	19.81	
		19	-	-	-	-	8.51	4.75	1.47	26.8	8.45	5.52	1.46	26.34	8.4	6.29	1.38	32.8	8.41	7.05	1.45	26.06	
		20	-	-	-	-	9.85	4.78	1.7	34.25	9.79	5.55	1.69	33.9	9.73	6.32	1.68	33.54	9.68	7.07	1.67	33.2	
	6	15	3.66	3.58	0.53	3.51	4.37	4.36	0.63	5.58	5.18	5.18	0.74	8.25	6	6	0.86	10.72	6.81	6.81	0.98	13.36	
		17	4.65	3.35	0.67	6.56	4.97	4.22	0.71	7.61	5.47	5.11	0.78	9.15	6.08	5.99	0.87	10.95	6.82	6.81	0.98	13.38	
		19	-	-	-	-	7.47	4.32	1.07	15.51	7.41	5.09	1.06	15.32	7.45	5.88	1.07	15.44	7.67	6.7	1.1	16.25	
		20	-	-	-	-	8.9	4.38	1.28	21	8.85	5.16	1.27	20.78	8.79	5.93	1.26	20.56	8.75	6.69	1.26	20.39	



(Continued)

MDVF-1000D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
9	3	15	3.97	3.87	1.14	17.26	4.68	4.68	1.34	22.82	5.47	5.47	1.58	30.23	6.24	6.24	1.79	37.44	7.01	7.01	2.03	46.38
		17	5.85	3.84	1.68	33.45	5.81	4.62	1.67	33.02	5.93	5.43	1.7	34.28	6.31	6.24	1.81	38.13	7.02	7.02	2.03	46.5
		19	-	-	-	-	8.35	4.67	2.42	62.74	8.3	5.45	2.41	62.25	8.23	6.21	2.37	60.48	8.18	6.97	2.36	59.96
		20	-	-	-	-	9.65	4.68	2.79	80.19	9.6	5.46	2.77	79.33	9.54	6.23	2.75	78.44	9.48	6.98	2.73	77.6
	4	15	3.51	3.5	0.75	8.5	4.34	4.34	0.93	12.19	5.14	5.14	1.11	16.32	5.93	5.93	1.28	20.89	6.7	6.7	1.45	25.93
		17	4.84	3.43	1.04	14.67	4.98	4.25	1.07	15.44	5.37	5.11	1.16	17.6	5.94	5.94	1.28	20.98	6.71	6.71	1.45	25.99
		19	-	-	-	-	7.45	4.3	1.6	30.76	7.4	5.08	1.59	30.41	7.36	5.85	1.59	30.11	7.47	6.64	1.61	30.95
		20	-	-	-	-	8.82	4.34	1.91	41.61	8.77	5.12	1.9	41.16	8.71	5.89	1.89	40.72	8.64	6.64	1.86	39.73
	5	15	3.14	3.14	0.54	3.9	3.94	3.94	0.68	6.9	4.78	4.78	0.82	9.81	5.59	5.59	0.96	12.8	6.38	6.38	1.1	16.02
		17	3.76	2.97	0.65	6.19	4.25	3.88	0.73	8	4.86	4.76	0.84	10.09	5.59	5.59	0.96	12.82	6.39	6.39	1.1	16.06
		19	-	-	-	-	6.43	3.9	1.11	16.19	6.38	4.68	1.1	16	6.53	5.49	1.12	16.66	6.85	6.32	1.18	18.09
		20	-	-	-	-	7.84	3.95	1.35	22.78	7.79	4.73	1.34	22.53	7.73	5.5	1.33	22.25	7.76	6.28	1.34	22.38
	6	15	2.86	2.86	0.41	1.93	3.61	3.61	0.52	3.51	4.39	4.39	0.63	5.83	5.22	5.22	0.75	8.32	6.03	6.03	0.87	10.65
		17	3.18	2.69	0.46	2.48	3.73	3.55	0.53	3.82	4.41	4.39	0.63	5.88	5.23	5.23	0.75	8.34	6.04	6.04	0.87	10.67
		19	-	-	-	-	5.14	3.41	0.74	8.08	5.37	4.25	0.77	8.71	5.78	5.12	0.83	9.88	6.29	5.99	0.9	11.42
		20	-	-	-	-	6.72	3.52	0.96	12.74	6.66	4.29	0.96	12.56	6.71	5.09	0.96	12.71	6.95	5.92	1	13.53
11	3	15	3.08	3.08	0.88	10.85	3.89	3.89	1.11	16.19	4.69	4.69	1.34	22.28	5.47	5.47	1.56	29.02	6.24	6.24	1.79	36.69
		17	3.79	3.01	1.08	15.45	4.12	3.86	1.18	17.83	4.69	4.69	1.34	22.33	5.48	5.48	1.56	29.09	6.25	6.25	1.79	36.79
		19	-	-	-	-	6.35	3.86	1.82	37.75	6.3	4.64	1.81	37.27	6.32	5.42	1.81	37.45	6.55	6.23	1.89	40.21
		20	-	-	-	-	7.7	3.89	2.22	53.15	7.65	4.67	2.2	52.56	7.6	5.44	2.19	51.94	7.55	6.2	2.17	51.35
	4	15	2.69	2.69	0.58	4.74	3.53	3.53	0.76	8.39	4.35	4.35	0.93	11.98	5.15	5.15	1.1	15.96	5.93	5.93	1.27	20.34
		17	2.94	2.61	0.63	5.88	3.59	3.52	0.77	8.63	4.36	4.35	0.93	12	5.16	5.16	1.11	16	5.94	5.94	1.27	20.39
		19	-	-	-	-	5.3	3.46	1.13	16.71	5.34	4.26	1.14	16.96	5.62	5.09	1.21	18.54	6.07	5.93	1.3	21.17
		20	-	-	-	-	6.71	3.51	1.44	25.11	6.67	4.29	1.43	24.81	6.63	5.07	1.42	24.55	6.76	5.87	1.45	25.44
	5	15	2.41	2.41	0.41	1.98	3.16	3.16	0.54	4.12	3.98	3.98	0.69	7.05	4.81	4.81	0.83	9.77	5.61	5.61	0.96	12.58
		17	2.5	2.34	0.43	2.17	3.17	3.17	0.55	4.14	3.99	3.99	0.69	7.07	4.82	4.82	0.83	9.79	5.61	5.61	0.96	12.61
		19	-	-	-	-	4.1	3.01	0.71	7.42	4.51	3.89	0.78	8.75	5.04	4.77	0.87	10.56	5.65	5.61	0.97	12.76
		20	-	-	-	-	5.58	3.09	0.96	12.53	5.54	3.88	0.95	12.39	5.72	4.69	0.98	13	6.09	5.54	1.05	14.48
	6	15	2.06	2.06	0.3	1.2	2.88	2.88	0.41	1.99	3.63	3.63	0.52	3.69	4.42	4.42	0.63	5.97	5.25	5.25	0.75	8.23
		17	2.08	2.05	0.3	1.21	2.88	2.88	0.41	1.99	3.63	3.63	0.52	3.71	4.43	4.43	0.63	5.99	5.26	5.26	0.75	8.25
		19	-	-	-	-	3.3	2.66	0.47	2.86	3.84	3.54	0.55	4.3	4.5	4.41	0.64	6.2	5.26	5.26	0.75	8.27
		20	-	-	-	-	4.09	2.56	0.59	5.06	4.39	3.42	0.63	5.91	4.91	4.32	0.7	7.33	5.5	5.21	0.79	8.89

4-Pipe Duct MDVF-FF Series



(Continued)

MDVF-1000D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
13	3	15	2.25	2.25	0.65	6.3	3.1	3.1	0.89	10.92	3.9	3.9	1.12	16.23	4.69	4.69	1.35	22.26	5.46	5.46	1.56	28.57
		17	2.27	2.25	0.65	6.41	3.1	3.1	0.89	10.94	3.91	3.91	1.12	16.27	4.7	4.7	1.35	22.32	5.47	5.47	1.56	28.65
		19	-	-	-	-	4.12	3.02	1.18	17.75	4.34	3.86	1.25	19.45	4.79	4.69	1.38	23.01	5.48	5.48	1.56	28.72
		20	-	-	-	-	5.49	3.05	1.57	28.81	5.44	3.83	1.55	28.36	5.5	4.63	1.57	28.86	5.78	5.45	1.65	31.46
	4	15	1.93	1.93	0.42	2.05	2.71	2.71	0.58	5.03	3.55	3.55	0.76	8.33	4.36	4.36	0.94	11.85	5.16	5.16	1.11	15.93
		17	1.93	1.92	0.42	2.04	2.71	2.71	0.58	5.05	3.55	3.55	0.76	8.35	4.37	4.37	0.94	11.88	5.17	5.17	1.11	15.97
		19	-	-	-	-	3.12	2.61	0.67	6.67	3.71	3.52	0.79	8.98	4.38	4.38	0.94	11.93	5.18	5.18	1.12	16.02
		20	-	-	-	-	4.29	2.63	0.92	11.5	4.41	3.45	0.94	12.04	4.78	4.3	1.03	13.84	5.3	5.16	1.14	16.65
	5	15	1.58	1.58	0.27	1.06	2.4	2.4	0.41	2.02	3.17	3.17	0.54	4.25	4	4	0.69	6.99	4.82	4.82	0.83	9.59
		17	1.59	1.59	0.27	1.06	2.41	2.41	0.41	2.02	3.17	3.17	0.54	4.26	4.01	4.01	0.69	7	4.83	4.83	0.83	9.62
		19	-	-	-	-	2.54	2.31	0.44	2.35	3.2	3.16	0.55	4.36	4.01	4.01	0.69	7.02	4.84	4.84	0.83	9.64
		20	-	-	-	-	3	2.17	0.51	3.7	3.52	3.06	0.6	5.48	4.17	3.97	0.72	7.5	4.86	4.83	0.83	9.73
	6	15	1.19	1.19	0.17	0.65	2.08	2.08	0.3	1.14	2.88	2.88	0.41	2.03	3.64	3.64	0.52	3.82	4.45	4.45	0.64	6.08
		17	1.19	1.19	0.17	0.65	2.08	2.08	0.3	1.14	2.88	2.88	0.41	2.04	3.64	3.64	0.52	3.83	4.46	4.46	0.64	6.1
		19	-	-	-	-	2.12	2.04	0.3	1.16	2.89	2.89	0.41	2.05	3.65	3.65	0.52	3.84	4.46	4.46	0.64	6.12
		20	-	-	-	-	2.39	1.91	0.34	1.35	3.02	2.79	0.43	2.33	3.68	3.63	0.53	3.95	4.46	4.46	0.64	6.12
15	3	15	1.45	1.45	0.41	2.06	2.26	2.26	0.64	6.23	3.1	3.1	0.88	10.63	3.91	3.91	1.12	16.01	4.68	4.68	1.34	21.61
		17	1.45	1.45	0.41	2.07	2.26	2.26	0.65	6.24	3.1	3.1	0.89	10.66	3.91	3.91	1.12	16.05	4.69	4.69	1.34	21.66
		19	-	-	-	-	2.32	2.25	0.66	6.52	3.1	3.09	0.88	10.65	3.92	3.92	1.13	16.1	4.7	4.7	1.34	21.72
		20	-	-	-	-	3	2.18	0.86	10.07	3.39	3.05	0.97	12.42	3.96	3.91	1.14	16.4	4.7	4.7	1.34	21.75
	4	15	1.1	1.1	0.24	0.88	1.93	1.93	0.41	2.09	2.72	2.72	0.58	5.1	3.56	3.56	0.76	8.27	4.38	4.38	0.94	11.85
		17	1.1	1.1	0.24	0.89	1.93	1.93	0.41	2.09	2.72	2.72	0.58	5.12	3.57	3.57	0.77	8.29	4.39	4.39	0.95	11.88
		19	-	-	-	-	1.93	1.93	0.41	2.1	2.73	2.73	0.58	5.13	3.57	3.57	0.77	8.32	4.39	4.39	0.95	11.92
		20	-	-	-	-	2.12	1.82	0.45	2.71	2.79	2.71	0.6	5.38	3.57	3.57	0.77	8.31	4.4	4.4	0.95	11.93
	5	15	0.68	0.68	0.12	0.43	1.61	1.61	0.28	1.02	2.41	2.41	0.42	2.14	3.19	3.19	0.55	4.48	4.03	4.03	0.69	7.02
		17	0.68	0.68	0.12	0.43	1.61	1.61	0.28	1.03	2.41	2.41	0.42	2.15	3.2	3.2	0.55	4.49	4.04	4.04	0.7	7.04
		19	-	-	-	-	1.61	1.61	0.28	1.03	2.42	2.42	0.42	2.15	3.2	3.2	0.55	4.51	4.04	4.04	0.7	7.06
		20	-	-	-	-	1.67	1.56	0.29	1.06	2.42	2.41	0.42	2.17	3.2	3.2	0.55	4.52	4.05	4.05	0.7	7.07
	6	15	-	-	-	-	1.21	1.21	0.17	0.63	2.1	2.1	0.3	1.11	2.89	2.89	0.41	2.14	3.66	3.66	0.53	4.03
		17	-	-	-	-	1.21	1.21	0.17	0.63	2.1	2.1	0.3	1.11	2.89	2.89	0.42	2.15	3.66	3.66	0.53	4.04
		19	-	-	-	-	1.21	1.21	0.17	0.63	2.1	2.1	0.3	1.11	2.89	2.89	0.42	2.16	3.67	3.67	0.53	4.05
		20	-	-	-	-	1.21	1.21	0.17	0.63	2.1	2.1	0.3	1.11	2.89	2.89	0.42	2.16	3.67	3.67	0.53	4.06

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

Heating Capacity Table

MDVF-1000D304FF													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
°C	°C	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa
40	8	5.19	0.56	20.8	4.61	0.5	16.95	4.03	0.44	13.45	3.45	0.37	10.28
	10	4.75	0.41	12.15	4.16	0.36	9.69	3.57	0.31	7.45	2.97	0.26	5.43
	12	4.28	0.31	7.51	3.68	0.26	5.79	3.06	0.22	4.23	2.4	0.17	2.81
	14	3.76	0.23	4.64	3.12	0.19	3.39	2.44	0.15	2.11	1.84	0.11	1
	16	3.15	0.17	2.73	2.51	0.14	1.61	1.93	0.1	0.81	1.22	0.07	0.45
45	8	6.64	0.72	31.25	6.06	0.65	26.53	5.5	0.59	22.31	4.91	0.53	18.41
	10	6.23	0.54	19.05	5.65	0.49	16	5.07	0.44	13.27	4.49	0.39	10.75
	12	5.8	0.42	12.34	5.21	0.38	10.26	4.63	0.33	8.35	4.03	0.29	6.59
	14	5.34	0.33	8.22	4.74	0.29	6.71	4.13	0.25	5.31	3.51	0.22	4.02
	16	4.85	0.26	5.6	4.23	0.23	4.43	3.59	0.19	3.36	2.91	0.16	2.33
50	8	8.08	0.87	43.01	7.51	0.81	37.98	6.93	0.75	32.95	6.36	0.69	28.26
	10	7.69	0.66	26.79	7.04	0.62	23.49	6.54	0.57	20.27	5.96	0.52	17.26
	12	7.28	0.52	17.82	6.72	0.48	15.42	6.12	0.44	13.17	5.54	0.4	11.08
	14	6.86	0.42	12.39	6.27	0.39	10.58	5.68	0.35	8.92	5.09	0.31	7.38
	16	6.41	0.35	8.78	5.81	0.31	7.42	5.21	0.28	6.15	4.6	0.25	4.97
55	8	9.53	1.03	56.41	8.95	0.97	50.79	8.38	0.9	45.17	7.8	0.84	39.88
	10	9.15	0.79	35.68	8.57	0.74	31.88	7.99	0.69	28.21	7.41	0.64	24.64
	12	8.76	0.63	24.05	8.18	0.59	21.42	7.6	0.55	18.84	7.02	0.51	16.41
	14	8.35	0.51	17	7.76	0.48	14.98	7.18	0.44	13.13	6.6	0.41	11.33
	16	7.92	0.43	12.37	7.34	0.4	10.86	6.75	0.36	9.4	6.16	0.33	8.02
60	8	10.97	1.18	71.27	10.39	1.12	64.96	9.81	1.06	58.44	9.24	1	52.8
	10	10.6	0.91	45.33	10.02	0.86	41.04	9.44	0.81	37.05	8.86	0.76	33.09
	12	10.22	0.74	31.07	9.63	0.69	27.93	9.05	0.65	25.05	8.48	0.61	22.32
	14	9.83	0.61	22.22	9.24	0.57	19.9	8.66	0.53	17.76	8.08	0.5	15.74
	16	9.42	0.51	16.42	8.84	0.48	14.68	8.25	0.45	13.03	7.66	0.41	11.47

Abbreviations:

Δt: Temperature Difference. (°C) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

4-Pipe Duct MDVF-FF Series



Cooling Capacity Table

MDVF-1200D304FF																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	3	15	8.42	6.41	2.41	43.53	8.38	7.33	2.4	43.2	8.59	8.28	2.47	45.41	9.21	9.21	2.64	50.9	10.11	10.11	2.9	59.84	
		17	11.19	6.46	3.23	72.41	11.13	7.38	3.21	71.66	11.04	8.28	3.17	69.83	10.98	9.17	3.15	69.09	10.97	10.07	3.14	68.97	
		19	-	-	-	-	14.07	7.41	4.08	108.26	13.98	8.32	4.05	107.15	13.9	9.22	4.03	106.06	13.82	10.11	4	105.01	
		20	-	-	-	-	15.6	7.42	4.5	128.47	15.52	8.34	4.5	128.48	15.44	9.24	4.48	127.73	15.35	10.13	4.45	126.42	
	4	15	7.42	5.95	1.6	21.46	7.59	6.91	1.64	22.32	8.03	7.89	1.72	24.38	8.83	8.83	1.89	28.7	9.73	9.73	2.09	33.94	
		17	10.24	6.02	2.2	37.01	10.18	6.94	2.18	36.63	10.12	7.85	2.17	36.24	10.09	8.75	2.17	36.1	10.28	9.69	2.21	37.27	
		19	-	-	-	-	13.18	7	2.85	57.83	13.1	7.91	2.83	57.25	13.03	8.81	2.81	56.68	12.94	9.7	2.79	55.78	
		20	-	-	-	-	14.73	7.01	3.17	69.53	14.64	7.92	3.15	68.83	14.56	8.83	3.13	68.15	14.47	9.72	3.11	67.47	
	5	15	6.37	5.43	1.09	11.17	6.83	6.46	1.17	12.61	7.52	7.49	1.3	14.97	8.43	8.43	1.45	18.17	9.33	9.33	1.6	21.47	
		17	9.18	5.54	1.58	20.87	9.14	6.46	1.57	20.82	9.1	7.38	1.57	20.69	9.26	8.33	1.59	21.17	9.65	9.3	1.66	22.73	
		19	-	-	-	-	12.2	6.56	2.1	34.21	12.13	7.47	2.09	33.86	12.06	8.37	2.08	33.52	11.99	9.27	2.07	33.17	
		20	-	-	-	-	13.78	6.58	2.37	41.87	13.7	7.5	2.35	41.45	13.62	8.4	2.34	41.04	13.55	9.3	2.33	40.85	
	6	15	5.54	4.99	0.79	5.58	6.17	6.01	0.88	7.31	7.02	7.02	1.01	9.62	7.99	7.99	1.15	12.11	8.93	8.93	1.28	14.62	
		17	7.95	5	1.14	11.98	7.91	5.92	1.13	11.86	8.11	6.9	1.16	12.38	8.51	7.91	1.22	13.47	9.09	8.9	1.3	15.07	
		19	-	-	-	-	11.09	6.07	1.59	20.99	11.02	6.98	1.58	20.77	10.96	7.89	1.57	20.56	10.93	8.8	1.56	20.47	
		20	-	-	-	-	12.73	6.12	1.82	26.58	12.65	7.04	1.81	26.31	12.58	7.94	1.8	26.05	12.51	8.84	1.79	25.79	
7	3	15	6.36	5.46	1.83	26.58	6.69	6.45	1.93	29.32	7.4	7.39	2.14	34.89	8.3	8.3	2.38	42.09	9.21	9.21	2.66	51.01	
		17	9.12	5.5	2.62	49.57	9.07	6.43	2.61	49.02	9.01	7.34	2.59	48.47	9.05	8.26	2.6	48.86	9.36	9.2	2.7	52.03	
		19	-	-	-	-	12.03	6.47	3.47	80.35	11.96	7.38	3.44	79.52	11.88	8.29	3.42	78.68	11.81	9.18	3.4	77.86	
		20	-	-	-	-	13.6	6.49	3.95	101.1	13.53	7.41	3.93	100.08	13.45	8.31	3.91	99.06	13.37	9.21	3.88	98.03	
	4	15	5.52	5.02	1.19	12.83	6.13	6.05	1.32	15.31	7	7	1.5	19.03	7.92	7.92	1.7	23.54	8.83	8.83	1.9	28.38	
		17	8.08	5.05	1.74	24.34	8.03	5.97	1.73	24.06	8.07	6.91	1.73	24.25	8.35	7.87	1.8	25.77	8.9	8.84	1.92	29.02	
		19	-	-	-	-	11.08	6.05	2.4	42.32	11.01	6.97	2.38	41.88	10.95	7.88	2.37	41.44	10.88	8.77	2.35	40.98	
		20	-	-	-	-	12.66	6.08	2.74	53.36	12.59	7	2.73	52.81	12.51	7.91	2.71	52.27	12.44	8.8	2.69	51.73	
	5	15	4.77	4.56	0.82	6.21	5.59	5.59	0.96	8.81	6.56	6.56	1.13	11.64	7.51	7.51	1.29	14.65	8.44	8.44	1.45	17.84	
		17	6.84	4.52	1.18	12.45	6.87	5.47	1.18	12.56	7.2	6.47	1.24	13.6	7.73	7.48	1.33	15.4	8.45	8.45	1.45	17.9	
		19	-	-	-	-	9.98	5.59	1.72	23.74	9.92	6.5	1.71	23.49	9.85	7.41	1.7	29.6	9.9	8.34	1.7	23.39	
		20	-	-	-	-	11.63	5.64	2.01	31.09	11.56	6.56	2	30.77	11.49	7.47	1.99	30.45	11.42	8.37	1.97	30.14	
	6	15	4.34	4.24	0.62	3.02	5.16	5.16	0.74	4.78	6.09	6.09	0.87	7.24	7.07	7.07	1.01	9.64	8.02	8.02	1.15	11.94	
		17	5.44	3.94	0.78	5.53	5.81	4.97	0.83	6.51	6.4	6.02	0.92	8.04	7.14	7.05	1.02	9.82	8.03	8.03	1.15	11.97	
		19	-	-	-	-	8.75	5.08	1.26	13.89	8.69	6	1.25	13.74	8.74	6.94	1.26	13.88	9	7.9	1.29	14.51	
		20	-	-	-	-	10.44	5.15	1.5	18.74	10.38	6.07	1.49	18.54	10.31	6.98	1.48	18.34	10.27	7.89	1.47	18.21	



4-Pipe Duct MDVF-FF Series

(Continued)

MDVF-1200D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
9	3	15	4.67	4.57	1.35	15.52	5.54	5.54	1.59	20.64	6.48	6.48	1.87	27.36	7.39	7.39	2.12	33.91	8.3	8.3	2.4	42.02
		17	6.91	4.55	2	30.59	6.86	5.47	1.99	30.21	7.02	6.43	2.03	31.38	7.46	7.39	2.14	34.48	8.31	8.31	2.41	42.13
		19	-	-	-	-	9.84	5.52	2.83	55.79	9.78	6.44	2.82	55.17	9.72	7.35	2.8	54.56	9.66	8.25	2.78	54.04
		20	-	-	-	-	11.43	5.55	3.32	73.44	11.36	6.47	3.3	72.66	11.29	7.38	3.28	71.89	11.22	8.28	3.26	71.09
	4	15	4.12	4.12	0.89	7.53	5.11	5.11	1.1	10.98	6.07	6.07	1.31	14.71	7.01	7.01	1.51	18.89	7.93	7.93	1.72	23.46
		17	5.65	4.03	1.22	13.01	5.86	5.03	1.27	13.94	6.32	6.03	1.36	15.76	7.02	7.02	1.52	18.96	7.94	7.94	1.72	23.52
		19	-	-	-	-	8.79	5.09	1.9	27.97	8.73	6.01	1.89	27.65	8.69	6.92	1.88	27.39	8.82	7.86	1.9	27.9
		20	-	-	-	-	10.38	5.12	2.24	36.92	10.31	6.04	2.22	36.53	10.25	6.95	2.21	36.13	10.18	7.85	2.19	35.71
	5	15	3.72	3.72	0.64	3.34	4.64	4.64	0.8	5.99	5.63	5.63	0.97	8.82	6.59	6.59	1.13	11.54	7.54	7.54	1.3	14.54
		17	4.39	3.5	0.76	5.24	4.96	4.56	0.85	6.97	5.71	5.61	0.98	9.04	6.6	6.6	1.14	11.56	7.55	7.55	1.3	14.58
		19	-	-	-	-	7.53	4.59	1.3	14.5	7.49	5.52	1.29	14.36	7.68	6.48	1.32	14.98	8.06	7.47	1.39	16.25
		20	-	-	-	-	9.21	4.65	1.59	20.36	9.15	5.57	1.58	20.13	9.08	6.49	1.56	19.88	9.12	7.42	1.57	20.05
	6	15	3.38	3.38	0.48	1.72	4.28	4.28	0.61	3.01	5.18	5.18	0.74	5.02	6.14	6.14	0.88	7.4	7.11	7.11	1.02	9.59
		17	3.76	3.19	0.54	2.14	4.41	4.2	0.63	3.27	5.19	5.18	0.74	5.05	6.15	6.15	0.88	7.42	7.12	7.12	1.02	9.61
		19	-	-	-	-	5.93	3.98	0.85	6.91	6.23	4.99	0.89	7.61	6.75	6.03	0.97	8.78	7.39	7.06	1.06	10.22
		20	-	-	-	-	7.82	4.11	1.12	11.24	7.76	5.04	1.11	11.08	7.83	5.99	1.12	11.26	8.15	6.98	1.17	12.07
11	3	15	3.63	3.63	1.03	9.77	4.6	4.6	1.32	14.74	5.55	5.55	1.58	20.15	6.47	6.47	1.85	26.29	7.38	7.38	2.11	33
		17	4.44	3.55	1.27	13.77	4.85	4.56	1.38	16.02	5.55	5.55	1.58	20.19	6.48	6.48	1.85	26.37	7.39	7.39	2.11	33.09
		19	-	-	-	-	7.48	4.56	2.14	33.91	7.41	5.48	2.12	33.16	7.44	6.41	2.13	33.43	7.74	7.37	2.22	36.03
		20	-	-	-	-	9.06	4.59	2.59	47.06	9	5.51	2.57	46.51	8.94	6.42	2.56	45.98	8.89	7.33	2.54	45.51
	4	15	3.18	3.18	0.68	4.06	4.15	4.15	0.89	7.52	5.14	5.14	1.1	10.8	6.09	6.09	1.3	14.42	7.02	7.02	1.5	18.39
		17	3.44	3.07	0.74	5.01	4.21	4.14	0.9	7.71	5.14	5.14	1.1	10.82	6.1	6.1	1.31	14.46	7.03	7.03	1.51	18.44
		19	-	-	-	-	6.2	4.07	1.33	14.86	6.27	5.03	1.34	15.14	6.62	6.02	1.42	16.64	7.17	7.01	1.54	19.09
		20	-	-	-	-	7.89	4.14	1.69	22.46	7.83	5.06	1.68	22.2	7.79	5.99	1.67	21.99	7.97	6.94	1.71	22.85
	5	15	2.85	2.85	0.49	1.74	3.74	3.74	0.64	3.53	4.68	4.68	0.81	6.21	5.67	5.67	0.98	8.79	6.62	6.62	1.14	11.45
		17	2.95	2.78	0.51	1.89	3.74	3.74	0.64	3.54	4.69	4.69	0.81	6.23	5.68	5.68	0.98	8.81	6.63	6.63	1.14	11.48
		19	-	-	-	-	4.74	3.52	0.82	6.38	5.26	4.58	0.91	7.74	5.92	5.62	1.02	9.45	6.68	6.64	1.15	11.6
		20	-	-	-	-	6.5	3.62	1.12	11.05	6.46	4.56	1.11	10.95	6.72	5.54	1.16	11.72	7.16	6.54	1.23	12.97
	6	15	2.43	2.43	0.35	1.12	3.41	3.41	0.49	1.74	4.29	4.29	0.62	3.17	5.2	5.2	0.74	5.18	6.18	6.18	0.88	7.38
		17	2.45	2.41	0.35	1.13	3.41	3.41	0.49	1.74	4.3	4.3	0.62	3.18	5.21	5.21	0.74	5.2	6.19	6.19	0.88	7.4
		19	-	-	-	-	3.9	3.15	0.56	2.45	4.53	4.18	0.65	3.66	5.28	5.19	0.75	5.37	6.19	6.19	0.89	7.42
		20	-	-	-	-	4.77	3.01	0.68	4.23	5.12	4.02	0.73	5	5.72	5.08	0.82	6.4	6.44	6.13	0.92	7.93

