



Minimum Evaporating Temp. With:	
<span style="color: magenta;">—</span> 10 K Suction Superheat	<span style="color: orange;">—</span> 20 K Suction Superheat
<span style="color: red;">—</span> 35 °C Suction Gas Return	<span style="color: green;">—</span> 5 K Suction Superheat Wet Injection OEM envelope
<span style="color: blue;">—</span> Maximum Evaporating Temperature	

Suction Superheat 11.1K

Liquid Subcooling 8.3K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW													
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	15.20	18.40	22.00	26.20	30.90	36.20								
15.0	14.85	18.05	21.70	25.90	30.60	35.80	41.60							
20.0	14.40	17.65	21.30	25.50	30.20	35.40	41.10	47.40						
25.0	13.90	17.15	20.90	25.00	29.70	34.80	40.50	46.80	49.40	53.60				
30.0	13.35	16.60	20.30	24.40	29.10	34.20	39.80	46.00	48.60	52.70	56.30	60.00		
35.0	12.70	15.95	19.65	23.80	28.40	33.40	39.00	45.10	47.70	51.70	55.20	58.90	66.60	
40.0	12.00	15.25	18.90	23.00	27.60	32.60	38.10	44.00	46.60	50.60	54.00	57.60	65.20	73.40
45.0		14.45	18.10	22.20	26.70	31.60	37.00	42.90	45.40	49.30	52.70	56.20	63.70	71.80
50.0			17.25	21.20	25.70	30.50	35.80	41.60	44.10	47.90	51.30	54.70	62.00	69.90
55.0				20.20	24.60	29.40	34.60	40.30	42.70	46.50	49.70	53.10	60.30	68.00
60.0					23.50	28.10	33.30	38.80	41.20	44.90	48.10	51.40	58.40	66.00
65.0						26.80	31.90	37.30	39.60	43.30	46.40	49.70		
68.0							26.00	31.00	36.40	38.70	42.20	45.30		

Cond °C	Power, kW													
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	4.99	5.02	5.04	5.06	5.09	5.11								
15.0	5.63	5.65	5.68	5.70	5.73	5.76	5.78							
20.0	6.26	6.28	6.30	6.33	6.36	6.40	6.43	6.46						
25.0	6.91	6.93	6.95	6.98	7.02	7.06	7.10	7.14	7.15	7.18				
30.0	7.62	7.64	7.66	7.69	7.73	7.77	7.82	7.87	7.89	7.91	7.94	7.96		
35.0	8.43	8.44	8.45	8.48	8.52	8.57	8.62	8.68	8.70	8.74	8.77	8.80	8.85	
40.0	9.36	9.36	9.37	9.40	9.44	9.49	9.55	9.61	9.64	9.68	9.72	9.75	9.82	9.89
45.0		10.45	10.45	10.45	10.50	10.55	10.65	10.70	10.75	10.75	10.80	10.85	10.95	11.00
50.0			11.70	11.75	11.75	11.80	11.90	11.95	12.00	12.05	12.10	12.15	12.25	12.35
55.0				13.20	13.25	13.30	13.35	13.45	13.50	13.55	13.60	13.65	13.75	13.85
60.0					14.95	15.00	15.10	15.15	15.20	15.25	15.30	15.40	15.50	15.65
65.0						17.00	17.10	17.20	17.25	17.30	17.35	17.40		
68.0							18.35	18.45	18.50	18.55	18.65	18.70		

Cond °C	Current at 400 V, A													
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	14.06	13.77	13.41	12.97	12.46	11.88								
15.0	16.40	16.24	16.01	15.72	15.36	14.94	14.47							
20.0	18.07	18.02	17.90	17.73	17.50	17.22	16.90	16.53						
25.0	19.23	19.26	19.25	19.17	19.06	18.89	18.69	18.46	18.35	18.19				
30.0	20.05	20.15	20.21	20.22	20.19	20.12	20.03	19.90	19.85	19.75	19.67	19.59		
35.0	20.70	20.85	20.95	21.02	21.06	21.07	21.06	21.03	21.01	20.98	20.95	20.92	20.85	
40.0	21.34	21.51	21.65	21.76	21.85	21.91	21.96	22.00	22.01	22.03	22.04	22.05	22.08	22.11
45.0		22.30	22.46	22.59	22.70	22.80	22.89	22.98	23.02	23.07	23.12	23.16	23.26	23.37
50.0			23.53	23.66	23.79	23.90	24.02	24.14	24.19	24.26	24.33	24.40	24.55	24.73
55.0				25.15	25.28	25.40	25.52	25.65	25.70	25.79	25.87	25.95	26.14	26.35
60.0					27.33	27.42	27.52	27.64	27.70	27.79	27.87	27.96	28.16	28.39
65.0						30.15	30.22	30.32	30.37	30.45	30.52	30.61		
68.0							32.15	32.20	32.27	32.31	32.38	32.45		

Cond °C	Suction Mass Flow, g/s													
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	65.60	80.60	98.30	119.00	143.00	171.00								
15.0	64.20	79.40	97.30	118.00	142.00	170.00	201.00							
20.0	62.60	77.90	95.90	117.00	141.00	168.50	200.00	236.00						
25.0	60.70	76.20	94.30	115.50	139.50	167.00	198.50	234.00	250.00	275.00				
30.0	58.60	74.20	92.40	113.50	137.50	165.00	196.50	232.00	248.00	272.00	295.00	318.00		
35.0	56.20	71.90	90.20	111.50	135.50	163.00	194.50	230.00	245.00	270.00	292.00	316.00	367.00	
40.0	53.60	69.40	87.70	109.00	133.00	160.50	192.00	227.00	243.00	267.00	290.00	313.00	365.00	423.00
45.0		66.60	85.00	106.00	130.00	157.50	189.00	224.00	240.00	265.00	287.00	310.00	362.00	421.00
50.0			81.90	103.00	127.00	154.50	186.00	221.00	237.00	261.00	284.00	307.00	359.00	418.00
55.0				99.60	123.50	151.00	182.50	218.00	233.00	258.00	280.00	304.00	356.00	416.00
60.0					120.00	147.50	178.50	214.00	230.00	254.00	277.00	300.00	353.00	413.00
65.0						143.00	174.50	210.00	225.00	250.00	273.00	297.00		
68.0							140.50	171.50	207.00	223.00	248.00	270.00		

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	24.9
Length/Width, mm	284/280
Height, mm	568
Net Weight, kg	64
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Stub Injection, inch	5/8
Oil Quantity, l	3.38
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (19)
Sound Pressure @ 1m (HT), dBA	66
Sound Power (HT), dBA	77
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	19.8
High Side PS gauge, bar	53
Low Side PS gauge, bar	29.5
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	33
Locked Rotor Current, A	174
Winding Resistance, ohm	0.83
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Enclosure Class	IP 54
Oil Charge	

**ACCESSORIES OPTIONAL**

Crankcase Heater	66 W External
Discharge Temp Protection	

**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>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TWD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TWD	460 V / 3~ / 60 Hz	460		Y	1.04