

Stream - The State Of The Art Semi-Hermetic Piston Technology

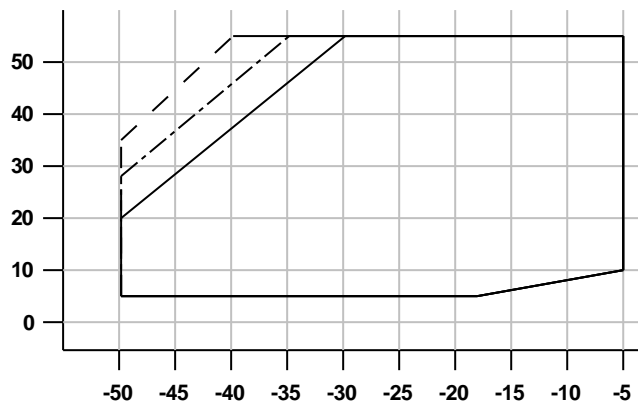
Low Temp
Series



50Hz

4MF-13X

R404A



Minimum evaporating temp. with:
 — 25°C Suction Gas Return
 - - - 20K Suction Superheat
 - . - . 0°C Suction Gas Return

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	8.09	11.00	14.65	19.10	24.50	30.90	38.40	44.50	53.90	64.60
10	7.41	10.20	13.65	17.90	23.10	29.10	36.20	44.50	53.90	64.60
20	6.05	8.57	11.70	15.50	20.10	25.50	31.80	39.20	47.60	57.20
30			9.73	13.05	17.05	21.80	27.30	33.80	41.20	49.80
35			8.77	11.85	15.55	19.95	25.10	31.10	38.00	46.00
40				10.65	14.05	18.05	22.80	28.40	34.80	42.20
45				9.48	12.55	16.25	20.60	25.70	31.60	38.40
50					11.10	14.40	18.35	22.90	28.30	34.60
55					9.65	12.60	16.10	20.20	25.10	30.80
	Power Input kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	3.96	4.60	5.17	5.66	6.05	6.31	6.41	7.34	7.26	6.96
10	4.06	4.78	5.45	6.06	6.58	6.98	7.24	7.34	7.26	6.96
20	4.13	5.01	5.88	6.70	7.47	8.15	8.72	9.16	9.44	9.54
30			6.12	7.15	8.16	9.10	9.97	10.75	11.35	11.85
35			6.18	7.31	8.43	9.50	10.50	11.40	12.25	12.90
40				7.43	8.65	9.85	11.00	12.05	13.05	13.90
45				7.50	8.83	10.15	11.45	12.65	13.80	14.80
50					8.97	10.40	11.80	13.20	14.50	15.70
55					9.06	10.60	12.15	13.65	15.10	16.50
	Current 400V, A									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	9.07	9.83	10.58	11.27	11.83	12.23	12.40	13.69	13.55	13.06
10	9.28	10.12	10.98	11.80	12.54	13.13	13.54	13.69	13.55	13.06
20	9.46	10.46	11.54	12.64	13.72	14.71	15.57	16.25	16.69	16.85
30			11.81	13.20	14.62	16.02	17.34	18.55	19.57	20.37
35			11.86	13.39	14.98	16.58	18.14	19.61	20.93	22.05
40				13.52	15.29	17.10	18.89	20.62	22.23	23.68
45				13.61	15.55	17.56	19.59	21.59	23.50	25.27
50					15.78	17.99	20.26	22.52	24.72	26.82
55					15.97	18.39	20.89	23.42	25.92	28.34
	Mass Flow g/s									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	43.10	58.70	78.50	102.50	132.00	167.00	209.00	253.00	309.00	373.00
10	41.10	56.50	76.00	100.00	129.00	164.00	205.00	253.00	309.00	373.00
20	36.50	51.80	70.80	94.00	122.50	156.00	196.00	243.00	298.00	361.00
30			65.00	87.50	114.50	147.50	186.00	232.00	285.00	347.00
35			61.80	84.00	110.50	142.50	180.00	225.00	278.00	340.00
40				80.00	106.00	137.00	174.00	219.00	271.00	332.00
45				76.00	101.50	131.50	168.00	212.00	263.00	324.00
50					96.50	126.00	162.00	204.00	255.00	315.00
55					91.50	120.00	155.00	197.00	247.00	307.00

DWM Copeland - Compressor - DWM Copeland - Standard

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, cu.m/h	61.7
Bore/Stroke, mm	63.5/56.0
Length/Width, mm	638/501
Height, mm	452
Net Weight, kg	177
Suction, inch	1 5/8
Discharge, inch	1 1/8
Oil Quantity, l	3.3
Base mounting (hole dia), mm	381 x 305 (18.0)
Sound Pressure @ 1m (LT), dBA	70
Sound Pressure @ 1m (MT), dBA	68
Sound Power (LT), dBA	81
Sound Power (MT), dBA	79
Sound Power with Sound Shell (LT), dBA	69
Sound Power with Sound Shell (MT), dBA	67
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

COMPRESSOR ELECTRICAL DATA (380/420V - 3~ - 50Hz)

Maximum Operating Current, A	30.8
Locked Rotor Current, A	105
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Diagnostics	Oil pressure, motor and discharge line temperature protection; advan

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 50 %
Crankcase Heater	100 W Internal
Adapter Kit	For Parallel Operation
Check Valve (NRV)	For unloaded start operation
Sound Attenuation	Sound Shell
Inverter	Control Techniques SK 3403
Mounting Parts	Rubber

