



Minimum Evaporating Temp. With:

— 10 K Suction Superheat

— Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	14.00	16.70	19.75	23.20	27.20	28.90			
25.0	13.25	16.00	19.10	22.60	26.60	28.30	31.00		
30.0	12.35	15.20	18.35	21.90	25.80	27.50	30.20	32.50	35.00
35.0	11.45	14.35	17.50	21.00	24.80	26.50	29.10	31.40	33.80
40.0	10.45	13.35	16.50	19.95	23.70	25.30	27.80	30.10	32.40
45.0	9.37	12.30	15.40	18.75	22.40	24.00	26.40	28.50	30.80
50.0		11.20	14.25	17.50	21.00	22.50	24.80	26.80	29.00
55.0		10.00	12.95	16.10	19.40	20.80	23.00	25.00	27.00
60.0			11.60	14.60	17.75	19.05	21.10	22.90	24.80
65.0			10.20	13.00	15.95	17.15	19.05	20.70	22.40
70.0				11.35	14.00	15.15	16.85	18.35	19.95
75.0				9.60	12.00	13.00	14.55	15.90	17.30

50 Hz

ZR144KCE-TFD

R134a

Cond °C	Power, kW								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	3.06	3.12	3.24	3.49	3.94	4.19			
25.0	3.36	3.41	3.48	3.64	3.96	4.15	4.51		
30.0	3.75	3.81	3.86	3.96	4.17	4.31	4.57	4.86	5.22
35.0	4.22	4.32	4.36	4.41	4.54	4.63	4.81	5.02	5.29
40.0	4.73	4.89	4.94	4.97	5.03	5.08	5.20	5.34	5.53
45.0	5.26	5.50	5.59	5.61	5.63	5.65	5.71	5.79	5.92
50.0		6.12	6.28	6.32	6.31	6.31	6.32	6.36	6.43
55.0		6.74	6.97	7.05	7.04	7.02	7.01	7.01	7.03
60.0			7.65	7.79	7.79	7.78	7.74	7.71	7.69
65.0			8.29	8.50	8.55	8.54	8.49	8.45	8.40
70.0				9.17	9.28	9.28	9.24	9.19	9.13
75.0				9.77	9.96	9.98	9.96	9.91	9.84

Cond °C	Current at 400 V, A								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	7.50	7.52	7.59	7.79	8.18	8.41			
25.0	8.09	8.11	8.16	8.30	8.61	8.80	9.16		
30.0	8.69	8.72	8.75	8.85	9.09	9.24	9.54	9.86	10.27
35.0	9.33	9.38	9.40	9.46	9.63	9.75	9.99	10.27	10.61
40.0	10.03	10.10	10.12	10.16	10.28	10.37	10.55	10.77	11.06
45.0	10.82	10.93	10.95	10.97	11.04	11.10	11.24	11.41	11.64
50.0		11.87	11.91	11.91	11.94	11.98	12.08	12.21	12.39
55.0		12.95	13.02	13.01	13.02	13.03	13.09	13.18	13.31
60.0			14.30	14.30	14.28	14.28	14.30	14.36	14.45
65.0			15.78	15.79	15.75	15.74	15.74	15.76	15.81
70.0				17.51	17.47	17.44	17.42	17.41	17.43
75.0				19.49	19.44	19.41	19.37	19.34	19.32

50 Hz

ZR144KCE-TFD

R134a

Cond °C	Suction Mass Flow, g/s								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	82.50	96.30	112.00	129.00	148.50	157.00			
25.0	81.30	96.40	113.00	131.00	151.00	160.00	173.50		
30.0	79.50	95.90	113.50	132.50	153.00	162.00	176.00	188.00	201.00
35.0	77.10	94.70	113.00	133.00	154.00	163.00	177.00	189.50	202.00
40.0	74.10	92.80	112.00	132.50	154.50	163.50	177.50	190.00	203.00
45.0	70.40	90.20	110.50	131.50	153.50	162.50	177.00	189.50	202.00
50.0		86.90	108.00	129.50	152.00	161.00	175.50	188.00	201.00
55.0		82.80	104.50	126.50	149.00	158.00	172.50	185.00	197.50
60.0			100.00	122.50	145.00	154.00	168.50	180.50	193.00
65.0			94.80	117.00	139.50	149.00	162.50	174.50	186.50
70.0				110.50	133.00	142.00	155.50	167.00	178.50
75.0				103.00	124.50	133.00	146.00	157.00	168.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	33.2
Length/Width, mm	281/285
Height, mm	533
Net Weight, kg	61.2
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, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	190 x 190 (0)
Sound Pressure @ 1m (HT), dBA	64
Sound Power (HT), dBA	75
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	52
Low Side TS Min., °C	-35
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	22.3
Locked Rotor Current, A	118
Winding Resistance, ohm	1.23
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Enclosure Class	IP21
Oil Service Valve	Schraeder Valve
Check Valve	Discharge Low Leak Check Valve
Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
Oil Charge	

ACCESSORIES OPTIONAL

Mounting Grommets	Rubber Grommet For Single
Adapter Kit	R1"1/4 -B 1"1/8 For TPTL for
Oil Control System	Parallel Operation
Sound Attenuation	ALCO Trax-Oil OM3
Mounting Grommets	Sound Shell (12dBA)
Crankcase Heater	Hard Mounts for Paralleling
Enclosure Class	90 W External IP66 With Molded Plug

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
TFE	500 V / 3~ / 50 Hz	500		Y	0.80
TW5	200-220 V / 3~ / 50 Hz	200		Y	2.30
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09
TW7	380 V / 3~ / 60 Hz	380		Y	1.26
TFE	575 V / 3~ / 60 Hz	575		Y	0.80
TF7	380 V / 3~ / 60 Hz	380		Y	1.26
TW5	200-230 V / 3~ / 60 Hz	230		Y	2.30