



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	16.35	21.80	27.90	34.70	42.50	51.60	55.50	62.00	67.70
30.0	15.50	20.90	26.90	33.70	41.40	50.30	54.20	60.50	66.20
35.0	13.95	19.40	25.30	32.00	39.50	48.10	51.90	58.00	63.50
40.0	12.15	17.60	23.50	30.10	37.40	45.90	49.60	55.50	60.80
45.0		15.60	21.50	28.00	35.20	43.50	47.10	52.80	58.00
50.0			19.25	25.70	32.80	40.90	44.40	50.00	55.10
55.0				23.20	30.20	38.10	41.50	47.00	51.90
60.0					27.30	35.10	38.40	43.80	48.60
65.0					24.10	31.70	35.00	40.30	45.00

50 Hz

ZRT188KC-TFD

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Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	7.19	7.16	7.17	7.23	7.34	7.49	7.56	7.69	7.80
30.0	7.69	7.67	7.70	7.76	7.88	8.03	8.10	8.22	8.33
35.0	8.63	8.63	8.66	8.72	8.83	8.96	9.02	9.13	9.22
40.0	9.74	9.73	9.75	9.79	9.87	9.96	10.00	10.10	10.15
45.0		11.00	11.00	11.00	11.05	11.05	11.10	11.15	11.15
50.0			12.45	12.40	12.35	12.30	12.30	12.30	12.30
55.0				14.00	13.85	13.75	13.70	13.60	13.55
60.0					15.60	15.35	15.30	15.15	15.00
65.0					17.60	17.25	17.10	16.85	16.65

Cond °C	Current at 400 V, A								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	16.40	16.18	16.02	15.95	16.01	16.26	16.42	16.73	17.06
30.0	16.98	16.86	16.76	16.73	16.81	17.04	17.18	17.46	17.76
35.0	18.04	18.06	18.05	18.07	18.15	18.33	18.44	18.66	18.90
40.0	19.29	19.43	19.50	19.54	19.59	19.71	19.78	19.92	20.08
45.0		21.08	21.20	21.24	21.25	21.27	21.29	21.35	21.42
50.0			23.25	23.27	23.21	23.12	23.08	23.04	23.01
55.0				25.73	25.59	25.36	25.25	25.09	24.95
60.0					28.47	28.08	27.90	27.60	27.35
65.0					31.96	31.39	31.12	30.68	30.29

Cond °C	Suction Mass Flow, g/s								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	95.50	125.50	158.50	195.00	236.00	283.00	304.00	337.00	366.00
30.0	92.60	123.50	156.50	193.50	235.00	282.00	303.00	336.00	365.00
35.0	86.50	118.50	153.00	190.50	233.00	280.00	301.00	334.00	364.00
40.0	78.60	112.50	148.00	186.50	229.00	278.00	298.00	332.00	362.00
45.0		104.00	141.00	181.00	225.00	274.00	295.00	329.00	359.00
50.0			132.50	174.00	219.00	269.00	291.00	326.00	356.00
55.0				164.50	212.00	263.00	286.00	321.00	352.00
60.0					202.00	255.00	278.00	314.00	346.00
65.0					188.50	244.00	268.00	306.00	339.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	44.2
Length/Width, mm	635/312
Height, mm	495
Net Weight, kg	122
Gross Weight, kg	132
Stub Suction, inch	1 5/8
Stub Discharge, inch	1 3/8
Oil Quantity, l	5.03
Oil type (original charge)	Suniso 3GS
Oil type (approved oils)	Suniso 3GS
Base mounting (hole dia), mm	546 x 190.5 (22.4)
Sound Pressure @ 1m (HT), dBA	67
Sound Power (HT), dBA	78
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	52
Refrigerant's GWP	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	2 x 15.6
Locked Rotor Current, A	2 x 95
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Enclosure Class	IP21
Oil Charge	
Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
Mounting Grommets	Rubber Grommet For Single
Oil Service Valve	Schraeder Valve
Check Valve	Discharge Low Leak Check Valve

50 Hz

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ACCESSORIES OPTIONAL

Mounting Grommets
 Sound Attenuation
 Crankcase Heater
 Enclosure Class
 Adapter Kit
 Oil Control System

Hard Mounts for Paralleling
 Sound Shell (12dBA)
 90 W External
 IP66 With Molded Plug
 R1"1/4 -B 1"1/8 For TPTL for
 Parallel Operation
 ALCO Trax-Oil OM3

MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00