



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 5 K Suction Superheat
- Maximum Evaporating Temperature

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW														
	-35.0	-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															
15.0															
20.0											38.80				
25.0											37.10	40.30			
30.0											35.30	38.40			
35.0											33.50	36.40			
40.0											31.50	34.30			
45.0											29.50	32.00			
50.0											27.40	29.80			
55.0											25.20	27.40			
60.0											22.90	24.90			
65.0											20.60	22.30			
70.0											18.10	19.70			

50 Hz

YH23K1E-TFD

R454C Dew Point

Cond °C	Power, kW														
	-35.0	-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															
15.0															
20.0											5.11				
25.0											5.43	5.55			
30.0											5.82	5.93			
35.0											6.29	6.39			
40.0											6.83	6.93			
45.0											7.45	7.55			
50.0											8.16	8.25			
55.0											8.95	9.05			
60.0											9.84	9.94			
65.0											10.80	10.95			
70.0											11.90	12.00			

Cond °C	Current at 400 V, A														
	-35.0	-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															
15.0															
20.0											11.20				
25.0											11.52	11.66			
30.0											11.94	12.07			
35.0											12.47	12.58			
40.0											13.11	13.22			
45.0											13.88	13.99			
50.0											14.78	14.89			
55.0											15.81	15.94			
60.0											17.00	17.14			
65.0											18.34	18.50			
70.0											19.84	20.02			

Cond °C	Suction Mass Flow, g/s															
	-35.0	-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																
15.0																
20.0											210.00					
25.0											209.00	229.00				
30.0											208.00	228.00				
35.0											207.00	226.00				
40.0											205.00	224.00				
45.0											203.00	222.00				
50.0											200.00	219.00				
55.0											197.00	216.00				
60.0											193.50	212.00				
65.0											189.50	208.00				
70.0											185.00	204.00				

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	29.2
Length/Width, mm	284/289
Height, mm	551
Net Weight, kg	68.2
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.58
Oil type (original charge)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (0)
Sound Pressure @ 1m (HT), dBA	68
Sound Power (HT), dBA	79
Sound Power with Sound Shell (HT), dBA	69
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	3
Max. Low Side Internal Free Volume, l	12.6
Max. High Side Internal Free Volume, l	1.5
Max. Internal Free Volume, l	14.1
High Side PS gauge, bar	50
Low Side PS gauge, bar	30.4
Low Side TS Max., °C	55
Low Side TS Min., °C	-35
High Side TS Max., °C	150
High Side TS Min., °C	-35
Refrigerant's GWP	148
Refrigerant's classification	A2L

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

Maximum Operating Current, A	23
Locked Rotor Current, A	147
Winding Resistance, ohm	1.04
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED****ACCESSORIES OPTIONAL****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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04