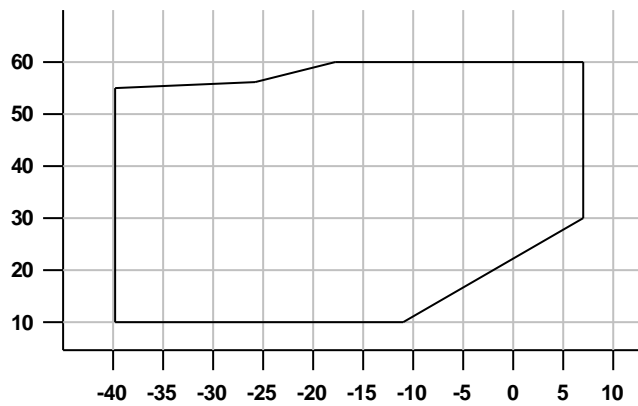


50Hz

ZF15K4E-TFD

R404A



Minimum evaporating temp. with:

———— 25°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 |
| 10 | 3,77 | 4,75 | 5,95 | 7,39 | 9,10 | 11,10 | | | | | |
| 20 | 3,43 | 4,34 | 5,43 | 6,74 | 8,27 | 10,05 | 12,15 | 14,50 | | | |
| 30 | 3,07 | 3,89 | 4,87 | 6,03 | 7,38 | 8,96 | 10,80 | 12,85 | 15,25 | 17,95 | 19,10 |
| 35 | 2,89 | 3,66 | 4,58 | 5,65 | 6,92 | 8,39 | 10,10 | 12,05 | 14,25 | 16,75 | 17,85 |
| 40 | 2,70 | 3,42 | 4,27 | 5,27 | 6,43 | 7,79 | 9,36 | 11,15 | 13,25 | 15,55 | 16,60 |
| 45 | 2,51 | 3,18 | 3,96 | 4,87 | 5,93 | 7,18 | 8,61 | 10,25 | 12,15 | 14,35 | 15,30 |
| 50 | 2,31 | 2,92 | 3,63 | 4,46 | 5,42 | 6,55 | 7,85 | 9,36 | 11,10 | 13,05 | 13,95 |
| 55 | 2,11 | 2,67 | 3,30 | 4,04 | 4,90 | 5,90 | 7,07 | 8,42 | 9,99 | 11,80 | 12,60 |
| 60 | | | | | | 5,23 | 6,26 | 7,46 | 8,86 | 10,45 | 11,20 |
| | Power Input kW | | | | | | | | | | |
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 7 |
| 10 | 1,55 | 1,64 | 1,74 | 1,88 | 2,05 | 2,27 | | | | | |
| 20 | 1,85 | 1,94 | 2,04 | 2,17 | 2,31 | 2,50 | 2,73 | 3,00 | | | |
| 30 | 2,23 | 2,34 | 2,44 | 2,56 | 2,70 | 2,86 | 3,06 | 3,30 | 3,59 | 3,93 | 4,08 |
| 35 | 2,45 | 2,57 | 2,69 | 2,81 | 2,95 | 3,10 | 3,29 | 3,51 | 3,78 | 4,10 | 4,24 |
| 40 | 2,69 | 2,83 | 2,96 | 3,09 | 3,23 | 3,38 | 3,56 | 3,77 | 4,03 | 4,32 | 4,46 |
| 45 | 2,95 | 3,11 | 3,25 | 3,40 | 3,54 | 3,70 | 3,88 | 4,08 | 4,32 | 4,60 | 4,73 |
| 50 | 3,24 | 3,42 | 3,59 | 3,74 | 3,90 | 4,06 | 4,24 | 4,44 | 4,67 | 4,93 | 5,05 |
| 55 | 3,55 | 3,76 | 3,95 | 4,12 | 4,29 | 4,46 | 4,65 | 4,84 | 5,07 | 5,32 | 5,43 |
| 60 | | | | | | 4,91 | 5,10 | 5,30 | 5,52 | 5,77 | 5,88 |
| | Current 400V, A | | | | | | | | | | |
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 7 |
| 10 | 5,49 | 5,55 | 5,63 | 5,73 | 5,85 | 6,01 | | | | | |
| 20 | 5,65 | 5,73 | 5,82 | 5,93 | 6,07 | 6,23 | 6,43 | 6,67 | | | |
| 30 | 5,90 | 6,01 | 6,13 | 6,26 | 6,41 | 6,59 | 6,79 | 7,03 | 7,30 | 7,63 | 7,77 |
| 35 | 6,08 | 6,21 | 6,34 | 6,49 | 6,65 | 6,83 | 7,03 | 7,27 | 7,55 | 7,87 | 8,02 |
| 40 | 6,30 | 6,45 | 6,60 | 6,75 | 6,93 | 7,11 | 7,33 | 7,57 | 7,85 | 8,17 | 8,32 |
| 45 | 6,57 | 6,73 | 6,90 | 7,07 | 7,26 | 7,46 | 7,68 | 7,93 | 8,21 | 8,54 | 8,68 |
| 50 | 6,89 | 7,07 | 7,26 | 7,45 | 7,65 | 7,86 | 8,09 | 8,35 | 8,64 | 8,96 | 9,10 |
| 55 | 7,26 | 7,47 | 7,68 | 7,89 | 8,10 | 8,33 | 8,57 | 8,84 | 9,13 | 9,46 | 9,60 |
| 60 | | | | | | 8,86 | 9,12 | 9,40 | 9,70 | 10,04 | 10,18 |
| | Mass Flow g/s | | | | | | | | | | |
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 7 |
| 10 | 21,10 | 26,60 | 33,50 | 41,80 | 51,60 | 63,30 | | | | | |
| 20 | 20,90 | 26,50 | 33,30 | 41,50 | 51,20 | 62,70 | 76,00 | 92,00 | | | |
| 30 | 20,60 | 26,20 | 32,90 | 40,90 | 50,50 | 61,70 | 74,90 | 90,00 | 108,00 | 129,00 | 138,50 |
| 35 | 20,50 | 26,00 | 32,70 | 40,60 | 50,00 | 61,00 | 74,00 | 89,50 | 107,00 | 128,00 | 137,00 |
| 40 | 20,30 | 25,80 | 32,40 | 40,20 | 49,40 | 60,30 | 73,10 | 88,00 | 106,00 | 126,50 | 136,00 |
| 45 | 20,10 | 25,60 | 32,10 | 39,70 | 48,70 | 59,40 | 72,10 | 87,00 | 104,50 | 125,50 | 134,50 |
| 50 | 20,00 | 25,40 | 31,70 | 39,20 | 48,00 | 58,50 | 71,00 | 85,50 | 103,00 | 124,00 | 133,00 |
| 55 | 19,90 | 25,20 | 31,40 | 38,70 | 47,30 | 57,60 | 69,80 | 84,50 | 102,00 | 122,50 | 132,00 |
| 60 | | | | | | 56,70 | 68,80 | 83,50 | 100,50 | 122,00 | 131,50 |

