



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 0 °C Suction Gas Return
- 0 °C Suction Gas Return with add cooling
- Limited superheat 20 K
- Maximum Evaporating Temperature
- 25 °C Suction Gas Return
- Voltage limit ± 5% above -20°C

Suction Return Temperature 18.3°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 |
| 10.0 | 24.40 | 32.60 | 42.50 | 54.30 | 68.30 | | | | |
| 15.0 | 22.50 | 30.40 | 40.00 | 51.30 | 64.70 | 80.30 | | | |
| 20.0 | 20.60 | 28.20 | 37.40 | 48.20 | 60.90 | 75.70 | 92.70 | | |
| 25.0 | | 26.00 | 34.70 | 45.00 | 57.00 | 71.00 | 87.10 | 105.50 | |
| 30.0 | | 23.70 | 32.00 | 41.70 | 53.00 | 66.10 | 81.20 | 98.50 | 118.00 |
| 35.0 | | | 29.20 | 38.30 | 48.80 | 61.00 | 75.10 | 91.30 | 109.50 |
| 40.0 | | | 26.40 | 34.80 | 44.60 | 55.90 | 69.00 | 83.90 | 101.00 |
| 45.0 | | | | 31.40 | 40.30 | 50.70 | 62.70 | 76.40 | 92.20 |
| 50.0 | | | | 28.00 | 36.10 | 45.40 | 56.30 | 68.80 | 83.20 |
| 55.0 | | | | | 31.80 | 40.10 | 49.80 | 61.10 | 74.10 |

50 Hz

6SU-400

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 |
| 10.0 | 12.00 | 14.10 | 16.10 | 17.90 | 19.45 | | | | |
| 15.0 | 12.20 | 14.50 | 16.70 | 18.80 | 20.70 | 22.30 | | | |
| 20.0 | 12.35 | 14.85 | 17.25 | 19.60 | 21.80 | 23.90 | 25.70 | | |
| 25.0 | | 15.10 | 17.75 | 20.40 | 22.90 | 25.30 | 27.50 | 29.50 | |
| 30.0 | | 15.30 | 18.15 | 21.00 | 23.80 | 26.60 | 29.20 | 31.60 | 33.80 |
| 35.0 | | | 18.45 | 21.60 | 24.70 | 27.80 | 30.80 | 33.60 | 36.30 |
| 40.0 | | | 18.70 | 22.00 | 25.40 | 28.80 | 32.20 | 35.50 | 38.60 |
| 45.0 | | | | 22.40 | 26.00 | 29.80 | 33.50 | 37.20 | 40.80 |
| 50.0 | | | | 22.60 | 26.50 | 30.60 | 34.70 | 38.80 | 42.80 |
| 55.0 | | | | | 26.90 | 31.30 | 35.70 | 40.20 | 44.70 |

| 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 |
| 10.0 | 30.98 | 32.48 | 34.10 | 35.85 | 37.73 | | | | |
| 15.0 | 31.10 | 33.01 | 35.05 | 37.22 | 39.51 | 41.94 | | | |
| 20.0 | 31.07 | 33.39 | 35.84 | 38.42 | 41.13 | 43.97 | 46.93 | | |
| 25.0 | | 33.62 | 36.48 | 39.47 | 42.60 | 45.85 | 49.22 | 52.73 | |
| 30.0 | | 33.73 | 36.99 | 40.39 | 43.92 | 47.58 | 51.37 | 55.29 | 59.33 |
| 35.0 | | | 37.39 | 41.20 | 45.13 | 49.20 | 53.40 | 57.72 | 62.17 |
| 40.0 | | | 37.70 | 41.90 | 46.24 | 50.71 | 55.31 | 60.04 | 64.90 |
| 45.0 | | | | 42.52 | 47.26 | 52.13 | 57.13 | 62.27 | 67.53 |
| 50.0 | | | | 43.08 | 48.21 | 53.48 | 58.88 | 64.42 | 70.08 |
| 55.0 | | | | | 49.12 | 54.78 | 60.57 | 66.50 | 72.57 |

