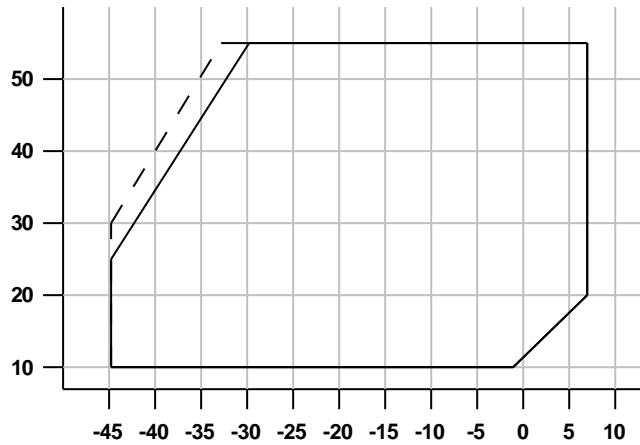


50Hz

4MA-22X

R404A Dew Point



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

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	11.00	14.60	19.00	24.20	30.40	37.60	46.10	55.80	66.90	70.20	83.00	88.50
20	8.71	12.15	16.15	20.90	26.50	32.90	40.40	49.10	59.00	70.20	83.00	88.50
25	7.55	10.90	14.75	19.25	24.50	30.60	37.70	45.80	55.10	65.70	77.70	82.90
30		9.62	13.30	17.60	22.50	28.30	34.90	42.50	51.20	61.10	72.40	77.30
35		8.35	11.90	15.95	20.60	25.90	32.10	39.20	47.30	56.60	67.20	71.80
40			10.45	14.30	18.65	23.60	29.40	36.00	43.50	52.20	62.00	66.20
45			9.04	12.65	16.70	21.30	26.60	32.70	39.70	47.70	56.80	60.80
50				11.00	14.75	19.05	23.90	29.50	35.90	43.30	51.70	55.40
55				9.36	12.85	16.80	21.20	26.30	32.20	38.90	46.60	50.00
	Power Input kW											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	4.88	5.59	6.20	6.71	7.10	7.34	7.43	7.35	7.07	9.26	8.92	8.71
20	5.03	5.96	6.81	7.57	8.22	8.74	9.13	9.35	9.41	10.55	10.40	10.30
25	5.00	6.05	7.02	7.92	8.71	9.38	9.92	10.30	10.55	10.55	10.40	10.30
30		6.06	7.17	8.21	9.14	9.97	10.65	11.25	11.65	11.85	11.85	11.80
35		6.01	7.26	8.43	9.52	10.50	11.35	12.10	12.70	13.10	13.30	13.35
40			7.27	8.59	9.84	11.00	12.05	12.95	13.70	14.30	14.70	14.85
45			7.20	8.68	10.10	11.40	12.65	13.70	14.65	15.45	16.10	16.30
50				8.70	10.25	11.75	13.15	14.45	15.60	16.60	17.45	17.75
55				8.63	10.40	12.05	13.65	15.10	16.45	17.70	18.75	19.10
	Current 400V, A											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	15.02	15.58	16.13	16.64	17.07	17.36	17.49	17.40	17.06	19.48	18.96	18.66
20	15.18	15.95	16.75	17.53	18.24	18.86	19.33	19.62	19.69	21.09	20.82	20.63
25	15.16	16.06	16.99	17.92	18.81	19.61	20.28	20.78	21.06	21.09	20.82	20.63
30		16.08	17.17	18.27	19.34	20.33	21.21	21.93	22.46	22.74	22.74	22.65
35		16.02	17.28	18.56	19.82	21.03	22.13	23.09	23.86	24.41	24.69	24.71
40			17.29	18.77	20.24	21.67	23.01	24.22	25.26	26.09	26.66	26.80
45			17.20	18.89	20.58	22.25	23.84	25.32	26.64	27.76	28.64	28.91
50				18.90	20.84	22.76	24.61	26.37	27.98	29.41	30.61	31.01
55				18.80	20.99	23.17	25.31	27.36	29.28	31.02	32.56	33.10
	Mass Flow g/s											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	61.00	81.50	106.00	135.50	171.00	213.00	262.00	319.00	386.00	448.00	536.00	574.00
20	52.60	73.60	98.50	127.50	162.00	203.00	251.00	307.00	372.00	448.00	536.00	574.00
25	47.80	69.10	94.00	123.00	157.00	198.00	245.00	300.00	365.00	440.00	527.00	566.00
30		64.30	89.50	118.50	152.00	192.00	239.00	294.00	357.00	432.00	518.00	557.00
35		58.90	84.00	113.50	147.00	187.00	233.00	287.00	350.00	424.00	510.00	549.00
40			78.50	108.00	141.50	181.00	226.00	280.00	342.00	416.00	502.00	540.00
45			72.60	102.00	135.50	174.00	220.00	273.00	335.00	408.00	494.00	533.00
50				95.50	129.00	168.00	213.00	265.00	327.00	401.00	487.00	526.00
55				88.50	122.50	161.00	206.00	259.00	321.00	394.00	482.00	522.00

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	75
Sound Pressure @ 1m (MT), dBA	68
Sound Power (LT), dBA	86
Sound Power (MT), dBA	79
Sound Power with Sound Shell (LT), dBA	73
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	36.3
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 3402
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