



## TECHNICAL SPECIFICATION FOR:

# 300KW CHILLER

## OVERVIEW

- ✔ Operates in ambient temperatures of up to +45°C
- ✔ Capacity control with 4 no. scroll compressors
- ✔ Low water leaving temperature option with wide range R410A refrigerant



## DESCRIPTION

Celsius Hire's 300KW chiller is an eco-design compliant model offering a large temperature range thanks to a refrigerant circuit composed of R410A and 4 no. scroll compressors. This allows 25%-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	300
DESIGN FLUID FLOW	L/S	15

**OPERATING LIMITS**

MIN/MAX FLUID LEAVING TEMPERATURE	°C	-10 / +20
MIN/MAX AMBIENT TEMPERATURE	°C	-10 / +45
MIN/MAX FLUID FLOW	L/S	9 / 20
CHILLER WATER VOLUME	L	200
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	190
START-UP CURRENT (MAX)	A	460
MAX POWER ABSORBED	KW	82.8

**PHYSICAL DATA**

LENGTH	mm	3,380
WIDTH	mm	2,280
HEIGHT	mm	2,450
WEIGHT (DRY)	KG	2510
WEIGHT (WET)	KG	2710
FLUID COUPLING SIZE	mm	100
SOUND PRESSURE	dB(A) at 10 metres	60.2

**COOLING SYSTEM DATA**

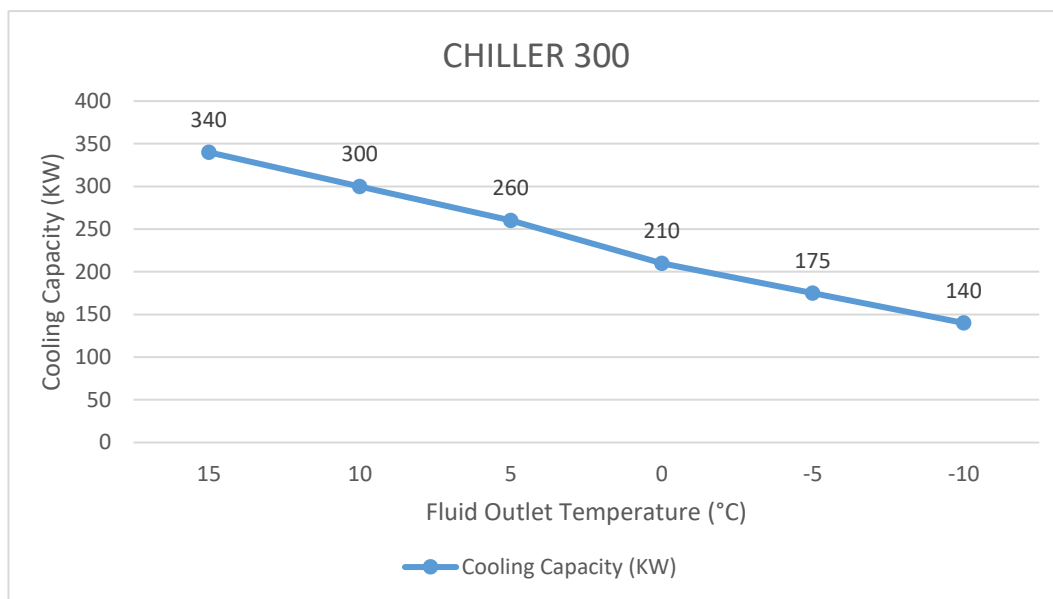
REFRIGERANT GAS	HFC	R410A / R454B
REFRIGERANT QUANTITY	Kg (Total)	48KG
NUMBER OF CIRCUITS	Total	2
NUMBER OF COMPRESSORS	Total	4
NUMBER OF FANS	Total	4
FAN TYPE		Axial EC
FANS AIRFLOW	m3/hr	90,000



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This 'de-rate table' is a rough guide as to chiller cooling capacity at different outlet fluid temperatures allowing for quick selection on applications. It is based on a 30°C ambient temperature and glycol mix to suit outlet temperature. For accurate selection we are able to run a full selection on your application.



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