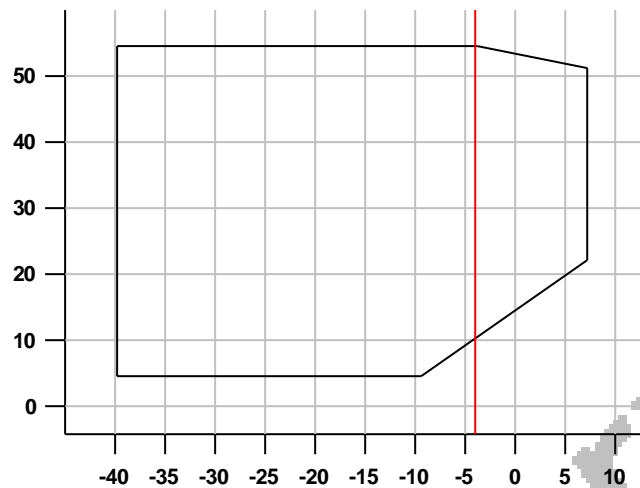


50Hz

ZF34K5E-TFD

R404A Dew Point



Minimum evaporating temp. with: — Voltage limit -5% above -4°C  
 — 20°C Suction Gas Return + Liquid Injection

Suction Return Temperature 20.0°C

**Evaporating Temperature °C**

Liquid subcooling 0.0K

Cond °C	Capacity kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
4											
10	7.48	9.39	11.70	14.45	17.65	21.50	25.80	30.90			
20	6.79	8.58	10.70	13.25	16.20	19.65	23.70	28.30	33.50	39.40	
30	6.04	7.70	9.64	11.90	14.55	17.65	21.20	25.40	30.10	35.40	37.70
35	5.65	7.23	9.06	11.20	13.70	16.60	19.95	23.80	28.30	33.30	35.50
40	5.26	6.75	8.46	10.45	12.80	15.50	18.60	22.20	26.40	31.10	33.20
45	4.86	6.25	7.84	9.68	11.80	14.30	17.20	20.60	24.40	28.80	30.80
50	4.45	5.74	7.20	8.88	10.85	13.10	15.75	18.85	22.40	26.50	28.30
54	4.09	5.29	6.62	8.16	9.94	12.00	14.45	17.30			
	Power Input kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
4											
10	3.10	3.28	3.48	3.71	3.95	4.22	4.50	4.78			
20	3.60	3.79	4.01	4.25	4.52	4.80	5.10	5.40	5.71	6.02	
30	4.18	4.40	4.66	4.93	5.23	5.55	5.87	6.21	6.55	6.89	7.03
35	4.51	4.75	5.03	5.33	5.65	5.98	6.33	6.69	7.05	7.42	7.56
40	4.87	5.14	5.43	5.76	6.10	6.47	6.84	7.23	7.61	8.00	8.16
45	5.25	5.55	5.88	6.24	6.61	7.00	7.41	7.82	8.24	8.66	8.82
50	5.68	6.01	6.37	6.76	7.16	7.59	8.03	8.47	8.93	9.38	9.56
54	6.08	6.44	6.84	7.25	7.70	8.15	8.62	9.10			
	Current 400V, A										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
4											
10	9.03	9.22	9.45	9.72	10.03	10.37	10.73	11.12			
20	9.60	9.83	10.10	10.41	10.76	11.14	11.55	11.97	12.41	12.85	
30	10.32	10.61	10.94	11.32	11.73	12.18	12.65	13.14	13.64	14.15	14.35
35	10.74	11.07	11.45	11.87	12.32	12.81	13.32	13.85	14.39	14.94	15.16
40	11.22	11.60	12.02	12.48	12.99	13.52	14.08	14.66	15.25	15.84	16.08
45	11.76	12.18	12.66	13.18	13.73	14.32	14.93	15.56	16.21	16.86	17.12
50	12.35	12.84	13.37	13.95	14.56	15.21	15.88	16.57	17.27	17.99	18.27
54	12.94	13.48	14.07	14.70	15.37	16.08	16.80	17.55			
	Mass Flow g/s										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
4											
10	41.70	52.40	65.50	81.00	100.00	122.00	148.00	178.00			
20	41.10	52.20	65.40	81.00	100.00	122.00	148.00	178.00	213.00	254.00	
30	40.30	51.60	64.90	80.50	99.00	121.00	147.00	177.00	212.00	254.00	272.00
35	39.90	51.20	64.40	80.00	98.50	120.00	146.00	176.00	211.00	253.00	271.00
40	39.40	50.70	63.90	79.50	97.50	119.00	144.50	175.00	210.00	252.00	270.00
45	38.80	50.20	63.30	78.50	96.50	118.00	143.50	173.00	209.00	251.00	270.00
50	38.30	49.60	62.60	77.50	95.50	116.50	142.00	172.00	207.00	250.00	269.00
54	37.90	49.20	62.00	77.00	94.50	115.50	140.50	170.00			

Preliminary Data

**50Hz**

**ZF34K5E-TFD**

**R404A Dew Point**

**Copeland Scroll - Compressor - Refrigeration - LT Liquid Injection**

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, cu.m/h	29.1
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	68
Sound Power (LT), dBA	79
Sound Power with Sound Shell (LT), dBA	69
High Side PS, bar(g)	32
Low Side PS, bar(g)	22.6

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

Maximum Operating Current, A	25
Locked Rotor Current, A	100
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**

<b>Power Supply</b>	<b>Nominal Voltage</b>	<b>Motor Code</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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