

CHW DRAW THROUGH FAN COIL UNIT (MDF)





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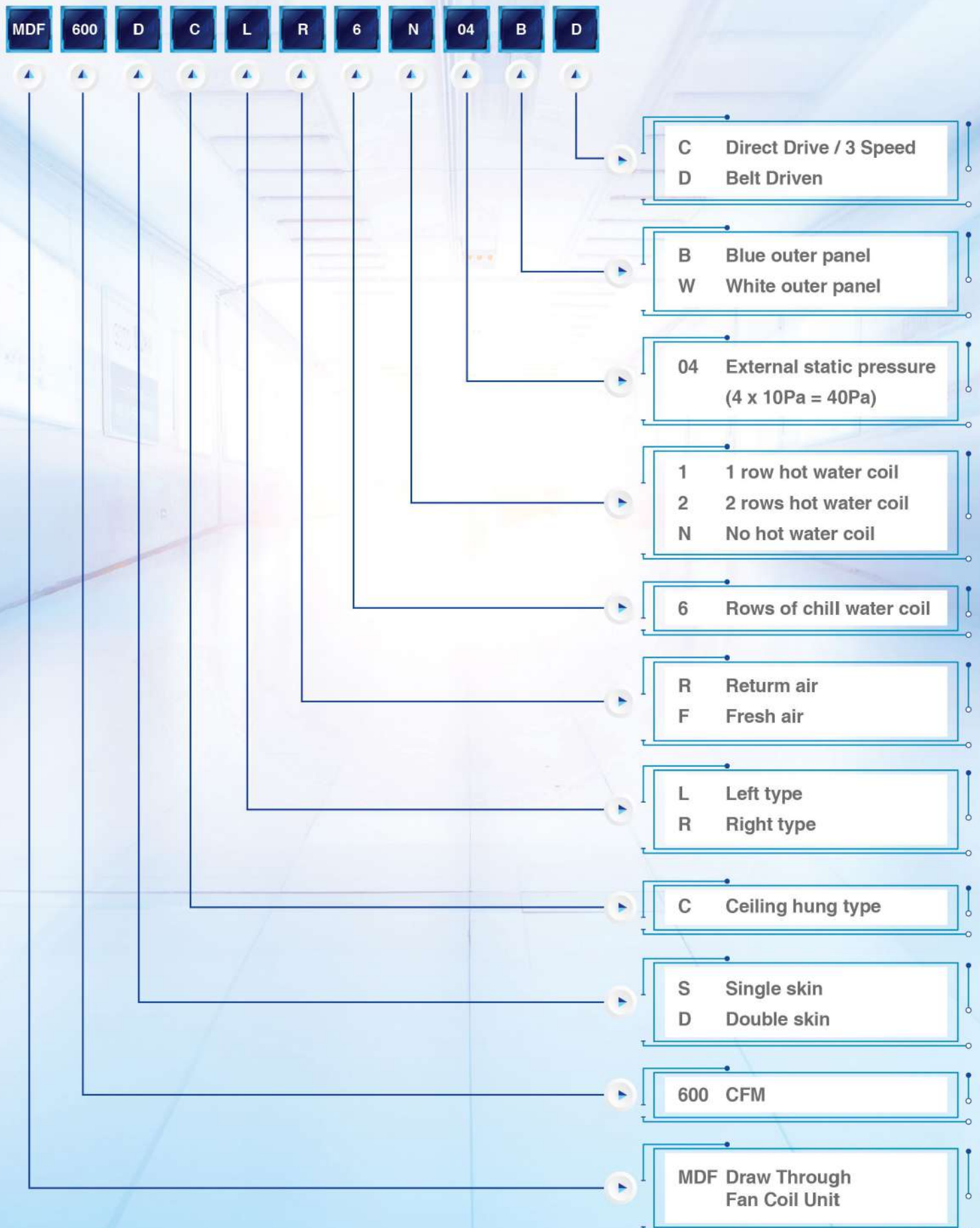
MDF features a 25mm thick panel with powder-coated steel on the outside and galvanized steel on the inside, filled with high-pressure PU foam. This creates a strong, lightweight structure with excellent thermal insulation and anti-rust properties. The hidden aluminium alloy frame, fastened with bolts and nuts, reinforces the panel.

The patented "Labyrinth" design integrates the frame and panel, reducing air leakage and isolating metal surfaces from outside air, preventing cold bridges and condensation, and minimizing energy loss. MDF's modular design allows flexibility in length and width to suit various site conditions. The product range offers airflow from 1,000 to 15,000 m³/h with three ESP options, making it versatile for different needs.

DESIGN

- Special Panel Structure Design
- Low Air Leakage
- No Cold Bridge
- Wide Product Range
- Computer Aided Coil Design
- ARI Performance Certified Coil

NOMENCLATURE



GENERAL DATA (3 SPEEDS COOLING COIL - 4 ROWS) RETURN AIR

Model		MDF	600C	800C	1000C	1300C	1500C	2000C	2500C	3000C	3500C
Air Flow	High	CFM	620	790	1050	1310	1580	2100	2630	3150	3710
	Medium	CFM	430	550	740	920	1100	1470	1840	2210	2590
	Low	CFM	310	390	530	660	790	1050	1310	1580	1850
Total Cooling Capacity	High	kW	5.2	6.5	9.2	11.5	13.4	19.8	23.1	28.6	32.6
	Medium	kW	4.1	5.2	7.3	9.2	11.0	15.7	18.4	22.9	26.4
	Low	kW	3.3	4.2	5.9	7.4	8.8	12.3	14.6	18.1	21.2
Water Flow Rate	High	l/s	0.25	0.31	0.44	0.55	0.64	0.95	1.10	1.36	1.55
	Medium	l/s	0.20	0.25	0.35	0.44	0.52	0.75	0.88	1.09	1.26
	Low	l/s	0.16	0.20	0.28	0.35	0.42	0.59	0.70	0.86	1.01
Water Pressure Drop	High	kPa	4.1	6.4	14.2	17.7	25.3	62.4	49.0	56.0	20.0
	Medium	kPa	2.7	4.3	9.3	11.7	17.6	40.7	32.2	37.3	13.5
	Low	kPa	1.8	2.9	6.2	7.8	11.6	25.9	21.2	24.1	9.0
External Static Pressure	High	Pa	140	140	140	190	190	160	160	220	260
	Medium	Pa	110	110	110	150	150	130	130	175	210
	Low	Pa	90	90	90	120	120	100	100	140	165
Dimension	Length	mm	900	900	900	900	900	950	950	950	950
	Width	mm	717	757	877	907	997	1217	1437	1497	1687
	Height	mm	545	545	545	620	620	620	620	620	680
Chilled Water Pipe Diameter		mm(in)	DN32 (1 1/4")					DN40 (1 1/2")			
Condensate Drain Size		mm(in)	DN25 (1")								
Net Weight		kg	48	52	72	74	85	95	124	140	146
Sound Pressure Level		dB (A)	52	52	54	55	57	58	60	62	62
Power Input		kW	0.35	0.45	0.5	0.7	0.7	1.0	1.4	2.3	2.7
Current Input		A	1.4	1.7	3.2	3.5	3.5	5.0	7.0	9.0	12.0
Power Supply		V/Ph/Hz	220~240/1/50~60								

