



CHILLER 400



ABOUT THE CHILLER

ICS Cool Energy's Chiller 400 includes the latest energy-saving scroll compressors (4) and an internal circulation pump, providing cooling between -12°C & +20°C leaving water temperatures and offering 21% - 100% capacity control.

The chiller offers the zero ozone depleting refrigerant R410A and is manufactured to the latest environmental ISO14001 controls.

With low noise (58 dB(A)) operation and compact footprint the Chiller 400 is currently one of the smallest chiller/kW available in the UK.

CONTACT US

Call us free on
0800 840 4210 or
visit our website
www.icscoolenergy.com

Depots Nationwide

hire@icscoolenergy.com

THE ICS COOL ENERGY PORTFOLIO

ICS Cool Energy can also supply the following equipment:

- Air-cooled rental chiller range from 0.3kW – 1,000kW units.
- Water-cooled rental chiller range from 7.5kW – 1,000kW units.
- Air handling units & fan coils from 5kW – 500kW duties.
- Air conditioning units from 1.3kW – 350kW units.
- Low temperature chillers (-40°C) and fan coils (0°C air off).

- Dehumidifiers (desiccant & electric) 200-10,000m³/hr.
- Generator Power with 20KVA – 800KVA, fuel tanks and management.
- Air distribution (flexible ducting and perforated air socks).
- Hot water generators and boilers from 25kW – 500kW units.
- Heating (office/warehouse) from 3kW to 200kW electric/indirect/heat pump.

We also provide full installation, transportation, lifting and monitoring.

E&OE. All data is subject to change and continuous improvement without notice. Equipment designed to ISO 9001 and all relevant electrical, pressure and mechanical directives.

© ICS Cool Energy. All rights reserved.

**THE TEMPERATURE CONTROL SPECIALISTS.
SALES. HIRE. SERVICE.**

WWW.ICSCOOLENERGY.COM



TECHNICAL CHILLER 400

PERFORMANCE DATA @ DESIGN CONDITIONS

Cooling Capacity	kW	419.1
Operation Fluid Temperature IN/OUT	°C	12/7
Design Ambient Temperature	°C	30
Fluid Flow Min/Max	m ³ /hr	30.6/123.1
	l/s	8.5/34.2

OPERATING LIMITS

Min/Max Ambient Temperature	°C	-10/+46
Min/Max Leaving Fluid Temperature	°C	-12/+20
Max Working Pressure	bar	4
Evaporator Water Volume	1	40.4

ELECTRICAL DATA

Electrical Supply Voltage 3 phase	V	400
Chiller Power Connections		120mm single core cables (set of 4)
Cable Connection	M12	3 core + earth, no neutral
Max Power Absorbed	kW	197
Max Current Absorbed (+7°C)	A	370
Starting Current (Max)	A	428
Pre-Heating Crankcase Supply	V	230
AUX Supply Connection for pump		32A Ceeform
Recommended Generator Set	kVA	300
Control System		UC800

REFRIGERANT SYSTEM

Scroll Compressors (Dual circuits)		4
Refrigerant	HFC	R410A

FANS

Total Number	1.1kW each	6
Total Airflow	m ³ /hr	103,290

SOUND DATA

Sound Pressure Level at 10 metres (ISO3744)	dB(A)	58
---------------------------------------------	-------	----

PHYSICAL DATA

Overall Length	mm	4,300
Overall Width	mm	2,450
Overall Height	mm	2,660
Weight	kg	3,450
Fluid Coupling Size	mm/inch	100/4"
Fluid Coupling Type		PN10 Flange
SEER Rating		158.5
SEPR HT Rating		4.56
SEPR MT Rating		3.61

CONTACT US

Call us free on
0800 840 4210 or
visit our website
www.icscoolenergy.com

Depots Nationwide

hire@icscoolenergy.com

E&OE. All data is subject to change and continuous improvement without notice. Equipment designed to ISO 9001 and all relevant electrical, pressure and mechanical directives.

© ICS Cool Energy. All rights reserved.

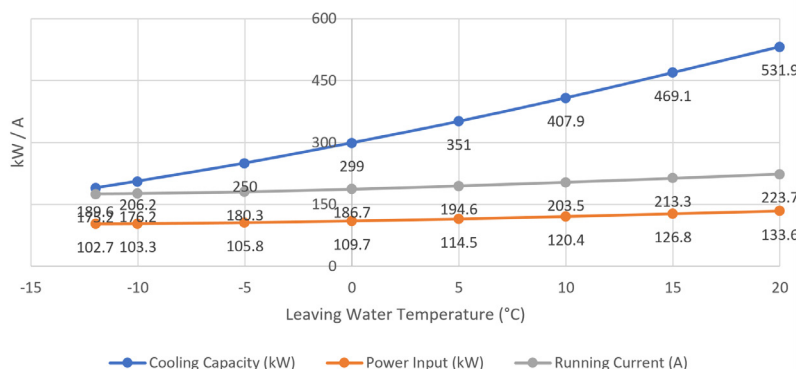
THE TEMPERATURE CONTROL SPECIALISTS.
SALES. HIRE. SERVICE.

WWW.ICSCOOLENERGY.COM



PERFORMANCE

Chiller 400 @ 30°C Ambient



SOUND LEVELS

Measurements are taken in accordance with the standard ISO 3744.

Sound pressure average value obtained in free field on a reflective surface at a distance of 10m from the longer side of the machine at a height of 1.6m ± 2 under full load in nominal conditions.

For measurements closer than 10m add the following: 5m +6, 3m +10 and 1m +15.

OCTAVE BANDS (HZ)								SOUND PRESSURE							
63	125	250	500	1000	2000	4000	8000								
SOUND POWER LEVEL dB(A)								dB(A)							
								83	82	89	87	81	73	70	90
SOUND PRESSURE								dB(A) 10m							
								51	50	57	55	49	41	38	58

Additional Services: ICS Cool Energy can provide attenuated equipment and services to help further reduce the impact of our equipment to help meet your specific site requirements.

CONTACT US

Call us free on
0800 840 4210 or
 visit our website
www.icscoolenergy.com

Depots Nationwide

hire@icscoolenergy.com

SUB 5°C WATER APPLICATIONS

When installing a chiller and/or air handling piece of equipment, we would recommend the use of the following mix of Glycol for the systems total volume of fluid. This will protect the equipment against internal freezing and failure (e.g. 200 litre volume @ 0C foodsafe equals 30 litres of Glycol and 270 litres of water). Weekly checks should be made by the site maintenance engineer/manager to ensure the correct mix is present in the system.

WATER TEMPERATURE			+5 °C	0 °C	-5 °C	-10 °C	-15 °C
INDUSTRIAL GRADE	Mono Ethylene	% Mix	5	10	20	25	30
FOODSAFE GRADE	Mono Propylene Ethylene	% Mix	10	15	20	25	30
BIO FOODSAFE GRADE (MADE FROM VEGETABLE EXTRACTS)	Biodegradeable Glycol	% Mix	10	15	20	25	30

E&OE. All data is subject to change and continuous improvement without notice. Equipment designed to ISO 9001 and all relevant electrical, pressure and mechanical directives.

© ICS Cool Energy. All rights reserved.

THE TEMPERATURE CONTROL SPECIALISTS.
 SALES. HIRE. SERVICE.

WWW.ICSCOOLENERGY.COM