



## TECHNICAL SPECIFICATION FOR: 1000KW CHILLER

### OVERVIEW

- ✔ Operates in ambient temperatures of up to +45°C
- ✔ Capacity control with 2 no. Bitzer compressors
- ✔ EC fans included



### DESCRIPTION

Celsius Hire's 1,000KW CHILLER is an eco-design compliant model offering a large temperature range thanks to a refrigerant circuit composed of R134A and 2 no. Bitzer screw compressors. This allows 10%-100% capacity control for smaller and variable heat loads. The model has a compact footprint, but with its efficient design is able to operate in ambient temperatures of up to 45°C.

The unit is complete with a shell and tube evaporator, flow switch and associated safety switches. This, coupled with Celsius Hire's full supporting range of pump sets, buffer tanks, cables and hoses allows installation on a wide range of applications, from process cooling to HVAC systems.

**CELSIUS HIRE**

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**PERFORMANCE DATA AT DESIGN CONDITIONS**

DESIGN CONDITIONS	°C	7°C Supply / 12°C Return / 30°C Ambient
COOLING CAPACITY	KW	1,000
DESIGN FLUID FLOW	L/S	48

**OPERATING LIMITS**

MIN/MAX FLUID LEAVING TEMPERATURE	°C	-10 / +20
MIN/MAX AMBIENT TEMPERATURE	°C	-10 / +45
MIN/MAX FLUID FLOW	L/S	36 / 58
CHILLER WATER VOLUME	L	250
MAX WORKING PRESSURE	Bar	10

**ELECTRICAL DATA**

ELECTRICAL SUPPLY VOLTAGE	V	410
SUPPLY		3Ph & E, No Neutral
POWER CONNECTIONS	Inside Panel	12mm lugs
FULL LOAD RUNNING CURRENT (MAX)	A	670
START-UP CURRENT (MAX)	A	1077
MAX POWER ABSORBED	KW	330

**PHYSICAL DATA**

LENGTH	mm	9310
WIDTH	mm	2100
HEIGHT	mm	2600
WEIGHT (DRY)	KG	8845
WEIGHT (WET)	KG	9190
FLUID COUPLING SIZE	mm	150
SOUND PRESSURE	dB(A) at 10 metres	60

**COOLING SYSTEM DATA**

REFRIGERANT GAS	HFC	R134A
REFRIGERANT QUANTITY	Kg (Total)	288KG
NUMBER OF CIRCUITS	Total	2
NUMBER OF COMPRESSORS	Total	2
NUMBER OF FANS	Total	16
FAN TYPE		EC
FANS AIRFLOW	m3/hr	344,000



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