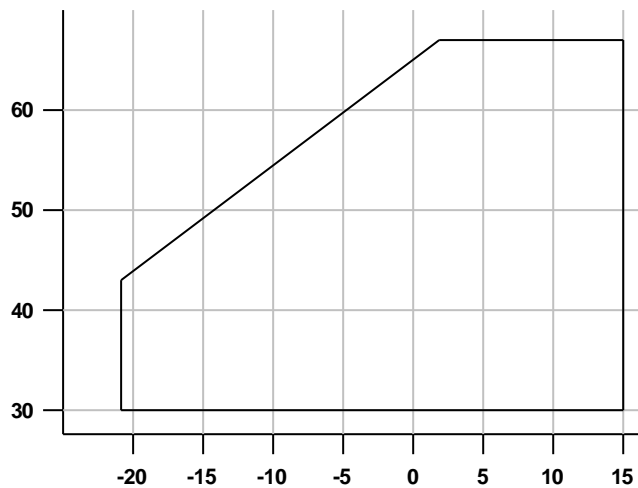


50Hz

ZR28K3E-TFD

R407C Dew Point



Minimum evaporating temp. with:
 ——— 10K Suction Superheat

Suction Superheat 10,0K

Evaporating Temperature °C

Liquid subcooling 0,0K

| Cond °C | Capacity kW | | | | | | | | | |
|---------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -20 | -15 | -10 | -5 | 0 | 5 | 7 | 10 | 12,5 | 15 |
| 30 | 2,34 | 3,03 | 3,87 | 4,88 | 6,04 | 7,35 | 7,92 | 8,83 | 9,62 | 10,45 |
| 35 | 2,22 | 2,88 | 3,69 | 4,66 | 5,78 | 7,06 | 7,61 | 8,49 | 9,27 | 10,10 |
| 40 | 2,08 | 2,70 | 3,47 | 4,39 | 5,47 | 6,71 | 7,24 | 8,09 | 8,85 | 9,64 |
| 45 | | 2,50 | 3,22 | 4,10 | 5,13 | 6,31 | 6,82 | 7,64 | 8,37 | 9,13 |
| 50 | | | 2,96 | 3,78 | 4,75 | 5,88 | 6,37 | 7,15 | 7,85 | 8,58 |
| 55 | | | | 3,45 | 4,36 | 5,42 | 5,88 | 6,63 | 7,29 | 7,99 |
| 60 | | | | | 3,96 | 4,95 | 5,38 | 6,09 | 6,71 | 7,38 |
| 65 | | | | | 3,56 | 4,47 | 4,88 | 5,53 | 6,12 | 6,74 |
| 67 | | | | | | 4,28 | 4,67 | 5,31 | 5,88 | 6,48 |
| | Power Input kW | | | | | | | | | |
| | -20 | -15 | -10 | -5 | 0 | 5 | 7 | 10 | 12,5 | 15 |
| 30 | 1,22 | 1,21 | 1,21 | 1,20 | 1,19 | 1,18 | 1,17 | 1,16 | 1,15 | 1,13 |
| 35 | 1,37 | 1,37 | 1,37 | 1,37 | 1,36 | 1,34 | 1,34 | 1,32 | 1,30 | 1,28 |
| 40 | 1,55 | 1,55 | 1,56 | 1,55 | 1,54 | 1,53 | 1,52 | 1,50 | 1,48 | 1,45 |
| 45 | | 1,76 | 1,76 | 1,76 | 1,75 | 1,73 | 1,72 | 1,70 | 1,67 | 1,65 |
| 50 | | | 2,00 | 2,00 | 1,99 | 1,96 | 1,95 | 1,92 | 1,90 | 1,87 |
| 55 | | | | 2,26 | 2,25 | 2,23 | 2,21 | 2,18 | 2,15 | 2,12 |
| 60 | | | | | 2,55 | 2,52 | 2,50 | 2,47 | 2,44 | 2,40 |
| 65 | | | | | 2,88 | 2,85 | 2,83 | 2,80 | 2,77 | 2,73 |
| 67 | | | | | | 3,00 | 2,98 | 2,94 | 2,91 | 2,86 |
| | Current 400V, A | | | | | | | | | |
| | -20 | -15 | -10 | -5 | 0 | 5 | 7 | 10 | 12,5 | 15 |
| 30 | 2,75 | 2,74 | 2,74 | 2,74 | 2,73 | 2,72 | 2,71 | 2,69 | 2,66 | 2,63 |
| 35 | 2,91 | 2,91 | 2,91 | 2,91 | 2,91 | 2,89 | 2,88 | 2,85 | 2,83 | 2,79 |
| 40 | 3,11 | 3,11 | 3,12 | 3,12 | 3,11 | 3,09 | 3,08 | 3,05 | 3,02 | 2,98 |
| 45 | | 3,36 | 3,37 | 3,37 | 3,36 | 3,34 | 3,32 | 3,29 | 3,26 | 3,21 |
| 50 | | | 3,67 | 3,67 | 3,66 | 3,63 | 3,61 | 3,58 | 3,54 | 3,49 |
| 55 | | | | 4,02 | 4,01 | 3,97 | 3,95 | 3,91 | 3,87 | 3,81 |
| 60 | | | | | 4,41 | 4,37 | 4,35 | 4,30 | 4,25 | 4,19 |
| 65 | | | | | 4,88 | 4,83 | 4,80 | 4,75 | 4,70 | 4,63 |
| 67 | | | | | | 5,03 | 5,01 | 4,95 | 4,89 | 4,83 |
| | Mass Flow g/s | | | | | | | | | |
| | -20 | -15 | -10 | -5 | 0 | 5 | 7 | 10 | 12,5 | 15 |
| 30 | 13,70 | 17,40 | 21,90 | 27,20 | 33,10 | 39,80 | 42,60 | 47,10 | 51,00 | 55,10 |
| 35 | 13,60 | 17,40 | 21,90 | 27,20 | 33,20 | 39,90 | 42,80 | 47,30 | 51,30 | 55,50 |
| 40 | 13,50 | 17,10 | 21,60 | 26,90 | 33,00 | 39,80 | 42,70 | 47,30 | 51,30 | 55,50 |
| 45 | | 16,70 | 21,20 | 26,40 | 32,50 | 39,30 | 42,30 | 46,90 | 51,00 | 55,30 |
| 50 | | | 20,60 | 25,80 | 31,90 | 38,70 | 41,70 | 46,40 | 50,50 | 54,80 |
| 55 | | | | 25,10 | 31,10 | 38,00 | 40,90 | 45,60 | 49,80 | 54,10 |
| 60 | | | | | 30,30 | 37,10 | 40,00 | 44,80 | 48,90 | 53,30 |
| 65 | | | | | 29,40 | 36,10 | 39,10 | 43,80 | 48,00 | 52,40 |
| 67 | | | | | | 35,80 | 38,80 | 43,50 | 47,70 | 52,10 |