4-Pipe Duct MDVF-FF Series



(Continued)

MDVF-1200D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
13	3	15	2.65	2.65	0.76	5.5	3.65	3.65	1.05	9.84	4.61	4.61	1.31	14.44	5.55	5.55	1.6	20.14	6.47	6.47	1.86	26.24
		17	2.66	2.65	0.77	5.58	3.66	3.66	1.05	9.87	4.61	4.61	1.32	14.48	5.56	5.56	1.6	20.2	6.48	6.48	1.86	26.29
		19	-	-	-	-	4.83	3.57	1.39	15.81	5.11	4.56	1.47	17.46	5.65	5.55	1.62	20.76	6.49	6.49	1.87	26.33
		20	-	-	-	-	6.49	3.61	1.86	26.29	6.43	4.54	1.85	25.9	6.5	5.49	1.87	26.34	6.82	6.45	1.95	28.36
	4	15	2.29	2.29	0.49	1.78	3.19	3.19	0.69	4.33	4.18	4.18	0.89	7.49	5.15	5.15	1.1	10.69	6.1	6.1	1.31	14.4
		17	2.29	2.28	0.49	1.77	3.2	3.2	0.69	4.34	4.18	4.18	0.9	7.51	5.16	5.16	1.11	10.72	6.11	6.11	1.32	14.44
		19	-	-	-	-	3.62	3.07	0.78	5.76	4.35	4.15	0.93	8.02	5.17	5.17	1.11	10.75	6.12	6.12	1.32	14.48
		20	-	-	-	-	4.99	3.08	1.07	10.12	5.16	4.06	1.1	10.69	5.62	5.08	1.2	12.39	6.25	6.1	1.35	15
	5	15	1.86	1.86	0.32	0.99	2.85	2.85	0.49	1.75	3.74	3.74	0.64	3.64	4.7	4.7	0.81	6.23	5.69	5.69	0.98	8.64
		17	1.86	1.86	0.32	0.99	2.85	2.85	0.49	1.76	3.75	3.75	0.64	3.65	4.71	4.71	0.81	6.25	5.69	5.69	0.98	8.66
		19	-	-	-	-	3.01	2.74	0.52	2.02	3.77	3.74	0.65	3.72	4.72	4.71	0.81	6.26	5.7	5.7	0.98	8.68
		20	-	-	-	-	3.53	2.56	0.61	3.13	4.12	3.6	0.71	4.67	4.89	4.67	0.84	6.67	5.73	5.7	0.98	8.74
	6	15	1.39	1.39	0.2	0.6	2.44	2.44	0.35	1.07	3.41	3.41	0.49	1.76	4.3	4.3	0.61	3.27	5.23	5.23	0.75	5.34
		17	1.39	1.39	0.2	0.6	2.45	2.45	0.35	1.07	3.42	3.42	0.49	1.77	4.3	4.3	0.62	3.28	5.24	5.24	0.75	5.36
		19	-	-	-	-	2.49	2.41	0.36	1.09	3.42	3.42	0.49	1.77	4.31	4.31	0.62	3.29	5.25	5.25	0.75	5.38
		20	-	-	-	-	2.8	2.25	0.4	1.22	3.58	3.3	0.51	2	4.35	4.29	0.62	3.37	5.25	5.24	0.75	5.38
15	3	15	1.72	1.72	0.49	1.78	2.65	2.65	0.76	5.5	3.65	3.65	1.04	9.59	4.62	4.62	1.33	14.48	5.55	5.55	1.6	19.84
		17	1.72	1.72	0.49	1.79	2.66	2.66	0.76	5.52	3.66	3.66	1.04	9.61	4.63	4.63	1.33	14.51	5.56	5.56	1.6	19.9
		19	-	-	-	-	2.72	2.65	0.78	5.77	3.66	3.65	1.04	9.61	4.63	4.63	1.33	14.55	5.57	5.57	1.6	19.95
		20	-	-	-	-	3.5	2.57	1	8.89	3.99	3.6	1.14	11.11	4.68	4.63	1.34	14.8	5.57	5.57	1.6	19.98
	4	15	1.3	1.3	0.28	0.83	2.29	2.29	0.49	1.8	3.2	3.2	0.69	4.42	4.2	4.2	0.9	7.45	5.17	5.17	1.11	10.7
		17	1.3	1.3	0.28	0.83	2.29	2.29	0.49	1.8	3.21	3.21	0.69	4.43	4.21	4.21	0.9	7.46	5.18	5.18	1.12	10.73
		19	-	-	-	-	2.29	2.29	0.49	1.81	3.21	3.21	0.69	4.45	4.21	4.21	0.9	7.48	5.19	5.19	1.12	10.76
		20	-	-	-	-	2.51	2.16	0.54	2.32	3.27	3.18	0.7	4.65	4.21	4.2	0.9	7.48	5.19	5.19	1.12	10.77
	5	15	0.79	0.79	0.14	0.4	1.89	1.89	0.33	0.96	2.86	2.86	0.49	1.84	3.76	3.76	0.65	3.85	4.74	4.74	0.82	6.31
		17	0.79	0.79	0.14	0.4	1.89	1.89	0.33	0.96	2.86	2.86	0.49	1.85	3.77	3.77	0.65	3.87	4.75	4.75	0.82	6.32
		19	-	-	-	-	1.89	1.89	0.33	0.96	2.87	2.87	0.49	1.85	3.77	3.77	0.65	3.88	4.76	4.76	0.82	6.34
		20	-	-	-	-	1.96	1.84	0.34	0.99	2.87	2.86	0.5	1.87	3.77	3.77	0.65	3.89	4.76	4.76	0.82	6.35
	6	15	-	-	-	-	1.42	1.42	0.2	0.59	2.47	2.47	0.35	1.03	3.42	3.42	0.49	1.85	4.31	4.31	0.62	3.45
		17	-	-	-	-	1.42	1.42	0.2	0.59	2.47	2.47	0.36	1.03	3.42	3.42	0.49	1.85	4.32	4.32	0.62	3.47
		19	-	-	-	-	1.42	1.42	0.2	0.59	2.48	2.48	0.36	1.03	3.43	3.43	0.49	1.86	4.33	4.33	0.62	3.48
		20	-	-	-	-	1.42	1.42	0.2	0.59	2.48	2.47	0.36	1.03	3.43	3.43	0.49	1.86	4.33	4.33	0.62	3.49

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

Heating Capacity Table

MDVF-1200D304FF													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
°C	°C	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa
40	8	4.88	0.53	10.6	4.31	0.47	8.56	3.73	0.4	6.66	3.15	0.34	4.99
	10	4.37	0.38	5.99	3.79	0.33	4.69	3.19	0.28	3.51	2.58	0.22	2.44
	12	3.82	0.28	3.53	3.2	0.23	2.61	2.59	0.19	1.67	2.05	0.15	0.91
	14	3.19	0.2	1.88	2.64	0.16	1.15	2.12	0.13	0.66	1.53	0.09	0.43
	16	2.72	0.15	0.87	2.17	0.12	0.56	1.56	0.08	0.4	0.89	0.05	0.23
45	8	6.32	0.68	16.14	5.76	0.62	13.72	5.19	0.56	11.47	4.63	0.5	9.39
	10	5.86	0.51	9.65	5.29	0.46	8.09	4.71	0.41	6.64	4.14	0.36	5.31
	12	5.37	0.39	6.13	4.79	0.34	5.03	4.2	0.3	4.03	3.6	0.26	3.1
	14	4.83	0.3	3.94	4.23	0.26	3.15	3.61	0.22	2.41	2.98	0.18	1.66
	16	4.23	0.23	2.54	3.6	0.19	1.87	3.02	0.16	1.23	2.5	0.13	0.74
50	8	7.77	0.84	22.7	7.2	0.78	19.78	6.63	0.72	17.16	6.07	0.65	14.7
	10	7.32	0.63	13.93	6.75	0.58	12.11	6.19	0.53	10.4	5.62	0.49	8.81
	12	6.85	0.49	9.07	6.28	0.45	7.81	5.71	0.41	6.62	5.13	0.37	5.51
	14	6.37	0.39	6.16	5.79	0.36	5.23	5.2	0.32	4.36	4.61	0.28	3.55
	16	5.85	0.32	4.27	5.26	0.28	3.57	4.66	0.25	2.9	4.04	0.22	2.28
55	8	9.2	0.99	29.82	8.64	0.93	26.67	8.07	0.87	23.68	7.51	0.81	20.97
	10	8.77	0.76	18.62	8.21	0.71	16.56	7.63	0.66	14.62	7.07	0.61	12.84
	12	8.32	0.6	12.43	7.75	0.56	10.99	7.18	0.52	9.62	6.61	0.48	8.34
	14	7.86	0.49	8.69	7.29	0.45	7.63	6.72	0.41	6.62	6.14	0.38	5.67
	16	7.38	0.4	6.22	6.8	0.37	5.41	6.22	0.34	4.62	5.63	0.3	3.9
60	8	10.64	1.15	37.9	10.07	1.09	34.4	9.5	1.02	31.06	8.94	0.96	27.81
	10	10.22	0.88	23.97	9.65	0.83	21.68	9.08	0.78	19.49	8.51	0.74	17.42
	12	9.78	0.7	16.21	9.21	0.66	14.59	8.64	0.62	13.06	8.08	0.58	11.6
	14	9.34	0.57	11.43	8.76	0.54	10.24	8.19	0.5	9.11	7.62	0.47	8.04
	16	8.88	0.48	8.37	8.31	0.45	7.46	7.73	0.42	6.59	7.15	0.39	5.77

Abbreviations:

Δt: Temperature Difference. (°C) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

4-Pipe Duct MDVF-FF Series



Cooling Capacity Table

MDVF-1400D304FF																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
		°C	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
5	3	15	10.02	7.6	2.87	68.48	9.96	8.69	2.86	67.85	10.18	9.8	2.92	70.46	10.9	10.9	3.13	79.53	11.97	11.97	3.44	93.75
		17	13.28	7.65	3.85	113.81	13.2	8.74	3.83	112.67	13.13	9.81	3.8	111.55	13.05	10.88	3.77	109.65	13.03	11.95	3.76	109.53
		19	-	-	-	-	16.64	8.76	4.8	167.45	16.56	9.84	4.78	165.97	16.47	10.91	4.75	164.47	16.39	11.97	4.73	162.95
		20	-	-	-	-	18.47	8.78	5.33	200.96	18.38	9.86	5.3	199.11	18.28	10.93	5.27	197.37	18.19	11.99	5.25	195.57
	4	15	8.89	7.08	1.91	33.69	9.04	8.21	1.94	34.71	9.54	9.36	2.05	38.12	10.47	10.47	2.25	44.78	11.54	11.54	2.49	53.24
		17	12.22	7.16	2.64	59.01	12.16	8.25	2.63	58.46	12.09	9.33	2.61	57.9	12.04	10.4	2.6	57.47	12.23	11.5	2.64	59.05
		19	-	-	-	-	15.66	8.3	3.39	90.91	15.58	9.38	3.37	90.06	15.49	10.46	3.35	89.24	15.41	11.52	3.33	88.41
		20	-	-	-	-	17.48	8.31	3.77	109.27	17.39	9.4	3.75	108.25	17.3	10.47	3.73	107.3	17.21	11.53	3.71	106.32
	5	15	7.75	6.53	1.34	18.27	8.22	7.73	1.42	20.21	8.96	8.9	1.54	23.25	10.01	10.01	1.72	28.13	11.11	11.11	1.91	33.85
		17	11.06	6.63	1.91	33.54	11	7.72	1.9	33.22	10.94	8.81	1.89	32.91	11.09	9.92	1.91	33.74	11.52	11.06	1.99	36
		19	-	-	-	-	14.55	7.8	2.5	53.47	14.47	8.88	2.49	52.98	14.39	9.96	2.47	52.5	14.32	11.02	2.46	52.05
		20	-	-	-	-	16.42	7.83	2.83	66.25	16.33	8.91	2.81	65.57	16.25	9.99	2.8	64.87	16.16	11.06	2.78	64.2
	6	15	6.66	5.96	0.95	10.1	7.45	7.22	1.07	12.49	8.42	8.42	1.21	15.37	9.53	9.53	1.36	18.87	10.63	10.63	1.52	22.73
		17	9.7	6.03	1.39	19.4	9.64	7.13	1.38	19.18	9.79	8.26	1.4	19.7	10.21	9.43	1.46	21.2	10.85	10.6	1.55	23.53
		19	-	-	-	-	13.37	7.28	1.92	33.8	13.29	8.36	1.91	33.48	13.22	9.44	1.9	33.18	13.16	10.51	1.89	32.9
		20	-	-	-	-	15.28	7.33	2.19	42.55	15.2	8.42	2.18	42.16	15.12	9.49	2.17	41.78	15.03	10.56	2.16	41.4
7	3	15	7.58	6.48	2.18	41.81	7.92	7.62	2.27	45.08	8.75	8.74	2.51	53.62	9.84	9.84	2.84	66.18	10.9	10.9	3.14	78.7
		17	10.85	6.53	3.12	77.98	10.78	7.62	3.11	77.18	10.72	8.7	3.09	76.37	10.74	9.78	3.09	76.62	11.11	10.9	3.22	82.38
		19	-	-	-	-	14.26	7.66	4.12	126.28	14.18	8.74	4.1	125.14	14.1	9.82	4.08	123.94	14.04	10.88	4.08	123.83
		20	-	-	-	-	16.13	7.69	4.71	159.22	16.04	8.77	4.68	157.68	15.95	9.85	4.65	156.21	15.87	10.91	4.63	154.74
	4	15	6.62	5.98	1.42	20.09	7.29	7.18	1.57	23.71	8.31	8.31	1.8	30.01	9.4	9.4	2.02	36.7	10.48	10.48	2.27	44.75
		17	9.68	6.02	2.08	38.58	9.62	7.11	2.07	38.18	9.62	8.21	2.07	38.2	9.94	9.35	2.15	40.82	10.56	10.48	2.29	45.31
		19	-	-	-	-	13.17	7.18	2.84	65.83	13.1	8.27	2.82	65.2	13.02	9.34	2.81	64.57	12.96	10.41	2.8	64.25
		20	-	-	-	-	15.05	7.22	3.27	83.96	14.97	8.31	3.25	83.18	14.88	9.38	3.22	81.91	14.8	10.45	3.2	81.15
	5	15	5.75	5.46	0.99	10.77	6.7	6.69	1.15	14.01	7.83	7.83	1.35	18.24	8.94	8.94	1.54	22.88	10.04	10.04	1.74	28.12
		17	8.35	5.45	1.44	20.3	8.33	6.56	1.43	20.24	8.65	7.72	1.49	21.59	9.23	8.9	1.59	24.13	10.06	10.05	1.74	28.23
		19	-	-	-	-	11.97	6.67	2.06	37.7	11.9	7.76	2.05	37.32	11.9	8.89	1.99	49	11.83	9.92	2.04	36.96
		20	-	-	-	-	13.89	6.72	2.4	49.11	13.81	7.81	2.39	48.65	13.73	8.89	2.38	48.19	13.66	9.96	2.36	47.74
	6	15	5.09	4.98	0.73	5.39	6.14	6.14	0.88	8.56	7.31	7.31	1.05	11.87	8.45	8.45	1.21	15.18	9.57	9.57	1.37	18.81
		17	6.72	4.78	0.96	10.21	7.11	5.99	1.02	11.3	7.78	7.23	1.12	13.26	8.58	8.43	1.23	15.57	9.58	9.58	1.38	18.85
		19	-	-	-	-	10.63	6.11	1.53	22.43	10.56	7.2	1.52	22.2	10.56	8.3	1.52	22.18	10.84	9.44	1.56	23.28
		20	-	-	-	-	12.58	6.18	1.8	29.87	12.51	7.27	1.79	29.58	12.44	8.35	1.78	29.29	12.36	9.43	1.77	28.99



4-Pipe Duct MDVF-FF Series

(Continued)

MDVF-1400D304FF																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
9	3	15	5.56	5.42	1.6	24.14	6.56	6.56	1.89	32.13	7.67	7.67	2.22	42.63	8.75	8.75	2.52	52.87	9.82	9.82	2.83	64.7	
		17	8.25	5.4	2.39	48.3	8.19	6.5	2.37	47.7	8.33	7.62	2.41	49.13	8.84	8.75	2.54	53.84	9.83	9.83	2.83	64.86	
		19	-	-	-	-	11.72	6.55	3.41	89.27	11.64	7.64	3.38	88.01	11.58	8.72	3.37	87.43	11.49	9.78	3.31	85.1	
		20	-	-	-	-	13.56	6.57	3.95	115.63	13.49	7.66	3.93	114.47	13.41	8.74	3.91	113.3	13.33	9.81	3.88	112.18	
	4	15	4.95	4.94	1.06	12.08	6.09	6.09	1.31	17.26	7.22	7.22	1.56	23.23	8.31	8.31	1.79	29.3	9.4	9.4	2.03	36.21	
		17	6.89	4.84	1.49	21.27	7.03	5.99	1.52	22.06	7.55	7.17	1.63	25.04	8.34	8.33	1.8	29.43	9.41	9.41	2.03	36.3	
		19	-	-	-	-	10.52	6.06	2.28	44.31	10.45	7.15	2.26	43.84	10.38	8.23	2.25	43.35	10.51	9.34	2.28	44.3	
		20	-	-	-	-	12.37	6.08	2.67	58.21	12.32	7.18	2.67	58.16	12.25	8.27	2.66	57.82	12.18	9.34	2.64	57.21	
	5	15	4.4	4.39	0.76	6.08	5.57	5.57	0.96	10.07	6.74	6.74	1.16	14.01	7.86	7.86	1.35	18.07	8.96	8.96	1.54	22.63	
		17	5.39	4.22	0.93	9.5	6.04	5.48	1.04	11.53	6.87	6.71	1.18	14.41	7.86	7.86	1.35	18.1	8.97	8.97	1.55	22.68	
		19	-	-	-	-	9.12	5.5	1.57	23.27	9.05	6.59	1.56	22.98	9.21	7.73	1.59	23.69	9.63	8.88	1.66	25.6	
		20	-	-	-	-	11.07	5.56	1.91	32.47	11	6.66	1.9	32.14	10.93	7.74	1.88	31.79	10.93	8.83	1.88	31.77	
	6	15	3.99	3.99	0.57	2.9	5.05	5.05	0.72	5.47	6.2	6.2	0.89	8.76	7.36	7.36	1.06	11.82	8.49	8.49	1.22	15.06	
		17	4.41	3.75	0.63	3.84	5.22	4.97	0.75	5.96	6.22	6.2	0.89	8.82	7.37	7.37	1.06	11.84	8.5	8.5	1.22	15.1	
		19	-	-	-	-	7.47	4.87	1.07	12.06	7.67	6.03	1.1	12.64	8.19	7.23	1.18	14.14	8.87	8.43	1.27	16.21	
		20	-	-	-	-	9.58	4.99	1.37	18.45	9.52	6.08	1.37	18.24	9.52	7.19	1.37	18.26	9.83	8.34	1.41	19.28	
11	3	15	4.33	4.33	1.24	15.36	5.46	5.46	1.56	22.82	6.57	6.57	1.88	31.36	7.67	7.67	2.21	41.53	8.75	8.75	2.52	52.23	
		17	5.35	4.23	1.53	22.02	5.78	5.41	1.65	25.17	6.58	6.58	1.88	31.43	7.68	7.68	2.21	41.63	8.77	8.77	2.52	52.36	
		19	-	-	-	-	8.93	5.42	2.57	54.02	8.87	6.51	2.55	53.39	8.87	7.61	2.55	53.39	9.17	8.73	2.62	55.91	
		20	-	-	-	-	10.78	5.44	3.09	74.13	10.71	6.53	3.07	73.34	10.66	7.62	3.06	73.2	10.6	8.7	3.06	72.92	
	4	15	3.78	3.78	0.81	7.27	4.97	4.97	1.06	11.88	6.12	6.12	1.31	16.9	7.23	7.23	1.55	22.52	8.33	8.33	1.79	28.74	
		17	4.19	3.69	0.9	8.86	5.07	4.95	1.09	12.26	6.12	6.11	1.31	16.92	7.24	7.24	1.55	22.57	8.34	8.34	1.79	28.82	
		19	-	-	-	-	7.52	4.88	1.61	24.01	7.54	5.99	1.62	24.14	7.91	7.16	1.7	26.38	8.53	8.32	1.83	29.97	
		20	-	-	-	-	9.49	4.95	2.05	36.25	9.43	6.04	2.03	35.85	9.37	7.13	2.02	35.42	9.52	8.25	2.05	36.43	
	5	15	3.34	3.34	0.58	3.03	4.44	4.44	0.76	6.39	5.62	5.62	0.97	10.07	6.76	6.76	1.16	13.68	7.89	7.89	1.36	17.93	
		17	3.46	3.26	0.6	3.35	4.44	4.44	0.77	6.42	5.63	5.63	0.97	10.09	6.77	6.77	1.16	13.71	7.9	7.9	1.36	17.97	
		19	-	-	-	-	5.91	4.28	1.02	10.92	6.41	5.49	1.1	12.56	7.11	6.71	1.23	15	7.97	7.9	1.37	18.22	
		20	-	-	-	-	7.97	4.38	1.37	18.18	7.9	5.48	1.36	17.92	8.12	6.63	1.4	18.78	8.6	7.8	1.48	20.74	
	6	15	2.9	2.9	0.42	1.57	4	4	0.57	3.05	5.08	5.08	0.73	5.67	6.25	6.25	0.89	8.75	7.4	7.4	1.06	11.67	
		17	2.94	2.88	0.42	1.59	4.01	4	0.57	3.05	5.08	5.08	0.73	5.69	6.25	6.25	0.89	8.77	7.41	7.41	1.06	11.7	
		19	-	-	-	-	4.6	3.73	0.66	4.48	5.4	4.96	0.77	6.58	6.37	6.22	0.91	9.05	7.42	7.42	1.06	11.73	
		20	-	-	-	-	5.95	3.66	0.85	7.99	6.33	4.87	0.91	8.92	7	6.11	1	10.59	7.77	7.34	1.11	12.67	

4-Pipe Duct MDVF-FF Series



(Continued)

MDVF-1400D304FF																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
13	3	15	3.18	3.18	0.91	9.04	4.35	4.35	1.25	15.39	5.47	5.47	1.57	22.85	6.57	6.57	1.88	30.94	7.67	7.67	2.2	40.62	
		17	3.21	3.17	0.92	9.2	4.35	4.35	1.25	15.43	5.48	5.48	1.58	22.91	6.58	6.58	1.88	31.02	7.68	7.68	2.2	40.74	
		19	-	-	-	-	5.81	4.25	1.67	25.31	6.08	5.4	1.74	27.09	6.7	6.57	1.91	31.96	7.69	7.68	2.21	40.84	
		20	-	-	-	-	7.75	4.29	2.22	41.4	7.69	5.39	2.21	40.83	7.73	6.5	2.22	41.18	8.11	7.65	2.34	45.08	
	4	15	2.69	2.69	0.58	3.16	3.81	3.81	0.82	7.42	4.99	4.99	1.07	11.79	6.14	6.14	1.32	16.91	7.25	7.25	1.56	22.48	
		17	2.68	2.67	0.58	3.15	3.82	3.82	0.82	7.43	5	5	1.07	11.81	6.15	6.15	1.32	16.95	7.26	7.26	1.56	22.53	
		19	-	-	-	-	4.45	3.7	0.95	9.69	5.24	4.95	1.12	12.77	6.17	6.15	1.33	17.05	7.27	7.27	1.57	22.59	
		20	-	-	-	-	6.17	3.73	1.33	17.04	6.27	4.87	1.35	17.48	6.75	6.06	1.45	19.86	7.44	7.24	1.6	23.51	
	5	15	2.23	2.23	0.38	1.38	3.34	3.34	0.57	3.12	4.46	4.46	0.76	6.5	5.64	5.64	0.97	9.91	6.79	6.79	1.16	13.56	
		17	2.23	2.23	0.38	1.38	3.34	3.34	0.57	3.13	4.46	4.46	0.77	6.52	5.65	5.65	0.97	9.94	6.79	6.79	1.17	13.59	
		19	-	-	-	-	3.53	3.23	0.61	3.64	4.51	4.45	0.77	6.67	5.65	5.64	0.97	9.95	6.8	6.8	1.17	13.62	
		20	-	-	-	-	4.26	3.06	0.73	5.9	5.04	4.34	0.86	8.17	5.91	5.59	1.01	10.71	6.85	6.8	1.18	13.77	
	6	15	1.69	1.69	0.24	0.85	2.92	2.92	0.42	1.51	4.01	4.01	0.57	3.15	5.11	5.11	0.73	5.89	6.29	6.29	0.9	8.72	
		17	1.69	1.69	0.24	0.85	2.93	2.93	0.42	1.52	4.01	4.01	0.57	3.16	5.12	5.12	0.73	5.91	6.3	6.3	0.9	8.74	
		19	-	-	-	-	3	2.87	0.43	1.57	4.01	4.01	0.57	3.17	5.12	5.12	0.73	5.93	6.31	6.31	0.9	8.76	
		20	-	-	-	-	3.36	2.67	0.48	1.99	4.21	3.89	0.6	3.61	5.19	5.1	0.74	6.09	6.31	6.3	0.9	8.77	
15	3	15	2.01	2.01	0.57	3.19	3.19	3.19	0.91	8.84	4.36	4.36	1.25	15.23	5.47	5.47	1.56	22.21	6.57	6.57	1.88	30.49	
		17	2.02	2.02	0.57	3.2	3.19	3.19	0.91	8.86	4.36	4.36	1.25	15.26	5.47	5.47	1.56	22.26	6.58	6.58	1.88	30.56	
		19	-	-	-	-	3.29	3.17	0.94	9.32	4.36	4.35	1.25	15.25	5.48	5.48	1.57	22.32	6.59	6.59	1.88	30.64	
		20	-	-	-	-	4.31	3.09	1.24	14.9	4.79	4.29	1.38	17.92	5.54	5.48	1.58	22.75	6.59	6.59	1.88	30.67	
	4	15	1.56	1.56	0.33	1.15	2.68	2.68	0.57	3.23	3.84	3.84	0.82	7.45	5.02	5.02	1.08	11.84	6.14	6.14	1.32	16.53	
		17	1.56	1.56	0.33	1.16	2.69	2.69	0.58	3.24	3.85	3.85	0.82	7.46	5.03	5.03	1.08	11.87	6.15	6.15	1.32	16.57	
		19	-	-	-	-	2.69	2.69	0.58	3.25	3.85	3.85	0.83	7.48	5.04	5.04	1.09	11.89	6.16	6.16	1.32	16.61	
		20	-	-	-	-	2.97	2.54	0.64	4.25	3.96	3.82	0.85	7.84	5.04	5.03	1.09	11.9	6.16	6.16	1.32	16.63	
	5	15	0.98	0.98	0.17	0.57	2.26	2.26	0.39	1.34	3.36	3.36	0.58	3.32	4.51	4.51	0.78	6.69	5.68	5.68	0.98	9.95	
		17	0.98	0.98	0.17	0.57	2.27	2.27	0.39	1.35	3.36	3.36	0.58	3.33	4.51	4.51	0.78	6.71	5.69	5.69	0.98	9.97	
		19	-	-	-	-	2.27	2.26	0.39	1.35	3.37	3.37	0.58	3.34	4.52	4.52	0.78	6.73	5.7	5.7	0.98	10	
		20	-	-	-	-	2.36	2.2	0.41	1.42	3.37	3.36	0.58	3.37	4.52	4.52	0.78	6.74	5.7	5.7	0.98	10.01	
	6	15	-	-	-	-	1.72	1.72	0.25	0.83	2.95	2.95	0.42	1.52	4.02	4.02	0.58	3.34	5.16	5.16	0.74	6.1	
		17	-	-	-	-	1.72	1.72	0.25	0.83	2.96	2.96	0.42	1.52	4.03	4.03	0.58	3.35	5.16	5.16	0.74	6.12	
		19	-	-	-	-	1.72	1.72	0.25	0.83	2.96	2.96	0.42	1.53	4.03	4.03	0.58	3.36	5.17	5.17	0.74	6.14	
		20	-	-	-	-	1.73	1.72	0.25	0.83	2.96	2.95	0.42	1.53	4.03	4.03	0.58	3.36	5.18	5.18	0.74	6.14	

