No.	Parameter	VSD 100 50Hz	VSD 100 60Hz	VSD 100 60Hz	VSD 140 50Hz	VSD 140 60Hz	VSD 140 60Hz	VSD 180 50Hz	VSD 180 60Hz	VSD 180 60Hz
	Name	VSD 100 50Hz	VSD 100 60Hz	VSD 100 60Hz	VSD 140 50Hz	VSD 140 60Hz	VSD 140 60Hz	VSD 180 50Hz	VSD 180 60Hz	VSD 180 60Hz
	Document Number	9828084081	9828084081	9828084081	9828084081	9828084081	9828084081	9828084081	9828084081	9828084081
	Document Revision	0	0	0	0	0	0	0	0	0
	Company	MB	MB	MB	MB	MB	MB	MB	MB	MB
	Status	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved
	Created on	10-03-20	10-03-20	10-03-20	10-03-20	10-03-20	10-03-20	10-03-20	10-03-20	10-03-20
	Product Definition									
	Model	VSD 100	VSD 100	VSD 100	VSD 140	VSD 140	VSD 140	VSD 180	VSD 180	VSD 180
	Cooling (COOL)	Air cooled (AIR)	Air cooled (AIR)	Air cooled (AIR)	Air cooled (AIR)	Air cooled (AIR)	Air cooled (AIR)	Air cooled (AIR)	Air cooled (AIR)	Air cooled (AIR)
	frequency (FREQ)	50 Hz (50HZ)	60 Hz (60HZ)	60 Hz (60HZ)	50 Hz (50HZ)	60 Hz (60HZ)	60 Hz (60HZ)	50 Hz (50HZ)	60 Hz (60HZ)	60 Hz (60HZ)
	Voltage (MOVOL)	400 V (400V)	460 V (460V)	380 V (380V)	400 V (400V)	460 V (460V)	380 V (380V)	400 V (400V)	460 V (460V)	380 V (380V)
A	**REFERENCE CONDITIONS**									
4	Cooling medium Inlet (water or air) temperature (°F)	77	77	77	77	77	77	77	77	77
8	Compressed air effective inlet pressure (psi(g))	102	102	102	102	102	102	102	102	102
9	Ambient air temperature (°F)	77	77	77	77	77	77	77	77	77
10	Compressed air inlet temperature (°F)	95	95	95	95	95	95	95	95	95
19	Cooling water inlet temperature (°F)									
20	Inlet relative humidity of compressed air (%)	100	100	100	100	100	100	100	100	100
30	Control mode	Lowest dewpoint	Lowest dewpoint	Lowest dewpoint	Lowest dewpoint	Lowest dewpoint	Lowest dewpoint	Lowest dewpoint	Lowest dewpoint	Lowest dewpoint
37	Volume flow (cfm)	212	212	212	297	297	297	381	381	381
137	Cooling water inlet pressure (psi(g))									
B	**LIMITATIONS**									
1	Minimum ambient temperature (°F)	41	41	41	41	41	41	41	41	41
2	Maximum air inlet temperature (°F)	140	140	140	140	140	140	140	140	140
23	Maximum compressed air inlet pressure (psi(g))	210	210	210	210	210	210	210	210	210
26	Maximum ambient temperature (°F)	115	115	115	115	115	115	115	115	115
C	**PERFORMANCE DATA**									
5	Total electrical power input (HP)									
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 0	0.35	0.35	0.35	0.36	0.36	0.36	0.51	0.51	0.51
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 50	0.55	0.58	0.58	0.70	0.71	0.71	1.03	1.05	1.05
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 100	0.89	0.96	0.96	1.39	1.43	1.43	2.07	2.11	2.11
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 100; 10 Compressed air inlet temperature (°F) 100; 125 At % FAD (%) 100	1.34	1.70	1.70	2.27	2.30	2.30	3.45	3.49	3.49
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 115; 10 Compressed air inlet temperature (°F) 140; 125 At % FAD (%) 100	3.19	3.23	3.23	2.68	2.72	2.72	4.02	4.05	4.05
	30 Control mode Economy; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 50	0.35	0.35	0.35	0.42	0.43	0.43	0.62	0.63	0.63