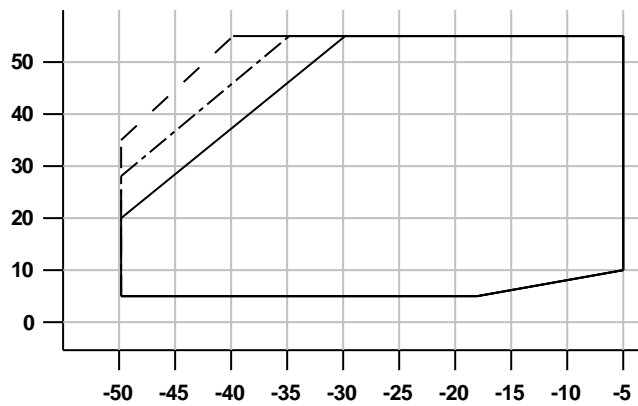
MOTOR OPTIONS

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
380-420 V/3~/50H	400	AWM	YY/Y	Y	1.00
220-240 V/3~/50H	230	EWL	Y/DELTA	DELTA	1.73
380-420 V/3~/50H	400	EWL		Y	1.00
380-420 V/3~/50H	400	EWM	Y/DELTA	DELTA	1.00
220-240 V/3~/50H	230	AWR	YY/Y	Y	1.73
500-550 V/3~/50H	525	AWY	YY/Y	Y	0.76
220-240 V/3~/60H	230	EWK	Y/DELTA	DELTA	2.09
380-420 V/3~/60H	380	EWK		Y	1.26
440-480 V/3~/60H	460	EWD	Y/DELTA	DELTA	1.00
208-230 V/3~/60H	230	AWC	YY/Y	Y	2.19
380 V/3~/60Hz	380	AWX	YY/Y	Y	1.26
440-480 V/3~/60H	460	AWD	YY/Y	Y	1.00

50Hz

4ML-15X

R404A



Minimum evaporating temp. with:
 ——— 25°C Suction Gas Return
 - - - 20K Suction Superheat
 - · - · 0°C Suction Gas Return

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	9.54	12.90	17.15	22.40	28.80	36.40	45.30			
10	8.84	12.05	16.10	21.10	27.20	34.30	42.80	52.50	63.80	76.50
20	7.42	10.40	14.05	18.55	23.90	30.30	37.80	46.50	56.50	67.90
30			12.00	15.95	20.70	26.30	32.80	40.50	49.20	59.30
35			10.95	14.65	19.05	24.20	30.30	37.40	45.60	55.00
40				13.30	17.40	22.20	27.90	34.40	42.00	50.80
45				11.95	15.75	20.20	25.40	31.40	38.40	46.50
50					14.05	18.10	22.90	28.40	34.80	42.20
55					12.35	16.05	20.30	25.30	31.20	37.90
	Power Input kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	4.68	5.46	6.20	6.87	7.40	7.74	7.85			
10	4.81	5.67	6.53	7.33	8.02	8.55	8.88	8.94	8.70	8.09
20	4.99	5.99	7.04	8.08	9.06	9.94	10.65	11.20	11.45	11.40
30			7.39	8.63	9.87	11.05	12.15	13.05	13.80	14.25
35			7.52	8.84	10.20	11.50	12.75	13.90	14.80	15.50
40				9.02	10.50	11.95	13.30	14.60	15.75	16.70
45				9.17	10.70	12.30	13.80	15.30	16.60	17.80
50					10.90	12.60	14.25	15.90	17.40	18.80
55					11.05	12.85	14.65	16.40	18.10	19.70
	Current 400V, A									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	13.22	13.91	14.60	15.24	15.77	16.13	16.28			
10	13.32	14.11	14.93	15.73	16.45	17.03	17.44	17.60	17.46	16.98
20	13.47	14.43	15.50	16.60	17.70	18.72	19.63	20.36	20.85	21.06
30			15.92	17.32	18.77	20.22	21.61	22.89	24.01	24.89
35			16.06	17.60	19.23	20.89	22.52	24.07	25.48	26.71
40				17.83	19.63	21.49	23.36	25.17	26.89	28.44
45				17.99	19.96	22.02	24.12	26.20	28.22	30.10
50					20.23	22.48	24.81	27.16	29.46	31.67
55					20.42	22.87	25.42	28.02	30.61	33.14
	Mass Flow g/s									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	50.80	68.80	92.00	120.50	155.00	197.00	246.00			
10	49.00	67.00	89.50	118.00	152.00	193.00	242.00	299.00	365.00	442.00
20	44.70	62.80	85.50	112.50	146.00	186.00	233.00	288.00	353.00	428.00
30			80.00	107.00	139.00	178.00	223.00	277.00	340.00	414.00
35			77.00	103.50	135.50	173.00	218.00	271.00	334.00	407.00
40				100.00	131.50	169.00	213.00	265.00	327.00	399.00
45				96.00	127.00	164.00	207.00	259.00	320.00	392.00
50					122.50	158.00	201.00	252.00	313.00	385.00
55					117.00	153.00	195.00	246.00	306.00	378.00

DWM Copeland - Compressor - DWM Copeland - Standard

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, cu.m/h	71.4
Bore/Stroke, mm	68.3/56.0
Length/Width, mm	638/501
Height, mm	452
Net Weight, kg	180
Suction, inch	1 5/8
Discharge, inch	1 1/8
Oil Quantity, l	3.3
Base mounting (hole dia), mm	381 x 305 (18.0)
Sound Pressure @ 1m (LT), dBA	71
Sound Pressure @ 1m (MT), dBA	69
Sound Power (LT), dBA	82
Sound Power (MT), dBA	80
Sound Power with Sound Shell (LT), dBA	70
Sound Power with Sound Shell (MT), dBA	68
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

COMPRESSOR ELECTRICAL DATA (380/420V - 3~ - 50Hz)

Maximum Operating Current, A	35.4
Locked Rotor Current, A	156
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Diagnostics	Oil pressure, motor and discharge line temperature protection; advan

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 50 %
Crankcase Heater	100 W Internal
Adapter Kit	For Parallel Operation
Check Valve (NRV)	For unloaded start operation
Sound Attenuation	Sound Shell
Inverter	Control Techniques SK 4401
Mounting Parts	Rubber

