



CHILLER 135



ABOUT THE CHILLER

ICS Cool Energy's Chiller 135 has an integral thermal buffer tank.

This chiller offers a wide temperature range of -10°C to 15°C water leaving and can be modified to -20°C where necessary. The unit is also supplied with an integral process pump together with quick-release water and power connections for a fast start-up.

With low noise operation and compact footprint, the Chiller 135 is fully packaged to simplify installation on site with easy set up and control.

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

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TECHNICAL CHILLER 135

PERFORMANCE DATA @ DESIGN CONDITIONS

Cooling Capacity	kW	135
Operation Fluid Temperature IN/OUT	°C	12/7
Design Ambient Temperature	°C	30
Fluid Flow Min/Max	m ³ /hr	22.3/48.0
	l/s	6.2/13.3

OPERATING LIMITS

Min/Max Ambient Temperature	°C	-18/43
Min/Max Leaving Fluid Temperature	°C	-10/15
Evaporator Pressure Drop	kPa	41
Max Working Pressure	BAR	6
Evaporator Water Volume	1	500

ELECTRICAL DATA

Electrical Supply Voltage 3 phase	V	400
Chiller Power Connections		125amp C Forme 5 pin Plug
Max Power Absorbed	kW	43
Max Current Absorbed	A	98 (75 Nominal)
Starting Current (Max)	A	170
Recommended Generator Set	kVA	100
Control System		Dixell

REFRIGERANT SYSTEM

Maneurop Scroll Compressors (2 circuits) (25-100% Capacity)		2
Refrigerant (Zero ozone depletion potential)	HFC	R407C / 410A

FANS

Total Number	1.2kW each	2
Total Airflow	m ³ /hr	42.0

SOUND DATA

Sound Pressure Level at 10 metres (ISO3744) (see separate guide attached for octave band detail)	dB(A)	53.6
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PHYSICAL DATA

PHYSICAL DATA			WITH FRAME
Overall Length	mm	3,300	3,800
Overall Width	mm	1,275	1,330
Overall Height	mm	2,200	2,300
Weight	kg	1,300	1,800
Fluid Coupling Size	mm/inch	2" Bauer	-

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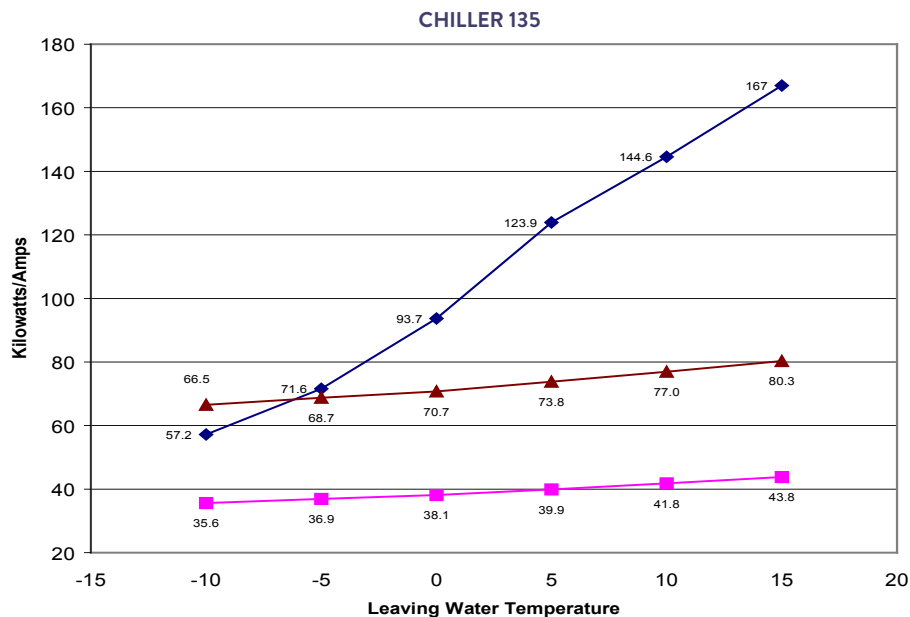
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PERFORMANCE



◆ Cooling Capacity (kW)
 ■ Power Input (kW)
 ▲ Running Current (Amps)

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
51	49	52	56	57	48	36	29	54.0	

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.

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 @ 0 °C foodsafe equals 30 litres of Glycol and 170 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/GLYCOL RECOMMENDATIONS AND GUIDE:							
Water Temperature			5 °C	0 °C	-5 °C	-10 °C	-15 °C
Industrial Grade	Mono Ethylene Glycol	% Mix	5	10	20	25	30
Foodsafe Grade	Mono Propylene Glycol	% Mix	10	15	20	25	30
Bio Foodsafe Grade (made from vegetable extracts)	Biodegradable Glycol	% Mix	10	15	20	25	30

Glycol can be purchased from ICS Cool Energy in 25 litre, 205 litre and 1,000 drums.

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