Penmann
INNOVATIVE CLIMATIC SOLUTIONS FOR THE FOOD INDUSTRY



# NR-375 Hire Chiller

## Product Overview

**Robust design –** Specifically designed for demanding process cooling applications

**Ecodesign compliant –** all models fully comply with ErP2021 – SEPR HT (EU) 2016/2281 – SEPR MT (EU) 2015/1095

**Wide operating range –** operates in ambient temperatures from +45°C down to -10°C with cooling fluid supply temperatures between +20°C and -10°C

**Eco-friendly –** built around the latest high-efficiency scroll compressors utilising low GWP R454B refrigerant

**Shell & tube evaporator –** a robust solution providing greater dependability compared to more traditional designs

**Coated condenser coils –** aluminium microchannel construction results in a smaller refrigerant charge – while epoxy coating offers protection in potentially aggressive environments

**Dual independent refrigeration circuits –** additional resilience provides greater peace of mind

**Isolation valves & strainers –** fitted to fluid connections

## Performance Data

| | |
|---|---|
| Nominal Cooling Capacity (1) | 370 kW |
| Nominal Power Consumption (1) | 98.3 kW |
| EER (1) | 3.76 kW/kW |

**Operating Limits**

| | |
|---|---|
| Minimum/Maximum Cooling Fluid Flow Rate | 39/93 $m^3$/hr |

**Electrical Data**

| | |
|---|---|
| Power Supply | 400/3/50 V/ph/Hz |
| Power Connections - Hard Wired | 120 $mm^2$ cables |
| Maximum Running Current | 262 A |
| Maximum Starting Current | 522 A |
| IP Rating | IP54 |

**Cooling Circuit**

| | |
|---|---|
| Refrigerant / Compressor Type | R454B/Scroll |
| Number of Compressors / Circuits / Fans | 4/2/6 |

**Hydraulic Circuit**

| | |
|---|---|
| Nominal Cooling Fluid Flow Rate (1) | 63.6 $m^3$/hr |
| Nominal Evaporator Pressure Drop (1) | 55 kPa |
| Connections | 4" Flanged |

**Physical Data**

| | |
|---|---|
| Length (2) | 4,335 mm |
| Width (2) | 2,250 mm |
| Height (2) | 2,290 mm |
| Operating Weight (2) | 3,000 kg |
| Sound Pressure Level (2) | 59 dB(A) |

(1) Performance data based on operating conditions of +7°C cooling fluid outlet temperature / +12°C cooling fluid inlet temperature / +30°C ambient temperature

(2) Sound pressure at 10m average value obtained in a free field on a reflecting plane at a distance of 10m from the unit, non-binding value calculated from the sound power level

## Still have a question?

Get in touch with one of our expert team today.

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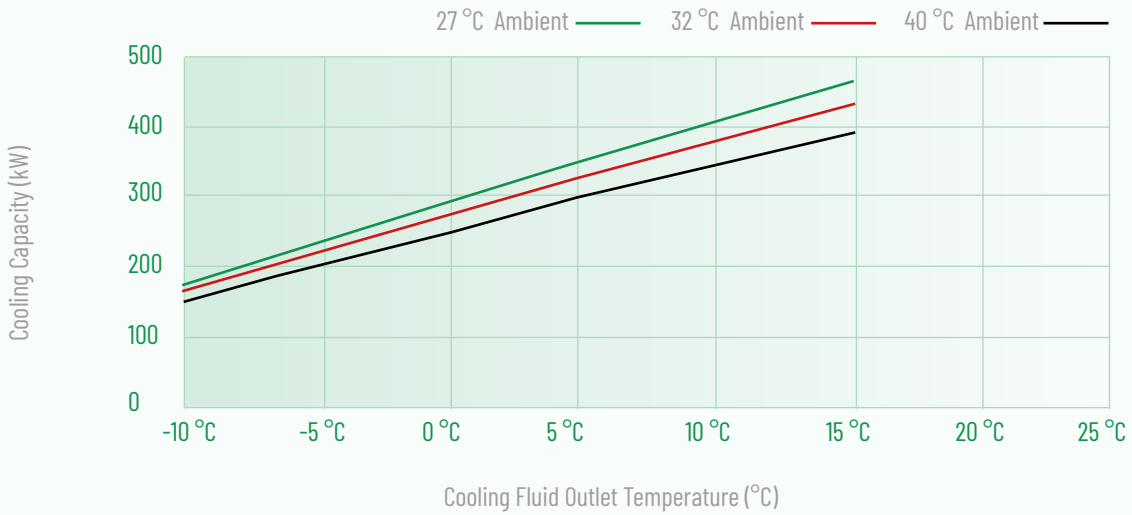
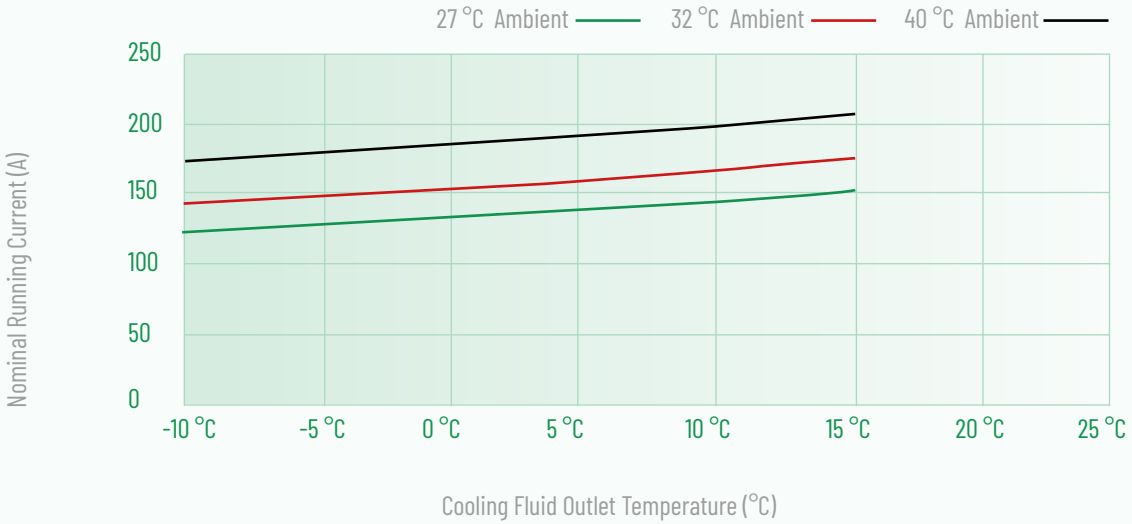
## Cooling Capacity




## Nominal Running Capacity




The level of performance provided by each machine depends on the conditions at which it is operating.
The two factors determining performance are ambient air temperature and the required cooling fluid outlet temperature.
The above graphs illustrate the cooling capacity and nominal running current – at three different operating ambient temperatures – based on differing cooling fluid outlet temperatures.