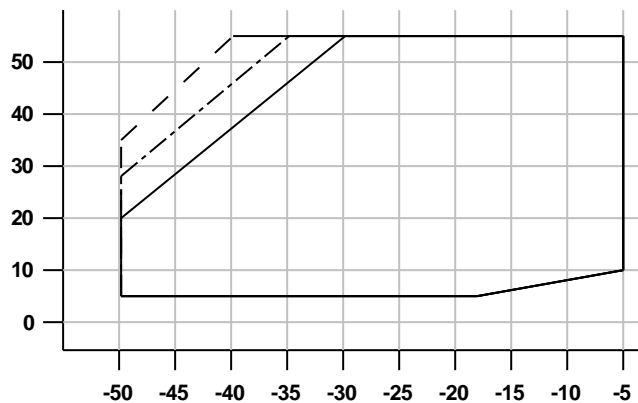
MOTOR OPTIONS

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
380-420 V/3~/50H	400	AWM	YY/Y	Y	1.00
220-240 V/3~/50H	230	EWL	Y/DELTA	DELTA	1.73
380-420 V/3~/50H	400	EWL		Y	1.00
380-420 V/3~/50H	400	EWM	Y/DELTA	DELTA	1.00
220-240 V/3~/50H	230	AWR	YY/Y	Y	1.73
500-550 V/3~/50H	525	AWY	YY/Y	Y	0.76
220-240 V/3~/60H	230	EWK	Y/DELTA	DELTA	2.09
380-420 V/3~/60H	380	EWK		Y	1.26
440-480 V/3~/60H	460	EWD	Y/DELTA	DELTA	1.00
208-230 V/3~/60H	230	AWC	YY/Y	Y	2.19
380 V/3~/60Hz	380	AWX	YY/Y	Y	1.26
440-480 V/3~/60H	460	AWD	YY/Y	Y	1.00

50Hz

4MM-20X

R404A



Minimum evaporating temp. with:

- 25°C Suction Gas Return
- - - 20K Suction Superheat
- . - . 0°C Suction Gas Return

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	10.95	14.65	19.35	25.10	32.00	40.20	49.80			
10	10.15	13.80	18.30	23.80	30.40	38.10	47.20	57.70	69.80	83.40
20	8.56	11.95	16.05	21.00	26.90	33.80	41.90	51.30	62.00	74.30
30			13.70	18.10	23.30	29.40	36.50	44.70	54.10	64.90
35			12.50	16.60	21.40	27.10	33.70	41.30	50.10	60.20
40				15.10	19.55	24.80	30.90	37.90	46.10	55.40
45				13.55	17.65	22.50	28.00	34.50	42.00	50.50
50					15.75	20.10	25.20	31.00	37.80	45.70
55					13.75	17.70	22.20	27.50	33.70	40.80
	Power Input kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	5.20	6.02	6.78	7.47	8.05	8.49	8.76			
10	5.39	6.29	7.15	7.94	8.65	9.23	9.65	9.91	9.95	9.75
20	5.68	6.75	7.80	8.83	9.79	10.65	11.40	12.00	12.40	12.65
30			8.30	9.57	10.80	11.95	13.05	14.00	14.80	15.45
35			8.47	9.87	11.25	12.55	13.80	14.95	16.00	16.80
40				10.10	11.60	13.10	14.55	15.85	17.10	18.15
45				10.25	11.95	13.60	15.20	16.70	18.15	19.45
50					12.20	14.00	15.80	17.50	19.15	20.70
55					12.35	14.35	16.30	18.25	20.10	21.80
	Current 400V, A									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	14.73	15.51	16.31	17.07	17.74	18.27	18.58			
10	14.91	15.77	16.68	17.57	18.40	19.11	19.65	19.95	19.96	19.62
20	15.22	16.25	17.38	18.57	19.74	20.85	21.84	22.66	23.24	23.54
30			17.96	19.46	21.01	22.55	24.03	25.39	26.58	27.53
35			18.16	19.83	21.58	23.35	25.08	26.73	28.23	29.52
40				20.13	22.08	24.09	26.09	28.02	29.84	31.49
45				20.34	22.51	24.76	27.03	29.26	31.41	33.41
50					22.84	25.34	27.89	30.43	32.91	35.28
55					23.07	25.82	28.66	31.52	34.34	37.08
	Mass Flow g/s									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	58.30	78.50	103.50	135.00	173.00	218.00	271.00			
10	56.40	76.50	101.50	132.50	170.00	215.00	267.00	328.00	399.00	482.00
20	51.70	72.10	97.00	127.50	164.00	207.00	258.00	318.00	388.00	468.00
30			91.50	121.00	157.00	199.00	248.00	306.00	374.00	453.00
35			88.00	117.50	152.00	194.00	242.00	300.00	366.00	444.00
40				113.50	147.50	188.00	236.00	292.00	358.00	435.00
45				108.50	142.50	182.00	229.00	284.00	350.00	426.00
50					136.50	176.00	222.00	276.00	340.00	416.00
55					130.50	169.00	214.00	267.00	331.00	406.00

50Hz**4MM-20X****R404A****DWM Copeland - Compressor - DWM Copeland - Standard****COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	4
Displacement @ 50 Hz, cu.m/h	78.2
Bore/Stroke, mm	71.5/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	182
Suction, inch	2 1/8
Discharge, inch	1 1/8
Oil Quantity, l	3.3
Base mounting (hole dia), mm	381 x 305 (18.0)
Sound Pressure @ 1m (LT), dBA	71
Sound Pressure @ 1m (MT), dBA	70
Sound Power (LT), dBA	82
Sound Power (MT), dBA	81
Sound Power with Sound Shell (LT), dBA	70
Sound Power with Sound Shell (MT), dBA	69
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

COMPRESSOR ELECTRICAL DATA (380/420V - 3~ - 50Hz)

Maximum Operating Current, A	39
Locked Rotor Current, A	175
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Diagnostics	Oil pressure, motor and discharge line temperature protection; advan

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 50 %
Crankcase Heater	100 W Internal
Adapter Kit	For Parallel Operation
Check Valve (NRV)	For unloaded start operation
Sound Attenuation	Sound Shell
Inverter	Control Techniques SK 4401
Mounting Parts	Rubber