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

Heating Capacity Table

MDVF-1400D304FF													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
°C	°C	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa
40	8	6.04	0.65	17.82	5.35	0.58	14.45	4.66	0.5	11.38	3.96	0.43	8.61
	10	5.46	0.47	10.21	4.76	0.41	8.06	4.05	0.35	6.11	3.32	0.29	4.36
	12	4.85	0.35	6.15	4.12	0.3	4.66	3.36	0.24	3.3	2.59	0.19	1.95
	14	4.15	0.26	3.66	3.36	0.21	2.46	2.66	0.16	1.37	2	0.12	0.69
	16	3.42	0.18	1.84	2.77	0.15	1.04	2.05	0.11	0.61	1.22	0.07	0.37
45	8	7.79	0.84	27.1	7.1	0.77	22.94	6.42	0.69	19.23	5.73	0.62	15.79
	10	7.25	0.63	16.22	6.56	0.57	13.64	5.86	0.51	11.25	5.17	0.45	9.04
	12	6.69	0.48	10.4	5.99	0.43	8.59	5.28	0.38	6.93	4.57	0.33	5.4
	14	6.08	0.37	6.8	5.36	0.33	5.48	4.63	0.29	4.27	3.87	0.24	3.16
	16	5.43	0.29	4.51	4.68	0.25	3.5	3.89	0.21	2.54	3.14	0.17	1.57
50	8	9.54	1.03	37.78	8.85	0.95	33.05	8.16	0.88	28.62	7.48	0.81	24.69
	10	9.02	0.78	23.29	8.33	0.72	20.27	7.64	0.66	17.44	6.95	0.6	14.8
	12	8.48	0.61	15.24	7.78	0.56	13.15	7.09	0.51	11.18	6.39	0.46	9.36
	14	7.92	0.49	10.43	7.22	0.44	8.89	6.51	0.4	7.45	5.8	0.36	6.11
	16	7.33	0.4	7.3	6.62	0.36	6.13	5.89	0.32	5.03	5.17	0.28	4.03
55	8	11.28	1.22	49.78	10.59	1.14	44.55	9.91	1.07	39.6	9.22	0.99	34.82
	10	10.78	0.93	31.15	10.08	0.87	27.61	9.39	0.81	24.4	8.7	0.75	21.36
	12	10.26	0.74	20.85	9.57	0.69	18.46	8.87	0.64	16.2	8.18	0.59	14.07
	14	9.72	0.6	14.54	9.03	0.56	12.83	8.33	0.51	11.17	7.63	0.47	9.6
	16	9.17	0.5	10.51	8.47	0.46	9.16	7.76	0.42	7.89	7.06	0.38	6.69
60	8	13.03	1.41	63.03	12.33	1.33	56.96	11.64	1.26	51.72	10.95	1.18	46.22
	10	12.52	1.08	39.67	11.83	1.02	35.98	11.14	0.96	32.31	10.46	0.9	28.95
	12	12.02	0.86	26.91	11.33	0.81	24.25	10.63	0.76	21.72	9.94	0.71	19.32
	14	11.51	0.71	19.11	10.82	0.67	17.14	10.11	0.62	15.27	9.42	0.58	13.5
	16	10.97	0.59	14.05	10.28	0.55	12.54	9.58	0.52	11.1	8.88	0.48	9.74

Abbreviations:

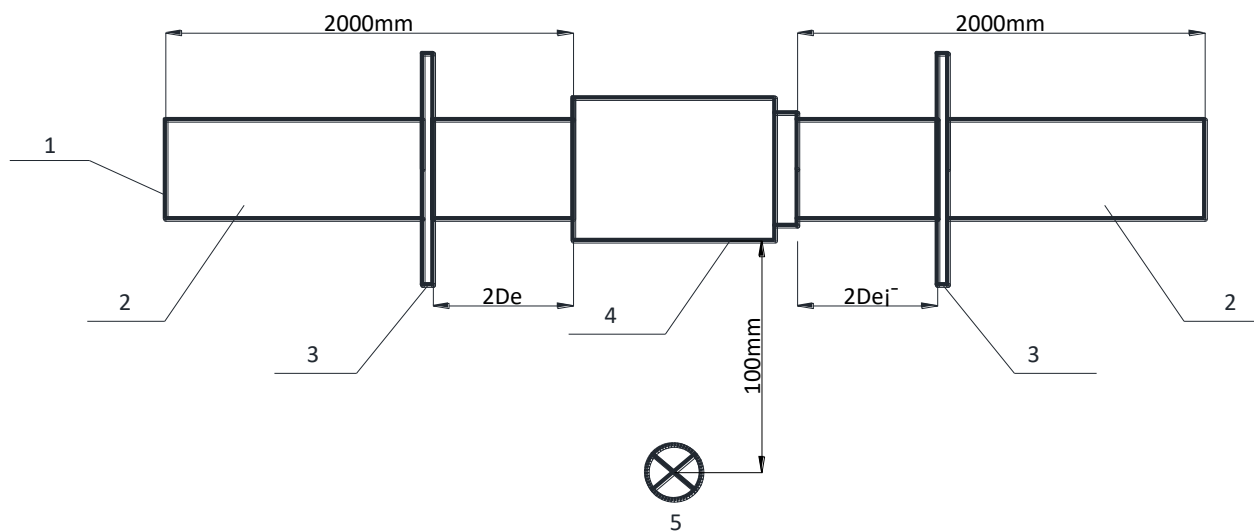
Δt: Temperature Difference. (°C) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

Notes:

The capacity table is calculated and generated by the selection software and is for reference only.

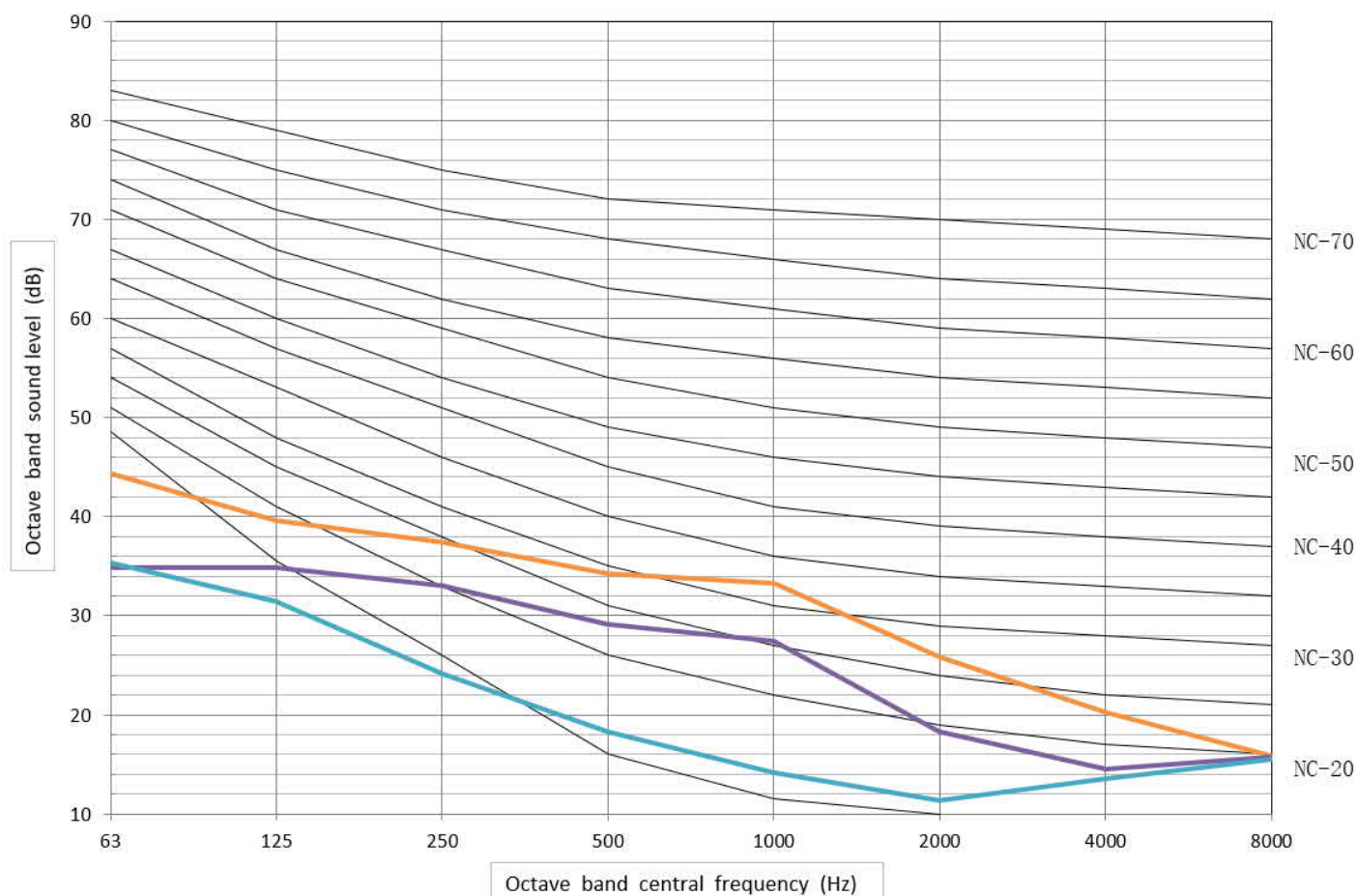
4 Octave Band Levels

Test condition

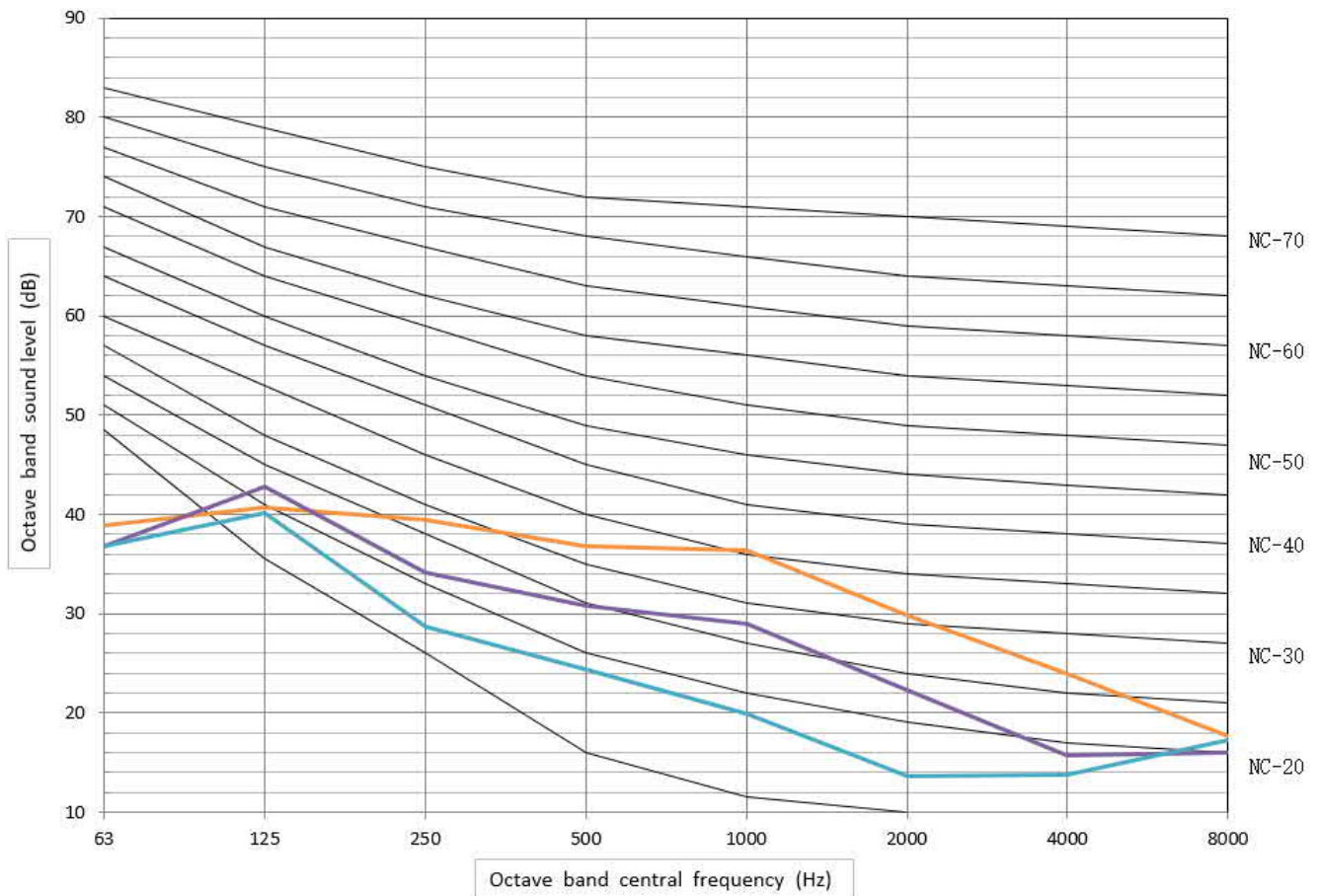


1-Damping net 2-Duct 3-Static pressure loop 4-Test unit D_e -Equivalent diameter of air return of the unit
 D_e' -Equivalent diameter of air outlet of the unit

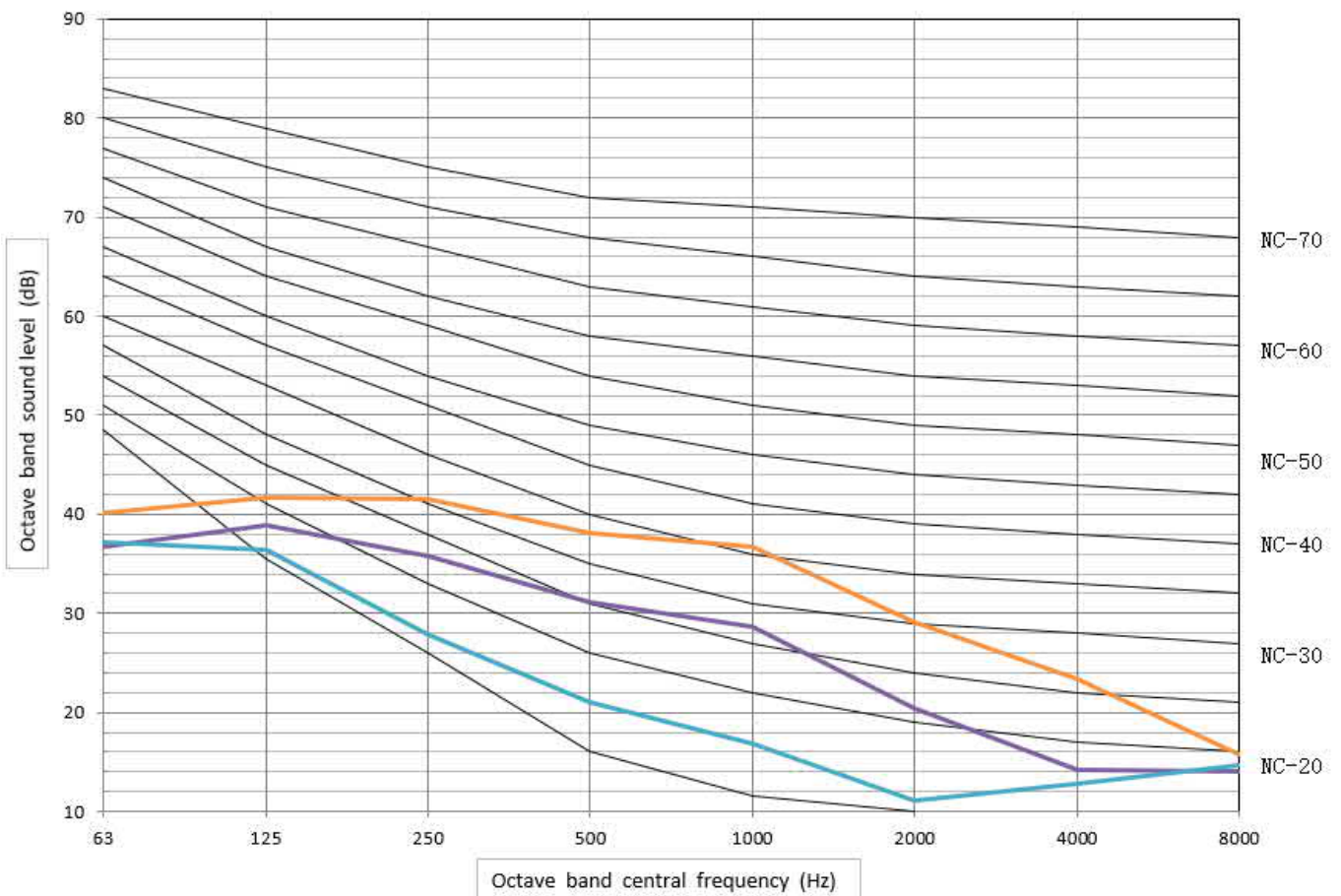
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MDVF-300D304FF



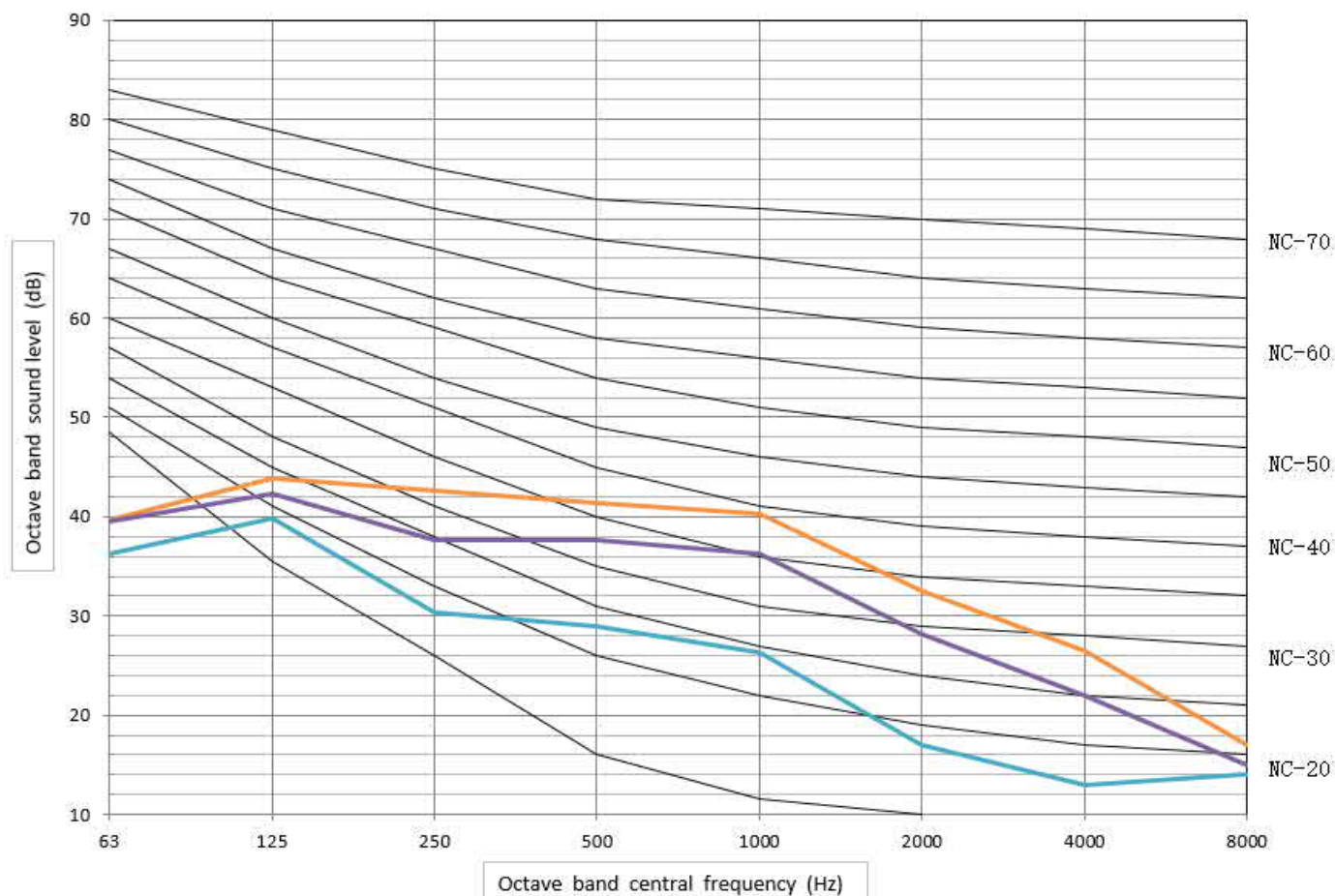
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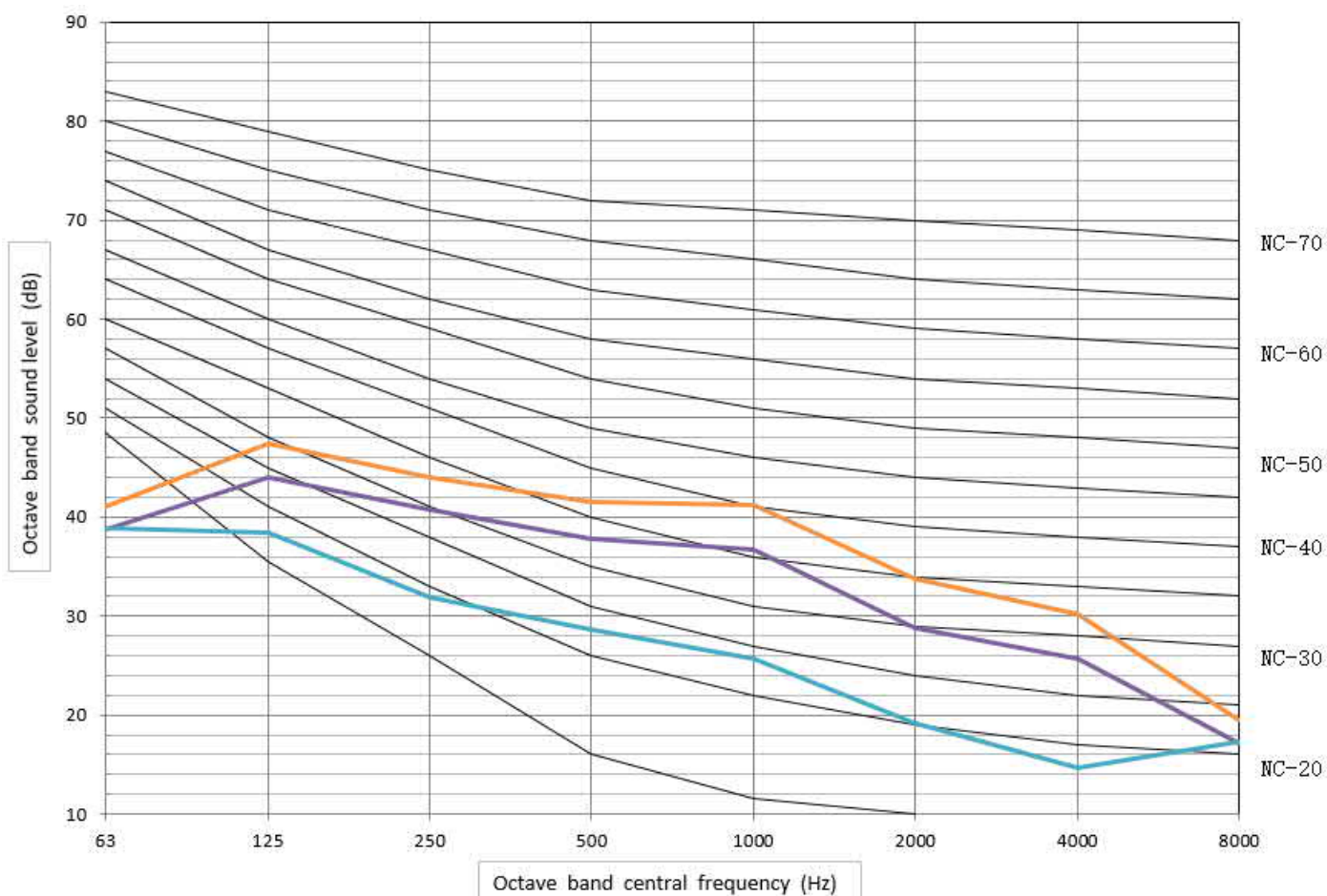
4-Pipe Duct MDVF-FF Series