Note:

1) Nominal cooling capacity is based on the following condition:

a) Water temperature: 7.0°C (inlet) / 12.0°C (outlet)

b) Air entering condition: 27.0°C DB / 19.5°C WB

2) All the specifications are subjected to change by manufacturer without prior notice.

GENERAL DATA (3 SPEEDS COOLING COIL - 6 ROWS) RETURN AIR

Model		MDF	600C	800C	1000C	1300C	1500C	2000C	2500C	3000C	3500C
Air Flow	High	CFM	620	790	1050	1310	1580	2100	2630	3150	3710
	Medium	CFM	430	550	740	920	1100	1470	1840	2210	2590
	Low	CFM	310	390	530	660	790	1050	1310	1580	1850
Total Cooling Capacity	High	kW	7.2	8.9	12.5	15.0	17.8	25.2	30.0	36.4	41.2
	Medium	kW	5.6	7.0	9.7	11.7	13.9	19.4	23.7	28.4	32.3
	Low	kW	4.3	5.4	7.5	9.1	10.8	15.1	18.4	22.0	25.5
Water Flow Rate	High	l/s	0.34	0.42	0.60	0.72	0.85	1.20	1.43	1.74	1.96
	Medium	l/s	0.27	0.33	0.46	0.56	0.66	0.92	1.13	1.35	1.54
	Low	l/s	0.20	0.26	0.36	0.44	0.52	0.72	0.88	1.05	1.22
Water Pressure Drop	High	kPa	10.6	16.4	35.1	40.6	21.0	47.5	38.6	39.5	43.2
	Medium	kPa	6.7	10.5	22.0	25.8	13.3	29.3	24.9	25.0	27.5
	Low	kPa	4.1	6.6	13.8	16.4	8.4	18.5	15.5	15.7	17.8
External Static Pressure	High	Pa	80	80	80	130	130	100	100	160	200
	Medium	Pa	65	65	65	105	105	80	80	130	160
	Low	Pa	50	50	50	85	85	65	65	105	130
Dimension	Length	mm	900	900	900	900	900	950	950	950	950
	Width	mm	717	757	877	907	997	1217	1437	1497	1687
	Height	mm	545	545	545	620	620	620	620	620	680
Chilled Water Pipe Diameter		mm(in)	DN32 (1 1/4")					DN40 (1 1/2")			DN50 (2")
Condensate Drain Size		mm(in)	DN25 (1")								
Net Weight		kg	50	55	77	79	90	98	128	143	151
Sound Pressure Level		dB (A)	52	52	54	55	57	58	60	62	62
Power Input		kW	0.35	0.45	0.5	0.7	0.7	1.0	1.4	2.3	2.7
Current Input		A	1.4	1.7	3.2	3.5	3.5	5.0	7.0	9.0	12.0
Power Supply		V/Ph/Hz	220~240/1/50~60								

Note:

1) Nominal cooling capacity is based on the following condition:

a) Water temperature: 7.0°C (inlet) / 12.0°C (outlet)

b) Air entering condition: 27.0°C DB / 19.5°C WB

2) All the specifications are subjected to change by manufacturer without prior notice.

GENERAL DATA (3 SPEEDS COOLING COIL - 4 ROWS) FRESH AIR

Model		MDF	600C	800C	1000C	1300C	1500C	2000C	2500C	3000C	3500C
Air Flow	High	CFM	620	790	1050	1310	1580	2100	2630	3150	3710
	Medium	CFM	430	550	740	920	1100	1470	1840	2210	2590
	Low	CFM	310	390	530	660	790	1050	1310	1580	1850
Total Cooling Capacity	High	kW	12.9	15.3	22.2	25.5	32.4	40.7	52.5	60.1	70.7
	Medium	kW	10.4	12.4	17.8	20.6	26.0	34.5	42.8	49.4	58.0
	Low	kW	8.11	9.9	14.1	16.4	20.8	27.9	34.3	39.5	47.0
Water Flow Rate	High	l/s	0.62	0.73	1.06	1.21	1.51	1.51	2.42	2.72	3.02
	Medium	l/s	0.49	0.59	0.85	0.98	1.24	1.51	2.04	2.35	2.76
	Low	l/s	0.39	0.47	0.67	0.78	0.99	1.33	1.63	1.88	2.24
Water Pressure Drop	High	kPa	22.0	31.5	71.5	76.0	64.7	76.1	78.1	64.5	68.7
	Medium	kPa	14.6	21.3	47.5	51.5	44.7	76.3	56.5	49.2	58.2
	Low	kPa	9.3	14.0	30.9	34.1	29.5	60.2	37.2	32.5	39.3
External Static Pressure	High	Pa	140	140	140	190	190	160	160	220	260
	Medium	Pa	110	110	110	150	150	130	130	175	210
	Low	Pa	90	90	90	120	120	100	100	140	165
Dimension	Length	mm	900	900	900	900	900	950	950	950	950
	Width	mm	717	757	877	907	997	1217	1437	1497	1687
	Height	mm	545	545	545	620	620	620	620	620	680
Chilled Water Pipe Diameter		mm(in)	DN32 (1 1/4")				DN40 (1 1/2")		DN50 (2")		
Condensate Drain Size		mm(in)	DN25 (1")								
Net Weight		kg	48	52	72	74	85	95	124	140	146
Sound Pressure Level		dB (A)	52	52	54	55	57	58	60	62	62
Power Input		kW	0.35	0.45	0.5	0.7	0.7	1.0	1.4	2.3	2.7
Current Input		A	1.4	1.7	3.2	3.5	3.5	5.0	7.0	9.0	12.0
Power Supply		V/Ph/Hz	220~240/1/50~60								

Note:

1) Nominal cooling capacity is based on the following condition:

a) Water temperature: 7.0°C (inlet) / 12.0°C (outlet)

b) Air entering condition: 35.0°C DB / 28.0°C WB

2) All the specifications are subjected to change by manufacturer without prior notice.