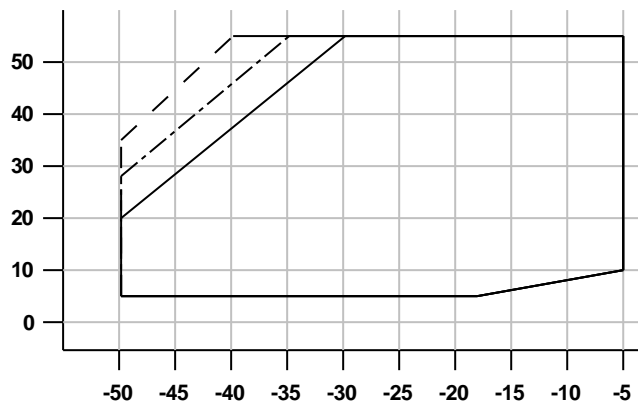
MOTOR OPTIONS

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
380-420 V/3~/50H	400	AWM	YY/Y	Y	1.00
220-240 V/3~/50H	230	EWL	Y/DELTA	DELTA	1.73
380-420 V/3~/50H	400	EWL		Y	1.00
380-420 V/3~/50H	400	EWM	Y/DELTA	DELTA	1.00
220-240 V/3~/50H	230	AWR	YY/Y	Y	1.73
500-550 V/3~/50H	525	AWY	YY/Y	Y	0.76
220-240 V/3~/60H	230	EWK	Y/DELTA	DELTA	2.09
380-420 V/3~/60H	380	EWK		Y	1.26
440-480 V/3~/60H	460	EWD	Y/DELTA	DELTA	1.00
208-230 V/3~/60H	230	AWC	YY/Y	Y	2.19
380 V/3~/60Hz	380	AWX	YY/Y	Y	1.26
440-480 V/3~/60H	460	AWD	YY/Y	Y	1.00

50Hz

4MT-22X

R404A



Minimum evaporating temp. with:
 ——— 25°C Suction Gas Return
 - - - 20K Suction Superheat
 - · - · 0°C Suction Gas Return

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	12.55	16.50	21.50	27.70	35.00	43.80	54.10			
10	11.70	15.60	20.40	26.30	33.40	41.80	51.60	63.00	76.00	90.80
20	9.97	13.60	18.05	23.40	29.80	37.40	46.30	56.60	68.50	82.00
30			15.45	20.30	26.00	32.70	40.70	49.90	60.50	72.60
35			14.10	18.65	24.00	30.30	37.70	46.30	56.30	67.70
40				16.95	21.90	27.80	34.70	42.70	52.00	62.70
45				15.20	19.80	25.20	31.60	39.00	47.60	57.60
50					17.65	22.60	28.40	35.20	43.20	52.40
55					15.45	19.90	25.20	31.40	38.70	47.10
	Power Input kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	5.95	6.83	7.68	8.46	9.13	9.63	9.93			
10	6.13	7.12	8.09	9.01	9.83	10.50	11.00	11.30	11.30	11.00
20	6.43	7.61	8.82	10.00	11.15	12.20	13.05	13.75	14.25	14.45
30			9.37	10.85	12.30	13.65	14.95	16.05	17.00	17.70
35			9.57	11.15	12.75	14.30	15.80	17.10	18.30	19.25
40				11.45	13.20	14.90	16.55	18.10	19.50	20.70
45				11.60	13.50	15.40	17.25	19.00	20.60	22.10
50					13.75	15.85	17.85	19.80	21.70	23.40
55					13.90	16.15	18.35	20.50	22.60	24.50
	Current 400V, A									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	15.78	16.61	17.50	18.38	19.18	19.83	20.26			
10	15.93	16.88	17.91	18.96	19.95	20.82	21.51	21.93	22.03	21.74
20	16.22	17.42	18.75	20.16	21.57	22.91	24.12	25.13	25.87	26.27
30			19.47	21.26	23.12	24.96	26.73	28.35	29.76	30.88
35			19.73	21.72	23.81	25.91	27.97	29.91	31.66	33.16
40				22.09	24.41	26.79	29.14	31.40	33.51	35.39
45				22.34	24.91	27.56	30.21	32.80	35.27	37.54
50					25.27	28.20	31.16	34.10	36.93	39.59
55					25.47	28.69	31.97	35.25	38.46	41.52
	Mass Flow g/s									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	66.90	88.50	115.00	148.50	189.00	237.00	294.00			
10	65.00	86.50	113.50	147.00	187.00	235.00	292.00	358.00	435.00	524.00
20	60.20	82.00	109.50	142.50	182.00	229.00	286.00	351.00	428.00	517.00
30			103.50	136.00	175.00	222.00	277.00	342.00	418.00	506.00
35			99.50	132.00	170.00	217.00	271.00	336.00	411.00	500.00
40				127.50	165.00	211.00	265.00	329.00	404.00	493.00
45				122.00	160.00	205.00	258.00	322.00	397.00	485.00
50					153.00	198.00	250.00	313.00	388.00	477.00
55					146.50	190.00	242.00	305.00	380.00	470.00

DWM Copeland - Compressor - DWM Copeland - Standard

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, cu.m/h	87.7
Bore/Stroke, mm	75.7/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	183
Suction, inch	2 1/8
Discharge, inch	1 3/8
Oil Quantity, l	3.3
Base mounting (hole dia), mm	381 x 305 (18.0)
Sound Pressure @ 1m (LT), dBA	73
Sound Pressure @ 1m (MT), dBA	71
Sound Power (LT), dBA	84
Sound Power (MT), dBA	82
Sound Power with Sound Shell (LT), dBA	72
Sound Power with Sound Shell (MT), dBA	70
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

COMPRESSOR ELECTRICAL DATA (380/420V - 3~ - 50Hz)

Maximum Operating Current, A	44.5
Locked Rotor Current, A	175
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Diagnostics	Oil pressure, motor and discharge line temperature protection; advan

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 50 %
Crankcase Heater	100 W Internal
Adapter Kit	For Parallel Operation
Check Valve (NRV)	For unloaded start operation
Sound Attenuation	Sound Shell
Inverter	Control Techniques SK 4401
Mounting Parts	Rubber

