Penmann
INNOVATIVE CLIMATIC SOLUTIONS FOR THE FOOD INDUSTRY

NR-150 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

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)	158.3 kW
Nominal Power Consumption (1)	52.7 kW
EER (1)	3.00 kW/kW

Operating Limits

Minimum/Maximum Cooling Fluid Flow Rate	18/32 m^3/hr

Electrical Data

Power Supply	400/3/50 V/ph/Hz
Power Connections - Hard Wired	70 mm^2 cables
Maximum Running Current	143 A
Maximum Starting Current	283 A
IP Rating	IP54

Cooling Circuit

Refrigerant / Compressor Type	R410A/Scroll
Number of Compressors / Circuits / Fans	4/2/3

Hydraulic Circuit

Nominal Cooling Fluid Flow Rate (1)	27.2 m^3/hr
Nominal Evaporator Pressure Drop (1)	54 kPa
Connections	4" Flanged

Physical Data

Length (2)	4,168 mm
Width (2)	1,398 mm
Height (2)	2,454 mm
Operating Weight (2)	2,000 kg
Sound Pressure Level (2)	52.5 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) Dimensions / weights include crash frame

(3) Sound pressure at 10m average value obtained in a free field on a reflecting plane at a distance of 10m from the unit according to EN ISO 9614-2 – tolerance +/- 2 dB

Still have a question?

Get in touch with one of our expert team today.

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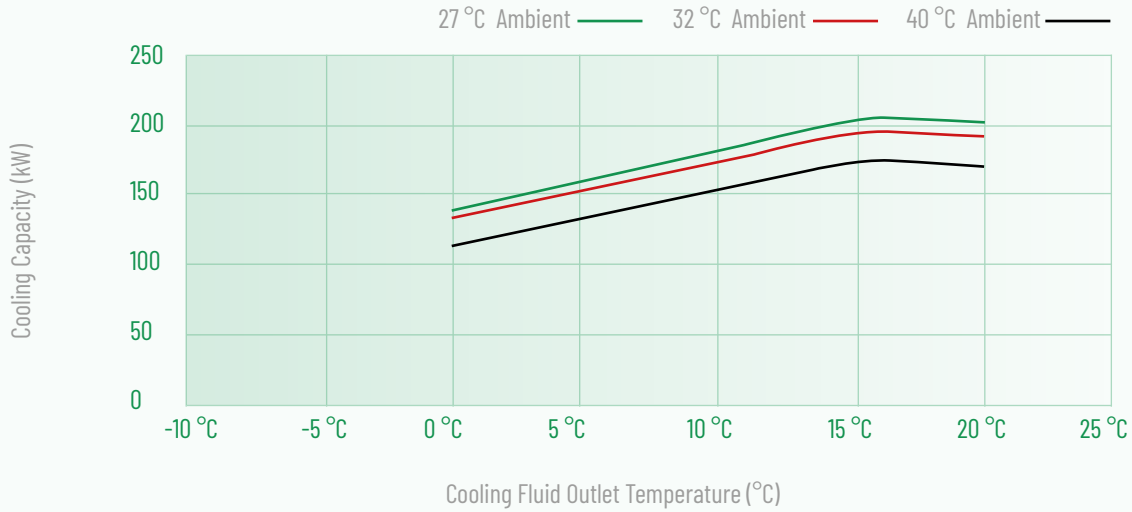
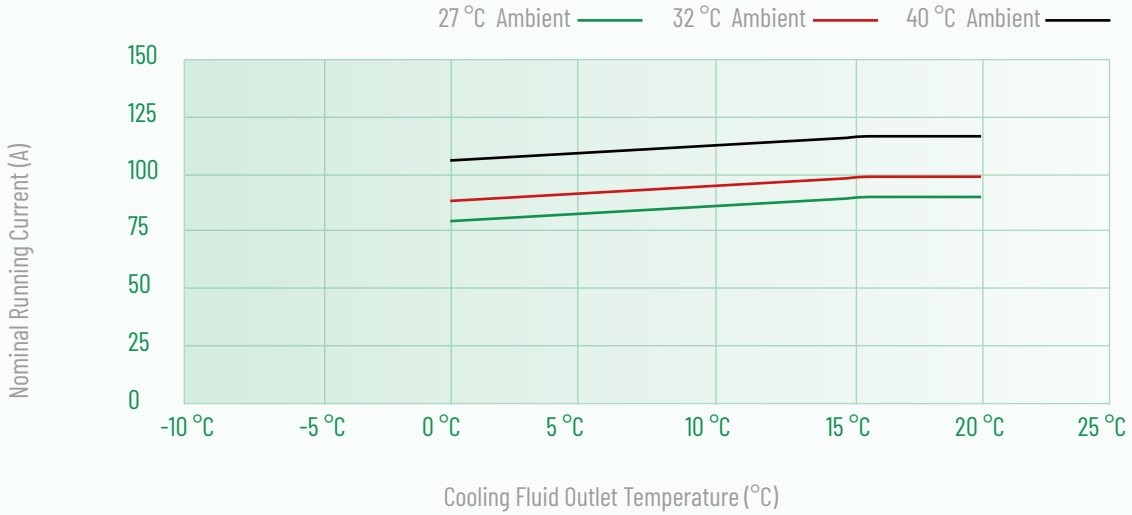
Cooling Capacity



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.