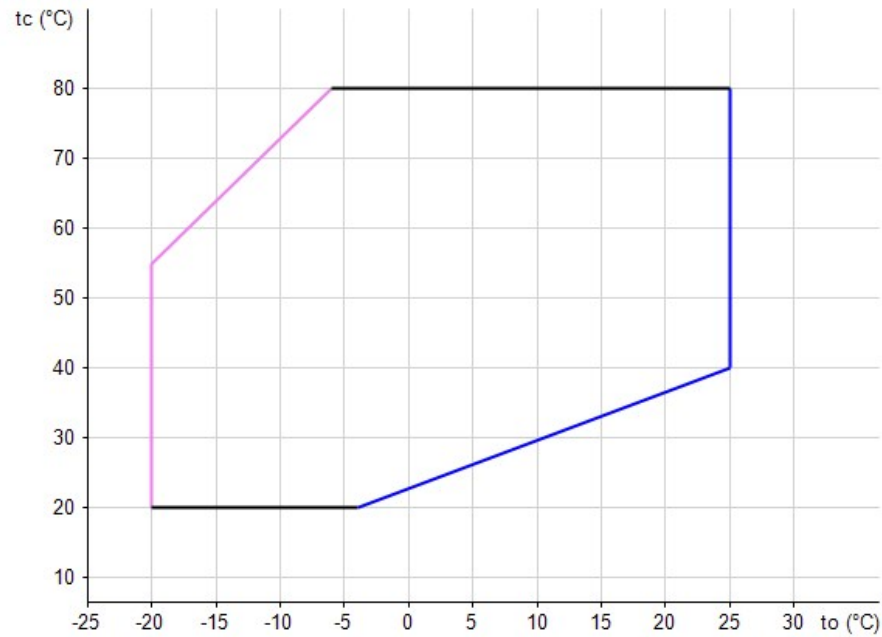




Minimum Evaporating Temp. With:

20 K Suction Superheat

Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
20.0	9.17	11.80	15.05	19.05								
25.0	8.63	11.20	14.35	18.20	22.80							
30.0	8.05	10.55	13.60	17.30	21.70	26.80	29.10	32.80				
35.0	7.44	9.85	12.80	16.30	20.50	25.40	27.60	31.20	34.40	37.80		
40.0	6.79	9.12	11.95	15.30	19.30	24.00	26.10	29.50	32.50	35.80	43.00	51.30
45.0	6.13	8.36	11.05	14.20	18.00	22.50	24.50	27.70	30.60	33.70	40.60	48.40
50.0	5.45	7.57	10.10	13.10	16.70	20.90	22.80	25.80	28.60	31.50	38.10	45.50
55.0	4.77	6.77	9.14	11.95	15.30	19.25	21.00	23.90	26.50	29.30	35.40	42.50
60.0		5.96	8.17	10.80	13.90	17.60	19.25	21.90	24.30	27.00	32.80	39.40
65.0			7.19	9.62	12.50	15.90	17.45	19.90	22.20	24.60	30.00	36.30
70.0			6.21	8.42	11.05	14.15	15.60	17.85	19.95	22.20	27.20	33.10
75.0				7.22	9.59	12.40	13.70	15.80	17.70	19.75	24.40	29.80
80.0				6.03	8.13	10.65	11.80	13.70	15.40	17.30	21.50	26.50

50 Hz

D3DC-100X

R134a

Cond °C	Power, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
20.0	3.00	3.17	3.25	3.24								
25.0	3.21	3.45	3.61	3.68	3.65							
30.0	3.40	3.70	3.94	4.09	4.15	4.10	4.05	3.93				
35.0	3.54	3.91	4.23	4.47	4.62	4.67	4.66	4.60	4.52	4.40		
40.0	3.65	4.09	4.48	4.80	5.04	5.19	5.22	5.23	5.21	5.15	4.93	4.56
45.0	3.72	4.23	4.69	5.10	5.43	5.68	5.75	5.82	5.85	5.85	5.76	5.52
50.0	3.75	4.32	4.86	5.35	5.77	6.12	6.23	6.37	6.46	6.51	6.54	6.43
55.0	3.74	4.38	4.99	5.56	6.07	6.51	6.67	6.87	7.01	7.13	7.27	7.29
60.0		4.38	5.07	5.72	6.32	6.86	7.05	7.32	7.52	7.69	7.96	8.10
65.0			5.10	5.83	6.53	7.16	7.40	7.73	7.98	8.21	8.59	8.87
70.0			5.09	5.90	6.68	7.41	7.69	8.08	8.39	8.67	9.18	9.58
75.0				5.92	6.78	7.61	7.92	8.38	8.74	9.09	9.71	10.25
80.0				5.88	6.83	7.75	8.11	8.63	9.04	9.44	10.20	10.85