	30 Control mode Economy; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 100	0.53	0.58	0.58	0.84	0.86	0.86	1.24	1.26	1.26
	30 Control mode Maximum saving; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 50	0.35	0.35	0.35	0.36	0.36	0.36	0.51	0.51	0.51
	30 Control mode Maximum saving; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 100	0.35	0.38	0.38	0.56	0.57	0.57	0.83	0.84	0.84
22	Cooling air flow (approx.) (cfm)	1000	1000	1000	1000	1000	1000	1000	1000	1000
14	Fan(s) electrical power input (HP)	0.20	0.23	0.23	0.20	0.23	0.23	0.20	0.23	0.23
17	Pressure dewpoint air outlet (°F)									
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 0	37	37	37	37	37	37	37	37	37
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 50	37	37	37	37	37	37	37	37	37
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 100	37	37	37	37	37	37	37	37	37
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 100; 10 Compressed air inlet temperature (°F) 100; 125 At % FAD (%) 100	39	39	39	39	39	39	39	39	39
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 115; 10 Compressed air inlet temperature (°F) 140; 125 At % FAD (%) 100	68	68	68	68	68	68	68	68	68
	30 Control mode Economy; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 50	41	41	41	41	41	41	41	41	41
	30 Control mode Economy; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 100	46	46	46	46	46	46	46	46	46
	30 Control mode Maximum saving; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 50	50	50	50	50	50	50	50	50	50
	30 Control mode Maximum saving; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 100	59	59	59	59	59	59	59	59	59
23	Heat dissipated by cooling medium flow (approx.) (HP)									
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 115; 10 Compressed air inlet temperature (°F) 140; 125 At % FAD (%) 100	9.90	9.93	9.93	12.34	12.37	12.37	16.49	16.52	16.52
D	**DESIGN DATA**									
29	Refrigerant type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
30	Refrigerant amount (lbs)	2.43	2.43	2.43	2.47	2.47	2.47	2.20	2.20	2.20
478	GWP refrigerant	2088	2088	2088	2088	2088	2088	2088	2088	2088
479	Tonnes of CO2 equivalent	2.30	2.30	2.30	2.34	2.34	2.34	2.09	2.09	2.09
32	Dimensions of inlet and outlet connections	G 1 1/2 F (NPT for UL version)	G 1 1/2 F (NPT for UL version)	G 1 1/2 F (NPT for UL version)	G 2 F (NPT for UL version)	G 2 F (NPT for UL version)	G 2 F (NPT for UL version)	G 2 F (NPT for UL version)	G 2 F (NPT for UL version)	G 2 F (NPT for UL version)
33	Net weight (lbs)	287	287	287	295	295	295	295	295	295
104	Width (in)	32	32	32	32	32	32	32	32	32
105	Height (in)	38	38	38	38	38	38	38	38	38
108	Length (in)	41	41	41	41	41	41	41	41	41
424	Pressure drop over dryer (psi)	2	2.32	2.32	1.60	1.60	1.60	2.61	2.61	2.61
425	Mean sound pressure level (dB(A))	67	67	67	67	67	67	67	67	67
O	**REMARKS**									
T	**DATA ON DATAPLATE**									
U	**ADDITIONAL DATA**									
V	**TECHNICAL PERFORMANCE DATA**									

Name		VSD 220 50Hz	VSD 220 60Hz	VSD 220 60Hz	VSD 260 50Hz	VSD 260 60Hz	VSD 260 60Hz	VSD 300 50Hz	VSD 300 60Hz	VSD 300 60Hz
Document Number		9828084081	9828084081	9828084081	9828084081	9828084081	9828084081	9828084081	9828084081	9828084081
