



TECHNICAL SPECIFICATION FOR:

## 300KW HEAT PUMP CHILLER

### OVERVIEW

- ✔ Capacity control with 4 no. scroll compressors
- ✔ Reverse cycle heat pump capacity
- ✔ Operates in ambient temperatures of up to +45°C



### DESCRIPTION

Celsius Hire 300KW 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 from a refrigerant circuit of R410A/R454B and has 4 no. scroll compressors. This allows 25-100% capacity control for smaller and variable heat loads. The unit is complete with a flow switch and associated safety switches.

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 300KW 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

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0800 702 2161

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Email us at:

[sales@celsiushire.com](mailto:sales@celsiushire.com)



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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	290
FLUID FLOW	L/S	14

**PERFORMANCE DATA AT DESIGN CONDITIONS (HEATING)**

DESIGN CONDITIONS	°C	45°C Supply / 35°C Return / 10°C Ambient
COOLING CAPACITY	KW	310
FLUID FLOW	L/S	8

**OPERATING LIMITS**

MIN/MAX SUPPLY TEMPERATURE	°C	-12 / +50
MIN/MAX AMBIENT TEMPERATURE	°C	-10 / +45
MIN/MAX FLUID FLOW	L/S	8.0/20.0
CHILLER WATER VOLUME	L	50
MAX WORKING PRESSURE	Bar	10.0

**ELECTRICAL DATA**

ELECTRICAL SUPPLY VOLTAGE	V	410
SUPPLY		3Ph & E, No Neutral
POWER CONNECTIONS	Inside Panel	12mm Lugs
FULL LOAD RUNNING CURRENT (MAX)	A	197
START-UP CURRENT (MAX)	A	511
MAX POWER ABSORBED	KW	85

**PHYSICAL DATA**

LENGTH	mm	3,380
WIDTH	mm	2,280
HEIGHT	mm	2,450
WEIGHT (DRY)	KG	2,510
WEIGHT (WET)	KG	2,550
FLUID COUPLING SIZE	mm	100
SOUND PRESSURE	dB(A) at 10 metres	60.2

**COOLING SYSTEM DATA (AXIAL)**

REFRIGERANT GAS	HFC	R454B
REFRIGERANT QUANTITY	Kg (Total)	73KG
NUMBER OF CIRCUITS	Total	2
NUMBER OF COMPRESSORS	Total	4
NUMBER OF FANS	Total	4
FANS AIRFLOW	m3/hr	90,000



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