| 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 |
| 10.0 | 136.50 | 183.00 | 239.00 | 307.00 | 387.00 | | | | |
| 15.0 | 131.50 | 178.00 | 235.00 | 302.00 | 383.00 | 477.00 | | | |
| 20.0 | 125.50 | 172.50 | 229.00 | 297.00 | 377.00 | 471.00 | 581.00 | | |
| 25.0 | | 166.50 | 223.00 | 290.00 | 370.00 | 463.00 | 572.00 | 699.00 | |
| 30.0 | | 160.00 | 216.00 | 283.00 | 362.00 | 454.00 | 562.00 | 688.00 | 834.00 |
| 35.0 | | | 209.00 | 275.00 | 353.00 | 444.00 | 551.00 | 675.00 | 820.00 |
| 40.0 | | | 201.00 | 266.00 | 342.00 | 432.00 | 538.00 | 661.00 | 805.00 |
| 45.0 | | | | 256.00 | 331.00 | 420.00 | 523.00 | 645.00 | 787.00 |
| 50.0 | | | | 246.00 | 320.00 | 406.00 | 508.00 | 628.00 | 769.00 |
| 55.0 | | | | | 307.00 | 392.00 | 491.00 | 610.00 | 750.00 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|--|--|
| Number of cylinders | 6 |
| Displacement @ 50 Hz, m ³ /h | 152 |
| Bore/Stroke, mm | 80.6/57.0 |
| Length/Width, mm | 740/540 |
| Height, mm | 545 |
| Net Weight, kg | 265 |
| Gross Weight, kg | 281 |
| Suction, inch | 2 5/8 |
| Discharge, inch | 1 5/8 |
| Drive Frequency Range, Hz | 25 - 60 |
| Oil Quantity, l | 6.8 |
| 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 | 381 x 305 (18) |
| Sound Pressure @ 1m (LT), dBA | 78 |
| Sound Power (LT), dBA | 89 |
| Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed) | -35 / 40 / 20 °C at 50 Hz |
| Sound Pressure @ 1m (MT), dBA | 74 |
| Sound Power (MT), dBA | 85 |
| Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed) | -10 / 45 / 20 °C at 50 Hz |
| 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 | 73.7 |
| Locked Rotor Current, A | 306 |
| Default Enclosure Class | IP 54 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|---------------------|-------------|
| Oil Pressure Switch | OPS2 Sensor |
| Mounting Springs | 4 |
| Deep Oil Sump | Mounted |

ACCESSORIES OPTIONAL

| | |
|----------------------------------|------------------------------|
| Additional Cooling | 70 W Vertical Air Flow Fan |
| Capacity Control | Capacity Steps 66/33% |
| Crankcase Heater | 200 W Internal |
| Discharge Temperature Protection | Head PTC sensor |
| Enclosure Class | IP 56 |
| Oil Pressure Switch | OPS2 Electronic Switch |
| Unloaded start | Available |
| Adapter Kit | For Parallel Operation |
| Check Valve | For unloaded start operation |
| Oil Control System | ALCO Trax-Oil OM3 |

MOTOR OPTIONS

| Motor Code | Power Supply | Nominal Voltage, V | Start Connection | DOL Connection | Amps Factor |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| AWM | 380-420 V / 3~ / 50 Hz | 400 | YYY | Y | 1.00 |
| EWL | 220-240 V / 3~ / 50 Hz | 230 | Y/DELTA | DELTA | 1.73 |
| EWL | 380-420 V / 3~ / 50 Hz | 400 | | Y | 1.00 |
| AWR | 220-240 V / 3~ / 50 Hz | 230 | YYY | Y | 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 |
| AWX | 380 V / 3~ / 60 Hz | 380 | YYY | Y | 1.20 |
| AWD | 440-480 V / 3~ / 60 Hz | 460 | YYY | Y | 1.00 |