GENERAL DATA (3 SPEEDS COOLING COIL – 6 ROWS) FRESH AIR

Model		MDF	600C	800C	1000C	1300C	1500C	2000C	2500C	3000C	3500C
Air Flow	High	CFM	620	790	1050	1310	1580	2100	2630	3150	3710
	Medium	CFM	430	550	740	920	1100	1470	1840	2210	2590
	Low	CFM	310	390	530	660	790	1050	1310	1580	1850
Total Cooling Capacity	High	kW	15.3	20.0	27.6	33.3	36.2	53.5	61.8	77.0	88.4
	Medium	kW	12.0	15.5	21.5	25.8	28.6	42.1	49.3	60.5	69.6
	Low	kW	9.3	12.0	16.5	20.2	22.6	32.6	38.4	47.4	54.1
Water Flow Rate	High	l/s	0.66	0.42	0.60	0.72	0.85	1.20	1.43	1.72	1.95
	Medium	l/s	0.57	0.74	1.03	1.23	1.36	2.01	2.35	2.88	3.32
	Low	l/s	0.44	0.57	0.79	0.96	1.07	1.55	1.83	2.26	2.58
Water Pressure Drop	High	kPa	35.0	16.5	35.4	40.8	21.0	47.7	38.8	38.8	42.7
	Medium	kPa	27.3	17.1	35.7	38.5	27.0	64.3	31.0	39.5	36.5
	Low	kPa	17.0	10.6	21.9	24.4	17.3	39.7	19.4	25.0	23.0
External Static Pressure	High	Pa	80	80	80	130	130	100	100	160	200
	Medium	Pa	65	65	65	105	105	80	80	130	160
	Low	Pa	50	50	50	85	85	65	65	105	130
Dimension	Length	mm	900	900	900	900	900	950	950	950	950
	Width	mm	717	757	877	907	997	1217	1437	1497	1687
	Height	mm	545	545	545	620	620	620	620	620	680
Chilled Water Pipe Diameter		mm(in)	DN32 (1 1/4")		DN40 (1 1/2")			DN50 (2")			DN65 (2 1/2")
Condensate Drain Size		mm(in)	DN25 (1")								
Net Weight		kg	50	55	77	79	90	98	128	143	151
Sound Pressure Level		dB (A)	52	52	54	55	57	58	60	62	62
Power Input		kW	0.35	0.45	0.5	0.7	0.7	1.0	1.4	2.3	2.7
Current Input		A	1.4	1.7	3.2	3.5	3.5	5.0	7.0	9.0	12.0
Power Supply		V/Ph/Hz	220~240/1/50~60								

Note:

1) Nominal cooling capacity is based on the following condition:

a) Water temperature: 7.0°C (inlet) / 12.0°C (outlet)

b) Air entering condition: 35.0°C DB / 28.0°C WB

2) All the specifications are subjected to change by manufacturer without prior notice.

GENERAL DATA (BELT DRIVEN - 4 ROWS) RETURN AIR

Model		MDF	2000B	2500B	3000B	3500B	4000B
Air Flow		CFM	2100	2630	3150	3710	4320
Total Cooling Capacity		kW	19.8	23.1	28.6	32.6	40.2
Water Flow Rate		l/s	0.95	1.10	1.36	1.55	1.92
Water Pressure Drop		kPa	47.7	38.8	38.8	42.7	105.6
External Static Pressure		Pa	200	200	200	240	240
Motor Power	50Hz	kW	0.75	1.1	1.5	1.5	1.5
Dimension	Length	mm	950	950	950	950	950
	Width	mm	1217	1437	1497	1687	1817
	Height	mm	620	620	620	680	680
Net Weight		kg	99	128	139	192	231
Sound Pressure Level		dB (A)	60	62	63	64	64
Chilled Water Pipe Diameter		mm(in)	DN40 (1 1/2")				
Condensate Drain Size		mm(in)	DN25 (1")				
Power Supply		V/Ph/Hz	380~415/3/50~60				
Model		MDF	5000B	5500B	6500B	7500B	8000B
Air Flow		CFM	4940	5560	6490	7410	8340
Total Cooling Capacity		kW	43.1	49.3	58.9	65.1	75.7
Water Flow Rate		l/s	2.05	2.35	2.81	3.10	3.61
Water Pressure Drop		kPa	27.1	37.4	57.4	63.7	56.6
External Static Pressure		Pa	280	280	280	320	320
Motor Power	50Hz	kW	2.2	3.0	3.0	4.0	4.0
Dimension	Length	mm	950	950	1050	1050	1150
	Width	mm	1817	1857	2097	2197	2157
	Height	mm	770	770	770	830	930
Net Weight		kg	270	279	287	368	372
Sound Pressure Level		dB (A)	66	67	68	68.5	69
Chilled Water Pipe Diameter		mm(in)	DN40 (1 1/2")	DN50 (2")			
Condensate Drain Size		mm(in)	DN25 (1")			DN32 (1 1/4")	
Power Supply		V/Ph/Hz	380~415/3/50~60				

Note:

1) Nominal cooling capacity is based on the following condition:

a) Water temperature: 7.0°C (inlet) / 12.0°C (outlet)

b) Air entering condition: 27.0°C DB / 19.5°C WB

2) All the specifications are subjected to change by manufacturer without prior notice.

