



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return + fan
- 20 K suction Superheat + fan
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Evaporating Temperature, °C

Liquid Subcooling 0.0K

Cond °C	Cooling Capacity, kW								
	45.0-	40.0-	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-
10.0	2.92	3.94	5.19	6.69	8.48	10.60	13.05	15.85	19.10
15.0	2.68	3.67	4.87	6.31	8.02	10.05	12.40	15.10	18.25
20.0	2.45	3.40	4.55	5.93	7.57	9.51	11.75	14.35	17.35
25.0	2.22	3.13	4.23	5.55	7.12	8.97	11.15	13.65	16.50
30.0	1.99	2.86	3.92	5.18	6.68	8.44	10.50	12.90	15.65
35.0	1.76	2.60	3.61	4.81	6.24	7.92	9.89	12.20	14.80
40.0		2.35	3.31	4.46	5.81	7.41	9.29	11.45	14.00
45.0		2.11	3.02	4.11	5.39	6.91	8.69		
50.0			2.74	3.77	4.99	6.42			
55.0			2.47	3.44	4.59	5.95			

50Hz

D2SA-450 Air

R22

Cond °C	Power, kW								
	45.0-	40.0-	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-
10.0	1.66	1.90	2.11	2.31	2.47	2.60	2.69	2.73	2.73
15.0	1.70	1.98	2.23	2.46	2.67	2.84	2.99	3.09	3.15
20.0	1.73	2.03	2.32	2.59	2.84	3.07	3.26	3.42	3.54
25.0	1.74	2.07	2.39	2.70	3.00	3.27	3.52	3.73	3.91
30.0	1.74	2.09	2.45	2.80	3.14	3.46	3.76	4.03	4.27
35.0	1.71	2.10	2.49	2.88	3.26	3.63	3.98	4.31	4.61
40.0		2.09	2.52	2.95	3.37	3.79	4.19	4.58	4.94
45.0		2.08	2.54	3.00	3.47	3.94	4.39		
50.0			2.54	3.05	3.56	4.07			
55.0			2.54	3.09	3.64	4.20			

Cond °C	Current at 400 V, A								
	45.0-	40.0-	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-
10.0	4.46	4.68	4.92	5.14	5.35	5.53	5.66	5.72	5.71
15.0	4.47	4.71	4.98	5.24	5.50	5.73	5.92	6.06	6.13
20.0	4.48	4.75	5.05	5.35	5.66	5.95	6.20	6.41	6.57
25.0	4.49	4.79	5.12	5.46	5.82	6.17	6.49	6.78	7.01
30.0	4.50	4.82	5.18	5.58	5.98	6.39	6.78	7.14	7.47
35.0	4.49	4.84	5.24	5.68	6.14	6.61	7.07	7.51	7.92
40.0		4.85	5.29	5.77	6.29	6.82	7.35	7.87	8.37
45.0		4.84	5.31	5.85	6.42	7.01	7.62		
50.0			5.32	5.90	6.53	7.19			
55.0			5.29	5.92	6.61	7.34			

Cond °C	Mass Flow, g/s								
	45.0-	40.0-	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-
10.0	13.60	18.35	24.20	31.30	39.80	49.90	61.60	75.30	91.20
15.0	12.85	17.60	23.40	30.40	38.80	48.70	60.30	73.90	89.60
20.0	12.10	16.80	22.50	29.40	37.70	47.50	59.00	72.40	88.00
25.0	11.30	15.95	21.60	28.40	36.60	46.30	57.60	70.90	86.40
30.0	10.45	15.10	20.70	27.40	35.50	45.00	56.30	69.40	84.70
35.0	9.60	14.20	19.75	26.40	34.30	43.70	54.80	67.90	83.10
40.0		13.30	18.75	25.30	33.10	42.40	53.40	66.30	81.40
45.0		12.40	17.80	24.30	32.00	41.20	52.00		
50.0			16.80	23.20	30.80	39.90			
55.0			15.85	22.20	29.70	38.60			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 50 Hz, m ³ /h	22.4
Bore/Stroke, mm	61.9/42.8
Length/Width, mm	560/330
Height, mm	395
Net Weight, kg	90
Gross Weight, kg	95
Suction, inch	1 1/8
Discharge, inch	7/8
Oil Quantity, l	2.4
Frequency Range, Hz	25 - 60
Oil type (original charge)	Suniso 3GS
Oil type (approved oils)	Suniso 3GS, TEXACO Capella WF 32, FUCHS Reniso KM
Base mounting (hole dia), mm	295 x 279 (14.0)
High Side PS, bar(g)	32.5
Low Side PS, bar(g)	22.5
Refrigerant's GWP	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	10.4
Locked Rotor Current, A	68.5
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	70 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
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
EWN	250-280 V / 3~ / 60 Hz	265	Y/DELTA	DELTA	1.73
EWN	440-480 V / 3~ / 60 Hz	460		Y	1.00
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00