375kW Chiller

Cooling and Low Temperature models

Operating Instructions & Safety Guide

ANDREWS CHILLERS

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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 isolated from the power supply and disconnected after use

Electrical Safety

- This unit operates on a 415 volt 199amp hard wired power supply. Recommended fuse or circuit breaker rating at customers supply would be 250amps per phase
- Always inspect power cables for damage before connecting into power supply.
- DO NOT USE IF ANY DAMAGE IS FOUND.
- Ensure cables are installed correctly to prevent hazards.
- Cables must be fulled laid out and not coiled up when in use
- Cables must not be laid in wet or damp areas.
- Do not attempt to move the 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

Power cable required is 415 volt 199amp
95mm2 single cored cable required x4.
Cable runs over 50 meter will require a larger sized cable
No Neutral cable required.

Fig 1:
Cable entry tray is positioned below main isolator switch.
4 x 95mm cables required for hard wired connection.

Fig 2 :
Connect the flow and return pipework below. 4" Bauer

Fig 2 :
Return connection at the top of the buffer tank with in line strainer. Flow connection on the outlet of the pump after the heat exchanger

Fig 3:
Buffer tank to be used to fill the chiller with water and purge the system of Air

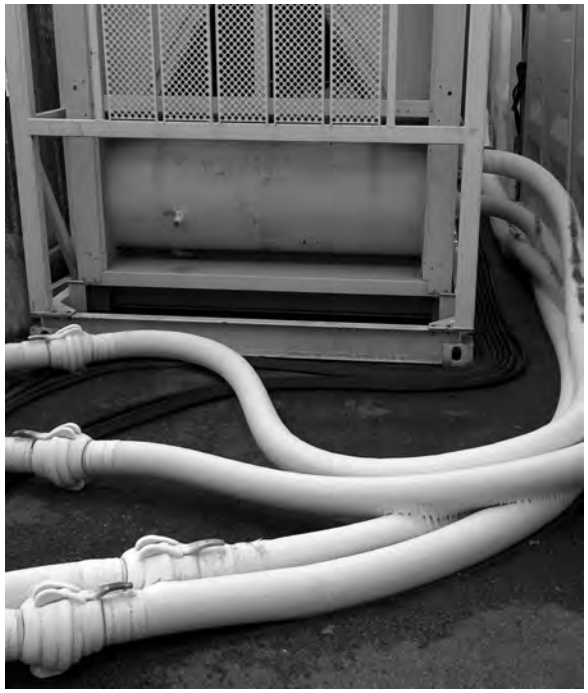

Fig 4 :
When the electrical supply is connected and turned on then the phase rotation must be checked inside the electrical panel. Green and yellow lights indicates correct phase rotation.

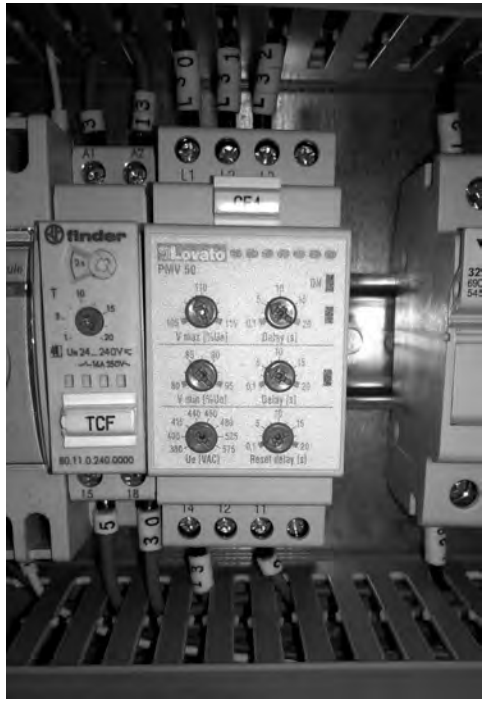

Fig 4:
If phase rotation is incorrect then the controller will not light up and the unit will not work

Fig 5 : Control panel

Fig 5:
Trane touch screen controller Cooling and Low temperature 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