



Minimum Evaporating Temp. With:

- █ 20 °C Suction Gas Return with add cooling
- █ Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

| Cond °C | Cooling Capacity, kW | | | | | | | | |
|------------|----------------------|-------|-------|-------|-------|-------|-------|-------|------|
| | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 |
| 20.0 | 0.95 | 1.32 | 1.77 | 2.32 | 2.98 | 3.75 | 4.64 | 5.66 | 6.83 |
| 25.0 | 0.82 | 1.17 | 1.60 | 2.12 | 2.74 | 3.46 | 4.30 | 5.27 | 6.37 |
| 30.0 | 0.69 | 1.02 | 1.43 | 1.92 | 2.50 | 3.18 | 3.97 | 4.87 | 5.91 |
| 35.0 | 0.57 | 0.88 | 1.27 | 1.72 | 2.26 | 2.90 | 3.63 | 4.48 | 5.45 |
| 40.0 | 0.45 | 0.75 | 1.10 | 1.52 | 2.03 | 2.61 | 3.30 | 4.08 | 4.98 |
| 45.0 | 0.34 | 0.61 | 0.94 | 1.34 | 1.80 | 2.34 | 2.96 | 3.69 | 4.52 |
| 50.0 | 0.23 | 0.48 | 0.79 | 1.14 | 1.56 | 2.06 | 2.63 | 3.30 | 4.06 |
| 55.0 | | 0.36 | 0.64 | 0.96 | 1.34 | 1.78 | 2.30 | 2.91 | 3.60 |

50 Hz

DKL-20X

R404A Dew Point

| Cond °C | Power, kW | | | | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|-------|-------|------|
| | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 |
| 20.0 | 0.68 | 0.81 | 0.93 | 1.03 | 1.12 | 1.20 | 1.26 | 1.30 | 1.31 |
| 25.0 | 0.67 | 0.80 | 0.94 | 1.06 | 1.18 | 1.27 | 1.36 | 1.42 | 1.46 |
| 30.0 | 0.64 | 0.79 | 0.94 | 1.08 | 1.21 | 1.33 | 1.44 | 1.52 | 1.59 |
| 35.0 | 0.60 | 0.77 | 0.93 | 1.09 | 1.24 | 1.38 | 1.50 | 1.62 | 1.72 |
| 40.0 | 0.57 | 0.74 | 0.92 | 1.09 | 1.26 | 1.42 | 1.57 | 1.71 | 1.83 |
| 45.0 | 0.52 | 0.71 | 0.90 | 1.08 | 1.28 | 1.46 | 1.62 | 1.79 | 1.94 |
| 50.0 | 0.47 | 0.67 | 0.87 | 1.08 | 1.28 | 1.48 | 1.68 | 1.87 | 2.05 |
| 55.0 | | 0.63 | 0.85 | 1.07 | 1.29 | 1.51 | 1.73 | 1.94 | 2.15 |

| Cond °C | Current at 400 V, A | | | | | | | | |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|------|
| | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 |
| 20.0 | 1.92 | 2.05 | 2.18 | 2.31 | 2.42 | 2.51 | 2.58 | 2.61 | 2.60 |
| 25.0 | 1.97 | 2.10 | 2.25 | 2.39 | 2.52 | 2.64 | 2.73 | 2.80 | 2.84 |
| 30.0 | 1.98 | 2.12 | 2.27 | 2.43 | 2.58 | 2.72 | 2.85 | 2.96 | 3.03 |
| 35.0 | 1.97 | 2.11 | 2.27 | 2.44 | 2.62 | 2.78 | 2.94 | 3.09 | 3.20 |
| 40.0 | 1.94 | 2.09 | 2.26 | 2.44 | 2.63 | 2.83 | 3.01 | 3.19 | 3.35 |
| 45.0 | 1.90 | 2.05 | 2.23 | 2.42 | 2.64 | 2.85 | 3.07 | 3.29 | 3.49 |
| 50.0 | 1.86 | 2.01 | 2.20 | 2.41 | 2.64 | 2.88 | 3.13 | 3.38 | 3.62 |
| 55.0 | | 1.98 | 2.17 | 2.39 | 2.64 | 2.91 | 3.19 | 3.47 | 3.76 |

| Cond °C | Suction Mass Flow, g/s | | | | | | | | |
|------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 |
| 20.0 | 5.74 | 7.98 | 10.75 | 14.15 | 18.25 | 23.10 | 28.80 | 35.40 | 43.10 |
| 25.0 | 5.19 | 7.43 | 10.20 | 13.55 | 17.60 | 22.40 | 28.00 | 34.60 | 42.20 |
| 30.0 | 4.61 | 6.85 | 9.60 | 12.90 | 16.90 | 21.60 | 27.20 | 33.70 | 41.20 |
| 35.0 | 4.00 | 6.24 | 8.96 | 12.25 | 16.15 | 20.80 | 26.30 | 32.70 | 40.20 |
| 40.0 | 3.35 | 5.59 | 8.29 | 11.55 | 15.40 | 20.00 | 25.40 | 31.70 | 39.20 |
| 45.0 | 2.67 | 4.90 | 7.58 | 10.75 | 14.55 | 19.10 | 24.40 | 30.70 | 38.10 |
| 50.0 | 1.94 | 4.18 | 6.82 | 9.97 | 13.70 | 18.15 | 23.40 | 29.60 | 37.00 |
| 55.0 | | 3.40 | 6.03 | 9.13 | 12.80 | 17.20 | 22.40 | 28.60 | 35.90 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|-----------------------------------------|----------------------------------------------|
| Number of cylinders | 2 |
| Displacement @ 50 Hz, m ³ /h | 7.38 |
| Bore/Stroke, mm | 47.6/23.8 |
| Length/Width, mm | 365/235 |
| Height, mm | 280 |
| Net Weight, kg | 39 |
| Gross Weight, kg | 41 |
| Suction, inch | 5/8 |
| Discharge, inch | 1/2 |
| Drive Frequency Range, Hz | 25 - 60 |
| Oil Quantity, l | 0.65 |
| Oil type (original charge) | POE RL32-3MAF |
| Oil type (approved oils) | POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC |
| Base mounting (hole dia), mm | 208 x 162 (11) |
| High Side PS gauge, bar | 32.5 |
| Low Side PS gauge, bar | 22.5 |
| Refrigerant's GWP | 3922 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 3.8 |
| Locked Rotor Current, A | 23.3 |
| Default Enclosure Class | IP 54 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|------------------|---|
| Mounting Springs | 4 |
|------------------|---|

ACCESSORIES OPTIONAL

| | |
|--------------------|------------------------------|
| Additional Cooling | 1 or 2 ways water Coil |
| Adapter Kit | For Parallel Operation |
| Oil Control System | ALCO Trax-Oil OM3 |
| Additional Cooling | 25 W Horizontal Air Flow Fan |
| Additional Cooling | 7 W Vertical Air Flow Fan |
| Crankcase Heater | 27 W Internal |

MOTOR OPTIONS

| Motor Code | Power Supply | Nominal Voltage, V | Start Connection | DOL Connection | Amps Factor |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| EWL | 380-420 V / 3~ / 50 Hz | 400 | | Y | 1.00 |
| EWL | 220-240 V / 3~ / 50 Hz | 230 | Y/DELTA | DELTA | 1.73 |
| EWK | 220-240 V / 3~ / 60 Hz | 230 | Y/DELTA | DELTA | 2.10 |
| EWK | 380-420 V / 3~ / 60 Hz | 380 | | Y | 1.20 |