Document Revision		0	0	0	0	0	0	0	0	0
Company		MB	MB	MB	MB	MB	MB	MB	MB	MB
Status		Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved
Created on		10-03-20	10-03-20	10-03-20	10-03-20	10-03-20	10-03-20	10-03-20	10-03-20	10-03-20
Product Definition	Model	VSD 220	VSD 220	VSD 220	VSD 260	VSD 260	VSD 260	VSD 300	VSD 300	VSD 300
	Cooling (COOL)	Air cooled (AIR)	Air cooled (AIR)	Air cooled (AIR)	Air cooled (AIR)	Air cooled (AIR)	Air cooled (AIR)	Air cooled (AIR)	Air cooled (AIR)	Air cooled (AIR)
	frequency (FREQ)	50 Hz (50HZ)	60 Hz (60HZ)	60 Hz (60HZ)	50 Hz (50HZ)	60 Hz (60HZ)	60 Hz (60HZ)	50 Hz (50HZ)	60 Hz (60HZ)	60 Hz (60HZ)
	Voltage (MOVOL)	400 V (400V)	460 V (460V)	380 V (380V)	400 V (400V)	460 V (460V)	380 V (380V)	400 V (400V)	460 V (460V)	380 V (380V)

A	REFERENCE CONDITIONS									
4	Cooling medium Inlet (water or air) temperature (°F)	77	77	77	77	77	77	77	77	77
8	Compressed air effective inlet pressure (psi(g))	102	102	102	102	102	102	102	102	102
9	Ambient air temperature (°F)	77	77	77	77	77	77	77	77	77
10	Compressed air inlet temperature (°F)	95	95	95	95	95	95	95	95	95
19	Cooling water inlet temperature (°F)									
20	Inlet relative humidity of compressed air (%)	100	100	100	100	100	100	100	100	100
30	Control mode	Lowest dewpoint	Lowest dewpoint	Lowest dewpoint	Lowest dewpoint	Lowest dewpoint	Lowest dewpoint	Lowest dewpoint	Lowest dewpoint	Lowest dewpoint
37	Volume flow (cfm)	466	466	466	551	551	551	636	636	636
137	Cooling water inlet pressure (psi(g))									
B	LIMITATIONS									
1	Minimum ambient temperature (°F)	41	41	41	41	41	41	41	41	41
2	Maximum air inlet temperature (°F)	140	140	140	140	140	140	140	140	140
23	Maximum compressed air inlet pressure (psi(g))	210	210	210	210	210	210	210	210	210
26	Maximum ambient temperature (°F)	115	115	115	115	115	115	115	115	115
C	PERFORMANCE DATA									
5	Total electrical power input (HP)									
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 0	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 50	1.19	1.39	1.39	1.27	1.48	1.48	1.77	1.90	1.90
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 100	2.37	2.79	2.79	2.55	2.96	2.96	3.54	3.81	3.81
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 100; 10 Compressed air inlet temperature (°F) 100; 125 At % FAD (%) 100	3.94	4.29	4.39	4.65	5.07	5.19	5.82	6.09	6.09
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 115; 10 Compressed air inlet temperature (°F) 140; 125 At % FAD (%) 100	4.08	4.44	4.44	4.83	5.24	5.24	7.64	7.91	7.91
	30 Control mode Economy; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 50	0.65	0.75	0.75	0.76	0.89	0.89	1.06	1.14	1.14
	30 Control mode Economy; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 100	1.29	1.50	1.50	1.53	1.78	1.78	2.12	2.29	2.29
	30 Control mode Maximum saving; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 50	0.65	0.86	0.86	0.65	0.86	0.86	0.89	1.02	1.02
	30 Control mode Maximum saving; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 100	1.30	1.72	1.72	1.30	1.72	1.72	1.77	2.04	2.04
22	Cooling air flow (approx.) (cfm)	3532	3532	3532	3532	3532	3532	4708	4708	4708
