

100kW Chiller

Cooling only, Heat pump and Low Temperature models



Operating Instructions & Safety Guide



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General Safety

- This equipment should only be used by a competent person who has read and understood these instructions.
- Check condition of equipment before use. If unit is showing any signs of damage contact your supplier immediately.
- Never operate this equipment if you are ill, feeling tired or under the influence of alcohol or drugs.
- Keep all vents and grills clear of obstructions.
- Keep children and animals away from electric powered equipment. Never leave them alone when the unit is in use.
- Make sure equipment is switched off and unplugged after use.

Electrical Safety

- This unit operates on a 415 volt 5pin 125amp power supply
- Always inspect plugs and power cables for damage before plugging into power supply.
- DO NOT USE IF ANY DAMAGE IS FOUND.
- Ensure cables are installed to prevent hazards.
- If an extension lead is used, ensure it is of the correct standard and fully uncoiled before use.
- Cables must not be laid in wet or damp areas.
- Do not move equipment while operating.

Getting started and operation

Position equipment on level ground.

Position away from any possible flammable materials.

Do not use within any zoned or hazardous areas.

Do not position chiller inside of any building or temporary structure

Keep at least 1 meter of clearance around the chiller and dont restrict the air flow around the chiller

If you require the leaving water temperature to be lower then 7 degrees Celsius then glycol mixture must be used.

Fig 1

5 pin 125amp 415 volt Appliance inlet plug found on the 100kW Chiller (Red)
240 volt 16amp Appliance inlet plug for compressor crankcase heater (Use this when 3 phase power is not available to warm oil inside the compressors) Blue plug.



Fig 1

Fig 2 :
Connect the flow and return pipework below 2" Bauer.
Connect the water filling hose pipe to the bottom left filling point making sure the purge point bleed tape is open.



Fig 2 :
Return connection on the Left with in line strainer. Flow connection on the right

Fig 3:
Header tank to be used to top up the chiller with water and continue to purge the system of Air



Fig 4 :
When the electrical supply is connected and turned on then the phase rotation must be checked inside the electrical panel. Yellow light indicates correct phase rotation.



Fig 5 : Control panel

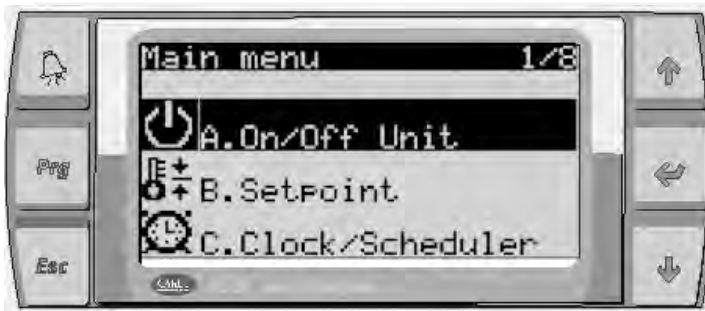


Fig 5:
Carel 6 button controller
Cooling, heating and Low temp selection is selectable through the controller

Fig 6 :



Fig 6:
Normal running conditions will have the flow and return temperatures displayed on the controller and the condensing fan motors on top of unit will only run when the unit needs to remove the heat from the condensing coils

Fig 4:
If phase rotation is incorrect then the controller will not light up and the unit will not work