

Producer: **Copeland**
 Line: **Standard**
 Model: **LJ-30X**
 Cooling capacity [kW]: **6.63**
 Displacement [m³/h]: **14.5**
 Refrigerant: **R22, R404A, R407F, R448A, R449A**
 Capacity control: **None, Inverter (option)**
 Power supply: **400V/3Ph/50Hz**

Data

Technical data

| | | |
|---------------------|---------------------|--------------------|
| Displacement | [m ³ /h] | 14.5 |
| Cylinders quantity | | 2 |
| Cylinder bore | [mm] | 54.0 |
| Cylinder stroke | [mm] | 36.5 |
| Oil charge | [l] | 2.00 |
| Oil type | | POE RL32-3MAF |
| Type of lubrication | | Splash lubrication |
| Net weight | [kg] | 83.00 |
| Gross weight | [kg] | 89.00 |

Electrical data and limits

| | | |
|----------------------------|-------|---------------|
| Power supply | | 400V/3Ph/50Hz |
| Maximum continuous current | [A] | 7.4 |
| Locked rotor amperage | [A] | 50.6 |
| Maximum motor frequency | [Hz] | 60 |
| Minimum motor frequency | [Hz] | 25 |
| Maximum suction pressure | [bar] | 22.5 |
| Maximum discharge pressure | [bar] | 32.5 |

Dimensions

| | | |
|--------------------------|--------|-----|
| Suction valve diameter | [inch] | 7/8 |
| Discharge valve diameter | [inch] | 5/8 |
| Length | [mm] | 470 |
| Height | [mm] | 385 |
| Width | [mm] | 330 |

Other

| | |
|-----------------------|---|
| Approved refrigerants | R22, R404A, R407F, R448A, R449A |
| Allowed oil types | POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC |
| Capacity control | None, Inverter (option) |
| Protection rating | IP54 (IEC34) |

Performance

Nominal conditions: refrigerant: R404A, evaporation: -10°C (dew point), condensation: 45°C (dew point), superheating: 10K, subcooling: 0°C

