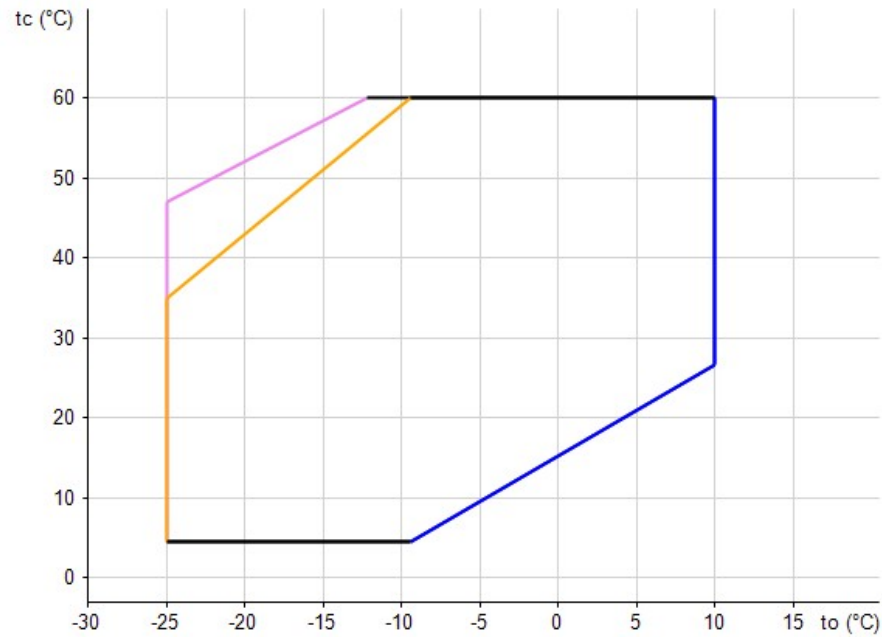




Minimum Evaporating Temp. With:

- 10 K Suction Superheat — 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	5.09	6.34	7.76	9.41					
5.0	5.09	6.33	7.75	9.41					
10.0	5.01	6.26	7.67	9.30	11.20				
15.0	4.85	6.10	7.50	9.10	10.95				
20.0	4.62	5.87	7.25	8.82	10.65	12.75			
25.0	4.34	5.58	6.94	8.47	10.25	12.30	14.70	15.75	
30.0	4.02	5.25	6.58	8.06	9.76	11.75	14.05	15.10	16.80
35.0	3.67	4.89	6.18	7.62	9.25	11.15	13.35	14.35	15.95
40.0		4.51	5.77	7.14	8.71	10.50	12.65	13.60	15.10
45.0			5.34	6.66	8.14	9.86	11.85	12.75	14.25
50.0			4.92	6.17	7.58	9.20	11.10	11.95	13.30
55.0				5.70	7.02	8.53	10.30	11.10	12.40
60.0					6.48	7.89	9.54	10.30	11.50

50 Hz

ZB30KCE-TFD

R449A Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	1.24	1.29	1.34	1.41					
5.0	1.24	1.30	1.35	1.41					
10.0	1.34	1.38	1.42	1.46	1.52				
15.0	1.47	1.50	1.54	1.57	1.61				
20.0	1.65	1.67	1.69	1.72	1.75	1.80			
25.0	1.86	1.88	1.90	1.91	1.94	1.96	2.02	2.04	
30.0	2.12	2.13	2.14	2.15	2.16	2.19	2.22	2.24	2.28
35.0	2.41	2.42	2.42	2.42	2.43	2.45	2.48	2.50	2.53
40.0		2.74	2.74	2.74	2.75	2.76	2.78	2.79	2.82
45.0			3.10	3.10	3.10	3.11	3.12	3.13	3.16
50.0			3.50	3.49	3.49	3.49	3.51	3.52	3.54
55.0				3.92	3.92	3.92	3.94	3.94	3.96
60.0					4.39	4.39	4.40	4.41	4.43

Cond °C	Current at 400 V, A								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	6.43	6.49	6.47	6.42					
5.0	6.39	6.45	6.43	6.39					
10.0	6.11	6.19	6.19	6.17	6.17				
15.0	5.98	6.07	6.09	6.08	6.09				
20.0	5.98	6.08	6.11	6.11	6.13	6.22			
25.0	6.13	6.23	6.26	6.26	6.28	6.36	6.56	6.68	
30.0	6.39	6.49	6.51	6.51	6.53	6.61	6.80	6.91	7.14
35.0	6.79	6.87	6.88	6.87	6.87	6.94	7.11	7.23	7.45
40.0		7.36	7.35	7.32	7.30	7.35	7.51	7.61	7.82
45.0			7.92	7.86	7.82	7.84	7.97	8.07	8.26
50.0			8.57	8.48	8.41	8.40	8.50	8.58	8.75
55.0				9.18	9.07	9.02	9.08	9.15	9.30
60.0					9.79	9.70	9.71	9.76	9.89

50 Hz

ZB30KCE-TFD

R449A Dew Point

Cond °C	Suction Mass Flow, g/s								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	22.80	28.50	35.00	42.70					
5.0	22.90	28.60	35.10	42.90					
10.0	23.30	29.20	35.90	43.80	53.20				
15.0	23.30	29.50	36.40	44.40	53.90				
20.0	23.00	29.40	36.50	44.70	54.30	65.70			
25.0	22.50	29.10	36.40	44.60	54.30	65.80	79.60	85.80	
30.0	21.70	28.50	35.90	44.30	54.10	65.70	79.50	85.80	96.20
35.0	20.80	27.80	35.30	43.80	53.60	65.30	79.20	85.50	96.00
40.0		26.90	34.60	43.10	53.00	64.70	78.70	85.00	95.60
45.0			33.70	42.40	52.30	64.00	78.00	84.40	95.00
50.0			32.90	41.60	51.50	63.30	77.40	83.80	94.50
55.0				40.90	50.90	62.70	76.80	83.30	94.10
60.0					50.50	62.30	76.60	83.20	94.10

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	11.7
Length/Width, mm	242/242
Height, mm	438
Net Weight, kg	35.4
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.9
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (MT), dBA	59
Sound Power (MT), dBA	70
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	4.30
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	10.3
Locked Rotor Current, A	49.3
Winding Resistance, ohm	3.7
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09