

TECHNICAL SPECIFICATION FOR:

70KW HEAT PUMP CHILLER

OVERVIEW

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



DESCRIPTION

Celsius Hire 70KW 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°C, and Eurovent compliant design enabling great efficiencies even in high ambient temperatures, the Celsius Hire 70KW 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 70KW heat pump chiller can be connected directly onto the clients water/glycol circuit or be coupled with Celsius Hire's large range of fleet and ancillaries to be provide heated, air conditioned or low temperature environments.

CELSIUS HIRE

Call for your rental on:

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Visit it us at:

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PERFORMANCE DATA AT DESIGN CONDITIONS (COOLING)

DESIGN CONDITIONS	°C	7°C Supply / 12°C Return / 30°C Ambient
COOLING CAPACITY	KW	70
FLUID FLOW	L/S	3.4

PERFORMANCE DATA AT DESIGN CONDITIONS (HEATING)

DESIGN CONDITIONS	°C	40°C Supply / 35°C Return / 10°C Ambient
COOLING CAPACITY	KW	75
FLUID FLOW	L/S	3.4

OPERATING LIMITS

MIN/MAX SUPPLY TEMPERATURE	°C	-15 / +50
MIN/MAX AMBIENT TEMPERATURE	°C	-10 / +45
MIN/MAX FLUID FLOW	L/S	2.5/5.0
MAX PUMP DELIVERY PRESSURE	Bar	2.8
CHILLER WATER VOLUME	L	250
MAX WORKING PRESSURE	Bar	6.0

ELECTRICAL DATA

ELECTRICAL SUPPLY VOLTAGE	V	410
SUPPLY		3Ph & E, No Neutral
POWER CONNECTIONS	Fitted Plug	63A 3Ph 5pin CEE-FORM
FULL LOAD RUNNING CURRENT (MAX)	A	62
START-UP CURRENT (MAX)	A	100
MAX POWER ABSORBED	KW	23

PHYSICAL DATA

LENGTH	mm	2,900
WIDTH	mm	1,300
HEIGHT	mm	2,100
WEIGHT (DRY)	KG	1,100
WEIGHT (WET)	KG	1,350
FLUID COUPLING SIZE	mm	50
SOUND PRESSURE	dB(A) at 10 metres	56.9

COOLING SYSTEM DATA (AXIAL)

REFRIGERANT GAS	HFC	R410A / R454B
REFRIGERANT QUANTITY	Kg (Total)	25KG
NUMBER OF CIRCUITS	Total	1
NUMBER OF COMPRESSORS	Total	2
NUMBER OF FANS	Total	3
FANS AIRFLOW	m ³ /hr	19,500

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