14	Fan(s) electrical power input (HP)	0.74	1.15	1.34	0.74	1.15	1.34	1.21	1.48	1.48
17	Pressure dewpoint air outlet (°F)									
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 0	37	37	37	37	37	37	37	37	37
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 50	37	37	37	37	37	37	37	37	37
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 100	37	37	37	37	37	37	37	37	37
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 100; 10 Compressed air inlet temperature (°F) 100; 125 At % FAD (%) 100	39	39	39	39	39	39	39	39	39
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 115; 10 Compressed air inlet temperature (°F) 140; 125 At % FAD (%) 100	68	68	68	68	68	68	68	68	68
	30 Control mode Economy; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 50	41	41	41	41	41	41	41	41	41
	30 Control mode Economy; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 100	46	46	46	46	46	46	46	46	46
	30 Control mode Maximum saving; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 50	50	50	50	50	50	50	50	50	50
	30 Control mode Maximum saving; 9 Ambient air temperature (°F) 77; 10 Compressed air inlet temperature (°F) 95; 125 At % FAD (%) 100	59	59	59	59	59	59	59	59	59
23	Heat dissipated by cooling medium flow (approx.) (HP)									
	30 Control mode Lowest dewpoint; 9 Ambient air temperature (°F) 115; 10 Compressed air inlet temperature (°F) 140; 125 At % FAD (%) 100	19.24	19.59	19.59	22.80	23.21	23.21	28.30	28.56	28.56
D	DESIGN DATA									
29	Refrigerant type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
30	Refrigerant amount (lbs)	2.98	2.98	2.98	2.98	2.98	2.98	5.29	5.29	5.29
478	GWP refrigerant	2088	2088	2088	2088	2088	2088	2088	2088	2088
479	Tonnes of CO2 equivalent	2.82	2.82	2.82	2.82	2.82	2.82	5.01	5.01	5.01
32	Dimensions of inlet and outlet connections	G 2 1/2 F (NPT for UL version)	G 2 1/2 F (NPT for UL version)	G 2 1/2 F (NPT for UL version)	G 2 1/2 F (NPT for UL version)	G 2 1/2 F (NPT for UL version)	G 2 1/2 F (NPT for UL version)	G 2 1/2 F (NPT for UL version)	G 2 1/2 F (NPT for UL version)	G 2 1/2 F (NPT for UL version)
33	Net weight (lbs)	315	315	315	331	331	331	364	364	364
104	Width (in)	32	32	32	32	32	32	32	32	32
105	Height (in)	38	38	38	38	38	38	38	38	38
108	Length (in)	41	41	41	41	41	41	41	41	41
424	Pressure drop over dryer (psi)	2.03	2.03	2.03	1.45	1.45	1.45	2.61	2.61	2.61
425	Mean sound pressure level (dB(A))	67	67	67	67	67	67	67	67	67
O	REMARKS									
T	DATA ON DATAPLATE									
U	ADDITIONAL DATA									
V	TECHNICAL PERFORMANCE DATA									

Correction Factor for different ambient Temperature									
Ambient Temperature °C (°F)	**25 (77)**	30 (86)	35 (95)	40 (104)	46 (114)				
Multiplication Factor	**1**	0,91	0,81	0,72	0,62				
Correction Factor for Different Inlet Temperature									
Inlet temperature °C (°F)	25 (77)	30 (86)	**35 (95)**	40 (104)	46 (114)	50 (122)	50 (122)	55 (131)	60 (140)
Multiplication Factor	1,1	1,05	**1**	0,82	0,69	0,58	0,58	0,49	0,42
Correction Factor for Different Inlet Pressure									
Pressure bar (psi)		6 (87)	**7 (100)**	8 (116)	10 (145)	13 (188)	13 (188)		
Multiplication Factor		0,97	**1**	1,03	1,07	1,12	1,12		