



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

| Cond<br>°C | Cooling Capacity, kW |       |       |       |       |       |       |       |       |       |
|------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | -20.0                | -15.0 | -10.0 | -5.0  | 0.0   | 5.0   | 7.0   | 10.0  | 12.5  | 15.0  |
| 30.0       | 4.43                 | 6.25  | 8.35  | 10.80 | 13.70 | 17.05 | 18.55 | 21.00 |       |       |
| 35.0       | 4.07                 | 5.82  | 7.84  | 10.20 | 12.95 | 16.20 | 17.60 | 19.95 | 22.00 |       |
| 40.0       | 3.71                 | 5.40  | 7.33  | 9.58  | 12.20 | 15.30 | 16.65 | 18.90 | 20.90 | 23.10 |
| 45.0       |                      | 4.97  | 6.81  | 8.96  | 11.45 | 14.40 | 15.70 | 17.85 | 19.75 | 21.80 |
| 50.0       |                      | 4.54  | 6.29  | 8.32  | 10.70 | 13.50 | 14.70 | 16.75 | 18.55 | 20.50 |
| 55.0       |                      |       | 5.75  | 7.67  | 9.91  | 12.55 | 13.70 | 15.65 | 17.35 | 19.25 |
| 60.0       |                      |       |       | 6.99  | 9.10  | 11.55 | 12.70 | 14.50 | 16.15 | 17.90 |
| 65.0       |                      |       |       | 6.29  | 8.26  | 10.55 | 11.60 | 13.30 | 14.85 | 16.50 |
| 70.0       |                      |       |       |       | 7.38  | 9.53  | 10.50 | 12.10 | 13.50 | 15.10 |
| 75.0       |                      |       |       |       | 6.46  | 8.45  | 9.34  | 10.80 | 12.15 | 13.60 |

50 Hz

ZRT96K3E-TFD

R134a

| Cond<br>°C | Power, kW |       |       |      |      |      |      |      |      |      |
|------------|-----------|-------|-------|------|------|------|------|------|------|------|
|            | -20.0     | -15.0 | -10.0 | -5.0 | 0.0  | 5.0  | 7.0  | 10.0 | 12.5 | 15.0 |
| 30.0       | 2.65      | 2.71  | 2.76  | 2.79 | 2.81 | 2.84 | 2.86 | 2.89 |      |      |
| 35.0       | 2.99      | 3.06  | 3.11  | 3.15 | 3.18 | 3.21 | 3.23 | 3.27 | 3.30 |      |
| 40.0       | 3.37      | 3.45  | 3.50  | 3.54 | 3.57 | 3.61 | 3.63 | 3.67 | 3.71 | 3.75 |
| 45.0       |           | 3.88  | 3.93  | 3.97 | 4.01 | 4.05 | 4.07 | 4.11 | 4.15 | 4.19 |
| 50.0       |           | 4.37  | 4.42  | 4.46 | 4.49 | 4.53 | 4.55 | 4.59 | 4.63 | 4.68 |
| 55.0       |           |       | 4.97  | 5.01 | 5.04 | 5.08 | 5.10 | 5.13 | 5.17 | 5.21 |
| 60.0       |           |       |       | 5.63 | 5.66 | 5.69 | 5.71 | 5.74 | 5.77 | 5.82 |
| 65.0       |           |       |       | 6.35 | 6.36 | 6.38 | 6.40 | 6.43 | 6.46 | 6.50 |
| 70.0       |           |       |       |      | 7.16 | 7.17 | 7.18 | 7.20 | 7.23 | 7.26 |
| 75.0       |           |       |       |      | 8.06 | 8.06 | 8.06 | 8.08 | 8.09 | 8.12 |

| Cond<br>°C | Current at 400 V, A |       |       |       |       |       |       |       |       |       |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | -20.0               | -15.0 | -10.0 | -5.0  | 0.0   | 5.0   | 7.0   | 10.0  | 12.5  | 15.0  |
| 30.0       | 6.50                | 6.60  | 6.65  | 6.65  | 6.64  | 6.63  | 6.64  | 6.66  |       |       |
| 35.0       | 6.55                | 6.70  | 6.77  | 6.80  | 6.81  | 6.82  | 6.82  | 6.84  | 6.87  |       |
| 40.0       | 6.77                | 6.95  | 7.06  | 7.11  | 7.14  | 7.15  | 7.16  | 7.19  | 7.21  | 7.26  |
| 45.0       |                     | 7.35  | 7.49  | 7.57  | 7.62  | 7.64  | 7.66  | 7.68  | 7.71  | 7.75  |
| 50.0       |                     | 7.90  | 8.07  | 8.18  | 8.24  | 8.28  | 8.29  | 8.32  | 8.35  | 8.39  |
| 55.0       |                     |       | 8.79  | 8.92  | 9.00  | 9.06  | 9.07  | 9.10  | 9.13  | 9.17  |
| 60.0       |                     |       |       | 9.80  | 9.90  | 9.97  | 9.99  | 10.02 | 10.05 | 10.08 |
| 65.0       |                     |       |       | 10.81 | 10.93 | 11.01 | 11.03 | 11.07 | 11.10 | 11.13 |
| 70.0       |                     |       |       |       | 12.08 | 12.17 | 12.20 | 12.24 | 12.27 | 12.30 |
| 75.0       |                     |       |       |       | 13.35 | 13.46 | 13.49 | 13.53 | 13.56 | 13.59 |