Copeland Scroll - Compressor - Refrigeration - Standard
COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|-----------------------------------|-----------------|
| Displacement @ 50 Hz, cu.m/h | 14.5 |
| Length/Width, mm | 241/244 |
| Height, mm | 458 |
| Net Weight, kg | 39 |
| Gross Weight, kg | 42 |
| Rotalock Suction, inch | 1 1/4 |
| Rotalock Discharge, inch | 1 |
| Oil Quantity, l | 1.9 |
| Base mounting (hole dia), mm | 190 x 190 (8.5) |
| Sound Pressure @ 1m, dBA | 65 |
| Sound Power, dBA | 76 |
| Sound Power with Sound Shell, dBA | 66 |
| PED Category | 1 |
| High Side PS, bar(g) | 28.8 |
| Low Side PS, bar(g) | 21 |
| Low Side TS Max., °C | 50 |
| Internal Free Volume, l | 5.9 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 10 |
| Locked Rotor Current, A | 64 |
| Winding Resistance, ohm | 2.8 |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|----------------------------------|---------------------|
| Discharge Temperature Protection | External Thermostat |
| Mounting Grommets | Standard |

ACCESSORIES OPTIONAL

| | |
|-----------------------|-----------------------|
| Crankcase Heater | 70W External |
| Current Sensing Relay | External |
| Liquid Injection | DTC Valve |
| Oil Control System | ALCO Trax-Oil OM3 |
| Sound Attenuation | Sound Shell (10dBA) |
| 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 |
| 200-220 V/3~/50H | 200 | TF5 | | Y | 2,09 |
| 200-230 V/3~/60H | 230 | TF5 | | Y | 2,09 |
| 380 V/3~/60Hz | 380 | TF7 | | Y | 1,26 |
| 460 V/3~/60Hz | 460 | TFD | | Y | 1,04 |