



Minimum Evaporating Temp. With:	
— 10 K Suction Superheat	— 20 K Suction Superheat
— 35 °C Suction Gas Return	— 5 K Suction Superheat Wet Injection OEM envelope
— Maximum Evaporating Temperature	— 5 K Suction Superheat

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	16.30	19.85	24.00	28.80	34.30	40.40								
15.0	16.40	19.95	24.10	28.80	34.20	40.20	46.80							
20.0	16.40	19.95	24.10	28.70	34.00	39.90	46.40	53.50						
25.0	16.30	19.85	23.90	28.50	33.70	39.40	45.80	52.80	55.80	60.40				
30.0	16.05	19.60	23.60	28.20	33.30	38.90	45.10	51.90	54.80	59.40	63.30	67.40		
35.0	15.70	19.20	23.20	27.70	32.70	38.20	44.30	50.90	53.80	58.20	62.00	66.00	74.50	
40.0	15.15	18.70	22.70	27.10	32.00	37.40	43.30	49.80	52.60	56.80	60.60	64.50	72.70	81.60
45.0		17.95	21.90	26.30	31.10	36.40	42.20	48.50	51.20	55.40	59.00	62.80	70.80	79.40
50.0			21.00	25.30	30.10	35.20	40.90	47.10	49.70	53.70	57.20	60.90	68.60	77.00
55.0				24.10	28.80	33.90	39.40	45.40	47.90	51.90	55.30	58.90	66.40	74.40
60.0					27.40	32.40	37.70	43.60	46.00	49.90	53.20	56.60	63.90	71.70
65.0						30.60	35.90	41.50	43.90	47.60	50.80	54.20		
68.0							29.40	34.60	40.20	42.50	46.20	49.30		

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	4.45	4.57	4.68	4.79	4.92	5.09								
15.0	5.57	5.69	5.79	5.87	5.97	6.09	6.24							
20.0	6.61	6.74	6.83	6.90	6.97	7.04	7.15	7.30						
25.0	7.59	7.74	7.83	7.90	7.95	8.00	8.07	8.17	8.22	8.31				
30.0	8.56	8.73	8.84	8.91	8.95	8.99	9.02	9.08	9.11	9.17	9.24	9.32		
35.0	9.55	9.75	9.89	9.97	10.00	10.05	10.05	10.10	10.10	10.15	10.15	10.20	10.35	
40.0	10.60	10.85	11.00	11.10	11.15	11.20	11.20	11.20	11.20	11.20	11.25	11.25	11.35	11.50
45.0		12.05	12.25	12.40	12.45	12.50	12.50	12.45	12.45	12.45	12.45	12.45	12.50	12.60
50.0			13.60	13.80	13.90	13.95	13.95	13.95	13.95	13.90	13.90	13.90	13.90	13.95
55.0				15.40	15.55	15.60	15.65	15.65	15.60	15.60	15.60	15.55	15.55	15.55
60.0					17.40	17.55	17.60	17.60	17.60	17.55	17.55	17.50	17.50	17.45
65.0						19.70	19.80	19.85	19.85	19.80	19.80	19.80		
68.0							21.20	21.30	21.30	21.30	21.30	21.30		

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	20.03	19.35	18.59	17.79	17.00	16.25								
15.0	20.65	20.20	19.64	19.04	18.41	17.81	17.27							
20.0	21.14	20.91	20.56	20.13	19.66	19.19	18.77	18.43						
25.0	21.57	21.55	21.39	21.12	20.80	20.46	20.14	19.88	19.80	19.72				
30.0	22.01	22.19	22.20	22.10	21.91	21.68	21.45	21.26	21.21	21.15	21.14	21.17		
35.0	22.52	22.89	23.07	23.11	23.05	22.92	22.78	22.65	22.61	22.58	22.58	22.61	22.78	
40.0	23.17	23.71	24.06	24.23	24.29	24.25	24.18	24.10	24.08	24.06	24.07	24.10	24.26	24.57
45.0		24.74	25.23	25.53	25.69	25.74	25.73	25.69	25.67	25.67	25.67	25.70	25.84	26.11
50.0			26.65	27.07	27.32	27.44	27.48	27.48	27.47	27.46	27.47	27.49	27.58	27.80
55.0				28.91	29.25	29.44	29.52	29.53	29.52	29.52	29.51	29.52	29.57	29.72
60.0					31.53	31.78	31.89	31.91	31.91	31.89	31.87	31.86	31.86	31.93
65.0						34.53	34.66	34.69	34.68	34.64	34.61	34.57		
68.0							36.39	36.54	36.56	36.55	36.50	36.45		

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	71.20	88.70	109.50	135.00	164.50	199.00								
15.0	71.70	89.20	110.00	134.50	163.50	197.50	237.00							
20.0	72.00	89.40	110.00	134.50	163.00	196.00	234.00	279.00						
25.0	71.80	89.20	110.00	134.00	162.00	194.50	232.00	275.00	294.00	325.00				
30.0	71.20	88.70	109.00	133.00	160.50	192.50	230.00	272.00	291.00	321.00	348.00	377.00		
35.0	70.10	87.60	108.00	132.00	159.00	191.00	227.00	269.00	287.00	316.00	343.00	371.00	435.00	
40.0	68.40	86.10	106.50	130.00	157.50	188.50	224.00	265.00	283.00	312.00	338.00	366.00	429.00	501.00
45.0		83.90	104.50	128.00	155.00	186.00	221.00	262.00	280.00	308.00	334.00	361.00	423.00	494.00
50.0			101.50	125.50	152.00	183.00	218.00	258.00	276.00	304.00	329.00	357.00	417.00	488.00
55.0				122.00	148.50	179.50	214.00	254.00	272.00	300.00	325.00	352.00	413.00	483.00
60.0					144.50	175.00	210.00	250.00	267.00	295.00	320.00	347.00	408.00	479.00
65.0						170.00	205.00	245.00	262.00	291.00	316.00	343.00		
68.0							166.50	202.00	242.00	259.00	287.00	313.00		

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	29.1
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	67
Sound Power (HT), dBA	78
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
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	37.4
Locked Rotor Current, A	168
Winding Resistance, ohm	0.76
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>
TWD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	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