GENERAL DATA (BELT DRIVEN – 6 ROWS) RETURN AIR

Model		MDF	2000B	2500B	3000B	3500B	4000B
Air Flow		CFM	2100	2630	3150	3710	4320
Total Cooling Capacity		kW	25.2	30.0	36.4	41.2	49.07
Water Flow Rate		l/s	1.20	1.43	1.74	1.96	2.34
Water Pressure Drop		kPa	47.5	38.6	39.5	43.2	65.9
External Static Pressure		Pa	200	200	200	240	240
Motor Power	50Hz	kW	1.1	1.1	1.5	2.2	2.2
Dimension	Length	mm	950	950	950	950	950
	Width	mm	1217	1437	1497	1687	1817
	Height	mm	620	620	620	680	680
Net Weight		kg	129	158	180	222	271
Sound Pressure Level		dB (A)	60	62	63	64	64
Chilled Water Pipe Diameter		mm(in)	DN40 (1 1/2")			DN50 (2")	
Condensate Drain Size		mm(in)	DN25 (1")				
Power Supply		V/Ph/Hz	380~415/3/50~60				
Model		MDF	5000B	5500B	6500B	7500B	8000B
Air Flow		CFM	4940	5560	6490	7410	8340
Total Cooling Capacity		kW	56.44	62.69	72.17	89.00	96.46
Water Flow Rate		l/s	2.69	2.99	3.44	4.24	4.59
Water Pressure Drop		kPa	20.7	27.0	37.4	53.2	50.4
External Static Pressure		Pa	280	280	280	320	320
Motor Power	50Hz	kW	3.0	3.0	3.0	4.0	4.0
Dimension	Length	mm	950	950	1050	1050	1150
	Width	mm	1817	1857	2097	2197	2157
	Height	mm	770	770	770	830	930
Net Weight		kg	305	309	311	398	414
Sound Pressure Level		dB (A)	66.0	67.0	68.0	68.5	69.0
Chilled Water Pipe Diameter		mm(in)	DN50 (2")			DN65 (2 1/2")	
Condensate Drain Size		mm(in)	DN25 (1")			DN32 (1 1/4")	
Power Supply		V/Ph/Hz	380~415/3/50~60				

Note:

1) Nominal cooling capacity is based on the following condition:

a) Water temperature: 7.0°C (inlet) / 12.0°C (outlet)

b) Air entering condition: 27.0°C DB / 19.5°C WB

2) All the specifications are subjected to change by manufacturer without prior notice.

GENERAL DATA (BELT DRIVEN – 4 ROWS) FRESH AIR

Model		MDF	2000B	2500B	3000B	3500B	4000B
Air Flow		CFM	2100	2630	3150	3710	4320
Total Cooling Capacity		kW	40.7	52.5	60.1	70.7	83.8
Water Flow Rate		l/s	1.51	2.42	2.72	3.02	3.02
Water Pressure Drop		kPa	76.1	78.1	64.5	68.7	75.2
External Static Pressure		Pa	200	200	200	240	240
Motor Power	50Hz	kW	0.75	1.1	1.5	1.5	1.5
Dimension	Length	mm	950	950	950	950	950
	Width	mm	1217	1437	1497	1687	1817
	Height	mm	620	620	620	680	680
Net Weight		kg	99	128	139	192	231
Sound Pressure Level		dB (A)	60	62	63	64	64
Chilled Water Pipe Diameter		mm(in)	DN40 (1 1/2")	DN50 (2")			
Condensate Drain Size		mm(in)	DN25 (1")				
Power Supply		V/Ph/Hz	380~415/3/50~60				
Model		MDF	5000B	5500B	6500B	7500B	8000B
Air Flow		CFM	4940	5560	6490	7410	8340
Total Cooling Capacity		kW	95.8	106.1	119.9	139.2	156.7
Water Flow Rate		l/s	3.63	5.05	5.71	6.63	7.46
Water Pressure Drop		kPa	78.0	22.2	30.6	37.1	36.8
External Static Pressure		Pa	280	280	280	320	320
Motor Power	50Hz	kW	2.2	3.0	3.0	4.0	4.0
Dimension	Length	mm	950	950	1050	1050	1150
	Width	mm	1817	1857	2097	2197	2157
	Height	mm	770	770	770	830	930
Net Weight		kg	270	279	287	368	372
Sound Pressure Level		dB (A)	66	67	68	68.5	69
Chilled Water Pipe Diameter		mm(in)	DN65 (2 1/2")				
Condensate Drain Size		mm(in)	DN25 (1")			DN32 (1 1/4")	
Power Supply		V/Ph/Hz	380~415/3/50~60				

Note:

1) Nominal cooling capacity is based on the following condition:

a) Water temperature: 7.0°C (inlet) / 12.0°C (outlet)

b) Air entering condition: 35.0°C DB / 28.0°C WB

2) All the specifications are subjected to change by manufacturer without prior notice.

GENERAL DATA (BELT DRIVEN – 6 ROWS) FRESH AIR

Model		MDF	2000B	2500B	3000B	3500B	4000B
Air Flow		CFM	2100	2630	3150	3710	4320
Total Cooling Capacity		kW	53.5	61.8	77.0	88.4	102.49
Water Flow Rate		l/s	1.20	1.43	1.72	1.95	2.29
Water Pressure Drop		kPa	47.7	38.8	38.8	42.7	63.5
External Static Pressure		Pa	200	200	200	240	240
Motor Power	50Hz	kW	1.1	1.1	1.5	2.2	2.2
Dimension	Length	mm	950	950	950	950	950
	Width	mm	1217	1437	1497	1687	1817
	Height	mm	620	620	620	680	680
Net Weight		kg	129	158	180	222	271
Sound Pressure Level		dB (A)	60	62	63	64	64
Chilled Water Pipe Diameter		mm(in)	DN50 (2")			DN65 (2 1/2")	
Condensate Drain Size		mm(in)	DN25 (1")				
Power Supply		V/Ph/Hz	380~415/3/50~60				
Model		MDF	5000B	5500B	6500B	7500B	8000B
Air Flow		CFM	4940	5560	6490	7410	8340
Total Cooling Capacity		kW	117.86	132.6	162.43	194.48	216.3
Water Flow Rate		l/s	2.63	2.97	3.37	4.11	4.41
Water Pressure Drop		kPa	19.0	25.7	36.1	47.7	42.6
External Static Pressure		Pa	280	280	280	320	320
Motor Power	50Hz	kW	3.0	3.0	3.0	4.0	4.0
Dimension	Length	mm	950	950	1050	1050	1150
	Width	mm	1817	1857	2097	2197	2157
	Height	mm	770	770	770	830	930
Net Weight		kg	305	309	311	398	414
Sound Pressure Level		dB (A)	66	67	68	68.5	69
Chilled Water Pipe Diameter		mm(in)	DN65 (2 1/2")			DN80 (3")	
Condensate Drain Size		mm(in)	DN25 (1")			DN32 (1 1/4")	
Power Supply		V/Ph/Hz	380~415/3/50~60				