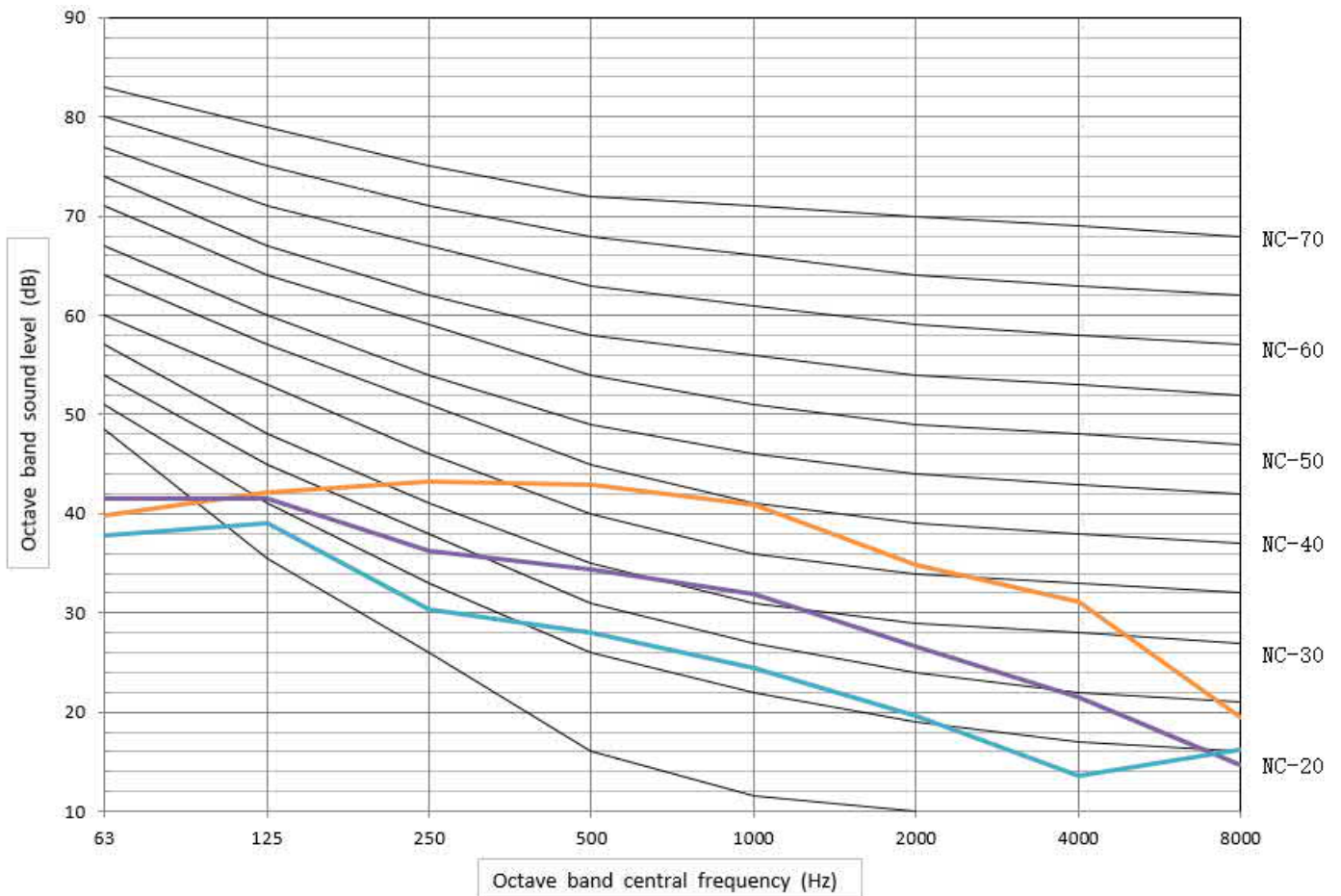
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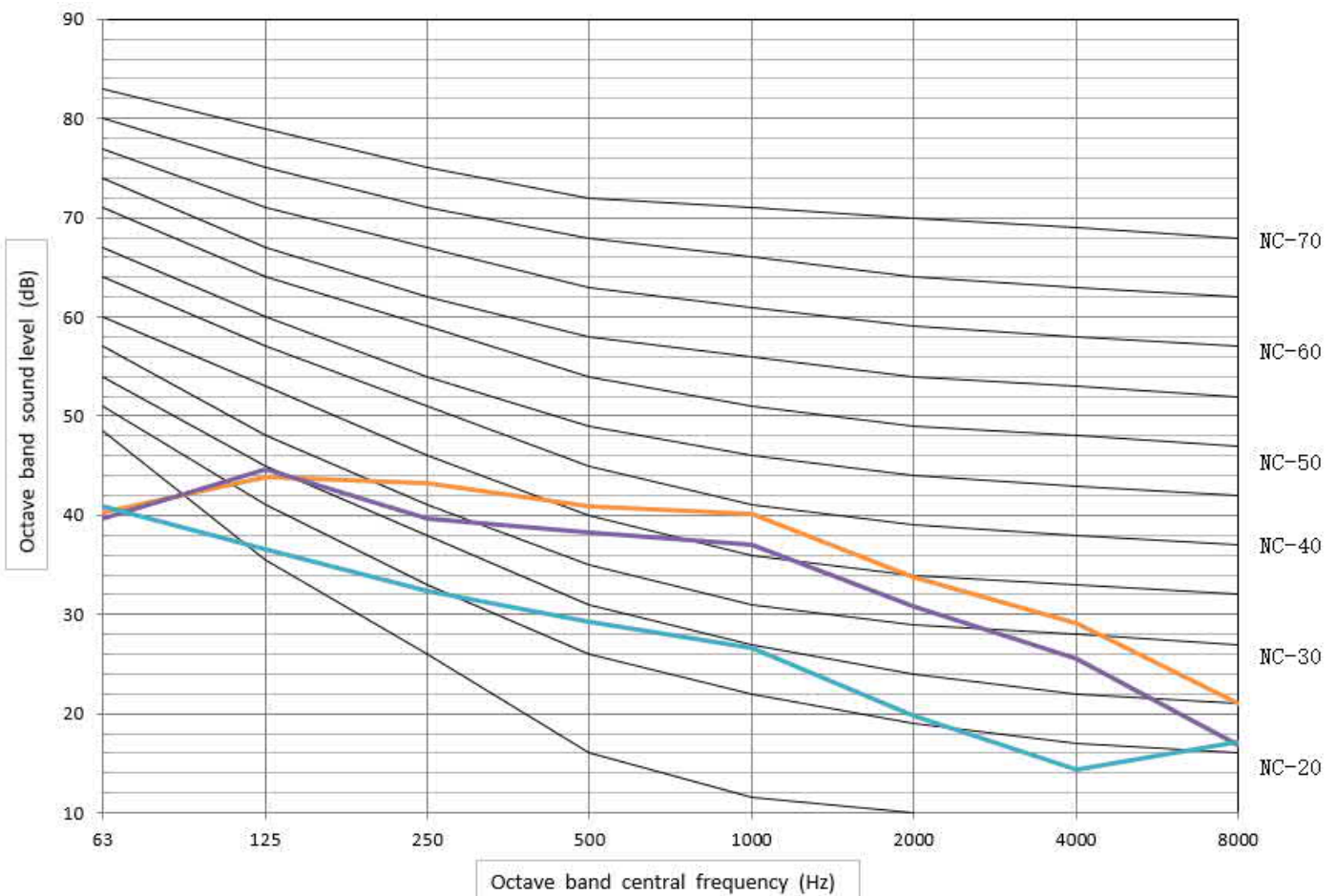
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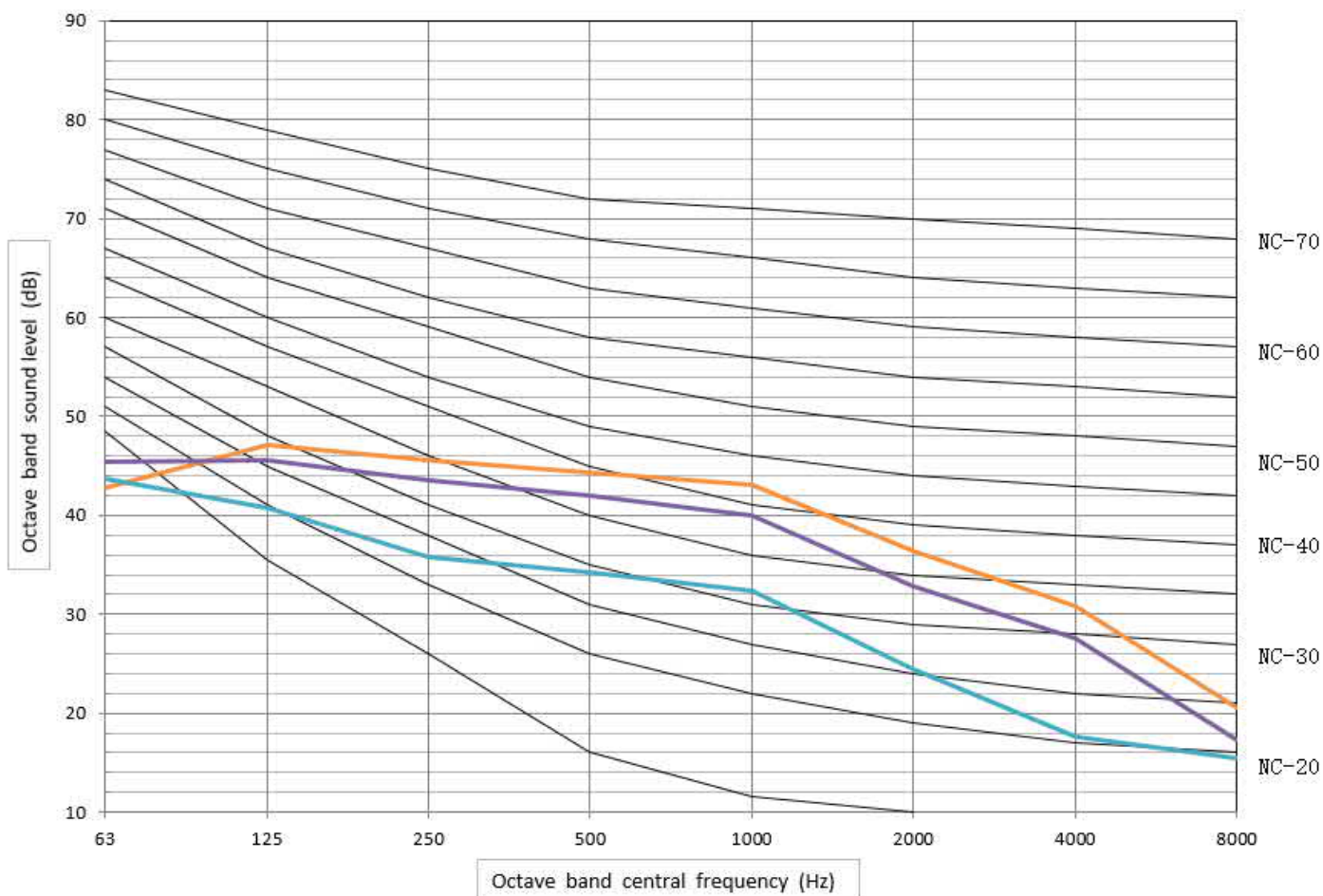
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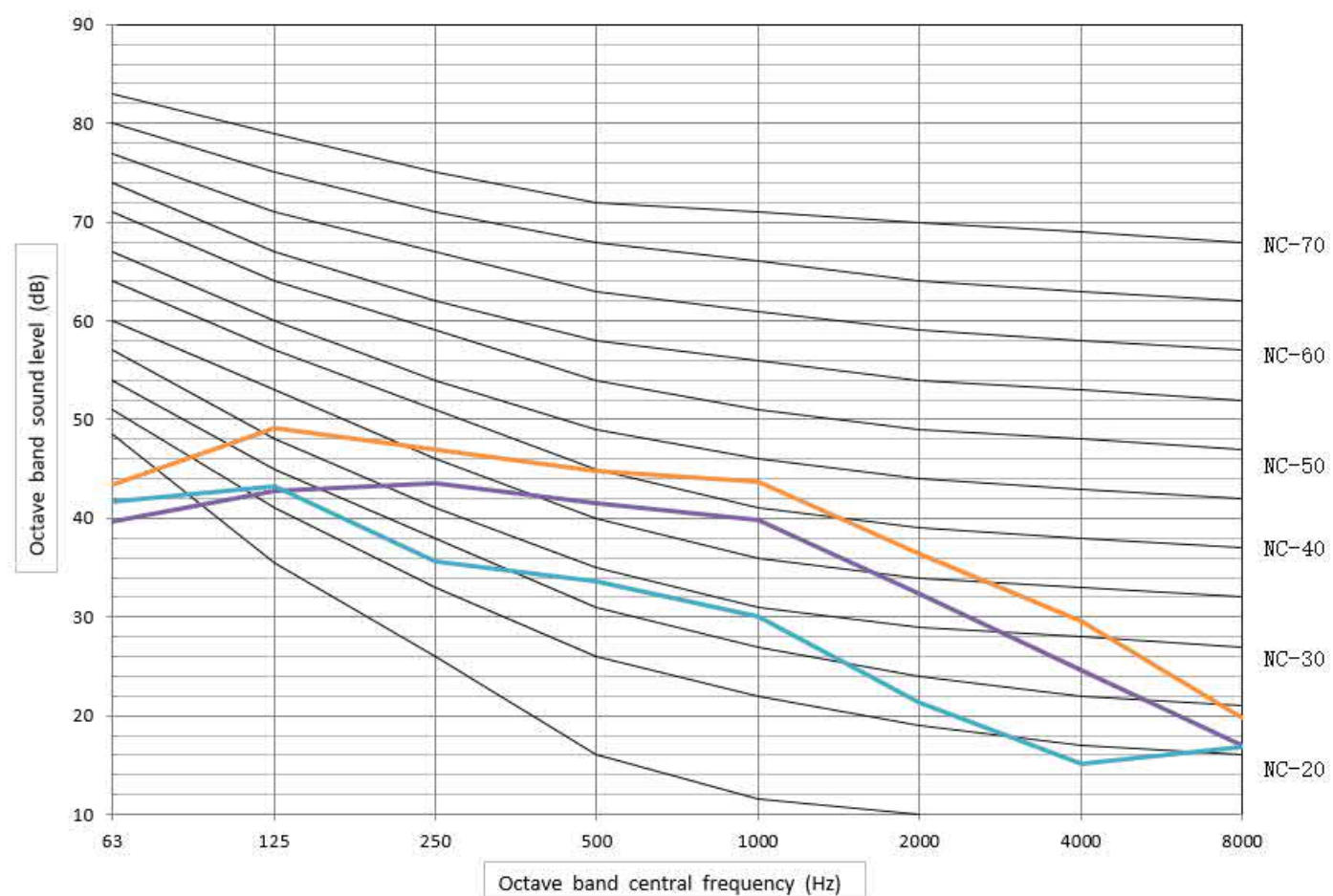
4-Pipe Duct MDVF-FF Series



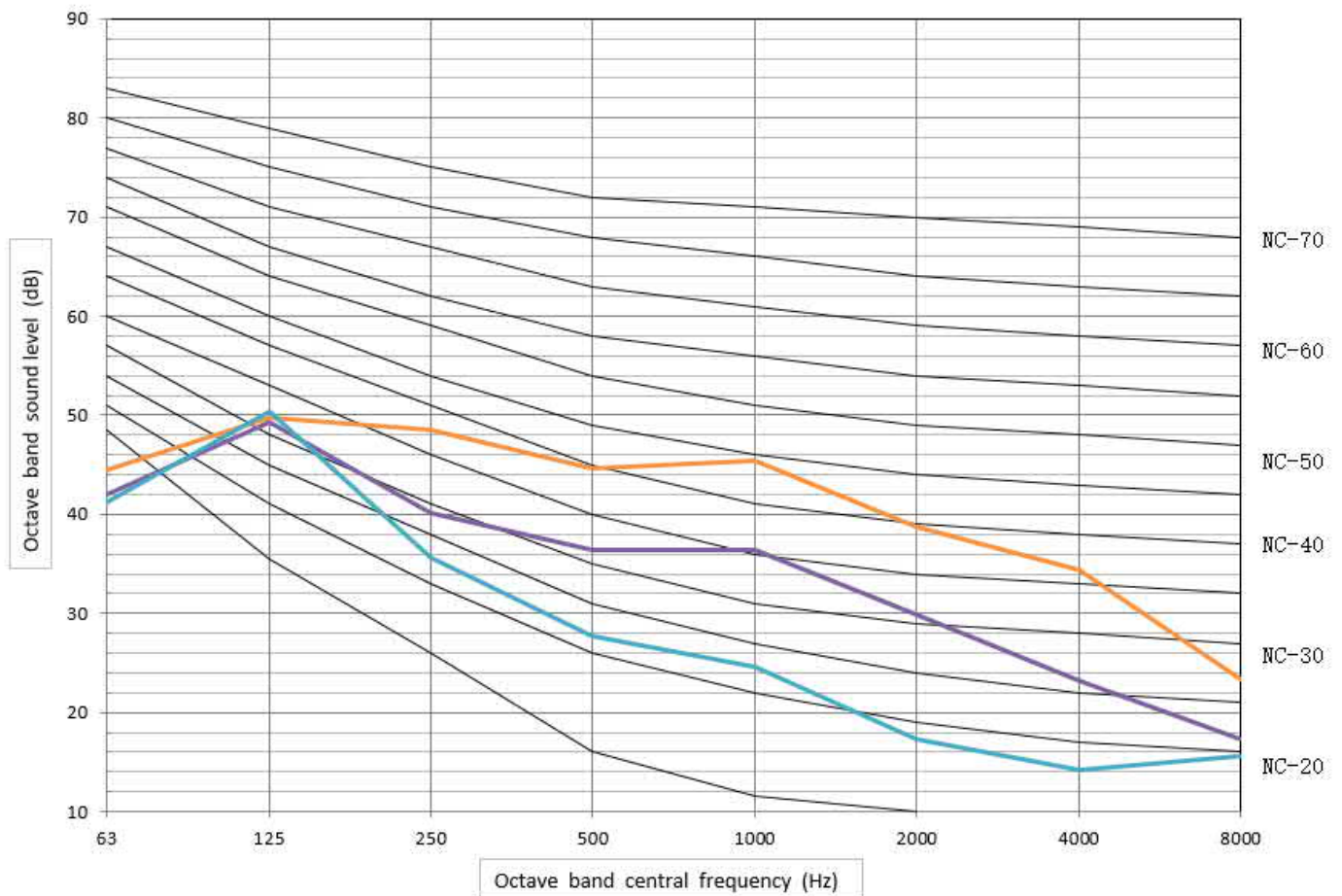
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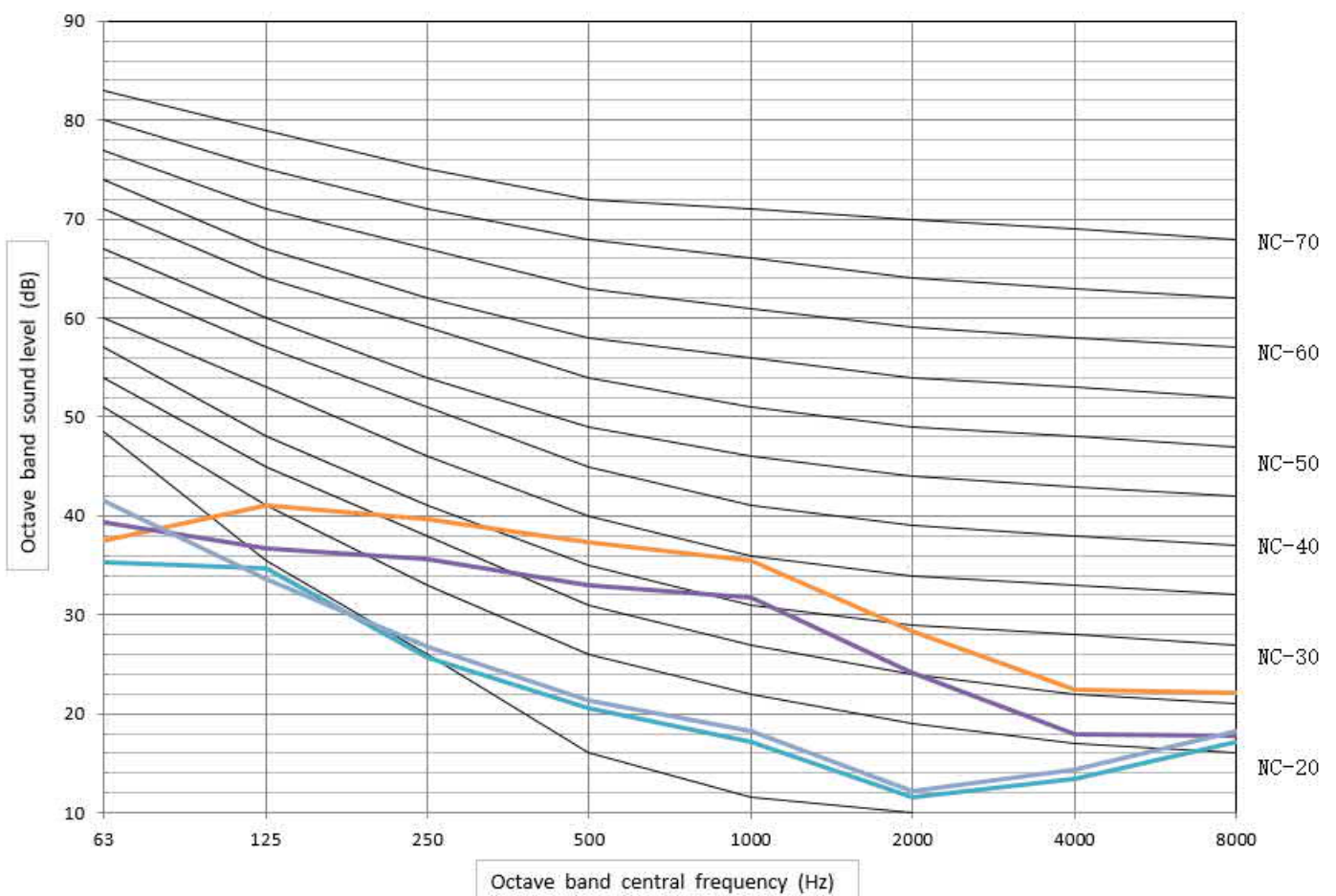
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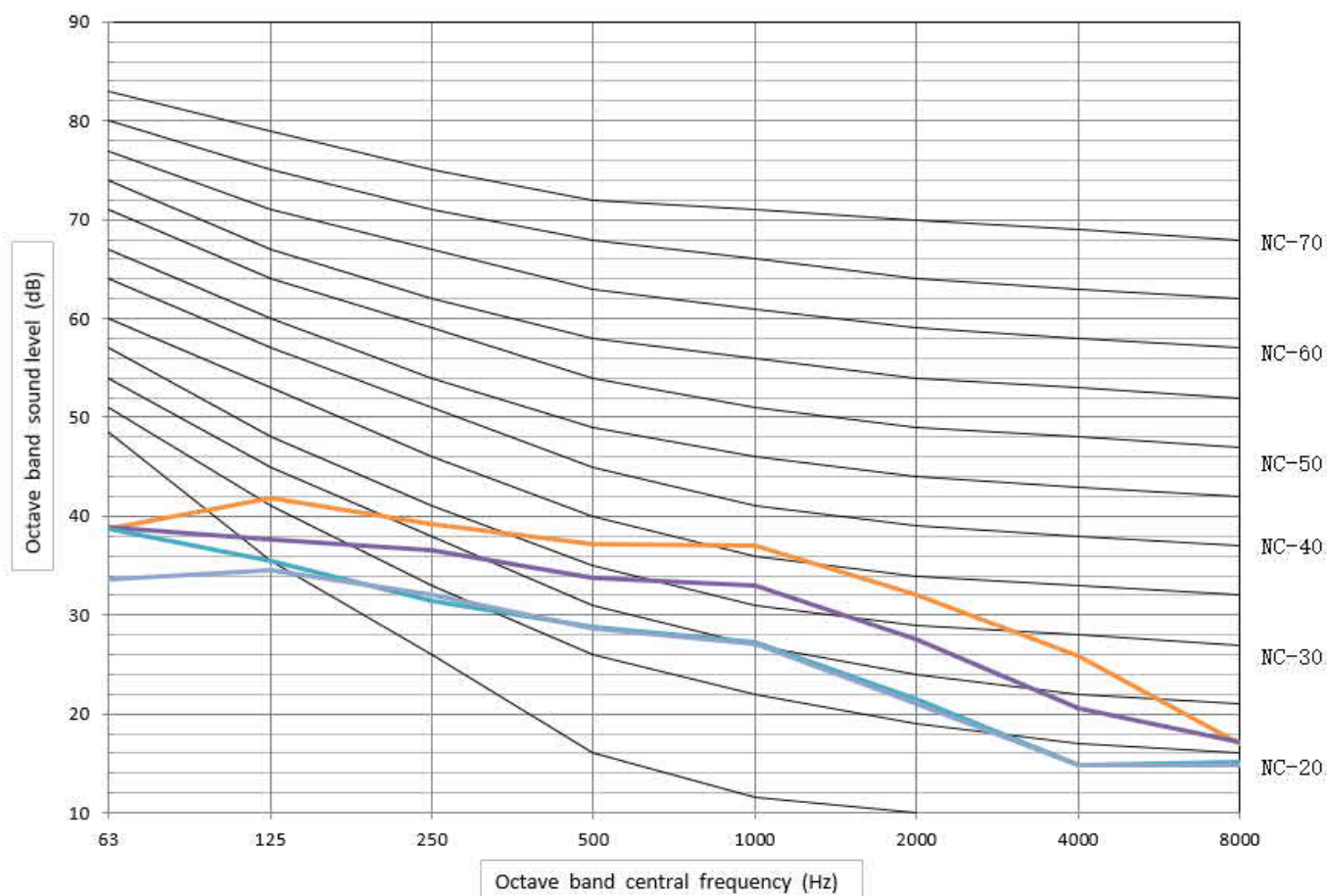
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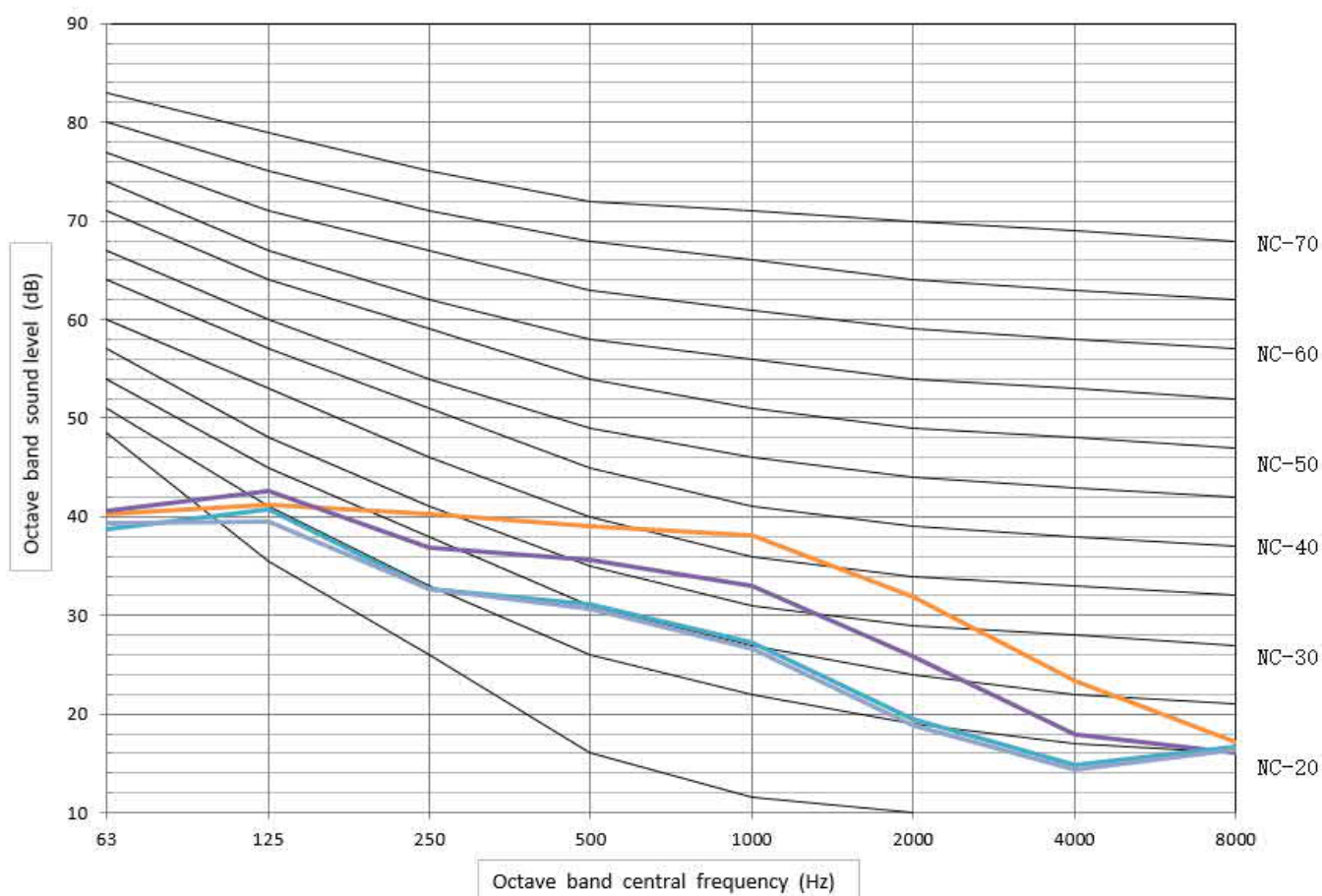
4-Pipe Duct MDVF-FF Series