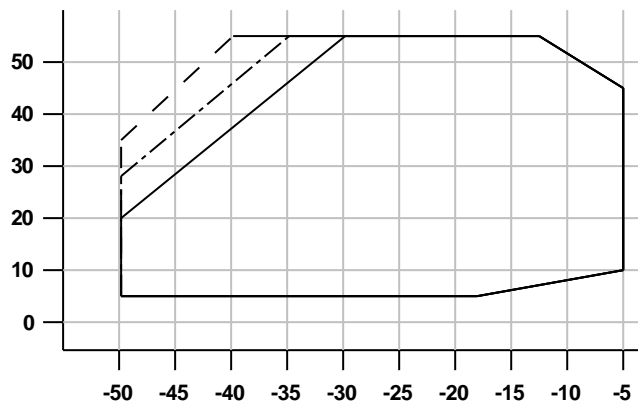
MOTOR OPTIONS

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
380-420 V/3~/50H	400	AWM	YY/Y	Y	1.00
220-240 V/3~/50H	230	EWL	Y/DELTA	DELTA	1.73
380-420 V/3~/50H	400	EWL		Y	1.00
380-420 V/3~/50H	400	EWM	Y/DELTA	DELTA	1.00
220-240 V/3~/50H	230	AWR	YY/Y	Y	1.73
500-550 V/3~/50H	525	AWY	YY/Y	Y	0.76
220-240 V/3~/60H	230	EWK	Y/DELTA	DELTA	2.09
380-420 V/3~/60H	380	EWK		Y	1.26
440-480 V/3~/60H	460	EWD	Y/DELTA	DELTA	1.00
208-230 V/3~/60H	230	AWC	YY/Y	Y	2.19
380 V/3~/60Hz	380	AWX	YY/Y	Y	1.26
440-480 V/3~/60H	460	AWD	YY/Y	Y	1.00

50Hz

4MU-25X

R404A



Minimum evaporating temp. with:
 ——— 25°C Suction Gas Return
 - - - 20K Suction Superheat
 - . - . 0°C Suction Gas Return

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	12.75	17.00	22.40	29.10	37.20	46.90	58.40			
10	12.05	16.25	21.50	28.00	35.80	45.10	56.10	68.90	83.50	100.00
20	10.50	14.45	19.35	25.30	32.50	41.00	51.00	62.60	76.00	91.30
30			16.80	22.10	28.50	36.10	45.10	55.40	67.40	81.20
35			15.40	20.40	26.40	33.50	41.80	51.60	62.90	75.80
40				18.60	24.10	30.70	38.50	47.50	58.10	70.20
45				16.75	21.80	27.80	35.00	43.30	53.10	64.30
50					19.40	24.80	31.30	39.00	47.90	
55					16.95	21.80	27.60	34.50		
	Power Input kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	6.87	7.91	8.91	9.80	10.55	11.10	11.35			
10	6.92	8.11	9.27	10.35	11.30	12.10	12.65	12.90	12.85	12.45
20	7.07	8.50	9.95	11.40	12.75	14.00	15.05	15.85	16.40	16.65
30			10.50	12.25	13.95	15.60	17.10	18.45	19.60	20.40
35			10.70	12.60	14.45	16.30	18.00	19.60	21.00	22.10
40				12.85	14.85	16.90	18.80	20.60	22.30	23.70
45				13.00	15.20	17.35	19.45	21.50	23.40	25.10
50					15.40	17.70	20.00	22.20	24.40	
55					15.45	17.90	20.40	22.80		
	Current 400V, A									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	19.33	20.21	21.18	22.12	22.96	23.61	23.96			
10	19.32	20.34	21.49	22.67	23.80	24.77	25.50	25.90	25.88	25.34
20	19.44	20.71	22.20	23.82	25.48	27.08	28.55	29.77	30.67	31.15
30			22.86	24.88	27.03	29.23	31.38	33.39	35.17	36.62
35			23.12	25.32	27.70	30.18	32.65	35.04	37.24	39.18
40				25.66	28.26	31.01	33.80	36.56	39.18	41.57
45				25.89	28.70	31.71	34.81	37.92	40.94	43.79
50					28.99	32.24	35.64	39.09	42.51	
55					29.10	32.59	36.28	40.07		
	Mass Flow g/s									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	68.00	90.50	120.00	156.00	201.00	254.00	317.00			
10	66.90	90.00	119.50	156.00	201.00	254.00	317.00	392.00	478.00	579.00
20	63.30	87.50	117.00	154.00	198.00	251.00	314.00	388.00	475.00	575.00
30			112.00	148.50	192.00	244.00	307.00	380.00	466.00	567.00
35			108.50	144.50	188.00	239.00	301.00	374.00	459.00	560.00
40				140.00	182.00	233.00	294.00	366.00	451.00	552.00
45				134.50	176.00	226.00	286.00	357.00	442.00	542.00
50					169.00	217.00	276.00	347.00	431.00	
55					160.00	208.00	265.00	335.00		

DWM Copeland - Compressor - DWM Copeland - Standard

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, cu.m/h	99.4
Bore/Stroke, mm	80.6/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	186
Suction, inch	2 1/8
Discharge, inch	1 3/8
Oil Quantity, l	3.3
Base mounting (hole dia), mm	381 x 305 (18.0)
Sound Pressure @ 1m (LT), dBA	72
Sound Pressure @ 1m (MT), dBA	73
Sound Power (LT), dBA	83
Sound Power (MT), dBA	84
Sound Power with Sound Shell (LT), dBA	71
Sound Power with Sound Shell (MT), dBA	72
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

COMPRESSOR ELECTRICAL DATA (380/420V - 3~ - 50Hz)

Maximum Operating Current, A	51.9
Locked Rotor Current, A	199
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Diagnostics	Oil pressure, motor and discharge line temperature protection; advan

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 50 %
Crankcase Heater	100 W Internal
Adapter Kit	For Parallel Operation
Check Valve (NRV)	For unloaded start operation
Sound Attenuation	Sound Shell
Inverter	Control Techniques SK 4402
Mounting Parts	Rubber