| Cond<br>°C | Suction Mass Flow, g/s |       |       |       |       |        |        |        |        |        |
|------------|------------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
|            | -20.0                  | -15.0 | -10.0 | -5.0  | 0.0   | 5.0    | 7.0    | 10.0   | 12.5   | 15.0   |
| 30.0       | 29.10                  | 40.20 | 52.60 | 66.70 | 82.80 | 101.50 | 109.50 | 122.50 |        |        |
| 35.0       | 28.10                  | 39.30 | 51.80 | 65.90 | 82.00 | 100.50 | 108.50 | 121.50 | 133.00 |        |
| 40.0       | 27.00                  | 38.40 | 50.90 | 65.10 | 81.20 | 99.60  | 107.50 | 120.50 | 132.00 | 144.50 |
| 45.0       |                        | 37.40 | 50.00 | 64.10 | 80.20 | 98.60  | 106.50 | 119.50 | 131.00 | 143.50 |
| 50.0       |                        | 36.20 | 48.90 | 63.10 | 79.20 | 97.50  | 105.50 | 118.50 | 130.00 | 142.00 |
| 55.0       |                        |       | 47.60 | 61.80 | 77.90 | 96.20  | 104.00 | 117.00 | 128.50 | 141.00 |
| 60.0       |                        |       |       | 60.30 | 76.40 | 94.60  | 102.50 | 115.50 | 127.00 | 139.50 |
| 65.0       |                        |       |       | 58.50 | 74.50 | 92.70  | 100.50 | 113.50 | 125.00 | 137.50 |
| 70.0       |                        |       |       |       | 72.10 | 90.40  | 98.40  | 111.00 | 123.00 | 135.00 |
| 75.0       |                        |       |       |       | 69.20 | 87.50  | 95.50  | 108.50 | 120.00 | 132.50 |

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

|                                     |  |
|-------------------------------------|--|
| Displacement @ 50 Hz, m³/h          | 22.8   |
| Length/Width, mm                    | 618/289                                      |
| Height, mm                          | 457  |
| Net Weight, kg                      | 61.7   |
| Stub Suction, inch                  | 1 1/8  |
| Stub Discharge, inch                | 3/4  |
| Oil Quantity, l                     | 2.72   |
| Oil type (original charge)          | POE RL32-3MAF                                |
| Oil type (approved oils)            | POE RL32-3MAF, POE MOBIL<br>EAL Arctic 22 CC |
| Base mounting (hole dia), mm        | 546 x 190.5 (22.4)                           |
| Sound Pressure @ 1m (HT), dBA       | 60   |
| Sound Power (HT), dBA               | 71   |
| Sound Conditions (HT, Temperatures: | 7 / 54 / 18 °C at 50 Hz                      |
| Evap./Cond./Suction at freq./speed) |  |
| High Side PS gauge, bar             | 27.5   |
| Low Side PS gauge, bar              | 17   |
| Refrigerant's GWP                   | 1430   |
| Refrigerant's classification        | A1   |

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

|                              |                |
|------------------------------|----------------|
| Maximum Operating Current, A | 2 x 10         |
| Locked Rotor Current, A      | 2 x 50         |
| Winding Resistance, ohm      | 3.88           |
| Default Enclosure Class      | IP 21 (IEC 34) |

### **ACCESSORIES INCLUDED**

### **ACCESSORIES OPTIONAL**

### **MOTOR OPTIONS**

| <b>Motor Code</b> | <b>Power Supply</b>    | <b>Nominal Voltage, V</b> | <b>Start Connection</b> | <b>DOL Connection</b> | <b>Amps Factor</b> |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| TFD               | 380-420 V / 3~ / 50 Hz | 400                       |                         | Y                     | 1.00               |
| TFD               | 460 V / 3~ / 60 Hz     | 460                       |                         | Y                     | 1.04               |