



TECHNICAL SPECIFICATION FOR:

70KW LOW TEMP CHILLER

OVERVIEW

- ✔ Integral 3bar pump
- ✔ Water/glycol set points down to -30°C
- ✔ Selected with external buffer tank to enable close capacity control



DESCRIPTION

Celsius Hire 70KW Low Temp Chiller is a compact, small footprint unit, selected due to its flexibility and handling across a variety of applications. It is an air-cooled chiller, designed to operate down to a minimum water/glycol set point of -30°C. This allows use for process cooling solutions requiring lower temperatures, in addition to being used alongside Celsius Hire's range of fan coil units to provide temporary solutions in industrial freezer rooms.

The chiller has a circuit comprised of R455A and has 2 no. Semi hermetic compressors. The chillers benefit from an integral circulation pump and will be selected with an external buffer tank, enabling steady water/glycol temperatures as a result of increased volume.

CELSIUS HIRE

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PERFORMANCE DATA AT DESIGN CONDITIONS

DESIGN CONDITIONS	°C	-25°C Supply / -20°C Return / 30°C Ambient
COOLING CAPACITY	KW	70KW
FLUID FLOW	L/S	4.0

OPERATING LIMITS

MIN/MAX SUPPLY TEMPERATURE	°C	-30 / -10
MIN/MAX AMBIENT TEMPERATURE	°C	-10 / +45
MIN/MAX FLUID FLOW	L/S	3.0/7.0
MAX PUMP DELIVERY PRESSURE	Bar	2.8
CHILLER WATER VOLUME	L	50
MAX WORKING PRESSURE	Bar	6.0

ELECTRICAL DATA

ELECTRICAL SUPPLY VOLTAGE	V	410
SUPPLY		3Ph & E, No Neutral
POWER CONNECTIONS	Inside Panel	12mm lugs
FULL LOAD RUNNING CURRENT (MAX)	A	220
START-UP CURRENT (MAX)	A	603
MAX POWER ABSORBED	KW	120

PHYSICAL DATA

LENGTH	mm	3,930
WIDTH	mm	1,600
HEIGHT	mm	2,120
WEIGHT (DRY)	KG	1,940
WEIGHT (WET)	KG	1,990
FLUID COUPLING SIZE	mm	50
SOUND PRESSURE	dB(A) at 10 metres	62.3

COOLING SYSTEM DATA

REFRIGERANT GAS	HFC	R445A
REFRIGERANT QUANTITY	Kg (Total)	26KG
NUMBER OF CIRCUITS	Total	2
NUMBER OF COMPRESSORS	Total	2
NUMBER OF FANS	Total	2
FAN TYPE		Axial



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