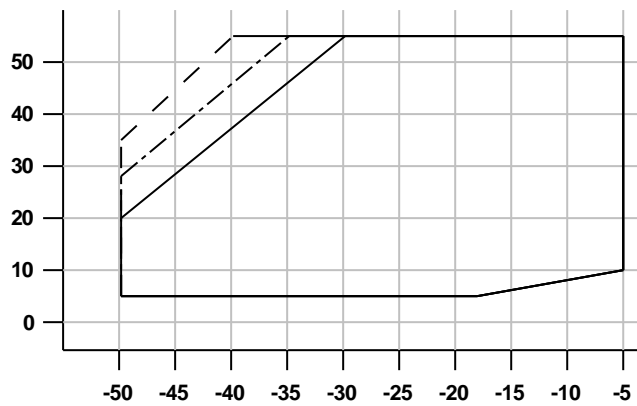
MOTOR OPTIONS

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
380-420 V/3~/50H	400	AWM	YY/Y	Y	1.00
220-240 V/3~/50H	230	EWL	Y/DELTA	DELTA	1.73
380-420 V/3~/50H	400	EWL		Y	1.00
380-420 V/3~/50H	400	EWM	Y/DELTA	DELTA	1.00
220-240 V/3~/50H	230	AWR	YY/Y	Y	1.73
500-550 V/3~/50H	525	AWY	YY/Y	Y	0.76
220-240 V/3~/60H	230	EWK	Y/DELTA	DELTA	2.09
380-420 V/3~/60H	380	EWK		Y	1.26
440-480 V/3~/60H	460	EWD	Y/DELTA	DELTA	1.00
208-230 V/3~/60H	230	AWC	YY/Y	Y	2.19
380 V/3~/60Hz	380	AWX	YY/Y	Y	1.26
440-480 V/3~/60H	460	AWD	YY/Y	Y	1.00

50Hz

6MM-30X

R404A



Minimum evaporating temp. with:
 ——— 25°C Suction Gas Return
 - - - 20K Suction Superheat
 - . - . 0°C Suction Gas Return

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	15.80	21.00	27.60	36.00	46.30	58.80	73.60			
10	14.95	19.95	26.30	34.30	44.10	55.80	69.80	86.20	105.50	127.00
20	13.00	17.70	23.50	30.70	39.40	49.80	62.20	76.80	93.80	113.50
30			20.50	26.90	34.50	43.60	54.50	67.20	82.10	99.30
35			18.85	24.80	32.00	40.40	50.50	62.40	76.20	92.30
40				22.70	29.30	37.20	46.50	57.40	70.20	85.10
45				20.50	26.60	33.90	42.40	52.40	64.20	78.00
50					23.90	30.40	38.20	47.40	58.20	70.80
55					21.00	26.90	34.00	42.20	52.00	63.50
	Power Input kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	7.93	9.17	10.35	11.45	12.40	13.10	13.50			
10	8.29	9.64	10.95	12.20	13.30	14.25	14.90	15.20	15.20	14.75
20	8.83	10.45	12.05	13.65	15.15	16.45	17.60	18.45	19.00	19.15
30			12.90	14.85	16.75	18.55	20.20	21.60	22.70	23.50
35			13.15	15.30	17.45	19.50	21.40	23.10	24.50	25.70
40				15.70	18.05	20.40	22.50	24.50	26.30	27.80
45				15.95	18.55	21.10	23.60	25.90	28.00	29.80
50					18.90	21.80	24.50	27.10	29.60	31.80
55					19.15	22.30	25.30	28.30	31.10	33.60
	Current 400V, A									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	23.15	24.23	25.35	26.41	27.28	27.85	28.00			
10	23.41	24.63	25.96	27.29	28.48	29.43	30.03	30.14	29.67	28.50
20	23.86	25.37	27.10	28.94	30.77	32.48	33.94	35.06	35.69	35.75
30			28.00	30.34	32.79	35.23	37.56	39.64	41.38	42.64
35			28.31	30.89	33.65	36.46	39.20	41.77	44.05	45.91
40				31.33	34.39	37.56	40.72	43.77	46.58	49.03
45				31.63	34.99	38.51	42.09	45.60	48.95	52.00
50					35.42	39.30	43.28	47.27	51.14	54.78
55					35.68	39.90	44.30	48.75	53.14	57.36
	Mass Flow g/s									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	84.50	112.00	148.00	193.00	250.00	318.00	400.00			
10	83.00	110.50	146.50	191.00	247.00	314.00	395.00	490.00	603.00	734.00
20	78.50	107.00	142.50	187.00	240.00	305.00	383.00	476.00	586.00	714.00
30			137.00	180.00	232.00	295.00	371.00	461.00	567.00	693.00
35			133.00	176.00	227.00	289.00	363.00	452.00	557.00	682.00
40				171.00	222.00	282.00	355.00	442.00	546.00	670.00
45				165.00	215.00	275.00	346.00	432.00	535.00	657.00
50					207.00	266.00	337.00	422.00	523.00	645.00
55					199.00	257.00	327.00	410.00	511.00	633.00

DWM Copeland - Compressor - DWM Copeland - Standard

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, cu.m/h	120.5
Bore/Stroke, mm	71.5/57.5
Length/Width, mm	695/547
Height, mm	450
Net Weight, kg	215
Suction, inch	2 1/8
Discharge, inch	1 3/8
Oil Quantity, l	3.3
Base mounting (hole dia), mm	381 x 305 (18.0)
Sound Pressure @ 1m (LT), dBA	78
Sound Pressure @ 1m (MT), dBA	72
Sound Power (LT), dBA	89
Sound Power (MT), dBA	83
Sound Power with Sound Shell (LT), dBA	74
Sound Power with Sound Shell (MT), dBA	70
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

COMPRESSOR ELECTRICAL DATA (380/420V - 3~ - 50Hz)

Maximum Operating Current, A	59.7
Locked Rotor Current, A	255
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Diagnostics	Oil pressure, motor and discharge line temperature protection; advan

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 67/33 %
Crankcase Heater	100 W Internal
Discharge Shut-off Valve	Angle valve
Adapter Kit	For Parallel Operation
Check Valve (NRV)	For unloaded start operation
Sound Attenuation	Sound Shell
Inverter	Control Techniques SK 4402
Mounting Parts	Rubber
Digital Modulation	33-100 %