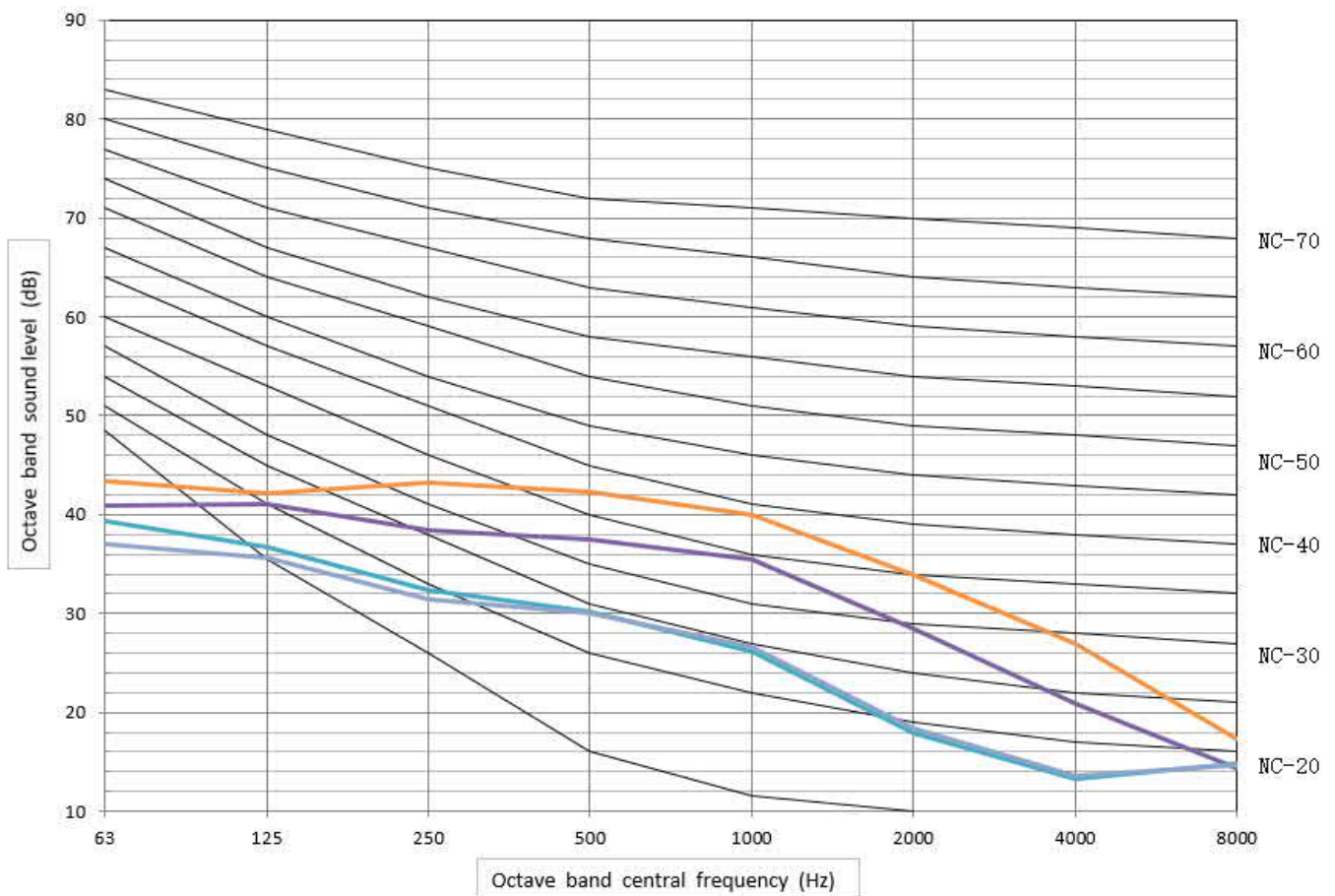
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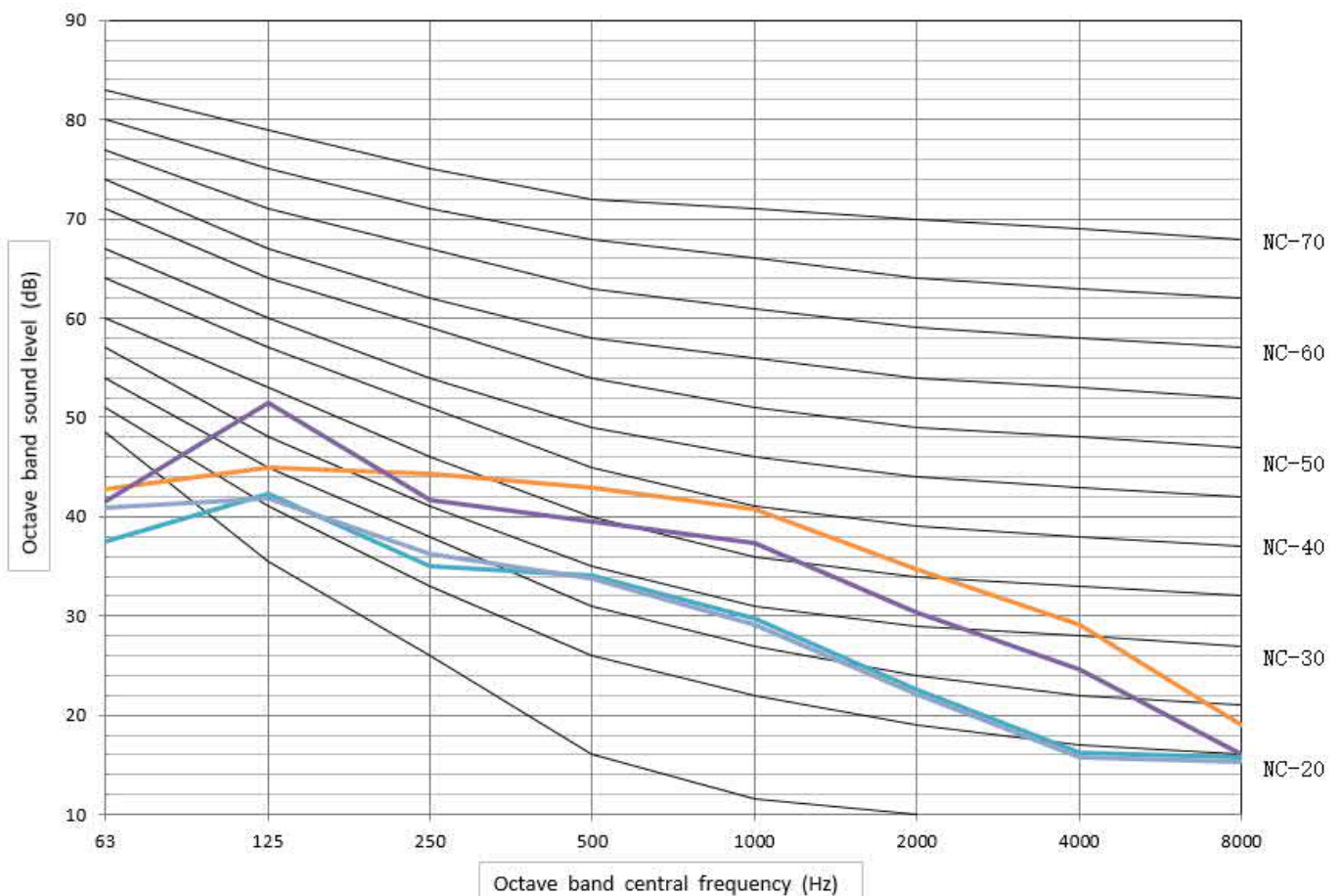
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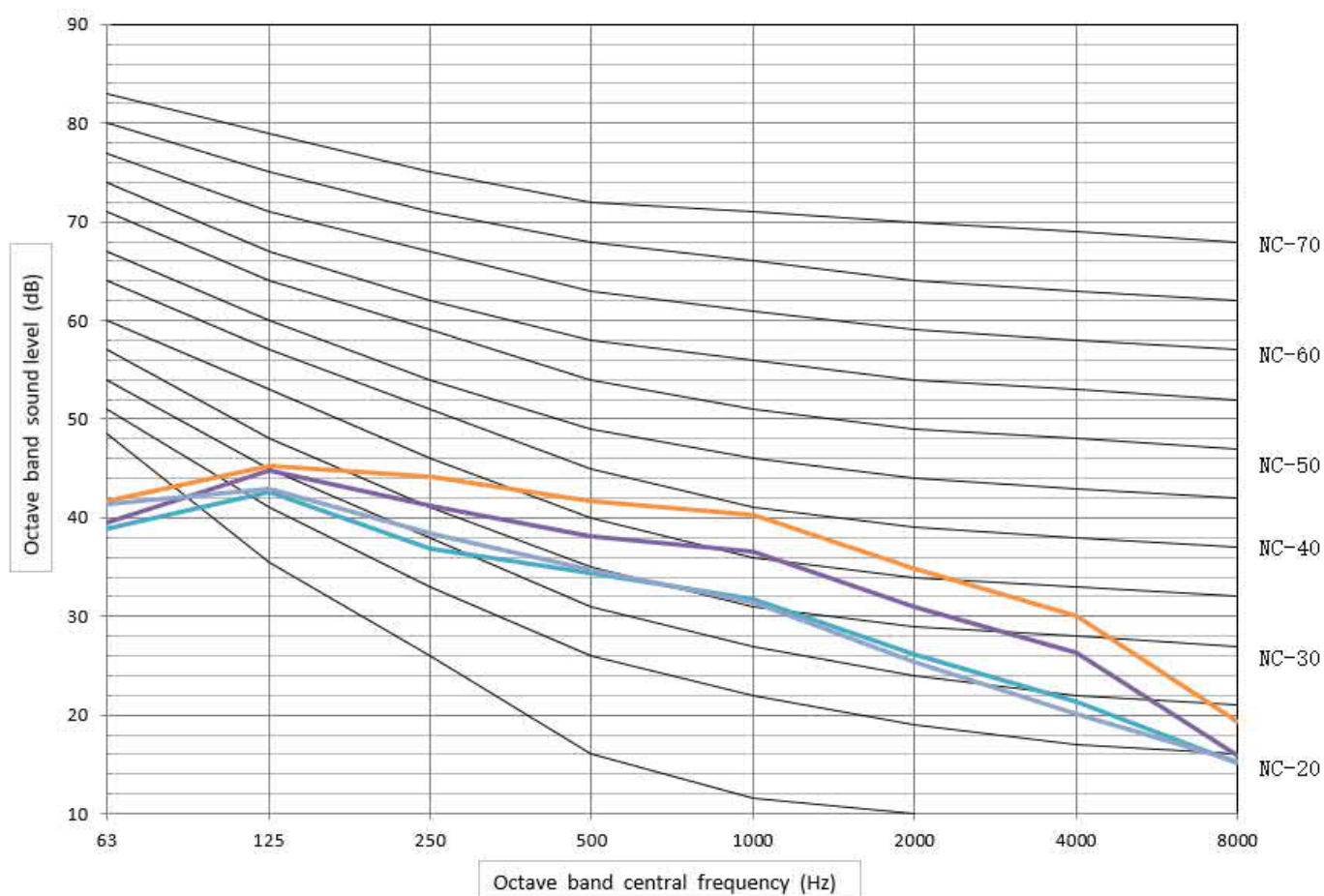
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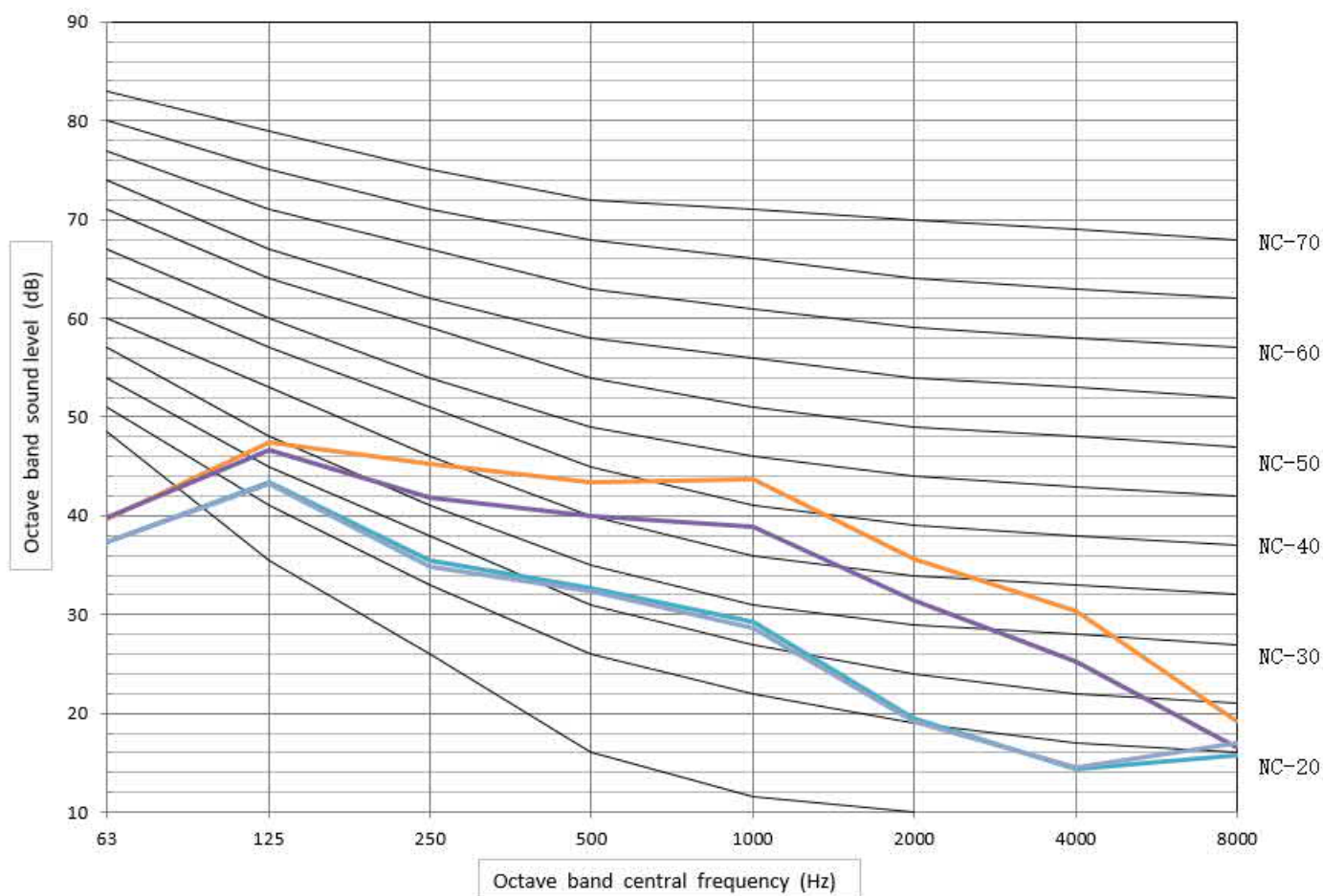
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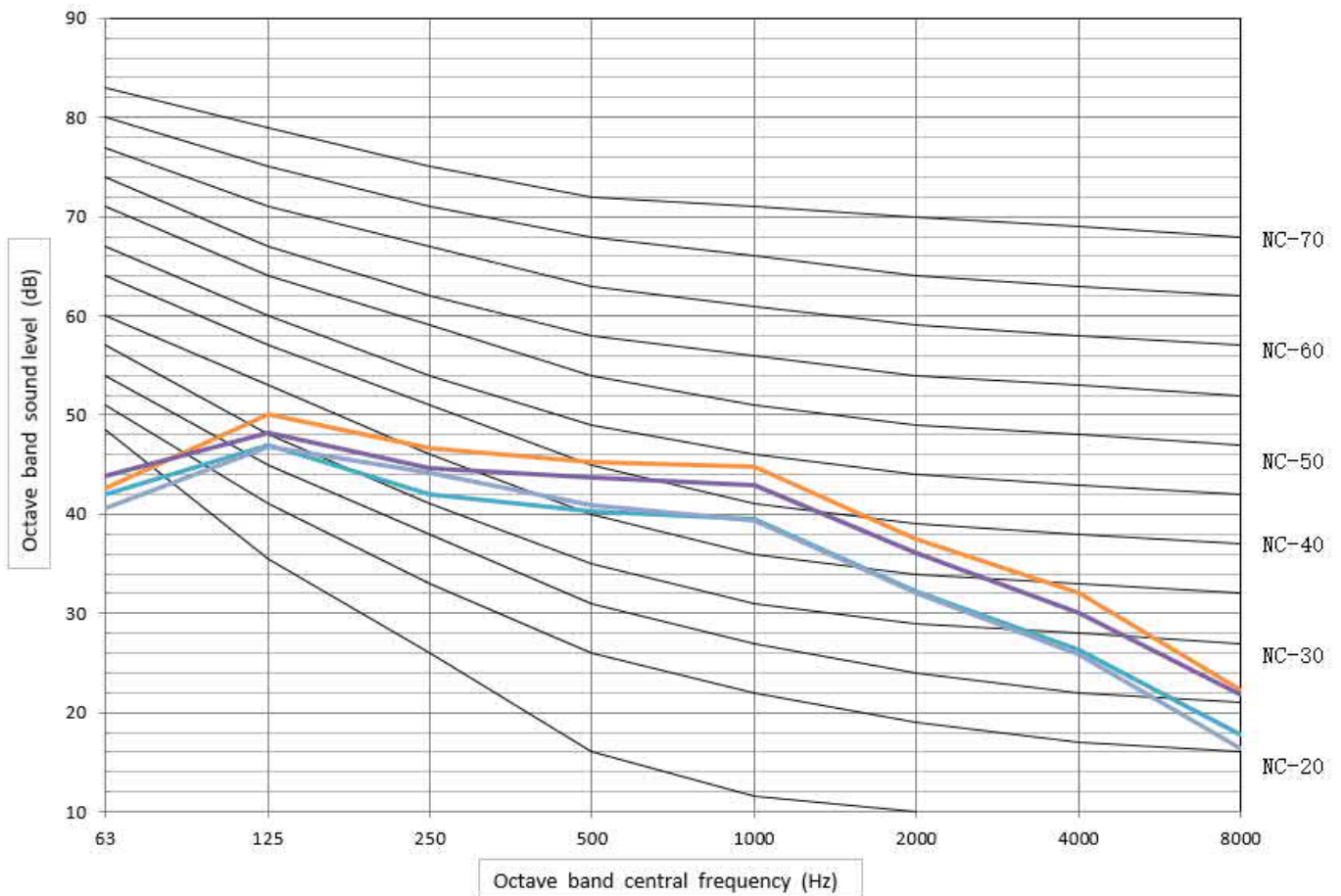
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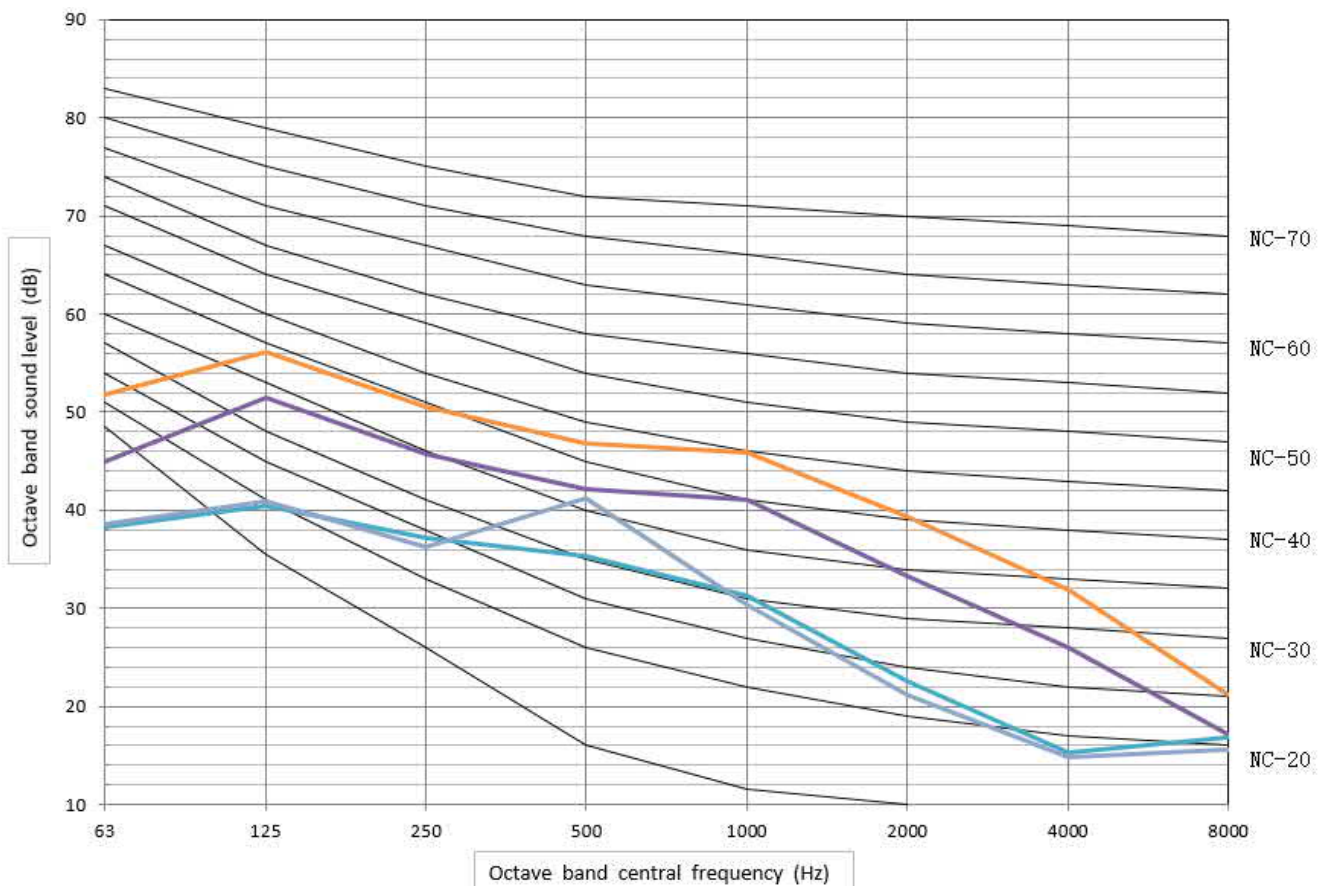
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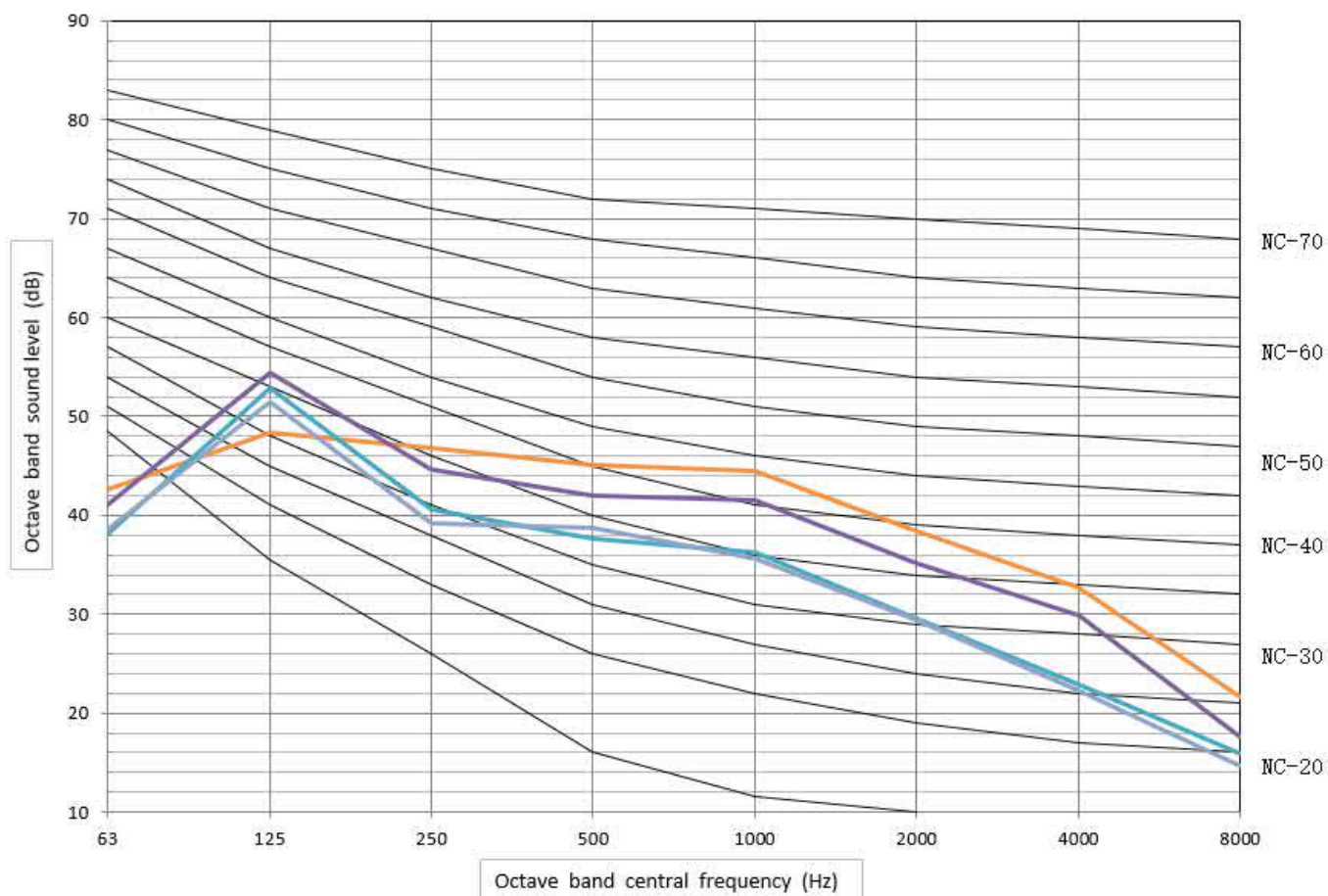
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4-Pipe Duct MDVF-FF Series



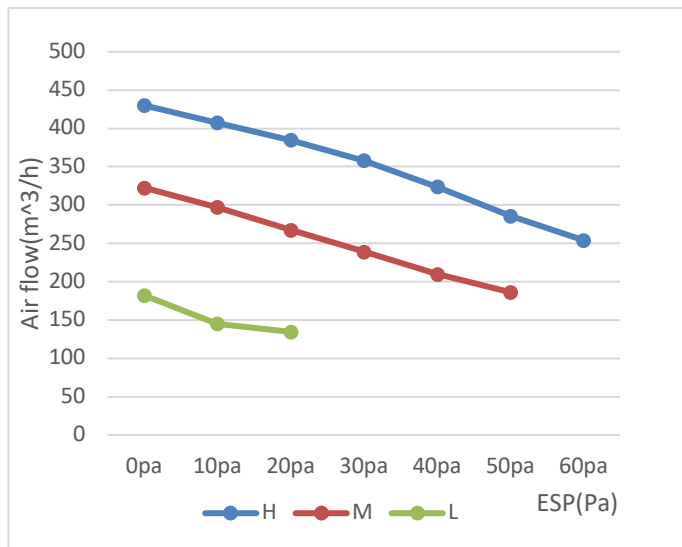
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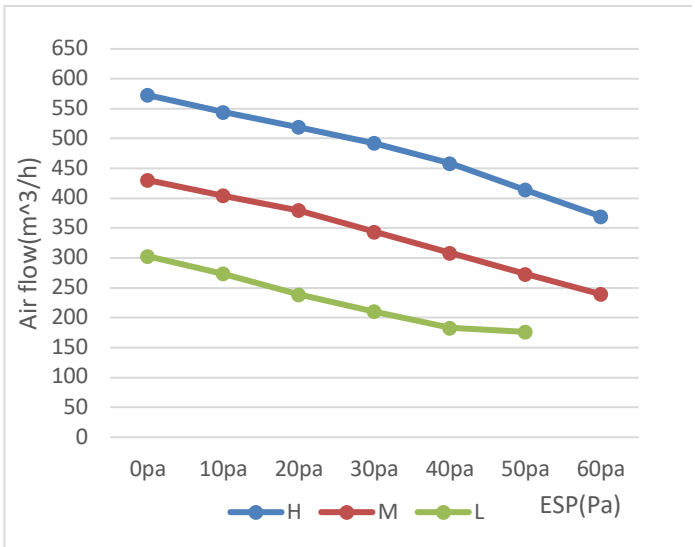
5 Static Pressure Graphs

