



TECHNICAL SPECIFICATION FOR:

125KW HEAT PUMP CHILLER

OVERVIEW

- ✔ Integral 3bar pump
- ✔ Reverse cycle heat pump capability
- ✔ Shell and tube evaporator immersed in a high volume buffer tank



DESCRIPTION

Celsius Hire 125KW heat pump chiller is a compact, small footprint unit, selected due to its flexibility and handling across a variety of applications.

The heat pump chillers benefit from an integral circulation pump and a packaged evaporator immersed in a high volume buffer tank, enabling steady water/glycol temperatures as a result of increased volume. With a large temperature range of -15°C to $+50^{\circ}\text{C}$, and Eurovent compliant design enabling great efficiencies even in high ambient temperatures, the Celsius Hire 125KW chiller is a safe bet, no matter the application.

The chiller is a reverse cycle heat pump unit, meaning it can be switched between cooling and heating mode, or automatically change based on an ambient air temperature probe.

The 125KW heat pump chiller can be connected directly onto the client's water/glycol circuit or be coupled with Celsius Hire's large range of fleet and ancillaries to provide heated, air conditioned or low temperature environments.

CELSIUS HIRE

Call for your rental on:
0800 702 2161

Visit us at:
www.celsiushire.com

Email us at:
info@celsiushire.com



All data is subject to change and continuous improvement without notice. All equipment is designed to relevant mechanical and electrical directives

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Company No: 12763272

PERFORMANCE DATA AT DESIGN CONDITIONS

| | | |
|-----------------------------|-----|--|
| DESIGN CONDITIONS - COOLING | °C | 7°C supply / 12°C return / 30°C ambient |
| COOLING CAPACITY - COOLING | KW | 125KW |
| FLUID FLOW - COOLING | L/S | 6.0 |
| DESIGN CONDITIONS - HEATING | °C | 40°C supply / 35°C return / 10°C ambient |
| COOLING CAPACITY - HEATING | KW | 130 |
| FLUID FLOW - HEATING | L/S | 6.0 |

OPERATING LIMITS

| | | |
|-----------------------------|-----|-----------|
| MIN/MAX SUPPLY TEMPERATURE | °C | -15 / +50 |
| MIN/MAX AMBIENT TEMPERATURE | °C | -10 / +45 |
| MIN/MAX FLUID FLOW | L/S | 4.0/8.0 |
| MAX PUMP DELIVERY PRESSURE | Bar | 2.8 |
| CHILLER WATER VOLUME | L | 500 |
| MAX WORKING PRESSURE | Bar | 6.0 |

ELECTRICAL DATA

| | | |
|---------------------------------|-------------|------------------------|
| ELECTRICAL SUPPLY VOLTAGE | V | 410 |
| SUPPLY | | 3Ph & E, No Neutral |
| POWER CONNECTIONS | Fitted Plug | 125A 3Ph 5pin CEE-FORM |
| FULL LOAD RUNNING CURRENT (MAX) | A | 114 |
| START-UP CURRENT (MAX) | A | 200 |
| MAX POWER ABSORBED | KW | 44 |

PHYSICAL DATA

| | | |
|---------------------|--------------------|-------|
| LENGTH | mm | 3,930 |
| WIDTH | mm | 1,600 |
| HEIGHT | mm | 2,120 |
| WEIGHT (DRY) | KG | 1,600 |
| WEIGHT (WET) | KG | 2,100 |
| FLUID COUPLING SIZE | mm | 50 |
| SOUND PRESSURE | dB(A) at 10 metres | 62.3 |

COOLING SYSTEM DATA

| | | |
|-----------------------|------------|--------|
| REFRIGERANT GAS | HFC | R410A |
| REFRIGERANT QUANTITY | Kg (Total) | 48KG |
| NUMBER OF CIRCUITS | Total | 2 |
| NUMBER OF COMPRESSORS | Total | 4 |
| NUMBER OF FANS | Total | 4 |
| FAN TYPE | | Axial |
| FANS AIRFLOW | m3/hr | 34,000 |

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