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NR-AFC500 Ambient Cooler

Product Overview

Unique 'blow-through' design – with heat exchanger located downstream of the fans allowing for a wider operating range

Robust construction – includes protective crash frame, mesh guards fully surrounding the unit and integrated forklift pockets

Wide operating range – operates in ambient temperatures from +40°C down to -20°C with cooling fluid supply temperatures between +70°C and +5°C

Energy efficient – equipped with the latest EC fans allowing fan speed to be constantly regulated

Adiabatic option – can be supplied in conjunction with optional spray system to enhance performance and achieve lower supply temperature

Free cooling – can be installed alongside a chiller with optional diverting valve arrangement to drastically reduce overall power consumption when ambient conditions allow

Performance Data

Nominal Capacity – Cooling (1)	500 kW
Nominal Power Consumption – Cooling (1)	17.1 kW
EER (1)	29.2 kW
Nominal Capacity - Free Cooling (1)	281 kW
Nominal Power Consumption – Free Cooling (1)	17.1 kW
EER (1)	16.4 kW/kW

Electrical Data

Power Supply	400/3/50 V/ph/Hz
Power Connections	63 A 5 Pin Plug
IP Rating	IP55

Hydraulic Circuit

Nominal Cooling Fluid Flow Rate – Cooling (1)	87.0 m^3/hr
Nominal Coil Pressure Drop – Cooling (1)	46 kPa
Nominal Cooling Fluid Flow Rate – Free Cooling (2)	48.3 m^3/hr
Nominal Coil Pressure Drop – Free Cooling (2)	17 kPa
Connections	DN100 Flanged

Physical Data

Length	5,732 mm
Width	2,456 mm
Height	1,400 mm
Operating Weight	1,887 kg
Sound Pressure Level (2)	64.6 dB (A)

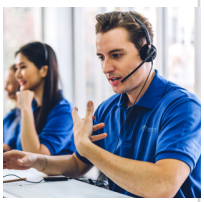
(1) Cooling performance data based on operating conditions of +35°C cooling fluid outlet temperature / +40°C cooling fluid inlet temperature / +25°C ambient temperature

(2) Free Cooling performance data based on operating conditions of +15°C cooling fluid outlet temperature / +20°C cooling fluid inlet temperature / +10°C ambient temperature

(3) Noise level based on LpA at a distance of 10 meters and in accordance with BS EN:13487 Parallel Pipe. This does not allow for any fluctuations based on the integration and operation with other equipment, and should be considered a guide only.

Still have a question?

Get in touch with one of our expert team today.



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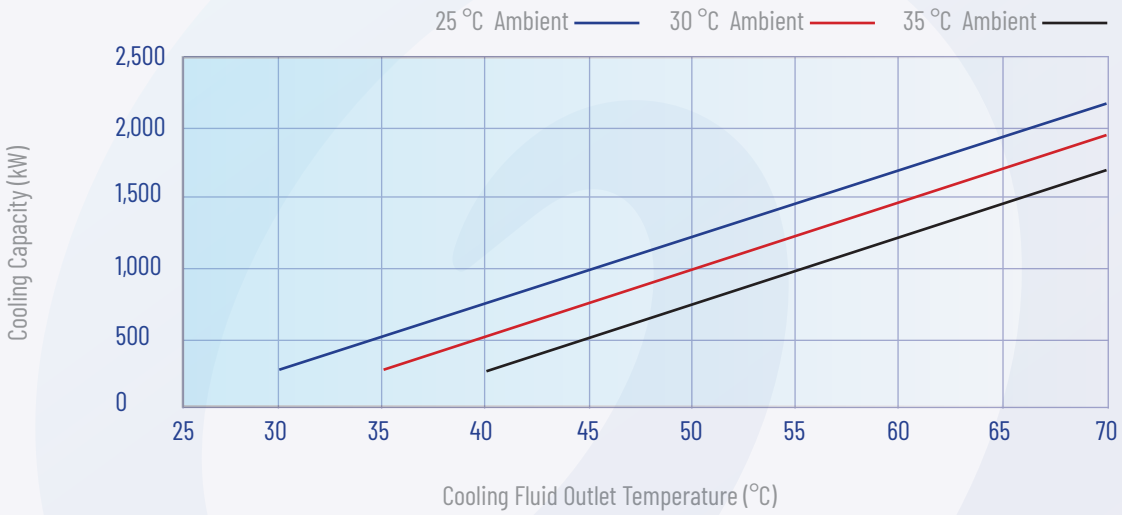
Cooling Capacity



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 graph illustrates the cooling capacity achieved at three different operating ambient temperatures – based on differing cooling fluid outlet temperatures.

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