Models of 30Pa standard external static pressure

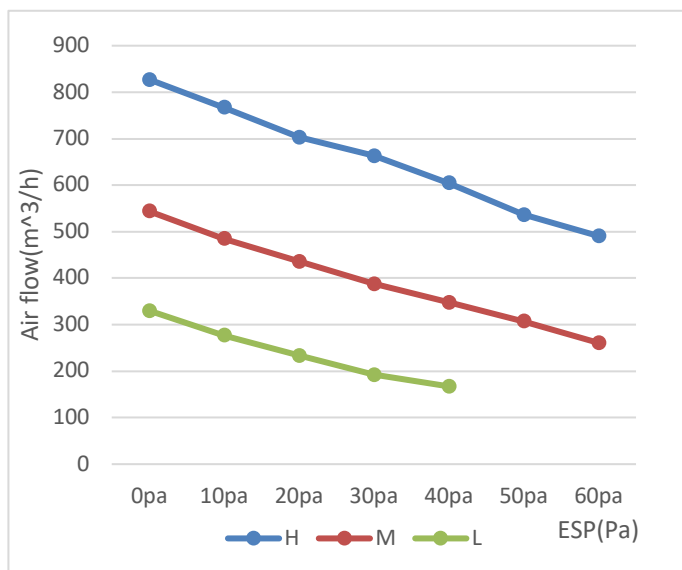
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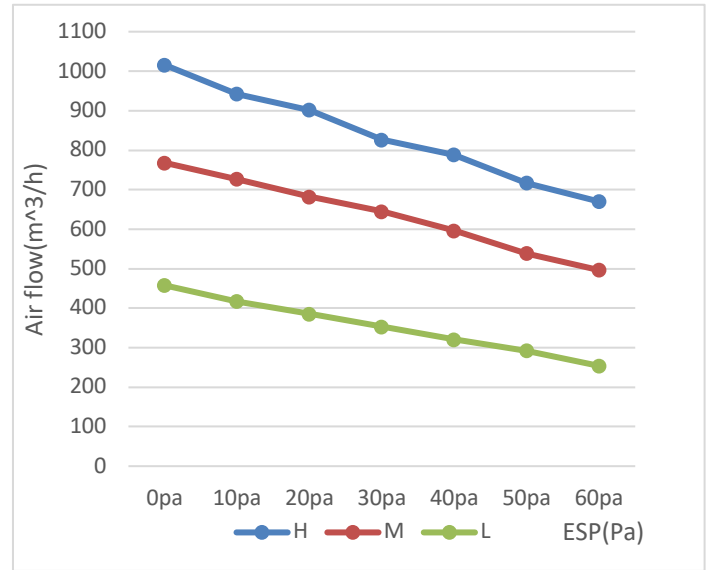
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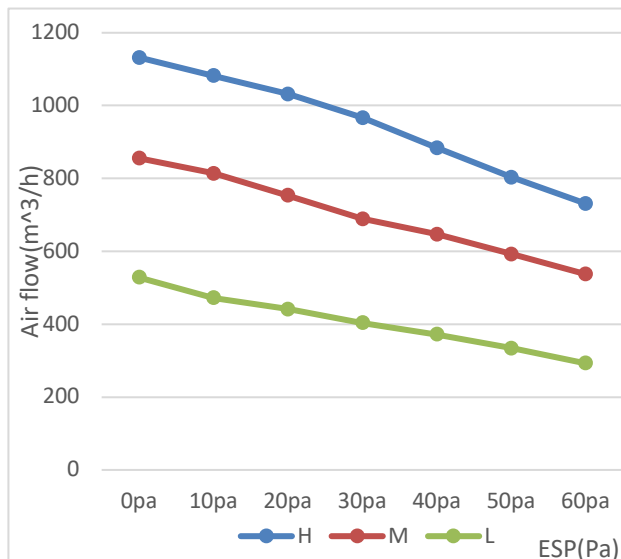
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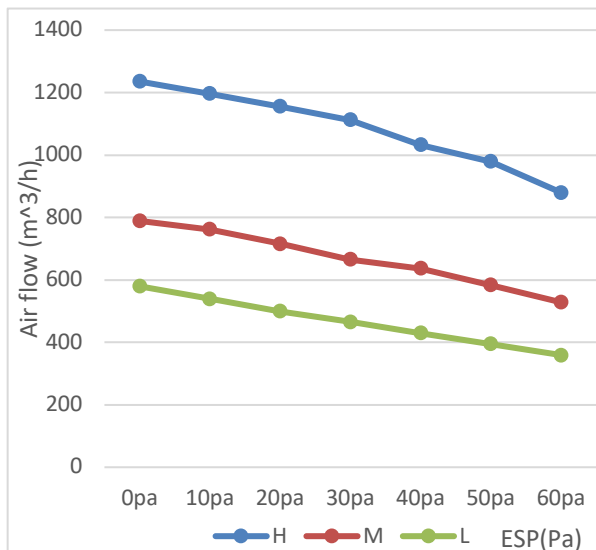
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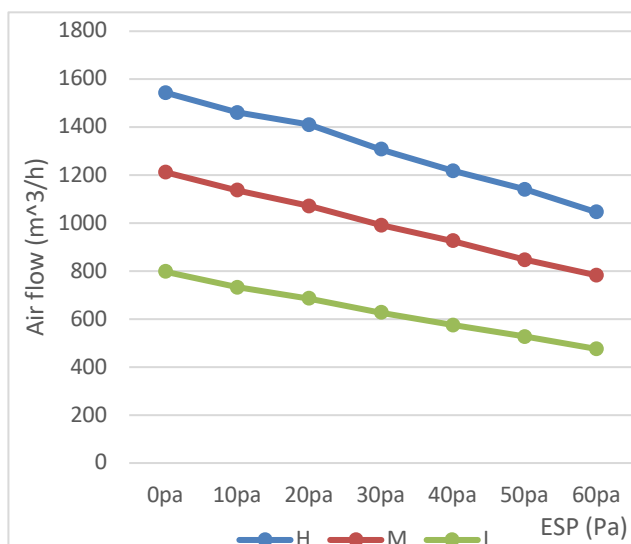
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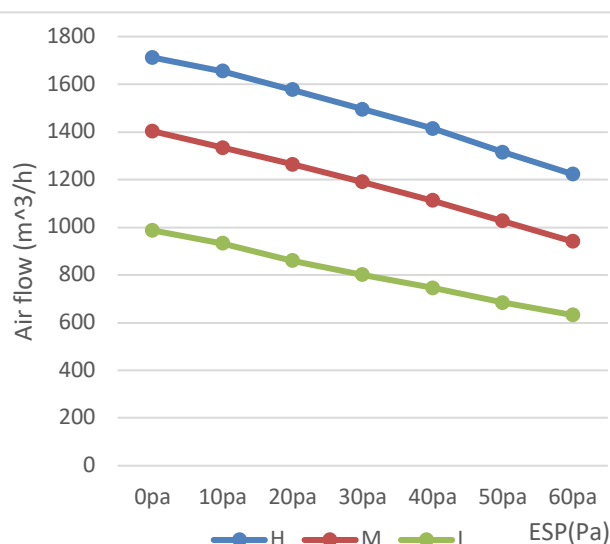
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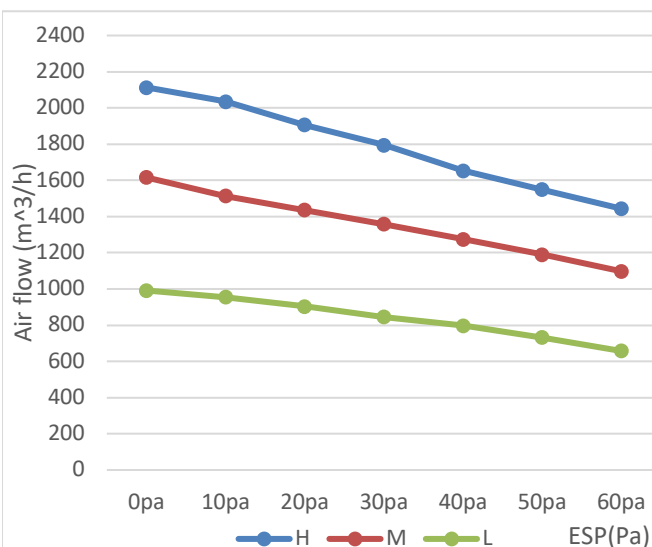
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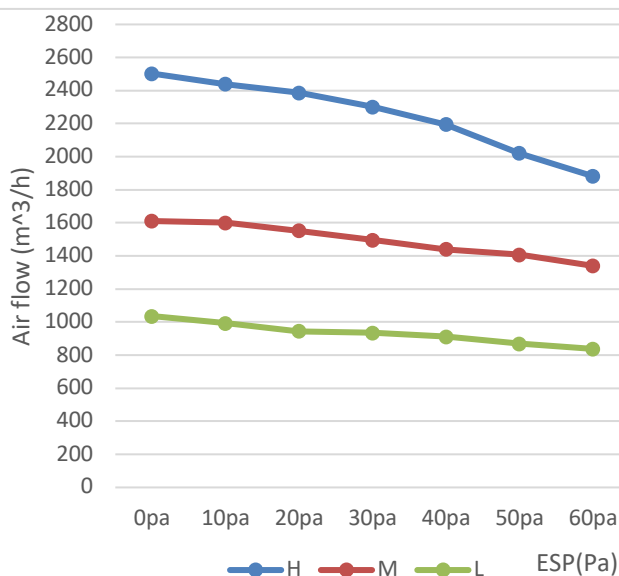
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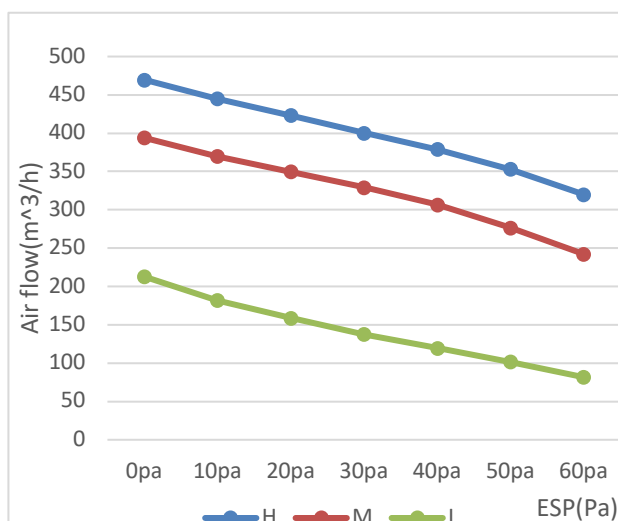
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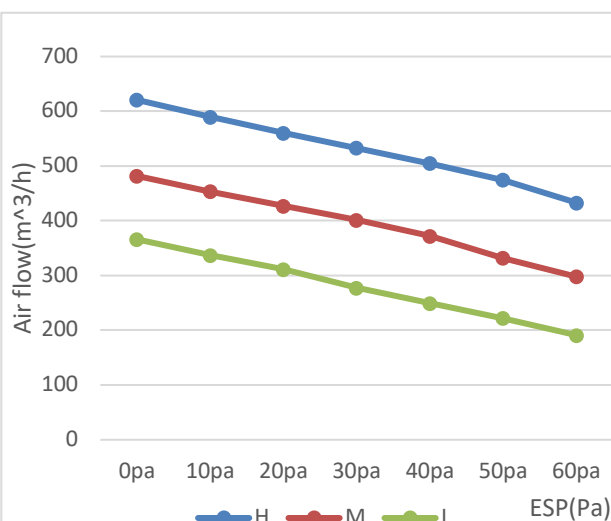
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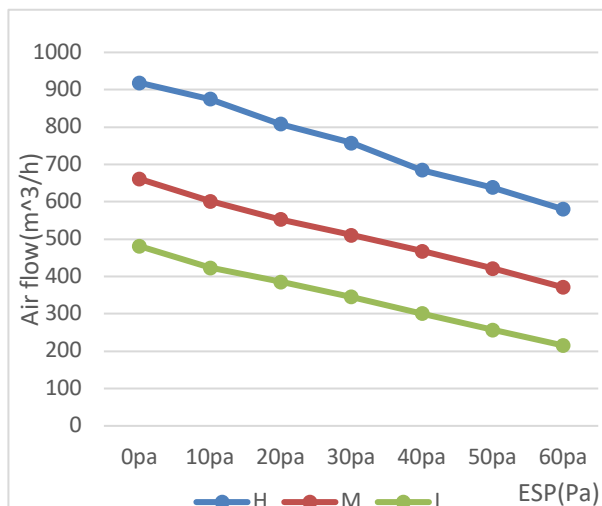
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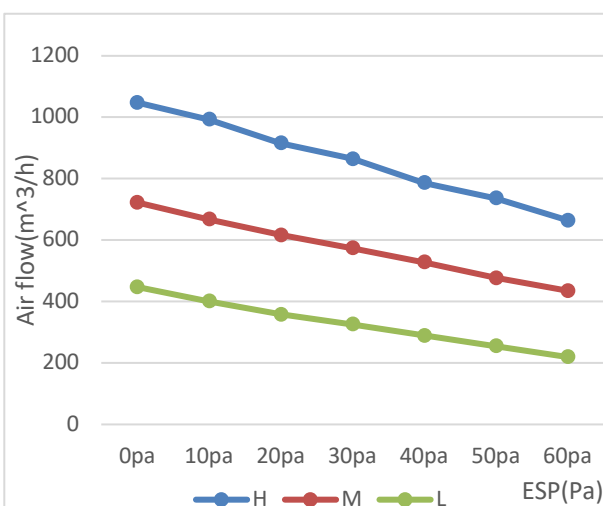
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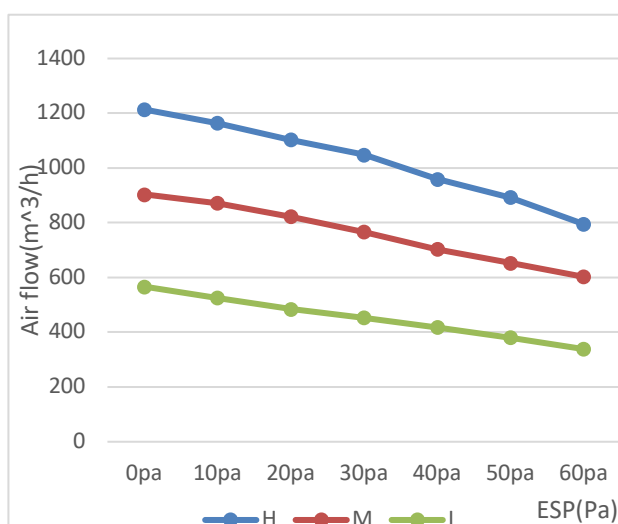
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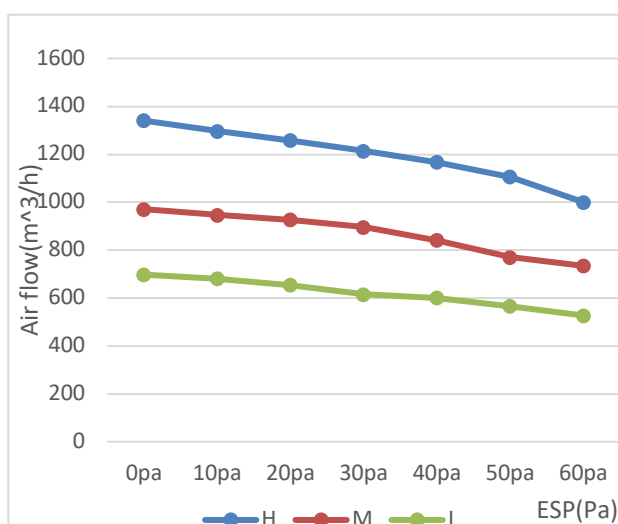
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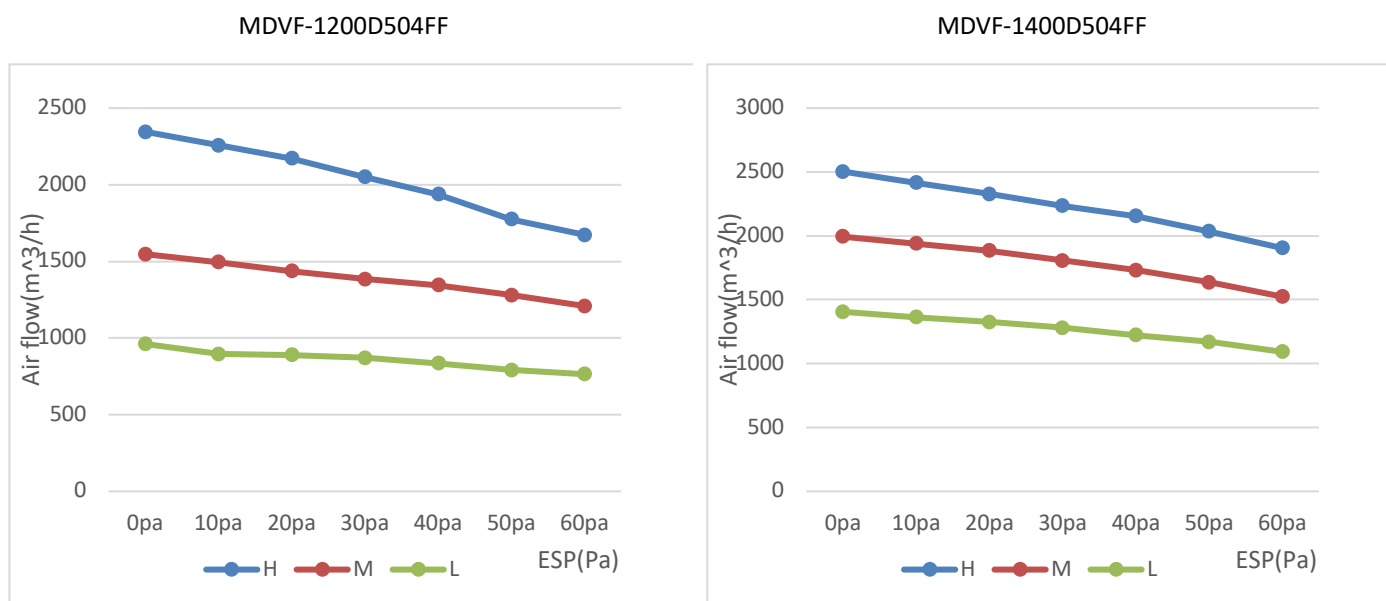
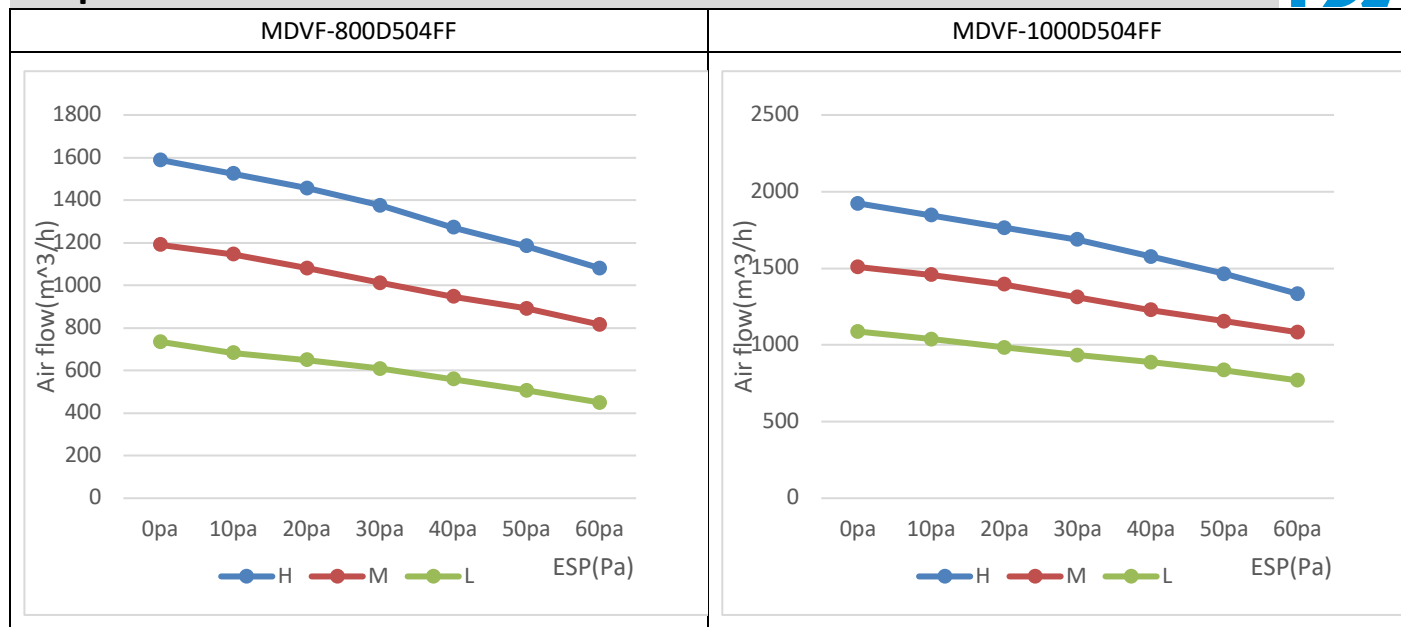
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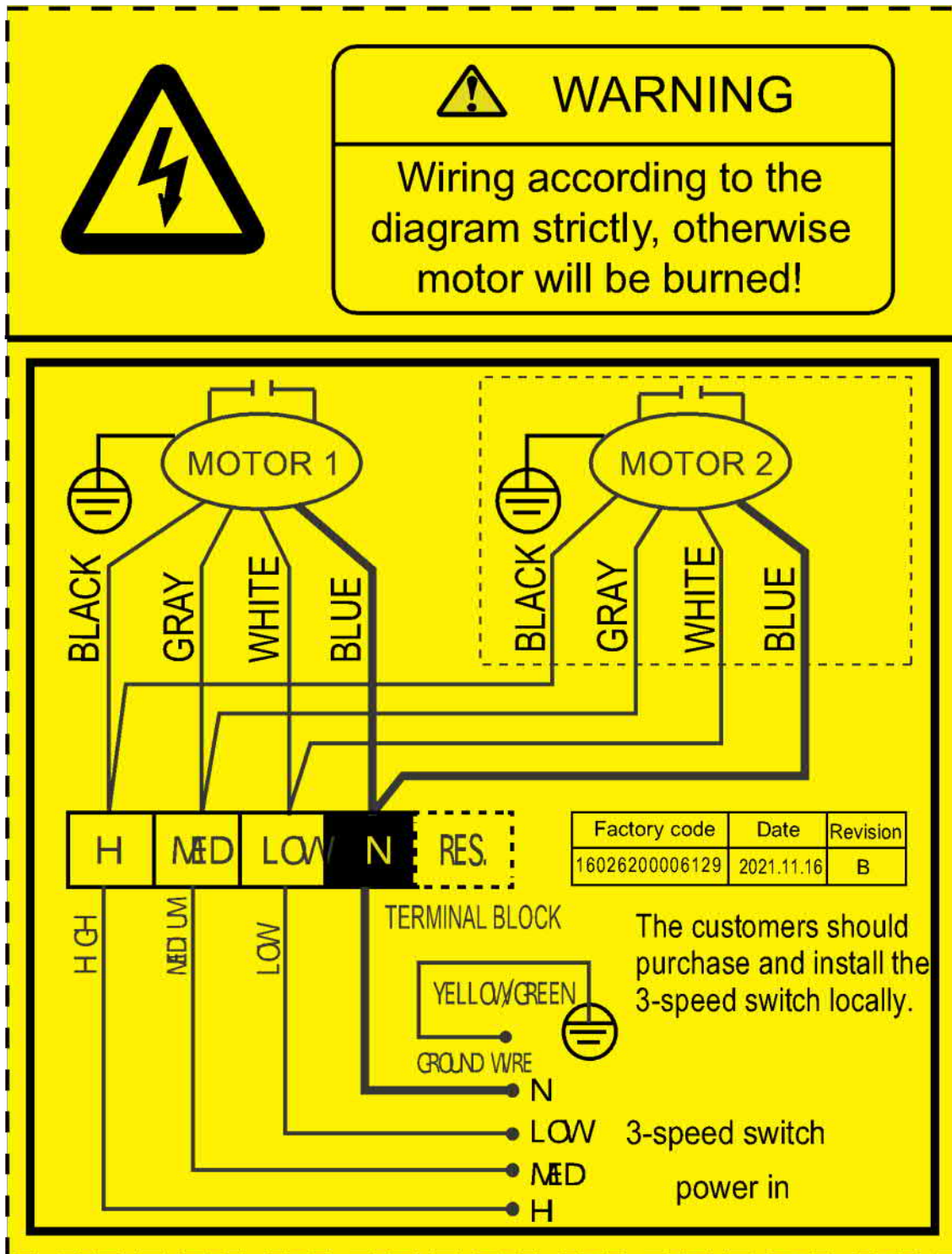
MDVF-700D504FF



4-Pipe Duct MDVF-FF Series



6 Wiring Diagrams



Notes:

- Black: high fan speed; Gray: medium fan speed; White: low fan speed; Blue: Neutral wire.
- Terminal 5 connects with reserved speed.
- Please connect wires properly, or the motor would be burned-out.

7 Electrical Characteristic

Model name	Units				Power Supply		IFM (Indoor Fan Motor)	
	Hz	Volts (V)	Min. (V)	Max. (V)	MCA (A)	MFA (A)	KW (W)	FLA (A)
MDVF-200D304FF	50	220-240	198	264	0.25	15	45	0.2
MDVF-300D304FF	50	220-240	198	264	0.38	15	62	0.3
MDVF-400D304FF	50	220-240	198	264	0.38	15	71	0.3
MDVF-500D304FF	50	220-240	198	264	0.63	15	97	0.5
MDVF-600D304FF	50	220-240	198	264	0.63	15	110	0.5
MDVF-700D304FF	50	220-240	198	264	0.75	15	124	0.6
MDVF-800D304FF	50	220-240	198	264	0.88	15	141	0.7
MDVF-1000D304FF	50	220-240	198	264	1	15	165	0.8
MDVF-1200D304FF	50	220-240	198	264	1.13	15	96*2	0.5*2
MDVF-1400D304FF	50	220-240	198	264	1.63	15	137*2	0.7*2

Abbreviations:

MCA: Min. Current Amps. (A)

MFA: Max. Fuse Amps. (A)

IFM: Indoor Fan Motor

FLA: Full Load Amps. (A)

KW: Rated Motor Output (W)



Part 3

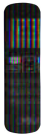
Accessories

1 Standard Accessories.....	75
2 Optional Accessories	75

1 Standard Accessories

Accessory name	Qty.	Shape	Usage
installation manual	1	/	Installation guide
Accessional plastic water tray	1		Connect drain water from valve kit

2 Optional Accessories

Accessory name	Qty.	Shape	Usage
PCB control kit FCUKZ-03B	1		Electric control
Remote controller RM12F	1		Remote control
Remote controller R51/E	1		Remote control
Wired controller KJR-18B/E	1		Wired control
Wired controller KJRP-86A/I	1		Wired control
Centralized controller CCM30	1		Centralized control

Note: the remote controllers and centralized controllers above can only be used under the premise of adding PCB control kit.

4-Pipe Duct MDVF-FF Series



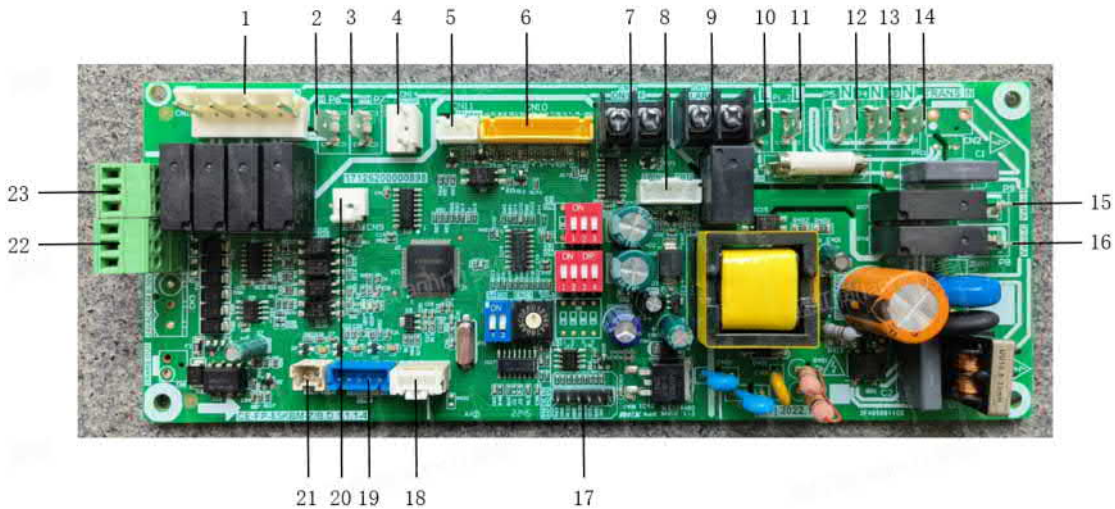
2.1 PCB control kit for FCU



2.1.1 Specifications

Model		FCUKZ-04B
Power supply		220-240V-1Ph-50Hz
Operation range	Room temperature	17°C~30°C
	Inlet water temperature	3°C~75°C
Temperature controlling precision		±1°C
Dimension (W×H×D)		308mmx80mmx244mm
Packing Size (W×H×D)		517mmx140mmx319mm

2.1.2 Internal View



2.1.3 Ports of Main Control Board

No.	Position No.	Description
1	CN16	L: Low fan speed output port of AC fan
		M: Medium speed output port of AC fan
		H: High fan speed output port of AC fan
		N: Neutral line output port of AC fan
2	P6	H: High fan speed output port of AC fan
3	P7	HH: Ultra-high fan speed reserved output port of AC fan (unconnected)
4	CN14	PUMP: Water pump output port
5	CN11	WATER: Water level switch port
6	CN10	Display panel docking port (ten-core)
7	CN17	ON/OFF: Remote on/off port

8	CN12	SWING: Swing motor port
9	CN13	ALARM: Fault alarm output
10	P1_1	L: Power live wire input
11	P1_2	L: Power live wire input
12	P5	N: Power neutral wire
13	P4	N: Power neutral wire
14	P3	N: Power neutral wire
15	P9	Valve-H: Heating two/three way valve Live Wire
16	P8	Valve-C: Cooling two/three way valve Live Wire
17	CN22	EEPROM program burn-in port
18	CN300	Master program burn-in port
19	CN7	T2C: Cooling tube temperature sensor port
		T1: Room temperature sensor port
20	CN9	HEAT: Auxiliary heater relay control port
21	CN8	T2H: Heating tube temperature sensor port
22	CN23	PQE: Modbus communication port
23	CN18	XYE: centralized control communication port

2.1.4 Common Error Codes

No.	Error	Name	Error Code	LED Display Status	Note
1	Error	EEPROM communication error	E7	Running indicator and timing indicator flash at 5Hz	Unit shutdown, unrecoverable
2	Error	Room temperature sensor port exception	E2	Timing indicator flashes at 5Hz	Unit shutdown, auto recovery after troubleshooting
3	Error	Coil temperature sensor (T2C) port exception	E3	Running indicator flashes at 5Hz	Unit shutdown, auto recovery after troubleshooting
4	Error	Coil temperature sensor (T2H) port exception	E4	Running indicator flashes at 5Hz	Unit shutdown, auto recovery after troubleshooting
5	Protection	Water level exceeds warning level	EE	Water level alarm indicator flashes at 5Hz	Auto recovery after troubleshooting
6	Protection	Water temperature over-range protection	P1	Running indicator and anti-cold/hot air indicator flash at 5Hz	Auto recovery after troubleshooting
7	Protection	Anti-freezing protection	P0	Running indicator and water level warning indicator flash at 5Hz	Auto recovery after troubleshooting
8	Protection	Remote off	P2	Anti-cold/hot air indicator flashes at 5Hz	No troubleshooting and no fault output

4-Pipe Duct MDVF-FF Series



2.1.5 Troubleshooting

E7: EEPROM fault

Applicable Model	AHU control box of fan coil unit (AC fan coil unit)
Diagnostic Logic	EEPROM fault
Cause	■ Damaged EEPROM chip on the main control board
Troubleshooting Procedure	<pre> graph LR E7([E7]) --> Replace[Replace the main control board of IDU] Replace --> Normal([The device returns to normal]) </pre>

E2&E3&E4: T1&T2C&T2H sensor fault

Applicable Model	AHU control box of fan coil unit (AC fan coil unit)
Diagnostic Logic	The resistance value of the sensor detected by the main control board is in an open circuit or short circuit; voltage > 4.95V or voltage < 0.05V
Cause	■ Poor contact between the sensor and the main control board ■ Damaged sensor ■ Damaged main control board
Troubleshooting Procedure	<pre> graph TD Start([E2&E3&E4]) --> Q1{Is the sensor terminal loose} Q1 -- Yes --> A1([Adjust the terminal again]) Q1 -- No --> Q2{Measure the sensor resistance, and check whether the sensor resistance corresponds to the temperature} Q2 -- Yes --> A2([IDU main control board is faulty]) Q2 -- No --> A3([Temperature sensor fault]) </pre>

