



Minimum Evaporating Temp. With:	
■ 10 K Suction Superheat	■ 20 K Suction Superheat
■ 35 °C Suction Gas Return	■ 5 K Suction Superheat Wet Injection OEM envelope
■ 5 K Suction Superheat	■ 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	11.00	13.20	15.80	18.80	22.20	26.10								
15.0	11.00	13.30	15.95	19.00	22.50	26.40	30.70							
20.0	10.85	13.25	15.95	19.05	22.60	26.50	30.80	35.60						
25.0	10.65	13.10	15.85	19.00	22.50	26.40	30.70	35.40	37.50	40.60				
30.0	10.30	12.85	15.65	18.80	22.30	26.20	30.40	35.10	37.10	40.30	43.00	45.90		
35.0	9.90	12.45	15.30	18.45	22.00	25.80	30.00	34.60	36.60	39.70	42.40	45.20	51.10	
40.0	9.40	12.00	14.85	18.00	21.50	25.30	29.50	34.00	35.90	38.90	41.60	44.30	50.10	56.40
45.0		11.40	14.30	17.45	20.90	24.60	28.70	33.10	35.00	38.00	40.50	43.20	48.90	55.00
50.0			13.60	16.70	20.10	23.80	27.80	32.10	34.00	36.80	39.30	41.90	47.40	53.30
55.0				15.85	19.20	22.80	26.70	30.90	32.70	35.50	37.90	40.40	45.70	51.40
60.0					18.15	21.70	25.40	29.50	31.20	33.90	36.30	38.70	43.80	49.20
65.0						20.30	24.00	27.90	29.50	32.10	34.30	36.60		
68.0							19.60	23.10	26.90	28.50	31.00	33.20		

50 Hz

ZHI32K1P-TFD

R410A Dew Point

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	3.76	3.73	3.69	3.66	3.68	3.78								
15.0	4.36	4.34	4.29	4.24	4.21	4.24	4.36							
20.0	4.94	4.95	4.91	4.84	4.78	4.75	4.80	4.94						
25.0	5.52	5.57	5.55	5.48	5.40	5.34	5.33	5.39	5.44	5.56				
30.0	6.12	6.22	6.24	6.19	6.10	6.01	5.95	5.95	5.98	6.04	6.13	6.25		
35.0	6.74	6.92	6.99	6.97	6.89	6.80	6.71	6.65	6.65	6.67	6.71	6.78	7.03	
40.0	7.42	7.69	7.82	7.84	7.79	7.70	7.59	7.51	7.48	7.46	7.47	7.50	7.65	7.93
45.0		8.53	8.74	8.83	8.82	8.74	8.63	8.51	8.48	8.43	8.41	8.41	8.47	8.65
50.0			9.77	9.93	9.98	9.94	9.84	9.72	9.67	9.61	9.56	9.53	9.53	9.62
55.0				11.20	11.30	11.30	11.25	11.15	11.10	11.00	10.95	10.90	10.85	10.85
60.0					12.80	12.90	12.85	12.75	12.70	12.65	12.60	12.50	12.40	12.35
65.0						14.70	14.75	14.65	14.60	14.55	14.50	14.40		
68.0						15.80	15.85	15.80	15.75	15.65	15.60			

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	12.06	11.82	11.53	11.24	10.99	10.83								
15.0	12.71	12.56	12.33	12.07	11.82	11.63	11.55							
20.0	13.26	13.21	13.06	12.84	12.61	12.41	12.29	12.29						
25.0	13.76	13.83	13.76	13.60	13.40	13.20	13.05	13.00	13.01	13.09				
30.0	14.25	14.45	14.48	14.39	14.23	14.04	13.88	13.78	13.77	13.79	13.86	13.97		
35.0	14.76	15.11	15.25	15.25	15.14	14.98	14.81	14.67	14.64	14.63	14.65	14.71	14.98	
40.0	15.35	15.85	16.12	16.21	16.17	16.04	15.88	15.73	15.68	15.63	15.61	15.63	15.79	16.14
45.0		16.69	17.10	17.31	17.35	17.27	17.11	16.95	16.89	16.81	16.77	16.75	16.83	17.05
50.0			18.25	18.58	18.71	18.70	18.59	18.43	18.36	18.26	18.20	18.15	18.12	18.24
55.0				20.09	20.33	20.39	20.32	20.18	20.11	20.00	19.91	19.84	19.74	19.75
60.0					22.22	22.37	22.36	22.23	22.17	22.05	21.98	21.88	21.71	21.63
65.0						24.75	24.80	24.70	24.63	24.54	24.43	24.31		
68.0						26.19	26.26	26.18	26.11	25.99	25.90			

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	49.20	59.80	72.60	87.50	105.00	125.00								
15.0	49.10	60.20	73.40	88.70	106.50	126.50	150.00							
20.0	48.60	60.20	73.70	89.30	107.50	128.00	151.00	177.50						
25.0	47.80	59.70	73.50	89.50	107.50	128.50	152.00	178.50	190.00	208.00				
30.0	46.50	58.80	72.90	89.10	107.50	128.50	152.00	179.00	190.50	209.00	225.00	243.00		
35.0	44.90	57.50	71.80	88.20	107.00	128.00	151.50	178.50	190.00	209.00	225.00	243.00	281.00	
40.0	42.90	55.70	70.30	86.80	105.50	126.50	150.50	177.50	189.50	208.00	225.00	242.00	281.00	324.00
45.0		53.50	68.20	84.90	104.00	125.00	149.00	176.00	188.00	207.00	223.00	241.00	280.00	323.00
50.0			65.70	82.50	101.50	122.50	146.50	174.00	185.50	204.00	221.00	239.00	278.00	322.00
55.0				79.50	98.50	120.00	144.00	171.00	183.00	202.00	218.00	236.00	276.00	320.00
60.0					94.90	116.00	140.00	167.50	179.00	198.00	215.00	233.00	273.00	318.00
65.0						112.00	136.00	163.00	175.00	194.00	211.00	229.00		
68.0							109.50	133.50	160.50	172.50	191.50	208.00		

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	19.8
Length/Width, mm	280/280
Height, mm	533
Net Weight, kg	62.5
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Stub Injection, inch	5/8
Oil Quantity, l	3.38
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (19)
Sound Pressure @ 1m (HT), dBA	65
Sound Power (HT), dBA	76
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	12.6
High Side PS gauge, bar	53
Low Side PS gauge, bar	29.5
Low Side TS Max., °C	50
Low 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	26
Locked Rotor Current, A	140
Winding Resistance, ohm	1.1
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Oil Charge	
Enclosure Class	IP 54

### **ACCESSORIES OPTIONAL**

Discharge Temp Protection	
Crankcase Heater	66 W External

### **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