



Minimum Evaporating Temp. With:

- 10 K Suction Superheat      — 10 K Suction Superheat OEM envelope
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

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	18.05	21.60	25.70	30.50	36.20	43.10								
15.0	16.70	20.30	24.30	29.00	34.50	41.00	48.70							
20.0	15.45	19.05	23.10	27.60	32.90	39.10	46.40	55.00						
25.0	14.15	17.85	21.90	26.30	31.40	37.30	44.20	52.40	61.80					
30.0	12.90	16.65	20.70	25.00	29.90	35.60	42.10	49.80	53.20	58.70	63.70	69.10		
35.0		15.40	19.40	23.70	28.40	33.80	40.00	47.20	50.40	55.60	60.30	65.30		
40.0			18.00	22.20	26.80	32.00	37.80	44.60	47.60	52.40	56.80	61.50	72.10	
45.0				20.70	25.10	30.00	35.50	41.90	44.70	49.20	53.30	57.70	67.50	78.90
50.0					23.20	27.90	33.10	39.00	41.60	45.80	49.70	53.70	62.90	73.40
55.0						25.50	30.40	35.90	38.30	42.20	45.80	49.50	58.00	67.70
60.0							27.30	32.50	34.70	38.30	41.50	45.00	52.70	61.60
65.0								23.80	28.50	30.50	33.80	36.70	39.80	46.80

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	4.94	4.98	5.01	5.03	5.03	5.01								
15.0	5.60	5.66	5.72	5.78	5.82	5.85	5.86							
20.0	6.26	6.33	6.41	6.50	6.58	6.65	6.70	6.73						
25.0	6.95	7.03	7.12	7.22	7.33	7.42	7.51	7.58	7.60	7.62				
30.0	7.73	7.79	7.88	7.99	8.10	8.21	8.32	8.42	8.46	8.50	8.53	8.56		
35.0		8.65	8.73	8.83	8.94	9.06	9.18	9.29	9.34	9.40	9.44	9.48		
40.0			9.70	9.78	9.87	9.99	10.10	10.25	10.30	10.35	10.40	10.45	10.55	
45.0				10.85	10.95	11.05	11.15	11.25	11.30	11.40	11.45	11.50	11.60	11.65
50.0					12.20	12.25	12.35	12.45	12.45	12.55	12.60	12.65	12.75	12.85
55.0						13.65	13.70	13.75	13.80	13.85	13.90	13.95	14.05	14.10
60.0							15.30	15.30	15.35	15.35	15.40	15.40	15.50	15.55
65.0								17.10	17.10	17.10	17.10	17.10	17.10	17.15

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	14.87	14.84	14.80	14.73	14.66	14.57								
15.0	15.58	15.63	15.66	15.67	15.67	15.65	15.64							
20.0	16.26	16.37	16.46	16.53	16.59	16.64	16.68	16.73						
25.0	16.98	17.14	17.27	17.39	17.50	17.59	17.68	17.77	17.81	17.87				
30.0	17.78	17.98	18.15	18.31	18.45	18.57	18.70	18.82	18.87	18.95	19.01	19.08		
35.0		18.96	19.16	19.34	19.50	19.65	19.79	19.93	19.99	20.08	20.15	20.23		
40.0			20.36	20.55	20.72	20.88	21.03	21.18	21.24	21.33	21.40	21.48	21.65	
45.0				22.00	22.16	22.32	22.46	22.61	22.67	22.75	22.83	22.90	23.06	23.23
50.0					23.90	24.04	24.17	24.29	24.34	24.42	24.48	24.55	24.69	24.84
55.0						26.10	26.20	26.29	26.33	26.39	26.43	26.48	26.59	26.71
60.0							28.62	28.67	28.69	28.72	28.75	28.77	28.83	28.90
65.0								31.50	31.49	31.49	31.48	31.48	31.48	31.48

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	89.00	105.00	123.50	145.00	171.00	201.00								
15.0	85.70	102.50	121.50	143.50	169.00	199.00	234.00							
20.0	82.60	100.50	120.50	142.50	167.50	197.50	232.00	272.00						
25.0	79.30	98.70	119.00	141.50	167.00	196.50	230.00	270.00	288.00	316.00				
30.0	75.70	96.60	118.00	141.00	166.50	196.00	229.00	268.00	286.00	314.00	339.00	366.00		
35.0		93.90	116.50	140.50	166.50	195.50	229.00	267.00	284.00	312.00	336.00	363.00		
40.0			114.50	139.50	166.00	195.00	228.00	266.00	283.00	310.00	334.00	360.00	419.00	
45.0				137.50	164.50	194.50	227.00	265.00	281.00	308.00	332.00	358.00	415.00	481.00
50.0					162.50	193.00	226.00	263.00	279.00	306.00	329.00	355.00	411.00	477.00
55.0						190.00	224.00	261.00	277.00	303.00	326.00	352.00	407.00	472.00
60.0							220.00	258.00	274.00	300.00	323.00	348.00	403.00	468.00
65.0								215.00	253.00	269.00	296.00	319.00	344.00	399.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	29.1
Length/Width, mm	314/285
Height, mm	552
Net Weight, kg	66.7
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.25
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (0)
Sound Pressure @ 1m (HT), dBA	68
Sound Power (HT), dBA	79
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	II
Max. Low Side Internal Free Volume, l	12.9
Max. High Side Internal Free Volume, l	1.5
Max. Internal Free Volume, l	14.4
High Side PS gauge, bar	45
Low Side PS gauge, bar	29.5
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
High Side TS Max., °C	150
High 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	34
Locked Rotor Current, A	173
Winding Resistance, ohm	0.83
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Enclosure Class	IP21
Motor Protection Device	INT69SCY2
Mounting Grommets	Hard Mounts for Paralleling
Oil Charge	
Oil Service Valve	Schraeder Valve
Digital Control	Integrated Solenoid Valve
Check Valve	Discharge Low Leak Check Valve

### **ACCESSORIES OPTIONAL**

Crankcase Heater	66 W External
Discharge Temp Protection	
Mounting Grommets	Rubber Grommet For Single
Digital Control	Digital Valve Coil 24V
Digital Control	Digital Valve Coil 230V
Adapter Kit	R1"1/4 -B 1"1/8 For TPTL for Parallel Operation

### **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