



CHILLER 500



ABOUT THE CHILLER

ICS Cool Energy's Chiller 500 has the latest energy saving bitzer screw compressors (2), offering a wide temperature range of -10°C to 15°C water leaving temperature and 25% - 100% capacity control.

The chiller is fully F-Gas Certified and offers the zero ozone depleting HFC refrigerant R134a and manufactured to the latest environmental ISO14001 controls.

With low noise (54dB(a)) operation and compact footprint, the Chiller 500 unit is currently the smallest chiller/kW available in the UK.

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.

CONTACT

Bel ons op
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TECHNICAL CHILLER 500

PERFORMANCE DATA @ DESIGN CONDITIONS

Cooling Capacity	kW	520
Operation Fluid Temperature IN/OUT	°C	12/7
Design Ambient Temperature	°C	30
Fluid Flow Min/Max	m ³ /hr	56.8/152.0
	l/s	15.7/42.2

OPERATING LIMITS

Min/Max Ambient Temperature	°C	-18/43
Min/Max Leaving Fluid Temperature	°C	-10/15
Evaporator Pressure Drop	kPa	37.8
Max Working Pressure	kPa	1,000
Evaporator Water Volume	1	200

ELECTRICAL DATA

Electrical Supply Voltage 3 phase	V	400
Chiller Power Connections		12mm lugs
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	400
Control System		W3000

REFRIGERANT SYSTEM

Bitzer Screw Compressors (2 circuits)		2
(50-100% Variable Capacity)		
Refrigerant (Zero ozone depletion potential)	HFC	R134a
Refrigerant/oil charge	kg	126/44

FANS

Total Number	1.1kW each	10
Total Airflow	m ³ /hr	30.6

SOUND DATA

Sound Pressure Level at 10 metres (ISO3744)	dB(A)	57
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PHYSICAL DATA

Overall Length	mm	4,900
Overall Width	mm	2,260
Overall Height	mm	2,430
Weight	kg	6060
Fluid Coupling Size	mm/inch	100/4"
Fluid Coupling Type	choice	PN16 Flange/bauer
IPLV Rating		4.07
ESEER Rating		3.60

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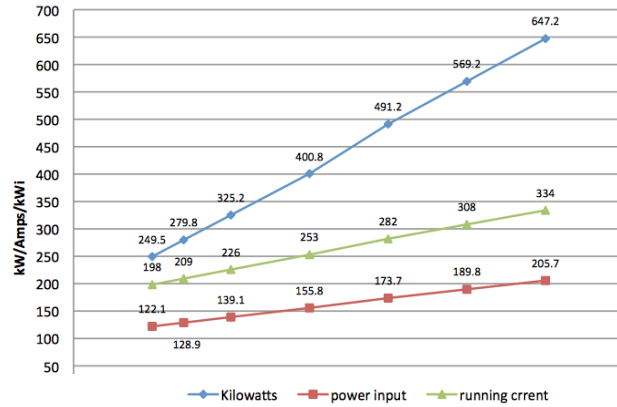
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PERFORMANCE

Chiller 500
in 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 normal conditions.

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

OCTAVE BANDS (H3)								SOUND PRESSURE	
63	125	250	500	1000	2000	4000	8000		
SOUND POWER LEVEL dB(A)								dB(A) 10m	
49	47	50	54	55	46	34	27	57.0	

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.

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