



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.

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.

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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 |
|---|-------|----|

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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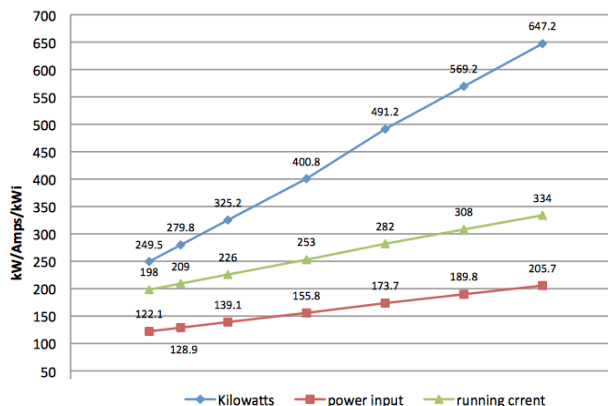
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PERFORMANCE

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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