EE: Water level sensor fault

Applicable Model	AHU control box of fan coil unit (AC fan coil unit)
Diagnostic Logic	Water level alarm fault, check whether the water level switch is in a closed or open state
Cause	■ Loose or damaged wiring of water level switch ■ Water level switch stuck ■ Obstructed drainage of the IDU drain pan or damaged water pump ■ Damaged main control board of IDU
Troubleshooting Procedure	<pre> graph TD Start([EE]) --> Q1{Is the discharge of the drain pan abnormal} Q1 -- Yes --> A1([Rectify the drain pan according to installation requirements]) Q1 -- No --> Q2{Is the wiring of the water level switch short-circuited, broken or loose} Q2 -- Yes --> A2([Adjust or replace the wiring]) Q2 -- No --> Q3{Short circuit terminals 1 and 3 of CN11 to check if the IDU is abnormal} Q3 -- Yes --> A3([IDU main control board is faulty]) Q3 -- No --> Q4{Are the drainage outlets of the drain pump and drain pan abnormal} Q4 -- Yes --> A4([Replace the drain pump or clean the drain pan]) Q4 -- No --> Q5{Check if the resistance value of the water level switch is abnormal} Q5 -- Yes --> A5([Replace the water level switch]) Q5 -- No --> End([The equipment is functional.]) </pre>

4-Pipe Duct MDVF-FF Series



P1: Water temperature over-range protection

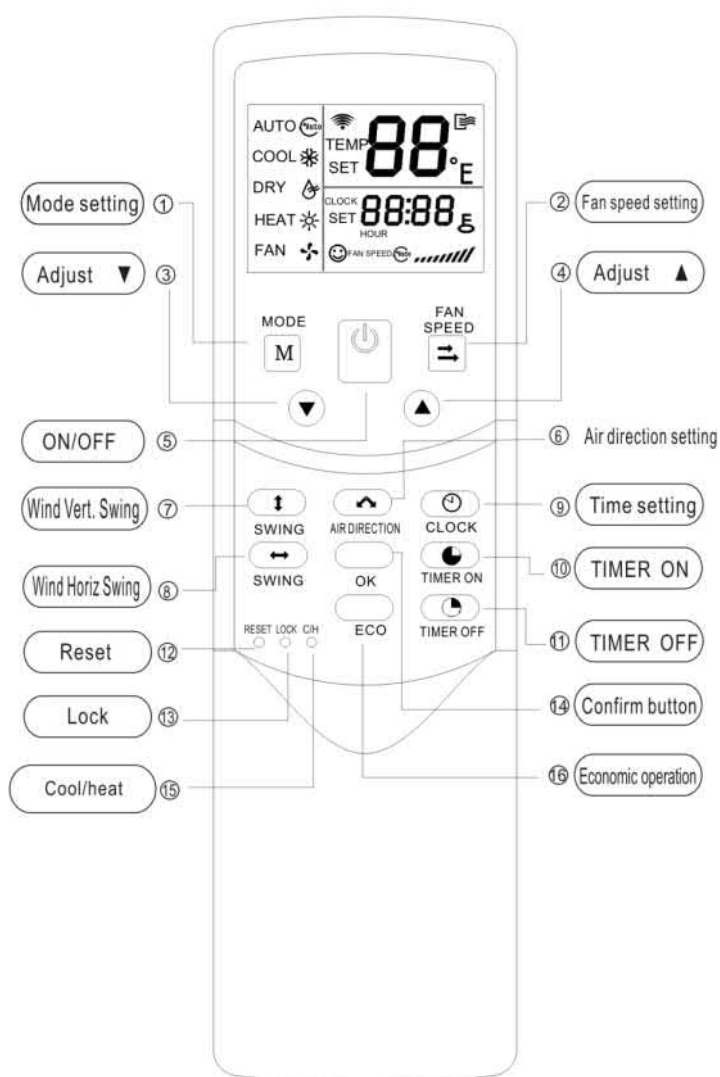
Applicable Model	AHU control box of fan coil unit (AC fan coil unit)
Diagnostic Logic	The water temperature exceeds the range that the system can withstand
Cause	■ Water supply temperature beyond the safe range ■ Faulty temperature sensor of the heat exchanger, leading to higher detected temperature
Troubleshooting Procedure	<pre> graph TD P1([P1]) --> A[The cooling/heating water valve automatically closes, and the fault indicator and buzzer act] A --> B{Automatically exit the water temperature over-range protection after judging that the temperature has decreased} B -- Yes --> C[Normal] B -- No --> D{Check if the tube wall sensor of the heat exchanger is faulty} D -- Yes --> E[Replace the tube wall sensor of the heat exchanger] </pre>

P0: Anti-freezing protection

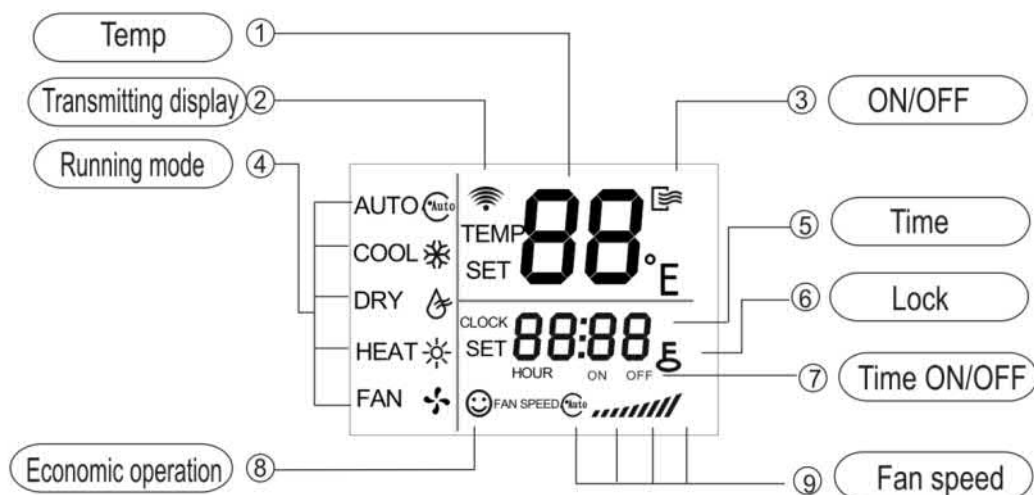
Applicable Model	AHU control box of fan coil unit (AC fan coil unit)
Diagnostic Logic	Prevent freezing due to low temperature inside the heat exchanger
Cause	Low temperature inside the heat exchanger
Troubleshooting Procedure	P0 Anti-freezing protection is a normal auto protection function. When the wall temperature T2C of the heat exchanger is below 3°C, the device will automatically start anti-freezing protection and the buzzer will operate. At the same time, if the indoor temperature T1 is below 10°C, the indoor fan will stop. When the wall temperature T2C of the heat exchanger exceeds 10°C, the device will automatically exit anti-freezing protection and return to normal.

2.2 Optional remote controller: RM05/BGE

2.2.1 Operation section



2.2.2 Display section



4-Pipe Duct MDVF-FF Series

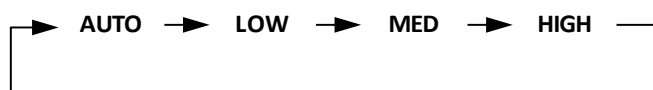
2.2.2.1 How to operate

- MODE:** Once pressing, running mode will be selected in the following sequence:



NOTE: No heating mode for cool only type unit.

- FAN SPEED:** Fan speed will be selected in following sequence once pressing this button:

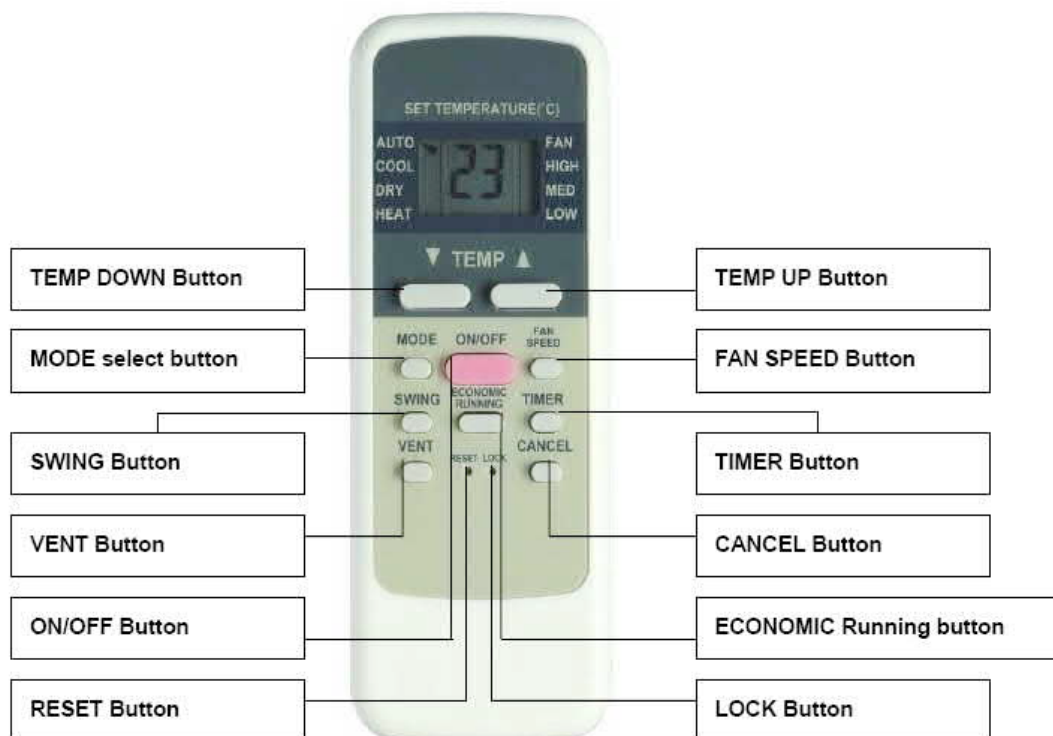


- Adjust:** Decrease the set temp. Keeping pressing will decrease the temp with 1°C per 0.5s.
- Adjust:** Increase the set temp. Keeping pressing will increase the temp with 1°C per 0.5s.
- ON/OFF:** For turning on or turning off the air conditioner.
- AIR DIRECTION:** Activate swing function of air deflector. Once pressing, air deflector will turn 6°C. For normal operation and better cooling and heating effect, deflector will not turn to the degree which is the state of deflector when the unit is turned off. (Only available when remote controller is used with corresponding unit.)
- HORIZ SWING:** Activate or turn off horizontal swing function. (Only available when remote controller is used with corresponding unit.)
- VERT SWING:** Activate or turn off vertical swing function. (Only available when remote controller is used with corresponding unit.)
- CLOCK:** Display the current time. (12:00 is displayed when resetting or electrifying for the first time.) Press CLOCK for 5s, icon indicating hour will flash with 0.5s. Press it again, ▼ and ▲ are used to adjust the figure. Setting or modification is effective only by pressing OK button to make confirmation.
- TIME ON:** For time ON setting. Once pressing this button, the time will increase by 0.5 hour. When the set time exceeds 10 hours, pressing the button will increase the time by 1 hour. Adjusting the figure to 0.00 will cancel time ON setting.
- TIME OFF:** For time OFF setting. Once pressing this button, the time will increase by 0.5 hour. When the set time exceeds 10 hours, pressing the button will increase the time by 1 hour. Adjust the figure to 0.00 will cancel time ON setting.
- RESET (inner located):** Press this button with a needle of 1mm to cancel the current setting and reset remote controller.
- LOCK (inner located):** Press this button with a needle of 1 mm to lock or unlock the current setting.
- OK:** Used to confirm the time setting and modification.
- COOL/HEAT (inner located):** Press this button with a needle of 1 mm to shift mode between COOL only and COOL&HEAT. During setting, back light will be lightened. Factory default mode is COOL & HEAT.
- ECO:** Activate or turn off economic operation mode. It is suggested to turn on this function when sleeping. (Only available when remote controller is used with corresponding unit.)

2.2.2.2 Specifications

Model	RM05/BGE
Rated Voltage	3.0V
Lowest Voltage of CPU Emitting Signal	2.4V
Reaching Distance	8m (when using 3.0 voltage, it can get 11m)
Environment Temperature Range	-5°C~60°C

2.3 Optional remote controller: R51/E



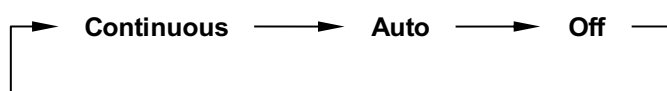
2.3.1 How to operate

- **TEMP DOWN Button:** Push the TEMP DOWN button to decrease the indoor temperature setting or to adjust the timer in a counter-clockwise direction.
- **MODE SELECT Button:** Each time you push the button, a mode is selected in a sequence that goes from AUTO, COOL, DRY, HEAT and FAN as the following figure indicates:



NOTE: HEAT only for Heat Pump.

- **SWING Button:** Push this switch button to change the louver angle.
- **RESET Button:** When the RESET button is pushed, all of the current settings are cancelled and the control will return to the initial settings.
- **ECONOMIC RUNNING Button:** Push this button to go into the Energy-Saving operation mode.
- **LOCK Button:** Push this button to lock in all the current settings. To release settings, push again.
- **CANCEL Button:** Push this button to cancel the TIMER settings.
- **TIMER Button:** This button is used to preset the time ON (start to operate) and the time OFF (turn off the operation)
- **ON/OFF Button:** Push this button to start the unit operation. Push the button again to stop the unit operation.
- **FAN SPEED Button:** This button is used for setting fan speed in the sequence that goes from AUTO, LOW, MED to HIGH, and then back to Auto.
- **TEMP UP Button:** Push this button to increase the indoor temperature setting or to adjust the timer in a counter-clockwise direction.
- **VENT Button:** Push this button to set the ventilating mode. The ventilating mode will operate in the following sequence:



NOTE: Ventilation Function is available for the Fresh Star Series.

4-Pipe Duct MDVF-FF Series

2.3.2 specifications

Model	R51/E
Rated Voltage	3.0V
Lowest Voltage of CPU Emitting Signal	2.0V
Reaching Distance	8m (when using 3.0 voltage, it can get 11m)
Environment Temperature Range	-5°C~60°C

2.4 Optional wired controller for ducted units without electric heater: KJR-18B/E



2.4.1 Models

KJR-18B/E is a thermostat that has developed into 4 types. Each type has its own features to suit different environment.

Models	Features
KJR-18B/E-A	Only control 3-speed fan, when the temperature reaches the set-point, it will close the Fan.
KJR-18B/E-B	Control motorized valve and 3-speed fan, when the temperature reaches the set-point, it will close the motorized valve and fan both
KJR-18B/E-C	Control motorized valve and 3-speed fan, when the temperature reaches the set-point, it will close the motorized valve with the fan still running
KJR-18B/E-D	Control 4 pipe fan coil units, control two motorized valves and 3-speed fan, when the temperature reaches the set-point, it will close the motorized valves with the fan still running.

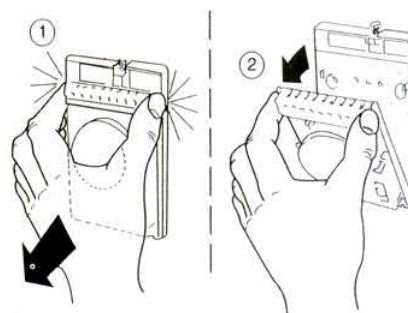
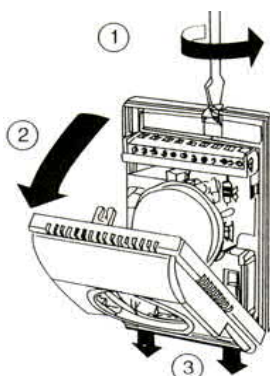
2.4.2 Specifications

Model	KJR-18B/E
Available appliance	Ducted FCU without electrical heater
Power supply	AC 220V±10%-1Ph-50/60Hz
Operating temperature	0~45°C
Operating Humidity	5~90%RH
Temperature controlling range	10~30°C
Temperature controlling precision	±1°C
Dimension (H×W×D)	130×85×43mm

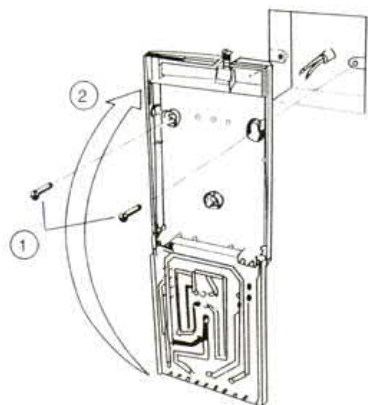
2.4.3 Installation

1) Dismantle the front panel

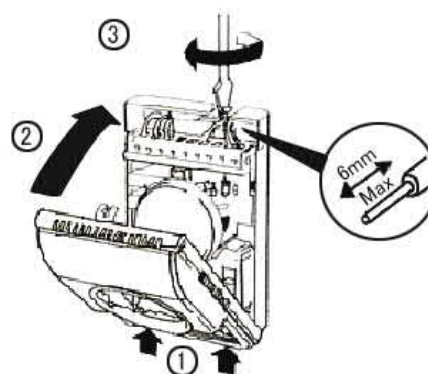
2) Dismantle te middle part



3) Install the back base

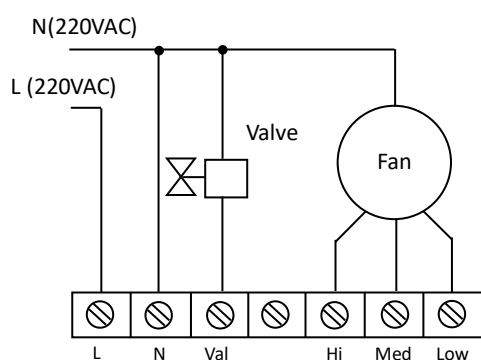


4) Wire Connection



2.4.4 Wiring diagrams

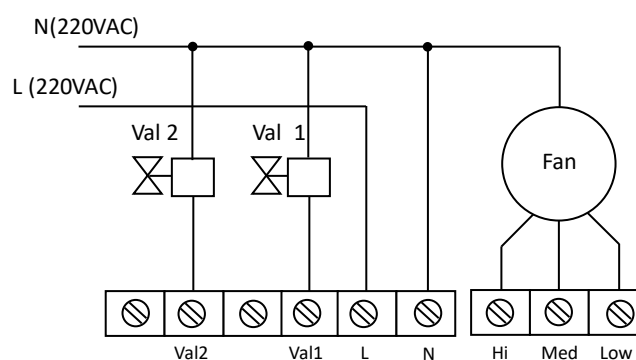
KJR-18B/E-A KJR-18B/E-B KJR-18B/E-C



2-wire NC valve system

(KJR-18B/E-A without Motorized Valve)

KJR-18B/E-D

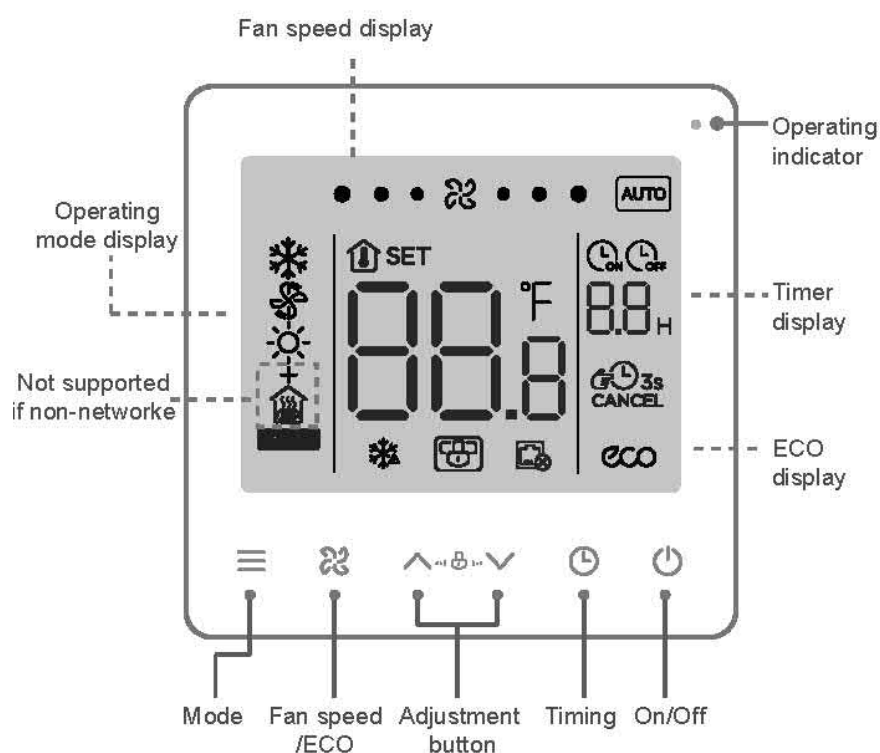


Val1: For heating Val2: For cooling

2-wire NC valve system

Note: Please confirm the model and use corresponding wiring diagram above when you wire.

2.5 Optional wired controller for ducted units with electric heater: KJRP-86I/A



4-Pipe Duct MDVF-FF Series



2.5.1 Functions

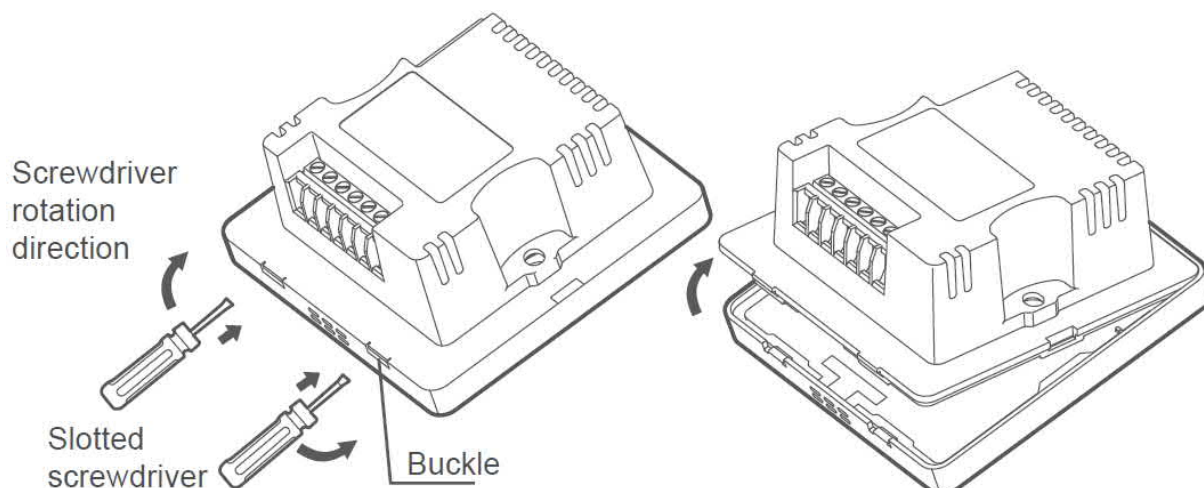
Function	Available model
Available for ducted FCU with electric heater	All
Blue backlight	KJRP-86A/BMFNKD-E
Clock display	All
Temperature setting	All
Mode setting : cool/heat/fan/electric heating on/off	All
Fan speed setting: auto/high/medium/low	All
Motorized valve control	All
Electric heating control	KJRP-86A/BMFNKD-E KJRP-86I/MFKS-E
Remote control (optional)	KJRP-86A/BMFNKD-E

2.5.1 Specifications

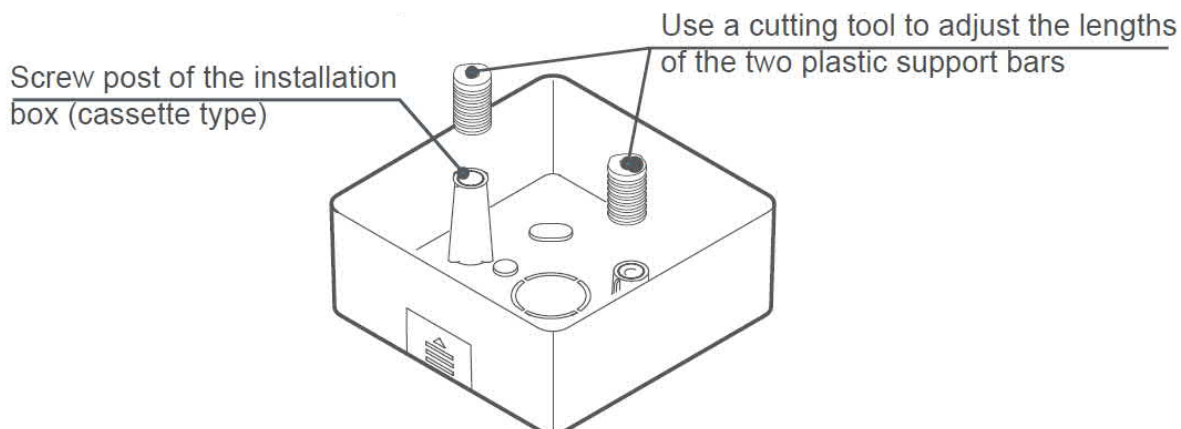
Model	Non-networked: KJRP-86I/MFK-E Non-networked: KJRP-86I/MFKS-E Networked: KJRP-86A/BMFNKD-E
Power supply	AC 220-240V~, 50/60Hz
Power consumption	< 2W
Temperature limit	-15°C to 43°C
Humidity	≤ RH90 %
Degree of pollution	2
Action Type	1B.U
Temperature controlling precision	± 1°C
External dimension(W×H×D)	86×86×9 mm
Mounting hole	60mm (standard)

2.5.2 Installation

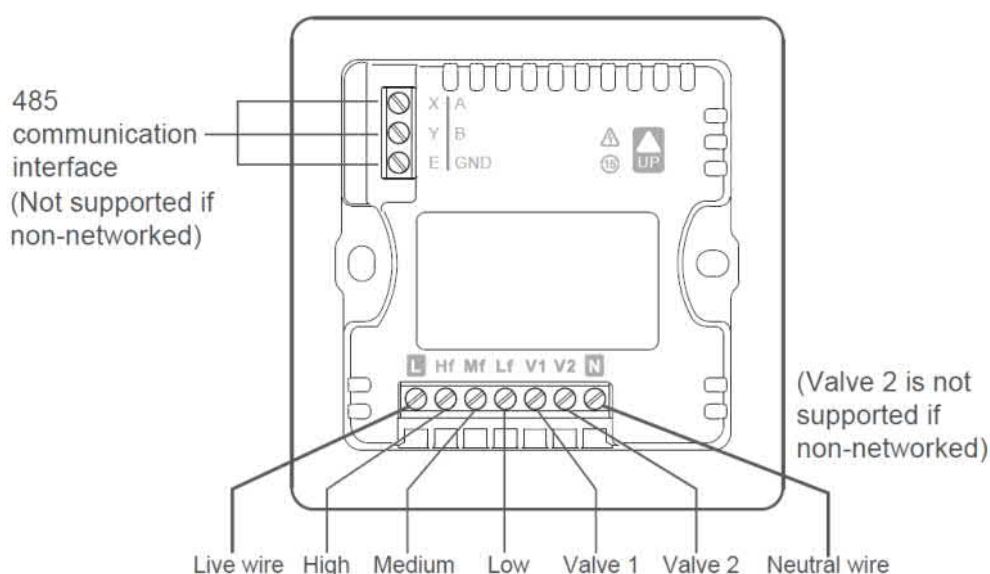
1. Remove rear cover of the wired controller: insert a slotted-head screwdriver into the bottom buckle of the wired controller, and rotate in the direction indicated to remove the rear cover. Remove the flat cable connecting the front and rear PCBs and remove the front cover of the wired controller.



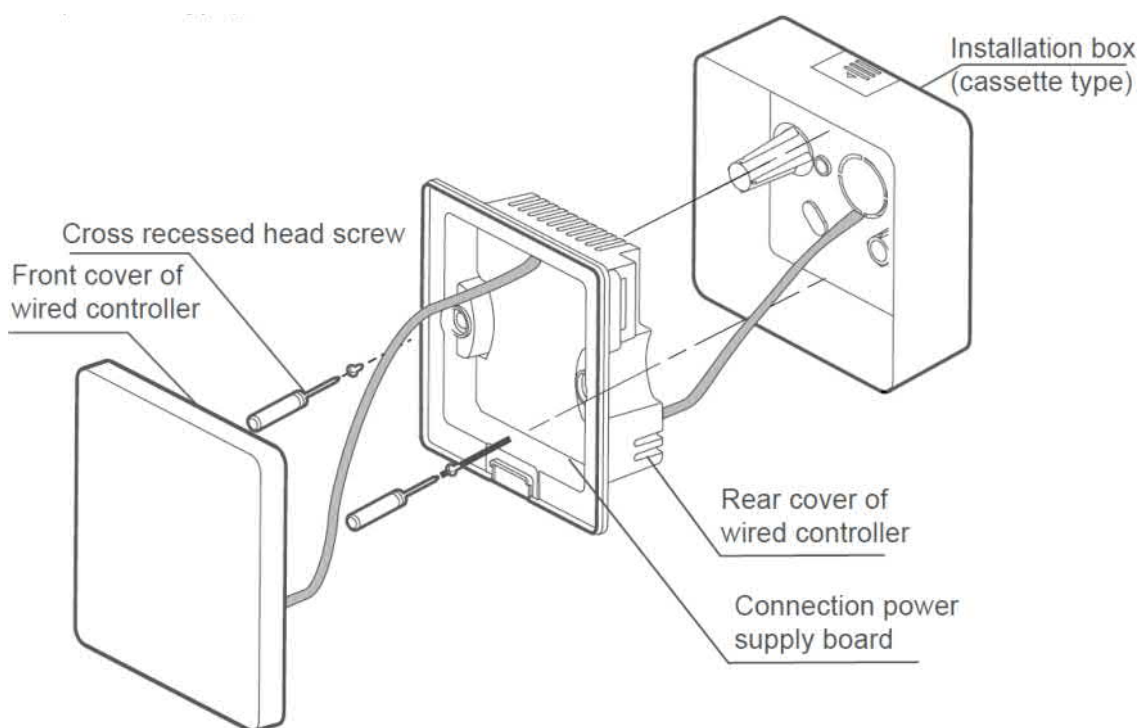
2. Install support bars: Adjust the lengths of the two plastic support bars in the accessories. Ensure that the rear cover of the wired controller stays level with the wall when installed on the screw post of installation box (cassette type).



