



Minimum Evaporating Temp. With:

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

Suction Return Temperature 20.0°C

Evaporating Temperature, °C

Liquid Subcooling 0.0K

Cond °C	Cooling Capacity, kW						
	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-
10.0	11.65	15.20	19.45	24.50	30.30	37.00	44.60
15.0		14.20	18.25	23.00	28.60	35.00	42.40
20.0			17.05	21.60	27.00	33.10	40.20
25.0			15.90	20.30	25.30	31.20	37.90
30.0				18.90	23.70	29.30	35.80
35.0					22.20	27.50	33.60
40.0					20.60	25.70	31.50
45.0						23.90	29.40
50.0						22.20	27.40
55.0							25.40

Cond °C	Power, kW						
	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-
10.0	4.93	5.53	6.16	6.84	7.58	8.40	9.34
15.0		5.76	6.43	7.15	7.92	8.78	9.74
20.0			6.68	7.44	8.26	9.15	10.15
25.0			6.91	7.73	8.59	9.53	10.55
30.0				8.00	8.92	9.90	10.95
35.0					9.25	10.30	11.40
40.0					9.59	10.70	11.85
45.0						11.10	12.30
50.0						11.50	12.80
55.0							13.30

Cond °C	Current at 400 V, A						
	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-
10.0	11.09	12.14	13.15	14.14	15.14	16.18	17.27
15.0		12.49	13.51	14.54	15.59	16.69	17.86
20.0			13.90	14.96	16.07	17.25	18.51
25.0			14.28	15.40	16.58	17.84	19.21
30.0				15.84	17.10	18.46	19.94
35.0					17.62	19.09	20.69
40.0					18.11	19.70	21.45
45.0						20.30	22.19
50.0						20.86	22.91
55.0							23.59

Cond °C	Mass Flow, g/s						
	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-
10.0	54.30	71.20	91.30	115.00	143.00	175.50	213.00
15.0		68.30	88.20	111.50	139.50	171.50	208.00
20.0			84.90	108.00	135.50	167.00	204.00
25.0			81.60	104.50	131.00	162.50	198.50
30.0				100.50	127.00	158.00	193.50
35.0					123.00	153.00	188.50
40.0					118.50	148.50	183.50
45.0						144.00	178.00
50.0						139.00	173.00
55.0							168.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	3
Displacement @ 50 Hz, m <sup>3</sup> /h	49.9
Bore/Stroke, mm	61.9/63.5
Length/Width, mm	680/370
Height, mm	480
Net Weight, kg	163
Gross Weight, kg	178
Suction, inch	1 3/8
Discharge, inch	1 1/8
Oil Quantity, l	3.7
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	381 x 305 (18.0)
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	24.2
Locked Rotor Current, A	125
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
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Deep Oil Sump	Mounted
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3
Discharge Shut-off	valve

**MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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
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