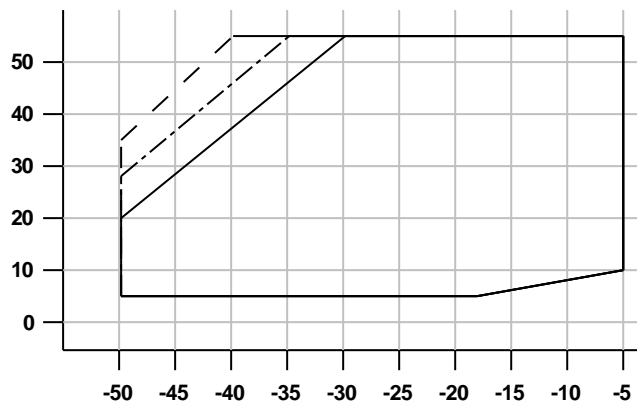
MOTOR OPTIONS

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
380-420 V/3~/50H	400	AWM	YY/Y	Y	1.00
220-240 V/3~/50H	230	EWL	Y/DELTA	DELTA	1.73
380-420 V/3~/50H	400	EWL		Y	1.00
380-420 V/3~/50H	400	EWM	Y/DELTA	DELTA	1.00
220-240 V/3~/50H	230	AWR	YY/Y	Y	1.73
500-550 V/3~/50H	525	AWY	YY/Y	Y	0.76
220-240 V/3~/60H	230	EWK	Y/DELTA	DELTA	2.09
380-420 V/3~/60H	380	EWK		Y	1.26
440-480 V/3~/60H	460	EWD	Y/DELTA	DELTA	1.00
208-230 V/3~/60H	230	AWC	YY/Y	Y	2.19
380 V/3~/60Hz	380	AWX	YY/Y	Y	1.26
440-480 V/3~/60H	460	AWD	YY/Y	Y	1.00

50Hz

6MT-35X

R404A



Minimum evaporating temp. with:

- 25°C Suction Gas Return
- - - 20K Suction Superheat
- . - . 0°C Suction Gas Return

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	18.40	24.30	31.80	41.20	52.50	66.10	82.00			
10	17.30	23.00	30.30	39.30	50.10	63.10	78.30	96.00	116.50	139.50
20	14.95	20.30	27.00	35.10	44.90	56.60	70.40	86.40	105.00	126.00
30			23.30	30.50	39.20	49.50	61.70	76.00	92.50	111.50
35			21.30	28.10	36.10	45.80	57.20	70.50	86.00	103.50
40				25.60	33.00	41.90	52.50	64.90	79.30	95.90
45				23.00	29.80	38.00	47.70	59.10	72.40	87.90
50					26.60	34.00	42.80	53.20	65.40	79.70
55					23.30	29.90	37.80	47.20	58.30	71.30
	Power Input kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	8.86	10.20	11.45	12.60	13.50	14.15	14.45			
10	9.33	10.80	12.30	13.65	14.80	15.75	16.35	16.60	16.35	15.55
20	9.91	11.70	13.55	15.35	17.00	18.55	19.80	20.70	21.30	21.40
30			14.35	16.60	18.75	20.80	22.70	24.40	25.70	26.60
35			14.60	17.05	19.50	21.80	24.10	26.00	27.80	29.10
40				17.45	20.10	22.70	25.30	27.60	29.70	31.50
45				17.75	20.70	23.60	26.40	29.10	31.50	33.70
50					21.10	24.30	27.40	30.50	33.30	35.90
55					21.50	25.00	28.40	31.80	35.00	38.00
	Current 400V, A									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	23.70	24.97	26.31	27.62	28.79	29.72	30.31			
10	24.18	25.63	27.20	28.79	30.29	31.60	32.62	33.25	33.37	32.89
20	24.80	26.61	28.65	30.81	32.99	35.08	36.98	38.59	39.80	40.51
30			29.67	32.42	35.29	38.18	40.98	43.59	45.90	47.82
35			30.00	33.06	36.28	39.58	42.83	45.95	48.82	51.35
40				33.59	37.17	40.88	44.59	48.23	51.66	54.81
45				34.01	37.96	42.08	46.26	50.41	54.42	58.18
50					38.64	43.18	47.83	52.50	57.08	61.47
55					39.22	44.18	49.31	54.51	59.66	64.68
	Mass Flow g/s									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	98.00	130.00	170.00	221.00	283.00	357.00	446.00			
10	96.00	128.00	169.00	219.00	281.00	355.00	443.00	546.00	667.00	807.00
20	90.50	123.00	163.00	213.00	274.00	347.00	434.00	536.00	655.00	795.00
30			155.00	204.00	264.00	335.00	420.00	521.00	639.00	777.00
35			151.00	199.00	257.00	327.00	411.00	511.00	628.00	766.00
40				192.00	249.00	318.00	401.00	500.00	616.00	754.00
45				185.00	241.00	308.00	390.00	487.00	603.00	740.00
50					231.00	297.00	377.00	473.00	588.00	726.00
55					220.00	285.00	363.00	458.00	573.00	710.00

DWM Copeland - Compressor - DWM Copeland - Standard

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, cu.m/h	135.1
Bore/Stroke, mm	75.7/57.5
Length/Width, mm	725/547
Height, mm	450
Net Weight, kg	221
Suction, inch	2 1/8
Discharge, inch	1 5/8
Oil Quantity, l	3.3
Base mounting (hole dia), mm	381 x 305 (18.0)
Sound Pressure @ 1m (LT), dBA	77
Sound Pressure @ 1m (MT), dBA	73
Sound Power (LT), dBA	88
Sound Power (MT), dBA	84
Sound Power with Sound Shell (LT), dBA	74
Sound Power with Sound Shell (MT), dBA	72
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

COMPRESSOR ELECTRICAL DATA (380/420V - 3~ - 50Hz)

Maximum Operating Current, A	67.3
Locked Rotor Current, A	255
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Diagnostics	Oil pressure, motor and discharge line temperature protection; adv

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 67/33 %
Crankcase Heater	100 W Internal
Adapter Kit	For Parallel Operation
Check Valve (NRV)	For unloaded start operation
Sound Attenuation	Sound Shell
Inverter	Control Techniques SK 4403
Mounting Parts	Rubber
Digital Modulation	33-100 %