3. Wiring: Connect the cables according to the following wiring drawing.



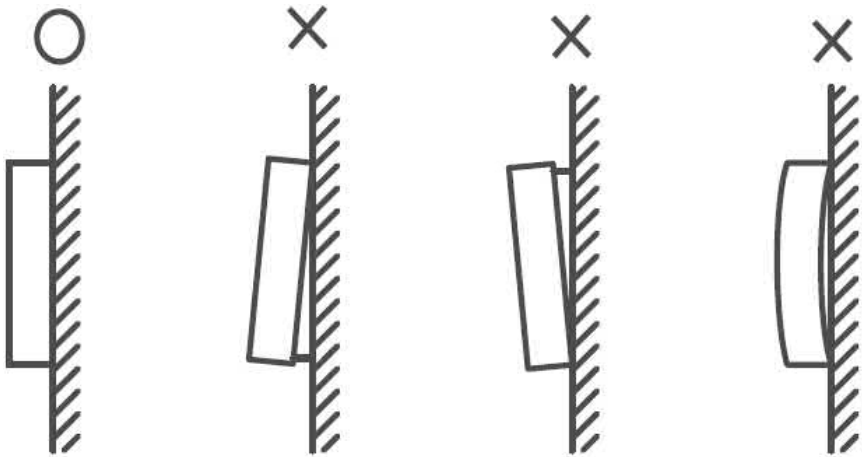
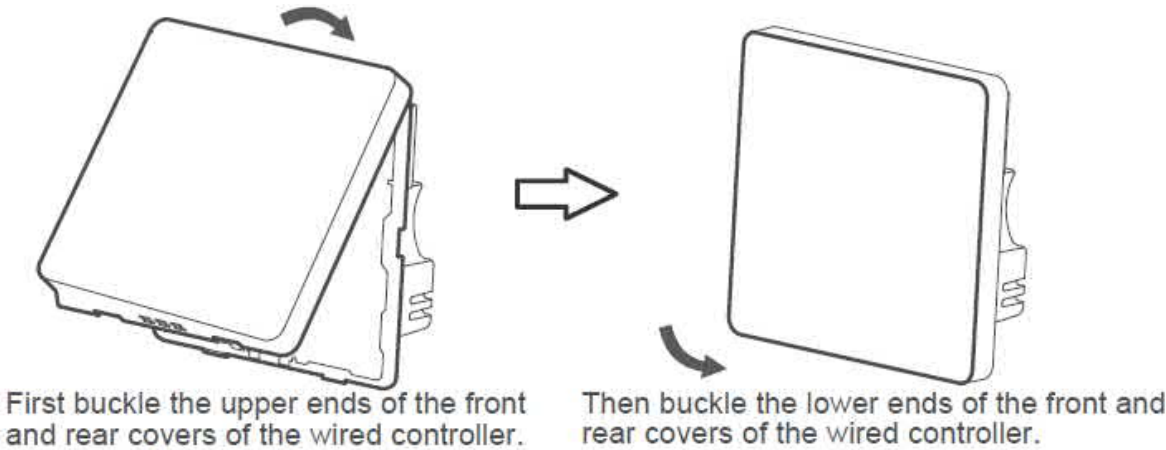
4. Insert the cable of the rear cover into the installation box (cassette type). Use pan head screws to fix the rear cover of the wired controller on the installation box (cassette type); connect the flat cable that connects the front and rear PCBs.



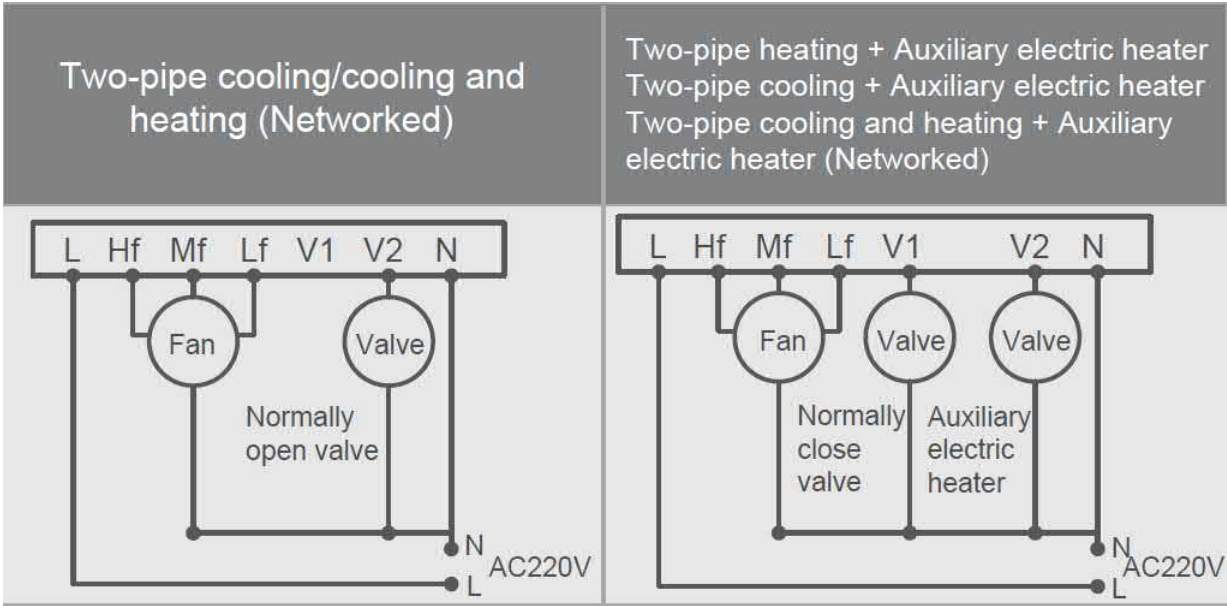
4-Pipe Duct MDVF-FF Series



5. Buckle the front cover of the wired controller on the rear cover as shown in the following figure.



2.5.3 Wiring diagram



2.5.4 Operation

Basic setting

1 On/Off

Press . The operating status LED turns on and the air conditioner starts operating;

Press again. The operating status LED turns off and the air conditioner stops operating

2 Mode Selection



OFF The icon is displayed when the air conditioner is off.

Press to change the operating mode according to the order shown below:

Two-pipe cooling and heating scenario is set before delivery from factory by default. The scenario can be changed based on the parameter settings according to the actual need.

Only two-pipe cooling and two-pipe cooling and heating modes are supported if non-networked

3 Temperature Setting



Except in the Fan mode, press or to adjust the set temperature indoors. Press and hold the button to increase or decrease the set temperature continuously.

4 ECO setting



Press and hold bottom for 2s to enable ECO mode.

Cooling ECO: 26°C, low fan speed; Fan ECO: low fan speed;

Heating ECO: 18°C, low fan speed; Auxiliary electric heater ECO: 18°C, low fan speed;

Heating + Auxiliary electric heater ECO: 18°C, low fan speed.

5 Fan speed setting



Press to adjust the fan speed, which can be set to High, Normal, Low and Auto.



6 Timer setting



● Timed On setting



Press or switch off the screen to confirm the timing

Press and hold to cancel

Press and hold to cancel

4-Pipe Duct MDVF-FF Series

● Timed Off setting



7 Child lock setting

Enable child lock:



Press and hold the two buttons for 1.5s

Enable child lock



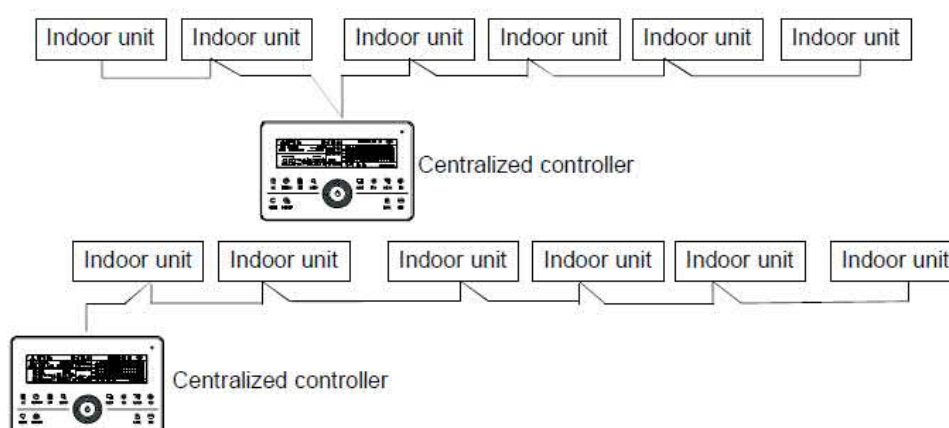
Press and hold the two buttons for 1.5s

Disable child lock

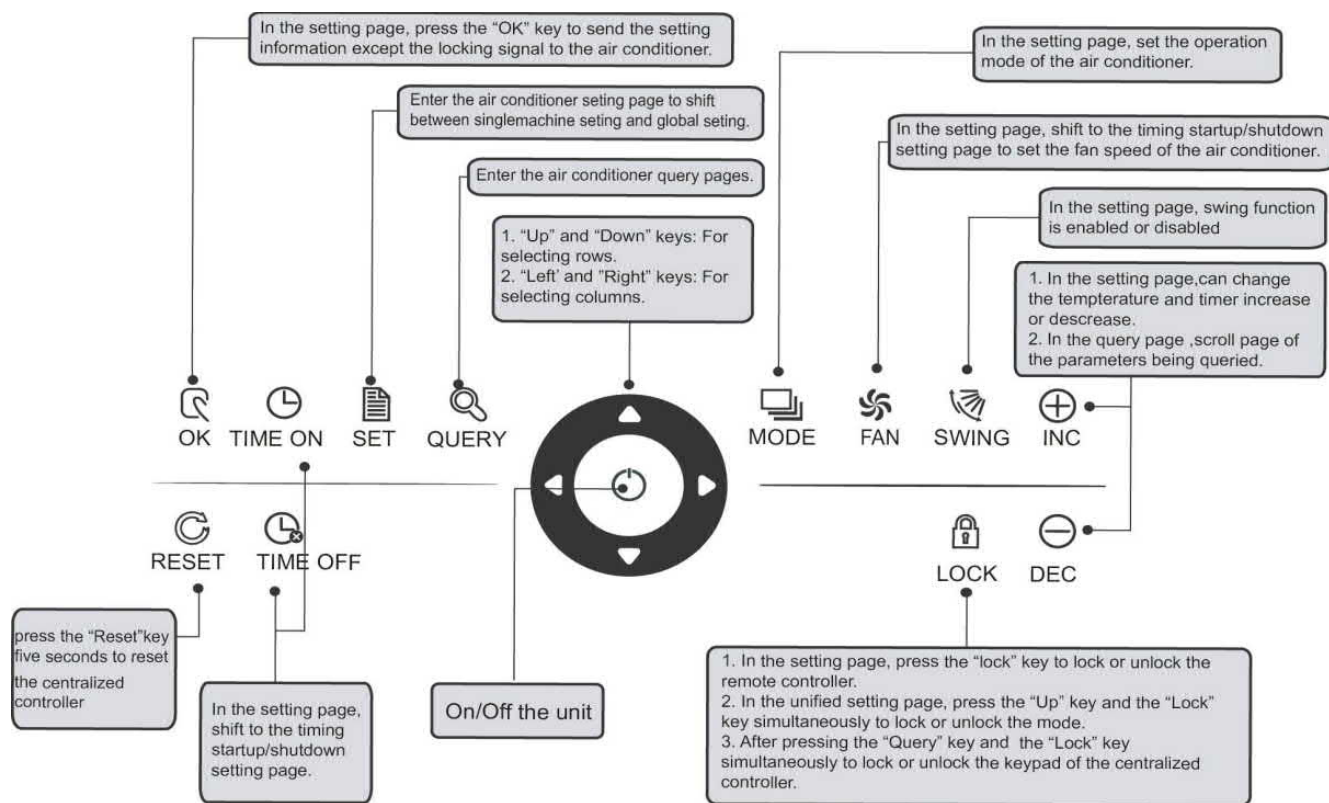
2.6 Optional centralized controller: CCM30



CCM30 is new designed and is a touch key centralized controller. It can be connected up to 64 indoor units, and the connection length can be up to 1200m. The CCM30 centralized controller has the air filter cleaning reminding function and it is convenient to remind users to clean the air filter. Both of the following wiring modes centralized controller and indoor units are applicable.



2.6.1 General functions and description



(1) Query key

Any time when you press the key, the selected operation mode is to query the operational state of the air conditioner. By default, the first in-service air conditioner will be queried.

(3) Setting key

In other display modes, press this key can enter the setting mode.

By default, it is a single setting, and the first in-service air conditioner is displayed. In setting the operation mode, press this key again, and the operation will be performed for all air conditioners in the network. Press the key repeatedly to shift between a single setting and global setting.

(4) Mode key

Under the setting operation mode, press this key to set the operation.

(5) Fan key

Under the setting operation mode, press this key to set the fan of the indoor unit to run in the automatic, high, medium or low level of air.

(6) Time on key

Under the setting operation mode, press this key can set the timing to turn on the air conditioner; press this key again can exit the timing setting, and restore the normal temperature regulation operation mode

(7) Time off key

Under the setting operation mode, press this key can set the timing shutdown of air conditioner, press this key again will exit the timing setting, and restore the normal temperature regulation operation mode.

4-Pipe Duct MDVF-FF Series

(8) Swing key

Under the setting operation mode, press this key can enable or disable the swing function. If all currently selected air conditioners have no swing function, no effect will result after pressing the key.

(9) Leftward key

In the query mode, if this key is pressed, the operation state data of the previous air conditioner will be displayed. If it is currently on the first machine, the data of the last machine will be displayed, when the key is pressed. If you hold down this key, the address will decrease one by one. In the setting mode, if it is in single operation mode, the air conditioner of the previous in-service address number will be selected, when this key is pressed, if it is in the global operation mode, no effect will result when this key is pressed. In the main page, press the key to enter the query mode. By default, it is the first in-service air conditioner.

(10) Rightward key

In the query mode, when the key is pressed, the next in-service air conditioner is selected, and its operational state data will be displayed. If it is currently on the last air conditioner, the first one is selected and its data displays, when the key is pressed. If this key is long pressed, the address will increase one by one.

In the setting mode, if it is in the single operation mode, when the key is pressed, the next in-service air conditioner will be selected. If it is in the global operation mode, no effect will result when the key is pressed.

In the main page, press the key to enter the query mode. By default, it is the first in-service air conditioner.

(11) Downward key

In the main page, press this key can enter the query mode. By default, it is the first in-service air conditioner. In any other time, press this key will select the next row corresponding position air conditioner.

In the setting mode, if the global operation mode is selected, this key is invalid. If it is on the last row, press this key again to shift to the first row air conditioner. If this key is long pressed, the row will increase one by one.

(12) Upward key

In the main page, press this key can enter the query mode. By default, it is the first in-service air conditioner. In any other time, press this key will select the previous corresponding position air conditioner.

In the setting mode, if selected all the air conditioners to operate, this key is invalid.

If it is on the first row, press this key again, and shift to the last row corresponding air conditioner.

(13) Add key

1) Query mode:

Press this key, display the data of the last page. If it is now in the last page, press this key again and the first page will be displayed.

2) Setting operation mode

① Temperature adjusting method

Press this key; the setting temperature will increase 1°C. If you hold down the key "", the setting temperature will increase one by one.

When reached the highest allowed to set temperature, it cannot increase.

② Timing on or timing off setting method

Press this key "", it will select the next setting time. If you hold down this key, the next data will be selected one by one. When reached the max. Allowed setting time, it cannot increase.

(14) Reduce key

1) Query mode

Press this key "", display the data of the previous page. If it is now in the first page, press is key again and the last page will be displayed.

2) Setting operation mode

① Temperature adjusting method

Press this key "", the setting temperature will decrease 1°C. If you hold down this key, the setting temperature will decrease one by one. When reached the lowest allowed set temperature, it cannot decrease.

② Timing on or timing off setting method

Press this key "", it will select the next setting time. If you hold down the key "", the next data will be selected one by one. When reached the min allowed setting time, it cannot decrease.

(15) ON/OFF key

Any time when you press the key, the centralized startup/shutdown operation is performed for all current in-service air conditioners in the centralized controller network.

(16) Confirmation key

In the setting mode, press this key can send the currently selected mode state and the auxiliary function state to the selected air conditioner.

(17) Reset key

Any time when the reset key is pressed, the centralized controller will reset. The result is the same as the result of restoring power-on after power failure.

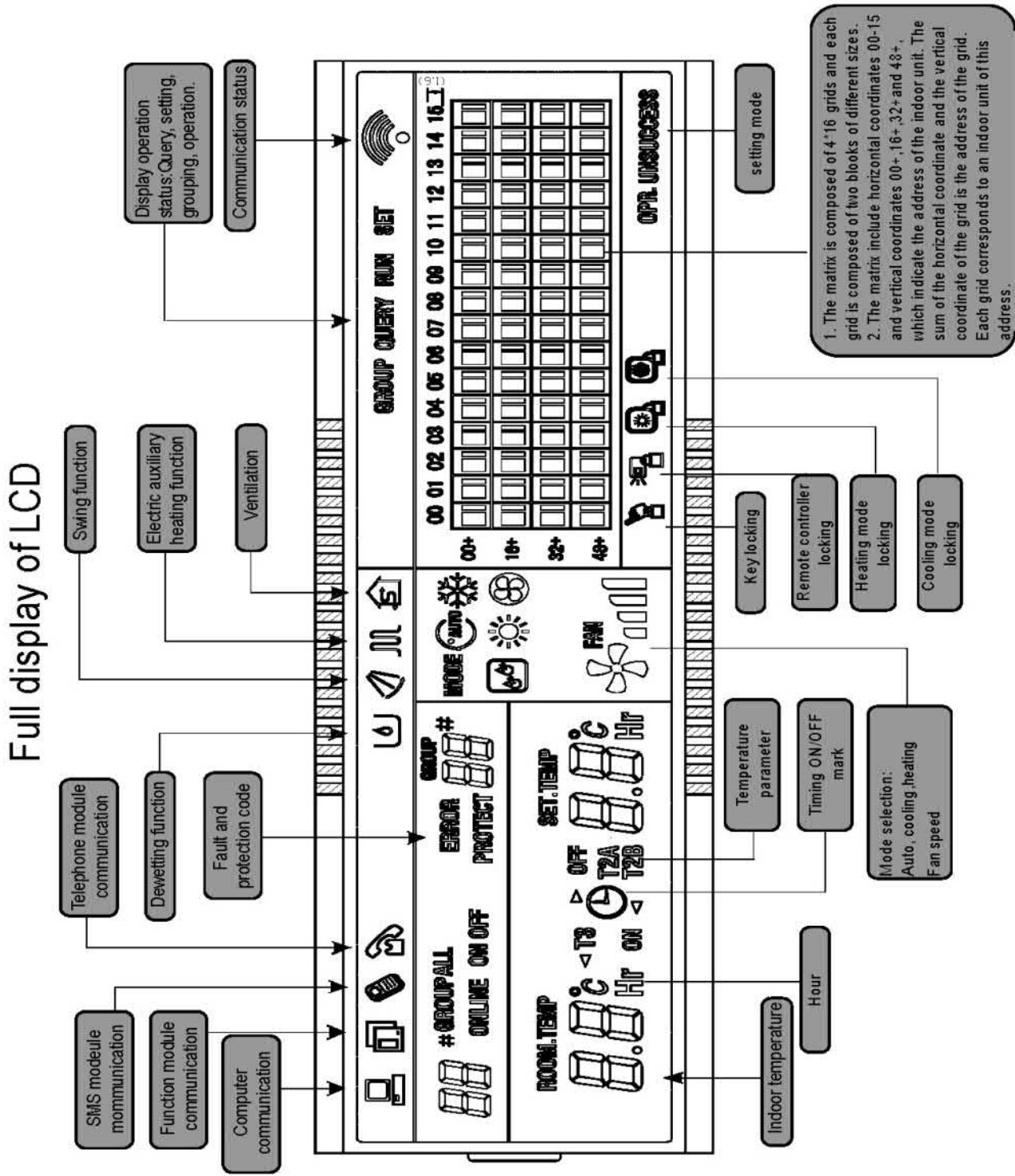
(18) Lock key

Any time when this key is pressed, the selected air conditioner can be locked or unlocked.

4-Pipe Duct MDVF-FF Series



2.6.2 LCD display



2.6.3 Liquid crystal matrix display description

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
00+																
16+																
32+																
48+																

The liquid crystal matrix is composed of 4*16 grids, and each grid is composed of two blocks of different sizes. The matrix includes horizontal coordinates 00~15 on the upper side and vertical coordinates 00+, 16+, 32+ and 48+ on the left side, which indicate the address of the indoor unit. The sum of the horizontal coordinate and the vertical coordinate of the grid is

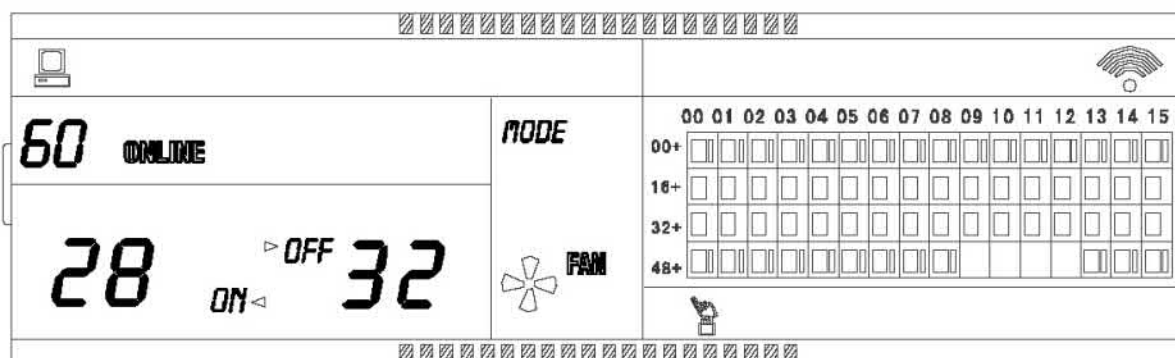
the address of the grid. Each grid corresponds to an indoor unit of this address. One grid is composed of two blocks of different sizes. The state indication table is as follows;

Status	Constantly on	Slow blink		Fast blink
Object				
Big black block	In-service	Selected	Fault of indoor or outdoor unit	Out of service
Small black block	Power on			Power off

2.6.4 LCD display description

Description of the standby page

The LCD displays the main page, 60 air conditioners are in service, of which 28 are powered on and 32 off.

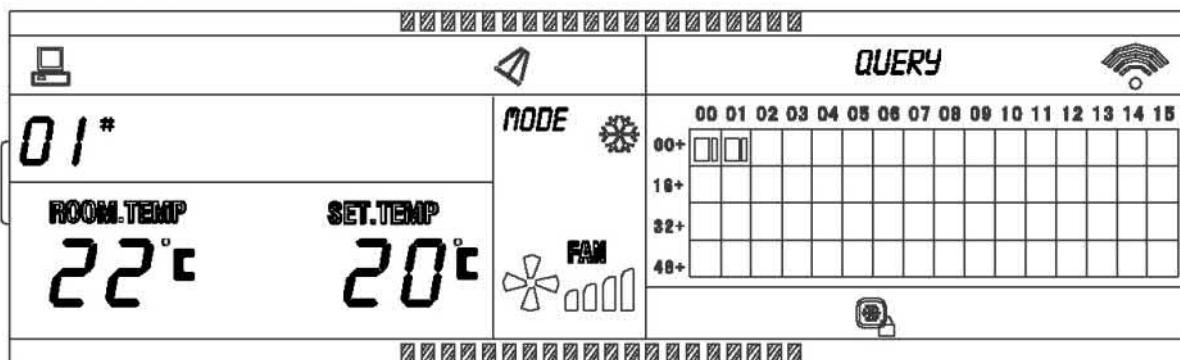


In the matrix, the big dots from (16+, 00) to (32+, 15) are luminous, and the small dots are not luminous. It indicates the 32 air conditioners with the addresses from 16 to 47 are powered off.

In the matrix, the big and small dots from (48+, 09) to (48+, 12) are not luminous. It indicates the four air conditioners with the address from 57 to 60 are outside the network.

All other big and small dots in the matrix are luminous. It indicates all other air conditioners are in the network and powered on. The address of the air conditioner is sum of the coordinates. For example, the address of (48+, 09) is 09+48=57.

Description of the query page



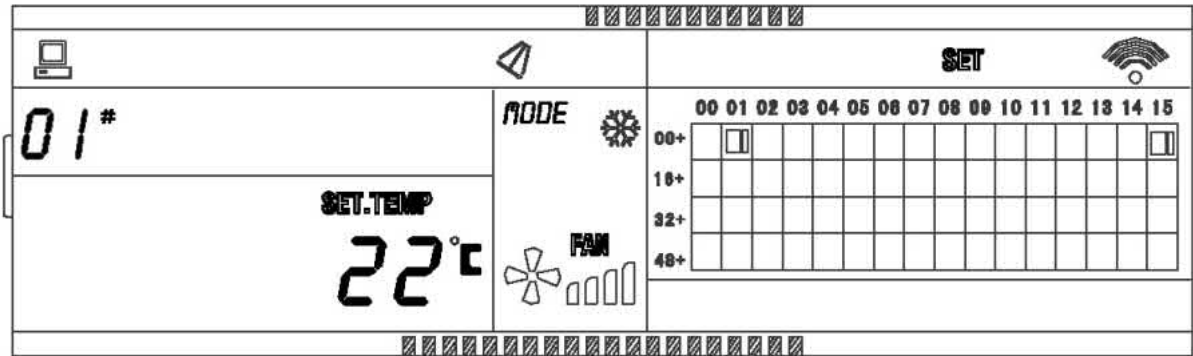
The LCD displays the query page, and the air conditioner with the address of 01 is being queried. Mode of the air conditioner with the address 01 is cooling, high speed air supply, swing on, indoor temperature 22°C, setting temperature 20°C and cooling mode locked.

In the matrix, only the big and small black dots at (00+, 00) and (00+, 01) are luminous. It indicates the in-service and power-on state of the air conditioners with the addresses of 00 and 01.

4-Pipe Duct MDVF-FF Series



Description of the setting page

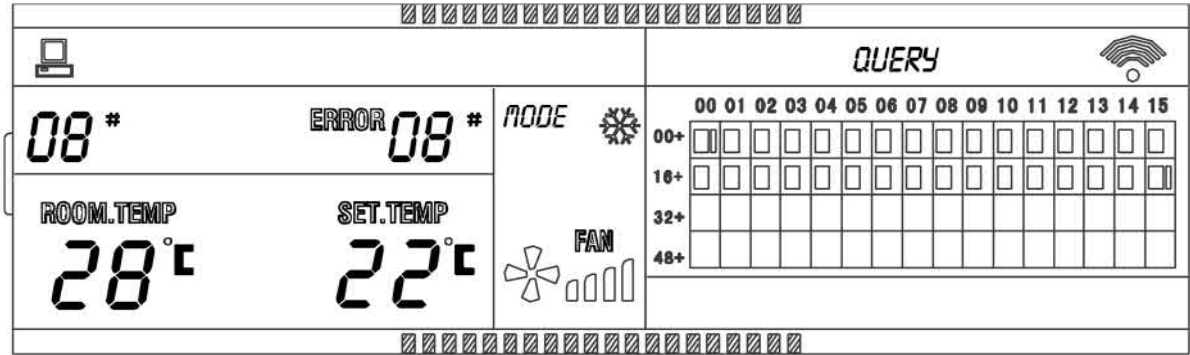


The LCD display displays the setting page, and queries the air conditioner with the address of 01.

The mode of the air conditioner with the address 01 is: Cooling, high fan speed, swing on, setting temperature 22°C and cooling.

In the matrix, only the big black dots at (00+, 01) to (00+, 15) are luminous. It indicates the air conditioners with the addresses 01 and 15 are in service.

Fault page display description



Query the air conditioner with the address of 08 in the query page.

The air conditioner with the address of 08 is faulty, and fault code is 08. The big black dot below (00+, 08) blinks.

In the matrix, only the big and small black dots at (00+, 00) and (16+, 15) illuminate. It indicates the in-service state of the air conditioner power on, with the addresses 00 and 31.

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