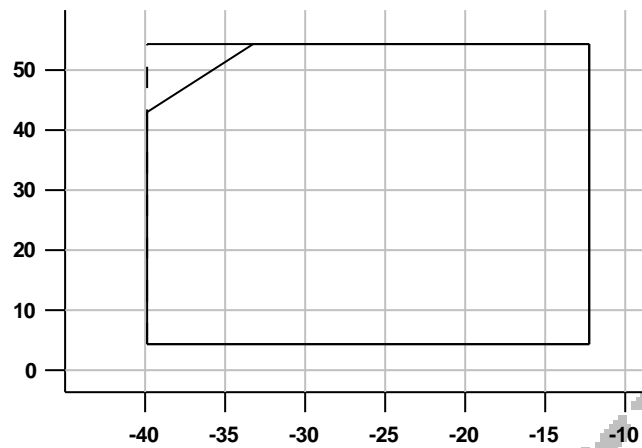


**50Hz**

**ZF49K5E-TFD EVI**

**R404A Dew Point**



Minimum evaporating temp. with:

———— 20°C Suction Gas Return

- - - - 0°C Suction Gas Return

Suction Return Temperature 20.0°C

**Evaporating Temperature °C**

Liquid subcooling included

Cond °C	Capacity kW					
	-40	-35	-30	-25	-20	-15
4						
10	12.80	15.70	19.05	23.00	27.60	32.80
20	12.45	15.30	18.60	22.40	26.70	31.70
30	12.05	14.75	17.90	21.50	25.70	30.50
35	11.75	14.45	17.50	21.10	25.10	29.70
40	11.50	14.10	17.10	20.50	24.50	28.90
45		13.70	16.60	19.95	23.80	28.10
50		13.30	16.10	19.30	23.00	27.20
54			15.65	18.75	22.30	26.30
	Power Input kW					
	-40	-35	-30	-25	-20	-15
4						
10	5.04	5.43	5.77	6.06	6.33	6.59
20	5.95	6.41	6.83	7.20	7.55	7.89
30	7.09	7.63	8.12	8.57	9.00	9.42
35	7.76	8.34	8.87	9.36	9.83	10.30
40	8.51	9.13	9.70	10.25	10.75	11.25
45		10.00	10.60	11.20	11.75	12.30
50		10.95	11.60	12.25	12.85	13.45
54			12.60	13.25	13.90	14.50
	Current 400V, A					
	-40	-35	-30	-25	-20	-15
4						
10	11.59	12.03	12.42	12.77	13.11	13.43
20	12.61	13.20	13.73	14.22	14.69	15.15
30	14.06	14.79	15.46	16.09	16.69	17.28
35	14.97	15.76	16.50	17.20	17.87	18.53
40	16.00	16.87	17.68	18.45	19.18	19.91
45		18.12	19.00	19.83	20.63	21.42
50		19.52	20.46	21.36	22.23	23.09
54			21.88	22.84	23.77	24.68
	Mass Flow g/s					
	-40	-35	-30	-25	-20	-15
4						
10	58.40	73.70	92.00	114.50	141.00	172.00
20	57.90	73.30	91.50	114.00	140.00	171.00
30	57.00	72.20	90.50	112.50	138.50	169.00
35	56.30	71.40	89.50	111.00	137.00	168.00
40	55.50	70.40	88.00	109.50	135.50	166.00
45		69.20	87.00	108.00	133.50	164.00
50		67.90	85.50	106.00	131.00	161.00
54			83.50	104.00	129.00	158.00

Preliminary Data

**Copeland Scroll - Compressor - Refrigeration - LT Vapour injection**

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, cu.m/h	42.4
Length/Width, mm	280/280
Height, mm	552
Net Weight, kg	66.2
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	72
Sound Power (LT), dBA	83
Sound Power with Sound Shell (LT), dBA	73
High Side PS, bar(g)	32
Low Side PS, bar(g)	22.6

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

Maximum Operating Current, A	30
Locked Rotor Current, A	139
Winding Resistance, ohm	1.09/1.09/0 (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
380-420 V/3~/50H	400	TWD		Y	1.00
200 V/3~/50Hz	200	TWC		Y	2.09
220-240 V/3~/50H	230	TWR		Y	1.73
380 V/3~/60Hz	380	TW7		Y	1.26
208-230 V/3~/60H	230	TWC		Y	2.09
575 V/3~/60Hz	575	TWE		Y	0.80
460 V/3~/60Hz	460	TWD		Y	1.04