Copeland Scroll - Compressor - Air Conditioning - Standard

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|-------------------------------|-----------------|
| Displacement @ 50 Hz, cu.m/h | 6.83 |
| Length/Width, mm | 242/242 |
| Height, mm | 363 |
| Net Weight, kg | 25 |
| Gross Weight, kg | 29 |
| Stub Suction, inch | 3/4 |
| Stub Discharge, inch | 1/2 |
| Oil Quantity, l | 1 |
| Base mounting (hole dia), mm | 190 x 190 (8.5) |
| Sound Pressure @ 1m (HT), dBA | 54 |
| Sound Power (HT), dBA | 65 |
| PED Category | 1 |
| Internal Free Volume, l | 2.9 |
| High Side PS, bar(g) | 29.5 |
| Low Side PS, bar(g) | 20 |
| Low Side TS Max., °C | 50 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 5.1 |
| Locked Rotor Current, A | 32 |
| Winding Resistance, ohm | 5.94 |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|----------------------------------|---------------------|
| Discharge Temperature Protection | Internal Thermodisk |
| Mounting Grommets | Standard |

ACCESSORIES OPTIONAL

| | |
|------------------|---------------|
| Crankcase Heater | 70 W External |
|------------------|---------------|

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 |
| 460 V/3~/60Hz | 460 | TFD | | Y | 1,04 |