Note:

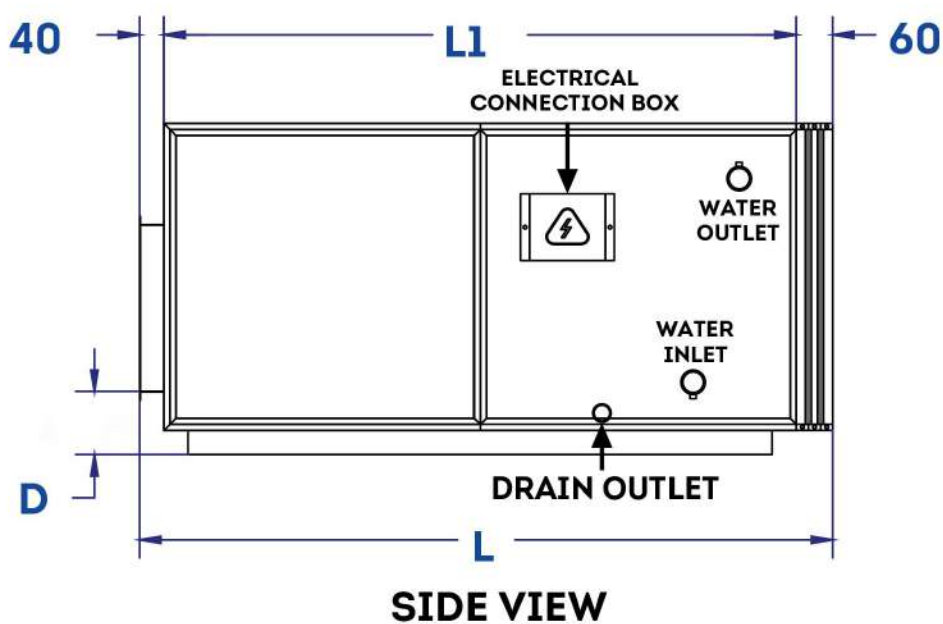
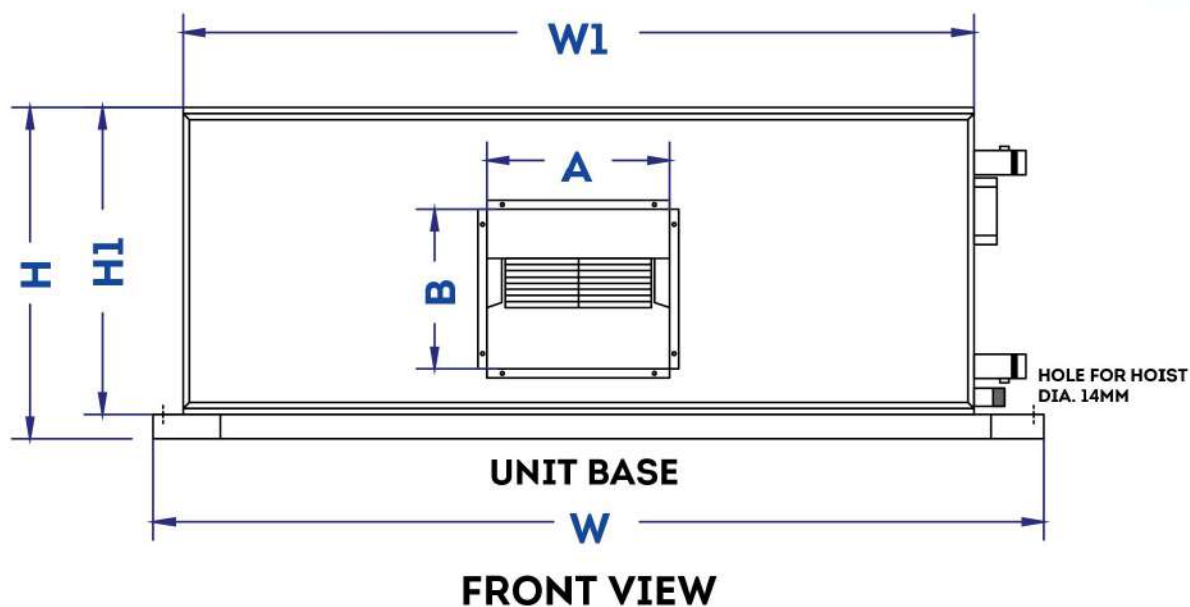
1) Nominal cooling capacity is based on the following condition:

a) Water temperature: 7.0°C (inlet) / 12.0°C (outlet)

