



Minimum Evaporating Temp. With:

- █ 25 °C Suction Gas Return + fan
- █ Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Evaporating Temperature, °C

Liquid Subcooling 0.0K

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	12.5
30.0	1.39	1.97	2.74	3.70	4.85	6.20	7.77	9.55	11.55	13.75	14.75	16.25	17.55
35.0	1.22	1.76	2.49	3.40	4.49	5.77	7.26	8.94	10.85	12.95	13.85	15.30	16.55
40.0	1.06	1.57	2.25	3.10	4.14	5.35	6.75	8.35	10.15	12.15	13.05	14.40	15.60
45.0	0.91	1.38	2.02	2.82	3.80	4.94	6.27	7.78	9.48	11.40	12.20	13.50	14.65
50.0	0.76	1.21	1.80	2.56	3.47	4.55	5.79	7.22	8.83	10.60	11.40	12.60	13.70
55.0	0.63	1.05	1.60	2.30	3.16	4.16	5.34	6.67	8.19	9.88	10.60	11.75	12.75
60.0			1.41	2.06	2.86	3.80	4.89	6.15	7.56	9.15	9.84		
62.0			1.34	1.98	2.74	3.66	4.72	5.94	7.32	8.87	9.53		

50Hz

LF-301

R22

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	12.5
30.0	1.23	1.44	1.65	1.86	2.05	2.23	2.37	2.46	2.51	2.49	2.46	2.40	2.32
35.0	1.22	1.44	1.68	1.90	2.13	2.34	2.51	2.65	2.74	2.76	2.76	2.72	2.67
40.0	1.20	1.44	1.69	1.94	2.20	2.43	2.64	2.82	2.95	3.02	3.03	3.03	3.00
45.0	1.17	1.42	1.70	1.98	2.25	2.52	2.76	2.97	3.14	3.26	3.29	3.31	3.31
50.0	1.14	1.40	1.70	2.00	2.30	2.59	2.86	3.11	3.32	3.48	3.53	3.58	3.60
55.0	1.10	1.38	1.69	2.01	2.33	2.65	2.96	3.24	3.48	3.68	3.75	3.83	3.88
60.0			1.68	2.01	2.36	2.71	3.04	3.35	3.63	3.87	3.95		
62.0			1.67	2.02	2.37	2.72	3.07	3.39	3.69	3.94	4.03		

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	12.5
30.0	3.75	3.92	4.12	4.32	4.53	4.71	4.87	4.98	5.03	5.00	4.96	4.88	4.78
35.0	3.75	3.93	4.14	4.37	4.60	4.83	5.02	5.18	5.29	5.32	5.31	5.27	5.21
40.0	3.74	3.93	4.15	4.41	4.67	4.93	5.17	5.38	5.54	5.63	5.65	5.65	5.63
45.0	3.72	3.92	4.16	4.44	4.73	5.03	5.31	5.56	5.78	5.94	5.98	6.02	6.04
50.0	3.69	3.90	4.16	4.46	4.78	5.11	5.44	5.74	6.01	6.23	6.30	6.39	6.44
55.0	3.66	3.88	4.15	4.48	4.83	5.19	5.56	5.91	6.24	6.52	6.62	6.74	6.83
60.0			4.14	4.48	4.86	5.26	5.67	6.07	6.45	6.80	6.92		
62.0			4.13	4.48	4.87	5.29	5.71	6.14	6.54	6.91	7.04		

Cond °C	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	12.5
30.0	7.33	10.40	14.50	19.60	25.80	33.20	41.80	51.70	62.90	75.70	81.30	90.10	98.00
35.0	6.66	9.66	13.65	18.65	24.80	32.00	40.40	50.20	61.30	73.90	79.40	88.10	95.90
40.0	5.99	8.91	12.80	17.70	23.70	30.80	39.10	48.60	59.60	72.00	77.40	86.10	93.80
45.0	5.33	8.16	11.95	16.75	22.60	29.60	37.70	47.10	57.90	70.20	75.50	84.10	91.70
50.0	4.68	7.43	11.10	15.80	21.50	28.40	36.40	45.60	56.20	68.40	73.70	82.10	89.70
55.0	4.05	6.72	10.30	14.90	20.50	27.20	35.00	44.10	54.60	66.60	71.80	80.20	87.70
60.0			9.53	14.00	19.45	26.00	33.70	42.70	53.00	64.90	70.00		
62.0			9.23	13.65	19.05	25.60	33.20	42.10	52.40	64.20	69.40		

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	2
Displacement @ 50 Hz, m <sup>3</sup> /h	12.9
Bore/Stroke, mm	50.8/36.5
Length/Width, mm	460/330
Height, mm	385
Net Weight, kg	80
Gross Weight, kg	86
Suction, inch	7/8
Discharge, inch	5/8
Oil Quantity, l	2
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)
Sound Pressure @ 1m, dBA	51
Sound Power, dBA	62
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	7.2
Locked Rotor Current, A	53
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Mounting Springs	4
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### **ACCESSORIES OPTIONAL**

Additional Cooling	1 or 2 ways water Coil
Additional Cooling	70 W Vertical Air Flow Fan
Additional Cooling	25 W Horizontal Air Flow Fan
Crankcase Heater	70 W Internal
Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3

### **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>
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
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