



Minimum Evaporating Temp. With:

- █ 25 °C Suction Gas Return + fan
- █ Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Evaporating Temperature, °C

Liquid Subcooling 0.0K

| Cond °C | Cooling Capacity, kW | | | | | | | | | |
|------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | 50.0- | 45.0- | 40.0- | 35.0- | 30.0- | 25.0- | 20.0- | 15.0- | 10.0- | 5.0- |
| 25.0 | 0.43 | 0.64 | 0.89 | 1.20 | 1.56 | 2.01 | 2.54 | 3.16 | 3.90 | 4.75 |
| 30.0 | 0.37 | 0.57 | 0.81 | 1.10 | 1.44 | 1.86 | 2.37 | 2.96 | 3.66 | 4.47 |
| 35.0 | 0.31 | 0.50 | 0.73 | 1.01 | 1.34 | 1.73 | 2.20 | 2.77 | 3.43 | 4.20 |
| 40.0 | 0.25 | 0.44 | 0.66 | 0.91 | 1.23 | 1.60 | 2.04 | 2.58 | 3.21 | 3.94 |
| 45.0 | | 0.38 | 0.58 | 0.83 | 1.12 | 1.47 | 1.89 | 2.40 | 2.99 | 3.69 |
| 50.0 | | 0.32 | 0.52 | 0.74 | 1.02 | 1.35 | 1.74 | 2.22 | 2.78 | 3.44 |
| 55.0 | | 0.26 | 0.45 | 0.67 | 0.93 | 1.24 | 1.61 | 2.05 | 2.58 | 3.21 |

50Hz

KSJ-10X

R22

| Cond °C | Power, kW | | | | | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | 50.0- | 45.0- | 40.0- | 35.0- | 30.0- | 25.0- | 20.0- | 15.0- | 10.0- | 5.0- |
| 25.0 | 0.48 | 0.58 | 0.66 | 0.75 | 0.82 | 0.89 | 0.95 | 1.01 | 1.06 | 1.10 |
| 30.0 | 0.46 | 0.57 | 0.66 | 0.76 | 0.84 | 0.93 | 1.01 | 1.08 | 1.15 | 1.22 |
| 35.0 | 0.44 | 0.55 | 0.66 | 0.76 | 0.86 | 0.96 | 1.06 | 1.14 | 1.24 | 1.32 |
| 40.0 | 0.41 | 0.53 | 0.65 | 0.77 | 0.88 | 0.99 | 1.10 | 1.21 | 1.32 | 1.42 |
| 45.0 | | 0.51 | 0.64 | 0.77 | 0.89 | 1.02 | 1.14 | 1.27 | 1.40 | 1.52 |
| 50.0 | | 0.49 | 0.63 | 0.77 | 0.91 | 1.04 | 1.18 | 1.33 | 1.47 | 1.62 |
| 55.0 | | 0.47 | 0.62 | 0.77 | 0.92 | 1.07 | 1.23 | 1.38 | 1.54 | 1.71 |

| Cond °C | Current at 400 V, A | | | | | | | | | |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | 50.0- | 45.0- | 40.0- | 35.0- | 30.0- | 25.0- | 20.0- | 15.0- | 10.0- | 5.0- |
| 25.0 | 1.55 | 1.61 | 1.69 | 1.77 | 1.85 | 1.94 | 2.01 | 2.08 | 2.13 | 2.17 |
| 30.0 | 1.53 | 1.60 | 1.69 | 1.78 | 1.88 | 1.98 | 2.08 | 2.17 | 2.25 | 2.31 |
| 35.0 | 1.51 | 1.59 | 1.69 | 1.79 | 1.90 | 2.02 | 2.14 | 2.25 | 2.35 | 2.45 |
| 40.0 | 1.49 | 1.58 | 1.68 | 1.80 | 1.92 | 2.06 | 2.19 | 2.33 | 2.46 | 2.58 |
| 45.0 | | 1.56 | 1.67 | 1.80 | 1.94 | 2.09 | 2.24 | 2.40 | 2.55 | 2.70 |
| 50.0 | | 1.55 | 1.66 | 1.80 | 1.95 | 2.12 | 2.29 | 2.47 | 2.65 | 2.82 |
| 55.0 | | 1.53 | 1.65 | 1.80 | 1.96 | 2.14 | 2.33 | 2.53 | 2.73 | 2.94 |

| Cond °C | Mass Flow, g/s | | | | | | | | | |
|------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 50.0- | 45.0- | 40.0- | 35.0- | 30.0- | 25.0- | 20.0- | 15.0- | 10.0- | 5.0- |
| 25.0 | 2.19 | 3.26 | 4.55 | 6.11 | 8.01 | 10.30 | 13.10 | 16.40 | 20.30 | 24.90 |
| 30.0 | 1.95 | 3.01 | 4.27 | 5.80 | 7.66 | 9.91 | 12.60 | 15.85 | 19.70 | 24.20 |
| 35.0 | 1.70 | 2.75 | 3.99 | 5.49 | 7.31 | 9.51 | 12.15 | 15.35 | 19.10 | 23.60 |
| 40.0 | 1.43 | 2.48 | 3.71 | 5.18 | 6.96 | 9.11 | 11.70 | 14.85 | 18.55 | 23.00 |
| 45.0 | | 2.21 | 3.43 | 4.87 | 6.61 | 8.72 | 11.25 | 14.35 | 18.00 | 22.30 |
| 50.0 | | 1.94 | 3.15 | 4.57 | 6.28 | 8.34 | 10.85 | 13.85 | 17.45 | 21.80 |
| 55.0 | | 1.68 | 2.89 | 4.29 | 5.97 | 7.99 | 10.45 | 13.40 | 16.95 | 21.20 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|---|--|
| Number of cylinders | 2 |
| Displacement @ 50 Hz, m ³ /h | 6.33 |
| Bore/Stroke, mm | 39.7/29.4 |
| Length/Width, mm | 365/235 |
| Height, mm | 280 |
| Net Weight, kg | 40 |
| Gross Weight, kg | 42 |
| Suction, inch | 5/8 |
| Discharge, inch | 1/2 |
| Oil Quantity, l | 0.65 |
| Frequency Range, Hz | 25 - 60 |
| 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 (11.0) |
| High Side PS, bar(g) | 32.5 |
| Low Side PS, bar(g) | 22.5 |
| Refrigerant's GWP | 1810 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 3 |
| Locked Rotor Current, A | 15.5 |
| Default Enclosure Class | IP 54 (IEC 34) |

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

| | |
|--------------------|--|
| Additional Cooling | 1 or 2 ways water Coil |
| Additional Cooling | 25 W Horizontal Air Flow Fan |
| Additional Cooling | 7 W Vertical Air Flow Fan |
| Crankcase Heater | 27 W Internal |
| Adapter Kit | For Parallel Operation |
| Oil Control System | ALCO Trax-Oil OM3 |
| Inverter | Emerson Industrial Automation, Unidrive M200 03 400 056 |

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 |