b) Air entering condition: 35.0°C DB / 28.0°C WB

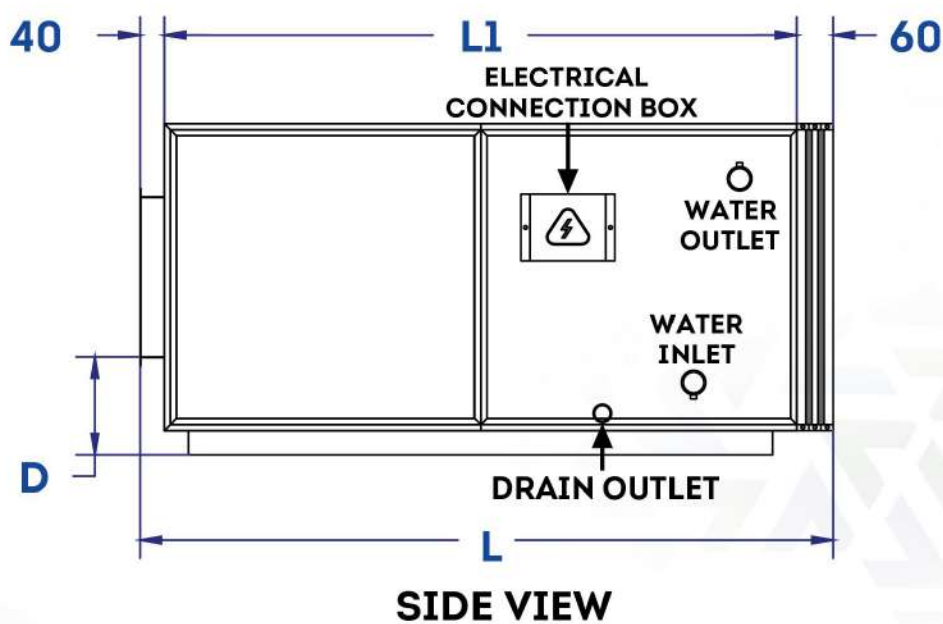
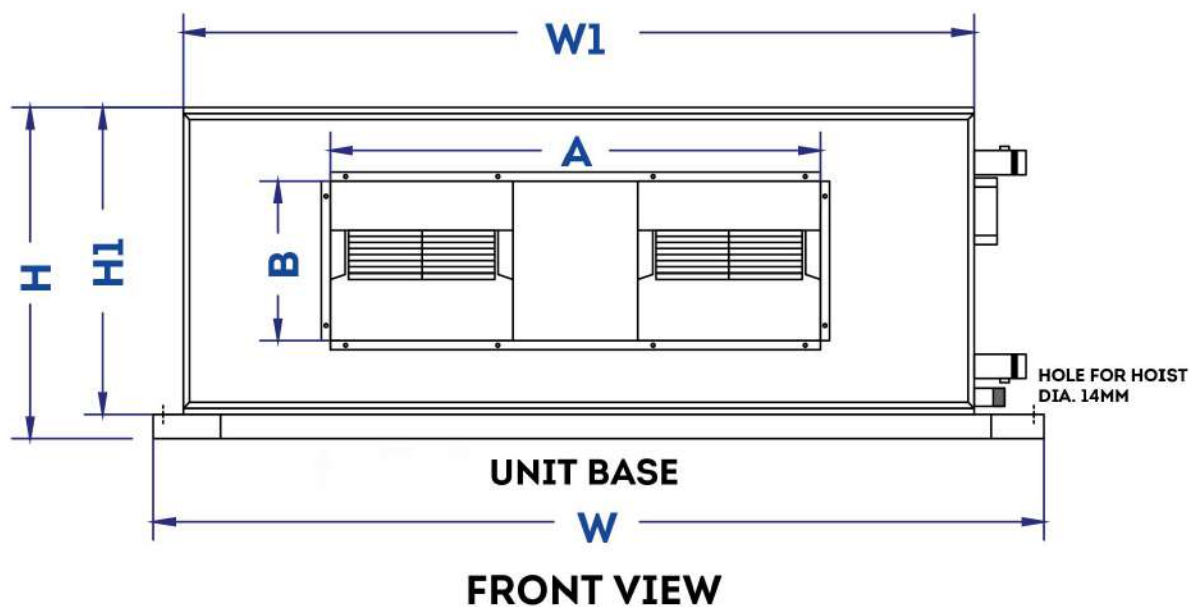
2) All the specifications are subjected to change by manufacturer without prior notice.

MODEL: MDF 600C - 1500C (3 SPEEDS)



