

50Hz

ZF41K5E-TFD EVI

R404A Dew Point



Minimum evaporating temp. with:

—— 20°C Suction Gas Return

- - - 0°C Suction Gas Return

— Voltage limit -5% above -7°C

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling included

Cond °C	Capacity kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
4											
10	11.30	13.85	16.80	20.30	24.30	28.90	34.20	40.20			
20	11.00	13.50	16.40	19.70	23.60	28.00	33.10	38.90	45.40	52.80	
30	10.60	13.00	15.80	19.00	22.70	26.90	31.70	37.20	43.40	50.40	53.40
35	10.35	12.75	15.45	18.55	22.10	26.20	30.90	36.20	42.20	49.00	52.00
40	10.10	12.45	15.10	18.10	21.50	25.50	30.00	35.20	41.00	47.60	50.50
45		12.10	14.65	17.60	20.90	24.70	29.10	34.00	39.70	46.10	
50		11.75	14.25	17.05	20.20	23.90	28.10	32.90	38.30		
54			13.80	16.50	19.60	23.10	27.20	31.80			
	Power Input kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
4											
10	4.34	4.67	4.96	5.22	5.45	5.67	5.90	6.13			
20	5.12	5.52	5.87	6.19	6.49	6.78	7.08	7.39	7.72	8.10	
30	6.10	6.56	6.98	7.37	7.74	8.10	8.47	8.85	9.26	9.71	9.90
35	6.68	7.17	7.63	8.05	8.46	8.85	9.26	9.67	10.10	10.60	10.80
40	7.32	7.85	8.34	8.80	9.24	9.68	10.10	10.55	11.05	11.60	11.80
45		8.61	9.13	9.63	10.10	10.55	11.05	11.55	12.05	12.65	
50		9.44	10.00	10.55	11.05	11.55	12.05	12.60	13.15		
54			10.85	11.40	11.95	12.50	13.05	13.60			
	Current 400V, A										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
4											
10	11.46	11.91	12.31	12.65	12.98	13.29	13.61	13.97			
20	12.47	13.06	13.59	14.08	14.53	14.98	15.45	15.94	16.49	17.10	
30	13.91	14.64	15.30	15.92	16.52	17.10	17.70	18.34	19.02	19.77	20.10
35	14.81	15.61	16.34	17.03	17.69	18.34	19.01	19.71	20.46	21.28	21.64
40	15.85	16.71	17.51	18.26	18.99	19.71	20.44	21.21	22.03	22.92	23.30
45		17.94	18.81	19.63	20.42	21.21	22.01	22.85	23.73	24.69	
50		19.33	20.26	21.14	22.00	22.86	23.73	24.63	25.58		
54			21.65	22.60	23.52	24.43	25.36	26.32			
	Mass Flow g/s										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
4											
10	51.40	65.20	81.50	100.50	124.00	152.00	185.00	224.00			
20	51.00	64.80	81.00	100.00	123.50	151.00	184.00	223.00	269.00	322.00	
30	50.10	63.80	80.00	99.00	122.00	149.00	182.00	221.00	266.00	319.00	342.00
35	49.50	63.10	79.00	98.00	120.50	148.00	180.00	219.00	264.00	316.00	340.00
40	48.90	62.20	78.00	96.50	119.00	146.00	178.00	216.00	261.00	313.00	337.00
45		61.20	76.50	95.00	117.50	144.00	176.00	214.00	258.00	310.00	
50		60.10	75.00	93.50	115.00	141.50	173.00	210.00	254.00		
54			73.80	91.50	113.00	139.00	170.00	207.00			

Preliminary Data

50Hz

ZF41K5E-TFD EVI

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Copeland Scroll - Compressor - Refrigeration - LT Vapour injection

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, cu.m/h	35.3
Length/Width, mm	280/280
Height, mm	534
Net Weight, kg	63.1
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
Base mounting (hole dia), mm	190 x 190 (0.0)
Sound Pressure @ 1m (LT), dBA	69
Sound Power (LT), dBA	80
Sound Power with Sound Shell (LT), dBA	70
High Side PS, bar(g)	32
Low Side PS, bar(g)	22.6

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

Maximum Operating Current, A	29
Locked Rotor Current, A	118
Winding Resistance, ohm	1.24/1.24/0 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	66W External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell
Rotalock valves	suction and discharge

MOTOR OPTIONS

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
380-420 V/3~/50H	400	TFD		Y	1.00
200 V/3~/50Hz	200	TWC		Y	2.09
380-420 V/3~/50H	400	TWD		Y	1.00
460 V/3~/60Hz	460	TWD		Y	1.04
208-230 V/3~/60H	230	TWC		Y	2.09
575 V/3~/60Hz	575	TWE		Y	0.80
380 V/3~/60Hz	380	TW7		Y	1.26