



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 25 °C Suction Gas Return with add cooling
- Maximum Evaporating Temperature
- 25 °C Suction Gas Return

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	15.90	20.60	26.50	33.50	41.80	51.60	63.00	76.10			
15.0	14.80	19.40	25.10	31.80	39.80	49.10	60.00	72.40	86.60		
20.0	13.60	18.10	23.50	30.00	37.60	46.50	56.70	68.50	82.00	97.20	104.00
25.0	12.35	16.70	21.90	28.00	35.20	43.60	53.40	64.50	77.20	91.60	97.90
30.0	11.05	15.25	20.20	26.00	32.80	40.70	49.80	60.30	72.30	85.90	91.80
35.0	9.70	13.75	18.40	23.90	30.20	37.60	46.20	56.00	67.20	79.90	85.50
40.0		12.15	16.60	21.70	27.60	34.50	42.40	51.60	62.00	73.90	79.00
45.0		10.60	14.70	19.45	24.90	31.30	38.60	47.00	56.60	67.60	72.40
50.0		8.99	12.80	17.15	22.20	28.00	34.60	42.40	51.20	61.30	65.70
55.0			10.90	14.85	19.40	24.60	30.70	37.60	45.60	54.90	58.90

50 Hz

D4DH-250X

R404A Dew Point

Cond °C	Power, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	6.77	7.45	8.03	8.48	8.79	8.91	8.83	8.52			
15.0	6.97	7.79	8.52	9.13	9.59	9.89	9.99	9.87	9.50		
20.0	7.15	8.11	8.99	9.76	10.40	10.85	11.15	11.25	11.05	10.65	10.40
25.0	7.28	8.38	9.42	10.35	11.15	11.80	12.30	12.55	12.60	12.40	12.25
30.0	7.34	8.60	9.79	10.90	11.85	12.70	13.40	13.85	14.15	14.15	14.05
35.0	7.32	8.73	10.10	11.35	12.55	13.55	14.45	15.15	15.60	15.85	15.85
40.0		8.77	10.30	11.75	13.10	14.35	15.40	16.30	17.00	17.50	17.60
45.0		8.69	10.40	12.00	13.55	15.00	16.30	17.40	18.35	19.05	19.25
50.0		8.48	10.35	12.15	13.90	15.55	17.05	18.40	19.55	20.50	20.80
55.0			10.15	12.20	14.15	15.95	17.70	19.25	20.70	21.90	22.30

Cond °C	Current at 400 V, A										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	19.10	19.61	20.12	20.56	20.89	21.03	20.94	20.55			
15.0	19.23	19.89	20.55	21.16	21.67	22.02	22.15	22.00	21.53		
20.0	19.37	20.18	21.01	21.81	22.52	23.08	23.45	23.55	23.34	22.76	22.41
25.0	19.49	20.46	21.47	22.46	23.39	24.18	24.79	25.15	25.22	24.94	24.71
30.0	19.54	20.69	21.89	23.09	24.24	25.28	26.14	26.78	27.14	27.17	27.07
35.0	19.49	20.83	22.24	23.67	25.05	26.34	27.48	28.41	29.07	29.41	29.44
40.0		20.86	22.48	24.14	25.78	27.34	28.76	29.99	30.96	31.64	31.81
45.0		20.73	22.59	24.50	26.40	28.23	29.95	31.49	32.79	33.81	34.13
50.0		20.42	22.52	24.69	26.86	28.99	31.01	32.88	34.53	35.90	36.36
55.0			22.24	24.68	27.14	29.57	31.92	34.12	36.12	37.87	38.48

Cond °C	Suction Mass Flow, g/s										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	88.40	115.00	148.00	188.50	237.00	294.00	361.00	439.00			
15.0	85.80	113.00	146.50	186.50	234.00	291.00	358.00	436.00	527.00		
20.0	82.40	110.00	143.50	183.50	232.00	288.00	355.00	432.00	522.00	627.00	674.00
25.0	78.40	106.50	140.00	180.00	228.00	284.00	350.00	427.00	517.00	622.00	668.00
30.0	73.80	102.00	136.00	176.00	223.00	279.00	344.00	421.00	510.00	615.00	661.00
35.0	68.40	97.20	131.00	170.50	218.00	273.00	338.00	414.00	503.00	607.00	653.00
40.0		91.40	125.00	164.50	211.00	266.00	330.00	405.00	494.00	598.00	645.00
45.0		84.90	118.50	158.00	204.00	258.00	321.00	396.00	484.00	588.00	635.00
50.0		77.70	111.50	150.00	195.50	249.00	312.00	386.00	474.00	578.00	625.00
55.0			103.50	142.00	186.50	239.00	301.00	375.00	463.00	567.00	615.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	4
Displacement @ 50 Hz, m <sup>3</sup> /h	70.8
Bore/Stroke, mm	68.3/55.6
Length/Width, mm	670/535
Height, mm	495
Net Weight, kg	209
Gross Weight, kg	225
Suction, inch	2 1/8
Discharge, inch	1 1/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	3.3
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	381 x 305 (18)
Sound Pressure @ 1m (MT), dBA	71
Sound Power (MT), dBA	82
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	70
Sound Power (HT), dBA	81
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 55 / 20 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	41.5
Locked Rotor Current, A	199
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

**ACCESSORIES OPTIONAL**

Capacity Control	Capacity Steps 50%
Check Valve	For unloaded start operation
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Unloaded start	Available
Deep Oil Sump	Mounted
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Oil Pressure Switch	OPS2 Electronic Switch
Oil Control System	ALCO Trax-Oil OM3

**MOTOR OPTIONS**

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
AWM	380-420 V / 3~ / 50 Hz	400	YY/Y	Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
AWR	220-240 V / 3~ / 50 Hz	230	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	Y	0.76
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00
AWC	208-230 V / 3~ / 60 Hz	230	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00