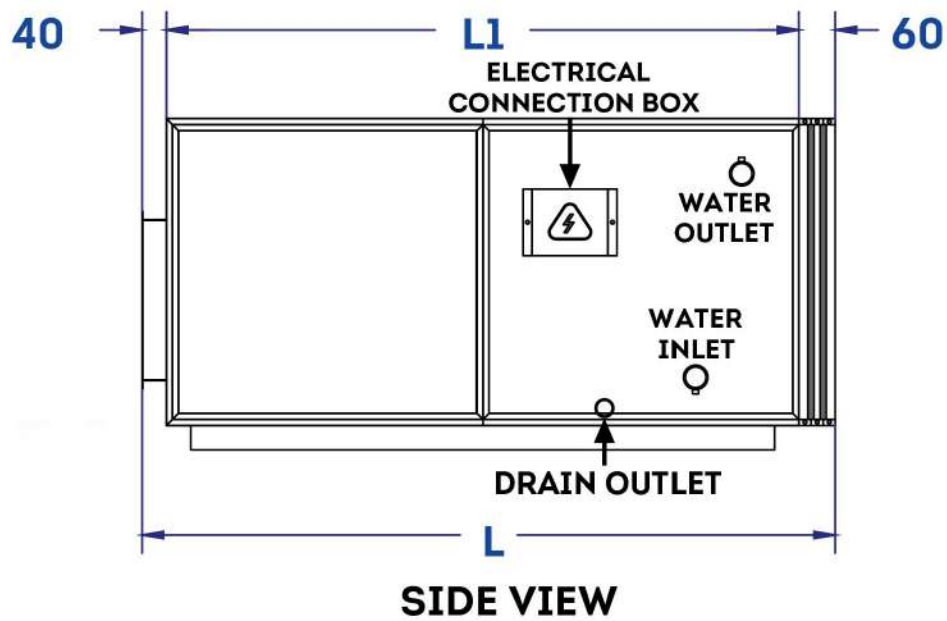
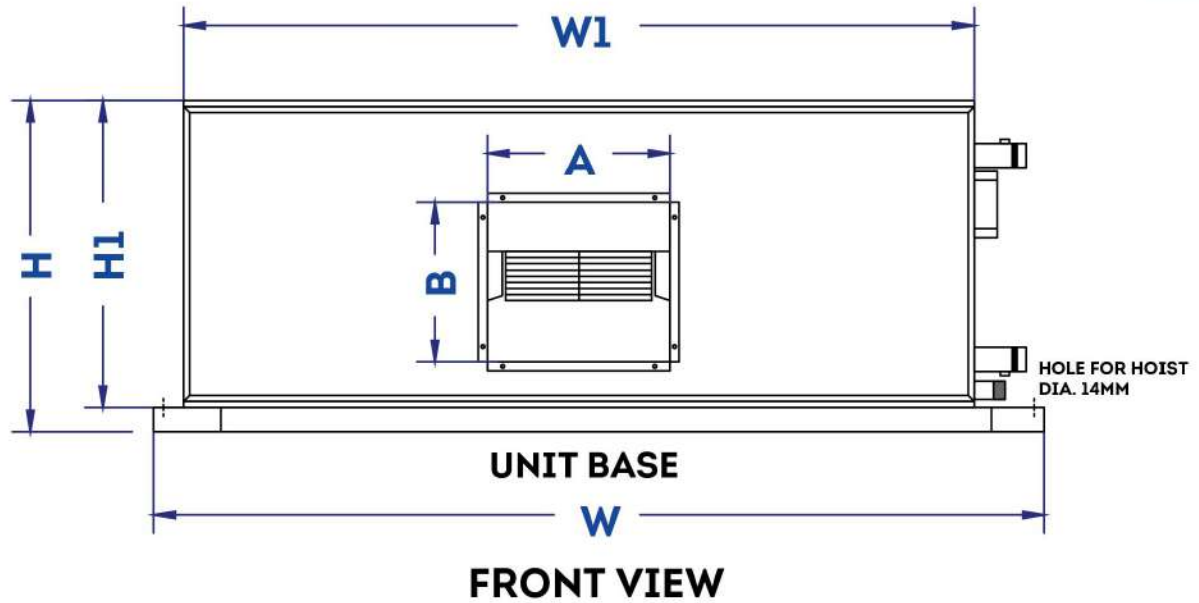
MDF	W	H	L	W1	H1	L1	A	B	D	RETURN AIR FLANGE (LENGTH X WIDTH)	FRESH AIR FLANGE (LENGTH X WIDTH)
600C	717	545	900	553	505	800	300	262	88	493 X 445	300 X 262
800C	757	545	900	553	505	800	300	262	88	533 X 445	300 X 262
1000C	877	545	900	713	505	800	300	262	88	653 X 445	300 X 262
1300C	907	620	900	743	580	800	300	262	88	683 X 520	300 X 262
1500C	997	620	900	833	580	800	300	262	88	773 X 520	300 X 262

MODEL: MDF 2000C - 3500C (3 SPEEDS)



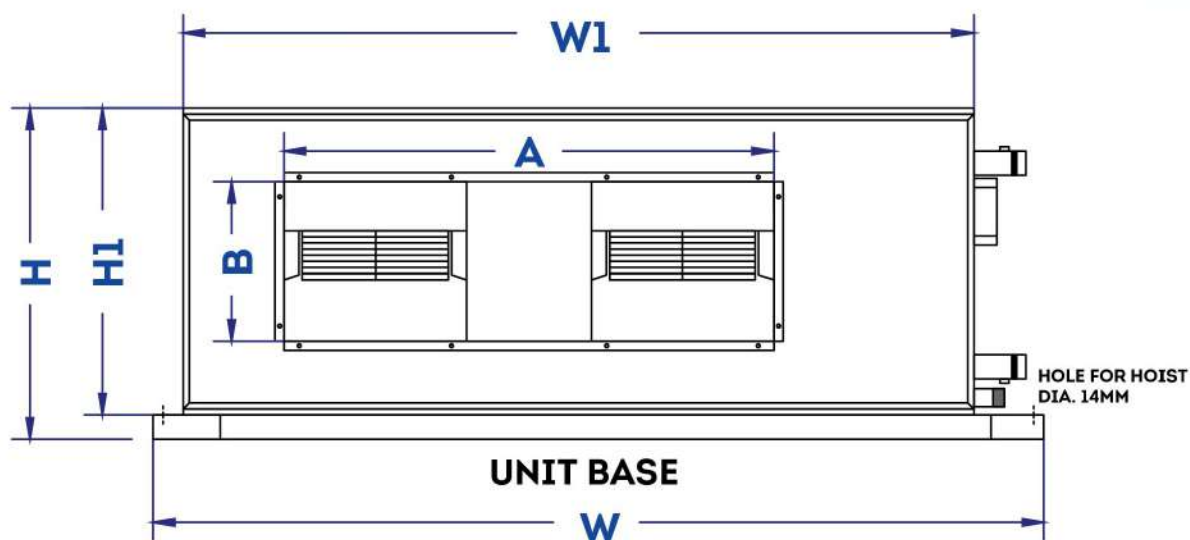
MDF	W	H	L	W1	H1	L1	A	B	D	RETURN AIR FLANGE (LENGTH X WIDTH)	FRESH AIR FLANGE (LENGTH X WIDTH)
2000C	1217	620	950	1053	580	850	805	262	88	993 X 520	805 X 262
2500C	1437	620	950	1273	580	850	930	262	89	1213 X 520	930 X 262
3000C	1497	620	950	1333	580	850	970	289	234	1273 X 520	970 X 289
3500C	1687	680	950	1523	640	850	970	289	234	1463 X 580	970 X 289

MODEL: MDF 2000B - 2500B (BELT DRIVEN)