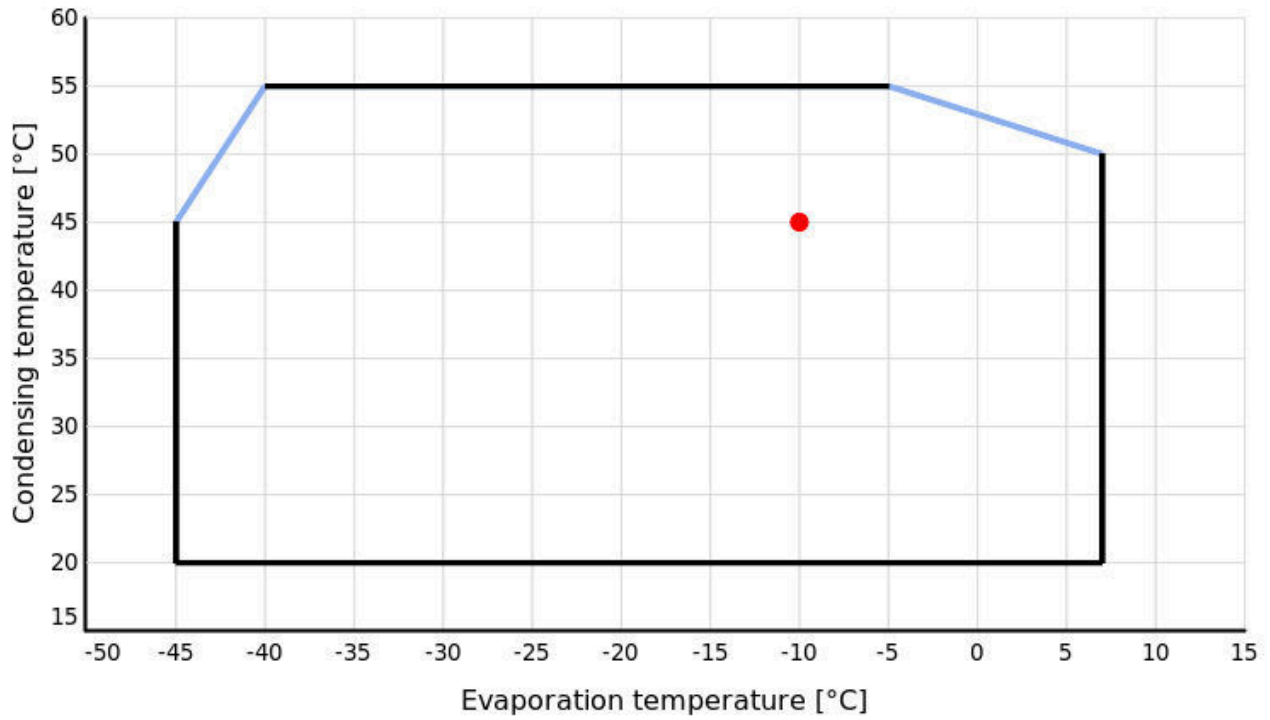
Cooling capacity

| | | Evaporation temperature [°C] | | | | | | | | | | | |
|-------------------------------|----|------------------------------|------|------|------|------|------|------|-------------|-------|-------|-------|-------|
| | | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 7 |
| Condensation temperature [°C] | 20 | 1.56 | 2.29 | 3.19 | 4.26 | 5.54 | 7.06 | 8.84 | 10.93 | 13.34 | 16.12 | 19.27 | 20.63 |
| | 25 | 1.25 | 1.95 | 2.80 | 3.81 | 5.01 | 6.43 | 8.11 | 10.06 | 12.33 | 14.95 | 17.92 | 19.22 |
| | 30 | 0.96 | 1.62 | 2.41 | 3.36 | 4.48 | 5.81 | 7.37 | 9.20 | 11.33 | 13.78 | 16.59 | 17.81 |
| | 35 | 0.69 | 1.30 | 2.03 | 2.91 | 3.95 | 5.19 | 6.64 | 8.34 | 10.33 | 12.63 | 15.26 | 16.42 |
| | 40 | 0.45 | 0.99 | 1.66 | 2.47 | 3.43 | 4.57 | 5.91 | 7.49 | 9.33 | 11.47 | 13.95 | 15.03 |
| | 45 | 0.24 | 0.70 | 1.31 | 2.04 | 2.91 | 3.95 | 5.18 | 6.63 | 8.34 | 10.33 | 12.64 | 13.66 |
| | 50 | | 0.45 | 0.97 | 1.62 | 2.41 | 3.34 | 4.46 | 5.79 | 7.35 | 9.19 | 11.34 | 12.29 |
| | 55 | | 0.23 | 0.66 | 1.22 | 1.91 | 2.75 | 3.75 | 4.95 | 6.37 | | | |

Power consumption

| | | Evaporation temperature [°C] | | | | | | | | | | | |
|-------------------------------|----|------------------------------|------|------|------|------|------|------|-------------|------|------|------|------|
| | | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 7 |
| Condensation temperature [°C] | 20 | 1.35 | 1.59 | 1.83 | 2.04 | 2.22 | 2.36 | 2.46 | 2.51 | 2.49 | 2.40 | 2.24 | 2.15 |
| | 25 | 1.30 | 1.58 | 1.84 | 2.09 | 2.32 | 2.51 | 2.67 | 2.77 | 2.82 | 2.80 | 2.71 | 2.66 |
| | 30 | 1.24 | 1.54 | 1.84 | 2.12 | 2.39 | 2.63 | 2.83 | 3.00 | 3.11 | 3.16 | 3.14 | 3.11 |
| | 35 | 1.16 | 1.48 | 1.81 | 2.13 | 2.43 | 2.71 | 2.97 | 3.18 | 3.35 | 3.47 | 3.52 | 3.52 |
| | 40 | 1.08 | 1.42 | 1.77 | 2.12 | 2.46 | 2.78 | 3.08 | 3.34 | 3.57 | 3.74 | 3.86 | 3.89 |
| | 45 | 1.00 | 1.35 | 1.72 | 2.10 | 2.47 | 2.83 | 3.17 | 3.48 | 3.75 | 3.99 | 4.17 | 4.22 |
| | 50 | | 1.29 | 1.68 | 2.08 | 2.47 | 2.87 | 3.24 | 3.60 | 3.93 | 4.21 | 4.45 | 4.53 |
| | 55 | | 1.24 | 1.64 | 2.06 | 2.48 | 2.91 | 3.32 | 3.71 | 4.09 | | | |

Application range



Legend

■ Suction gas temperature: 25°C, additional head cooling