Penmann
INNOVATIVE CLIMATIC SOLUTIONS FOR THE FOOD INDUSTRY

NR-550 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)	525 kW
Nominal Power Consumption (1)	140 kW
EER (1)	3.75 kW/kW

Operating Limits

Minimum/Maximum Cooling Fluid Flow Rate	49/118 m^3/hr

Electrical Data

Power Supply	400/3/50 V/ph/Hz
Power Connections - Hard Wired	120 mm^2 cables
Maximum Running Current	329 A
Maximum Starting Current	587 A
IP Rating	IP54

Cooling Circuit

Refrigerant / Compressor Type	R454B/Scroll
Number of Compressors / Circuits / Fans	5/2/7

Hydraulic Circuit

Nominal Cooling Fluid Flow Rate (1)	90.3 m^3/hr
Nominal Evaporator Pressure Drop (1)	64 kPa
Connections	4" Flanged

Physical Data

Length (2)	5,080 mm
Width (2)	2,260 mm
Height (2)	2,560 mm
Operating Weight (2)	3,750 kg
Sound Pressure Level (2)	62 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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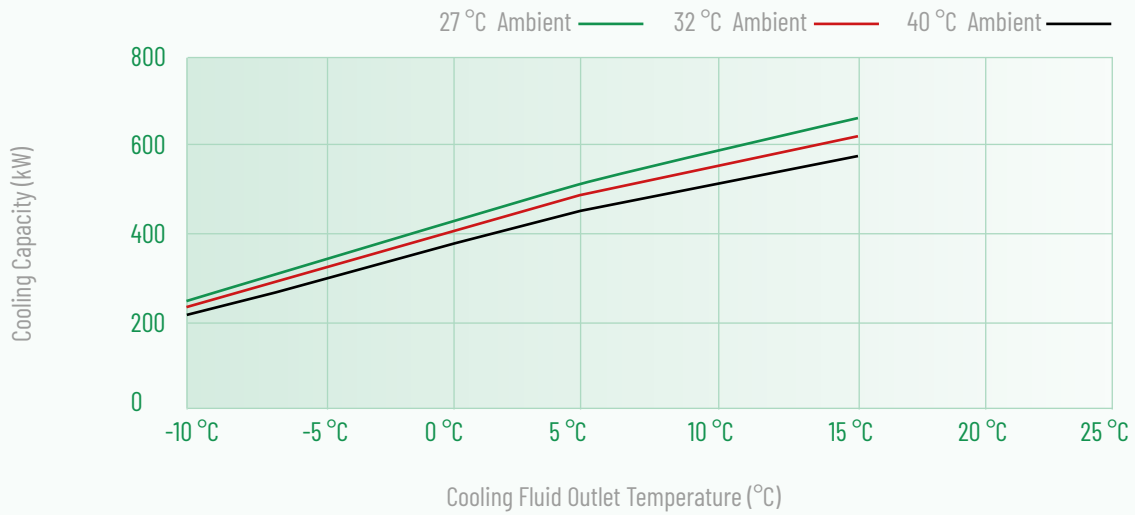
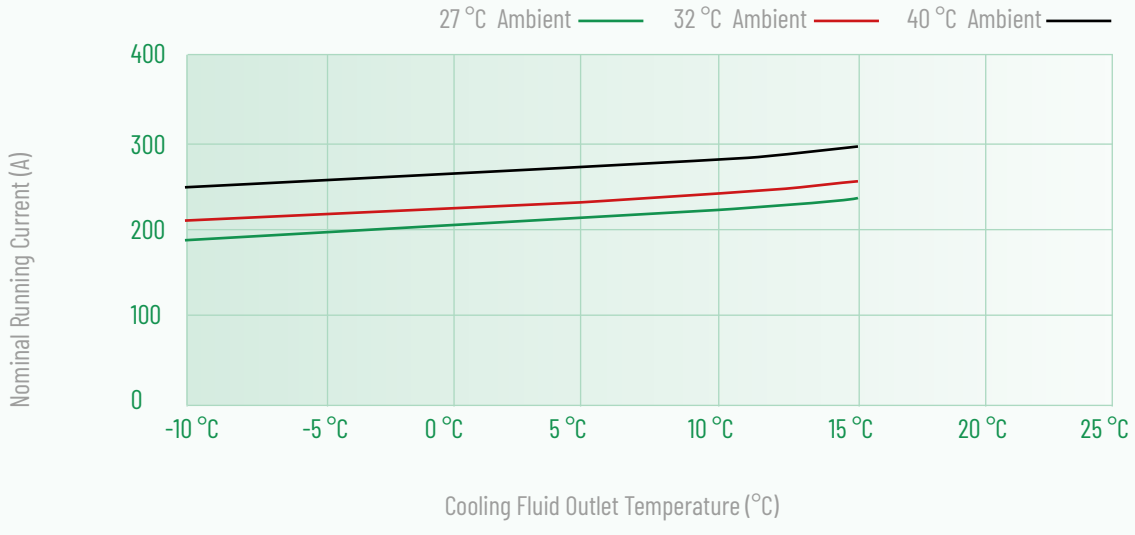
Cooling Capacity



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.