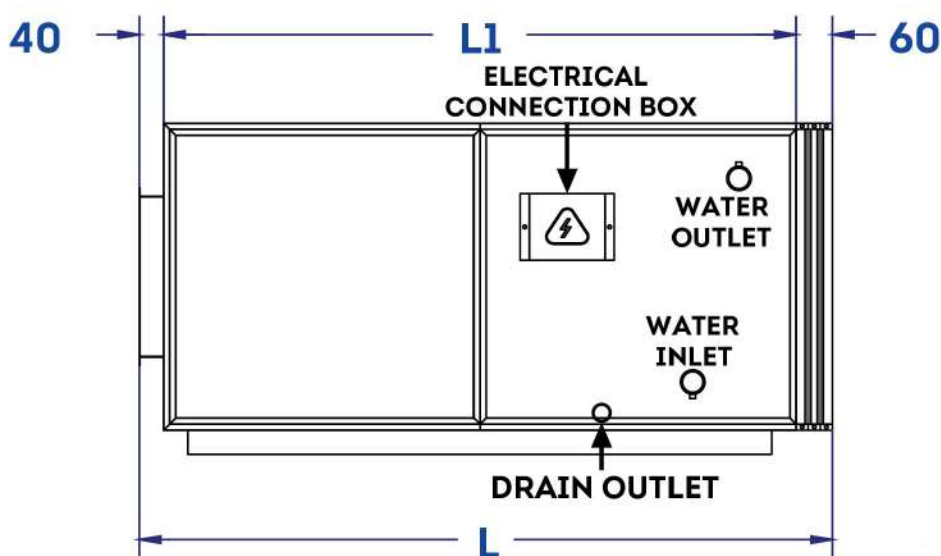


MDF	W	H	L	W1	H1	L1	A	B	RETURN AIR FLANGE (LENGTH X WIDTH)	FRESH AIR FLANGE (LENGTH X WIDTH)
2000B	1217	620	950	1053	580	850	302	264	993 X 520	302 X 264
2500B	1437	620	950	1273	580	850	330	290	1213 X 520	330 X 290

MODEL: MDF 3000B - 8000B (BELT DRIVEN)

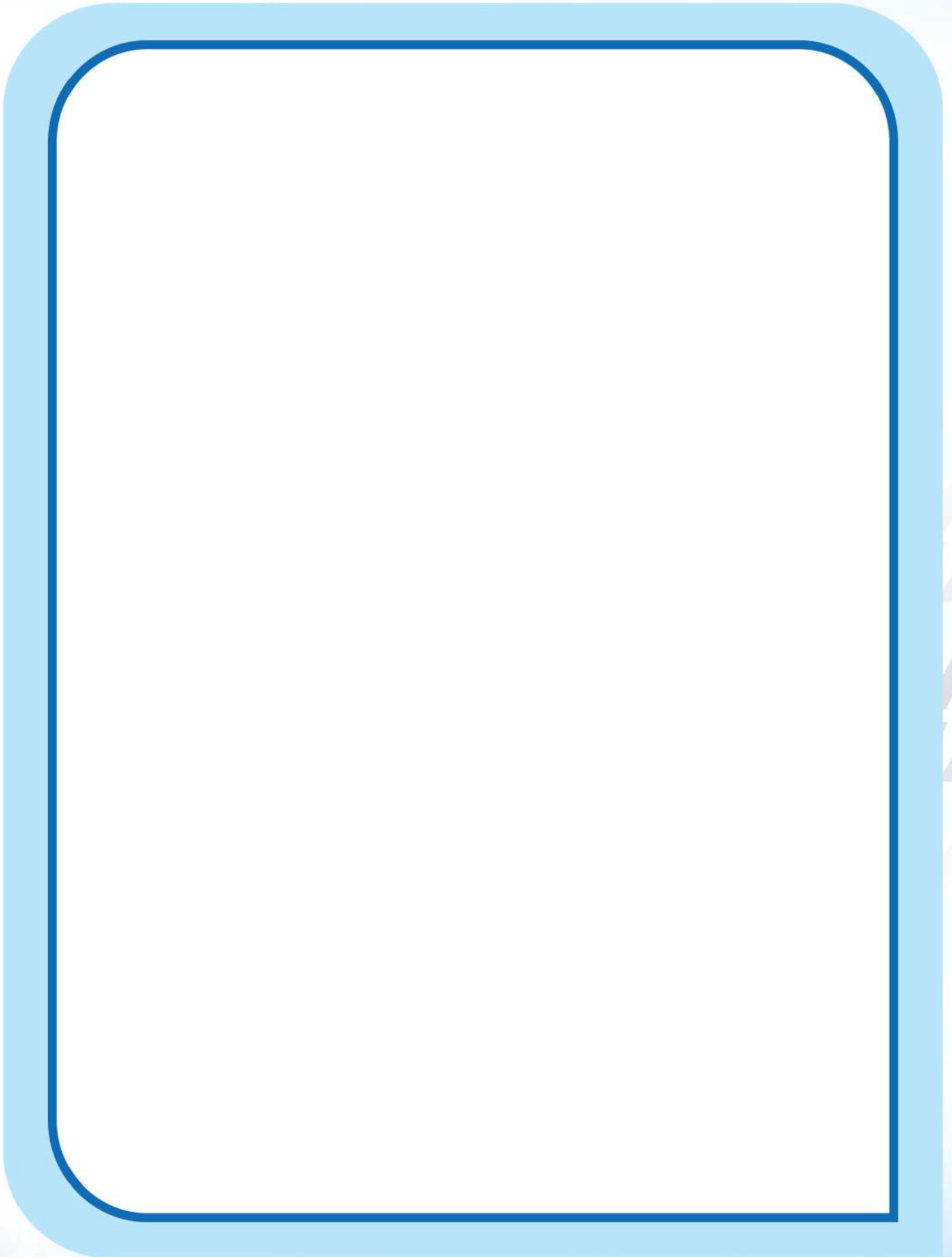


FRONT VIEW



SIDE VIEW

MDF	W	H	L	W1	H1	L1	A	B	RETURN AIR FLANGE (LENGTH X WIDTH)	FRESH AIR FLANGE (LENGTH X WIDTH)
3000B	1497	620	950	1333	580	850	652	264	1273 X 520	652 X 264
3500B	1687	680	950	1523	640	850	840	264	1463 X 580	840 X 264
4000B	1817	680	950	1653	640	850	930	291	1593 X 670	930 X 291
5000B	1817	770	950	1653	730	850	930	291	1593 X 670	930 X 291
5500B	1857	770	950	1693	730	850	930	291	1633 X 670	930 X 291
6500B	2097	770	1050	1933	730	950	864	343	1873 X 670	864 X 343
7500B	2197	830	1050	2033	790	950	1114	343	1973 X 730	1114 X 343
8000B	2157	930	1150	1993	890	1050	1044	404	1593 X 830	1044 X 404



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