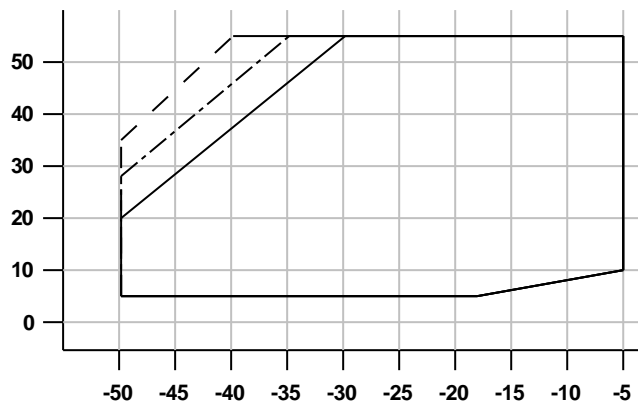
MOTOR OPTIONS

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
380-420 V/3~/50H	400	AWM	YY/Y	Y	1.00
220-240 V/3~/50H	230	EWL	Y/DELTA	DELTA	1.73
380-420 V/3~/50H	400	EWL		Y	1.00
380-420 V/3~/50H	400	EWM	Y/DELTA	DELTA	1.00
220-240 V/3~/50H	230	AWR	YY/Y	Y	1.73
500-550 V/3~/50H	525	AWY	YY/Y	Y	0.76
220-240 V/3~/60H	230	EWK	Y/DELTA	DELTA	2.09
380-420 V/3~/60H	380	EWK		Y	1.26
440-480 V/3~/60H	460	EWD	Y/DELTA	DELTA	1.00
208-230 V/3~/60H	230	AWC	YY/Y	Y	2.19
380 V/3~/60Hz	380	AWX	YY/Y	Y	1.26
440-480 V/3~/60H	460	AWD	YY/Y	Y	1.00

50Hz

6MU-40X

R404A



Minimum evaporating temp. with:
 ——— 25°C Suction Gas Return
 - - - 20K Suction Superheat
 - . - . 0°C Suction Gas Return

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	20.00	26.70	35.30	46.10	59.30	75.20	94.00			
10	18.80	25.20	33.50	43.70	56.20	71.20	89.00	110.00	134.00	161.50
20	16.20	22.20	29.60	38.80	49.90	63.30	79.10	97.60	119.00	144.00
30			25.60	33.70	43.50	55.10	69.00	85.20	104.00	126.00
35			23.50	31.10	40.20	51.00	63.80	78.90	96.60	117.00
40				28.40	36.80	46.80	58.70	72.70	89.00	108.00
45				25.70	33.40	42.60	53.50	66.30	81.40	98.80
50					29.90	38.30	48.20	59.90	73.70	89.70
55					26.40	33.90	42.90	53.50	65.90	80.60
	Power Input kW									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	9.93	11.50	13.10	14.55	15.90	17.05	17.95			
10	10.25	12.00	13.70	15.35	16.90	18.30	19.45	20.30	20.80	21.00
20	10.85	12.90	15.00	17.05	19.05	20.90	22.50	24.00	25.10	25.90
30			16.10	18.60	21.00	23.40	25.60	27.70	29.50	30.90
35			16.50	19.20	21.90	24.60	27.10	29.50	31.60	33.40
40				19.70	22.70	25.60	28.50	31.10	33.60	35.80
45				20.00	23.30	26.50	29.70	32.70	35.50	38.10
50					23.70	27.30	30.70	34.10	37.30	40.30
55					23.90	27.80	31.60	35.30	38.90	42.30
	Current 400V, A									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	26.03	27.48	29.10	30.79	32.41	33.86	35.03			
10	26.31	27.93	29.78	31.73	33.66	35.47	37.03	38.23	38.96	39.09
20	26.91	28.93	31.26	33.78	36.39	38.95	41.35	43.49	45.24	46.48
30			32.59	35.75	39.07	42.45	45.76	48.89	51.72	54.14
35			33.07	36.57	40.28	44.09	47.88	51.52	54.92	57.95
40				37.22	41.34	45.59	49.86	54.04	58.02	61.67
45				37.66	42.18	46.89	51.67	56.40	60.97	65.26
50					42.77	47.96	53.26	58.55	63.73	68.68
55					43.06	48.73	54.57	60.44	66.25	71.86
	Mass Flow g/s									
	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
5	107.00	142.50	189.00	248.00	320.00	407.00	511.00			
10	104.00	140.00	186.00	244.00	315.00	401.00	503.00	625.00	767.00	933.00
20	98.00	134.00	180.00	236.00	305.00	388.00	487.00	605.00	744.00	906.00
30			171.00	226.00	293.00	373.00	469.00	584.00	719.00	878.00
35			166.00	220.00	286.00	365.00	459.00	572.00	706.00	864.00
40				214.00	278.00	356.00	449.00	560.00	692.00	848.00
45				206.00	270.00	346.00	437.00	547.00	677.00	833.00
50					260.00	335.00	425.00	533.00	663.00	818.00
55					250.00	324.00	412.00	519.00	648.00	803.00

DWM Copeland - Compressor - DWM Copeland - Standard

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, cu.m/h	153.2
Bore/Stroke, mm	80.6/57.5
Length/Width, mm	757/547
Height, mm	450
Net Weight, kg	225
Suction, inch	2 5/8
Discharge, inch	1 5/8
Oil Quantity, l	3.3
Base mounting (hole dia), mm	381 x 305 (18.0)
Sound Pressure @ 1m (LT), dBA	78
Sound Pressure @ 1m (MT), dBA	75
Sound Power (LT), dBA	89
Sound Power (MT), dBA	86
Sound Power with Sound Shell (LT), dBA	74
Sound Power with Sound Shell (MT), dBA	72
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

COMPRESSOR ELECTRICAL DATA (380/420V - 3~ - 50Hz)

Maximum Operating Current, A	75.8
Locked Rotor Current, A	304
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Diagnostics	Oil pressure, motor and discharge line temperature protection; adv

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 67/33 %
Crankcase Heater	100 W Internal
Adapter Kit	For Parallel Operation
Check Valve (NRV)	For unloaded start operation
Sound Attenuation	Sound Shell
Inverter	Control Techniques SK 4403
Mounting Parts	Rubber
Digital Modulation	33-100 %

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500-550 V/3~/50H	525	AWY	YY/Y	Y	0.76
220-240 V/3~/60H	230	EWK	Y/DELTA	DELTA	2.09
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380 V/3~/60Hz	380	AWX	YY/Y	Y	1.26
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