Cond °C	Current at 400 V, A											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
20.0	8.73	8.90	8.97	8.89								
25.0	8.89	9.14	9.31	9.36	9.26							
30.0	9.03	9.36	9.63	9.80	9.83	9.70	9.59	9.35				
35.0	9.16	9.55	9.91	10.19	10.37	10.39	10.34	10.22	10.05	9.83		
40.0	9.25	9.71	10.16	10.55	10.85	11.02	11.05	11.03	10.96	10.83	10.40	9.68
45.0	9.33	9.85	10.37	10.86	11.29	11.61	11.70	11.78	11.80	11.78	11.55	11.07
50.0	9.38	9.95	10.55	11.14	11.68	12.14	12.29	12.47	12.58	12.65	12.63	12.38
55.0	9.41	10.02	10.69	11.36	12.02	12.61	12.82	13.10	13.30	13.46	13.65	13.62
60.0		10.06	10.79	11.55	12.31	13.03	13.30	13.67	13.96	14.20	14.58	14.77
65.0			10.85	11.69	12.55	13.39	13.72	14.18	14.54	14.88	15.45	15.85
70.0			10.88	11.79	12.74	13.70	14.08	14.63	15.07	15.48	16.23	16.84
75.0				11.84	12.88	13.95	14.38	15.01	15.52	16.02	16.95	17.75
80.0				11.85	12.97	14.14	14.62	15.33	15.91	16.49	17.58	18.58

50 Hz

D3DC-100X

R134a

Cond °C	Suction Mass Flow, g/s											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
20.0	55.00	69.50	87.00	108.00								
25.0	54.10	68.80	86.50	107.50	132.00							
30.0	52.90	67.90	85.70	106.50	131.00	159.00	171.50	191.50				
35.0	51.30	66.50	84.50	105.50	130.00	158.00	170.00	190.00	207.00	226.00		
40.0	49.50	64.80	82.90	104.00	128.00	156.00	168.50	188.00	205.00	224.00	264.00	309.00
45.0	47.20	62.80	80.90	102.00	126.00	154.00	166.00	185.50	203.00	221.00	261.00	306.00
50.0	44.70	60.40	78.50	99.40	123.50	151.00	163.00	182.50	200.00	218.00	258.00	303.00
55.0	41.80	57.60	75.70	96.50	120.50	148.00	160.00	179.00	196.00	214.00	254.00	298.00
60.0		54.50	72.50	93.20	117.00	144.00	156.00	175.00	191.50	210.00	249.00	293.00
65.0			68.90	89.30	112.50	139.50	151.00	170.00	187.00	205.00	244.00	288.00
70.0			64.80	85.00	108.00	134.50	146.00	164.50	181.00	199.00	238.00	281.00
75.0				80.10	102.50	128.50	140.00	158.50	175.00	192.50	231.00	274.00
80.0				74.60	96.80	122.50	133.50	151.50	168.00	185.00	223.00	267.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	3
Displacement @ 50 Hz, m³/h	38.0
Bore/Stroke, mm	60.4/50.8
Length/Width, mm	680/370
Height, mm	480
Net Weight, kg	164
Gross Weight, kg	175
Rotalock Discharge, inch	1 1/8
Suction, inch	1 3/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	3.7
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, dBA	69
Sound Power, dBA	80
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	20.5
Locked Rotor Current, A	121
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

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

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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
EWY	500-550 V / 3~ / 50 Hz	525	Y/DELTA	DELTA	0.76
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
TWY	500-550 V / 3~ / 50 Hz	525		DELTA	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
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