

# 750kW Chiller

## Cooling 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 isolated from the power supply and disconnected after use

### Electrical Safety

- This unit operates on a 415 volt 576amp hard wired power supply. Recommended fuse or circuit breaker rating at customers supply would be 650amps 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 fully 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.

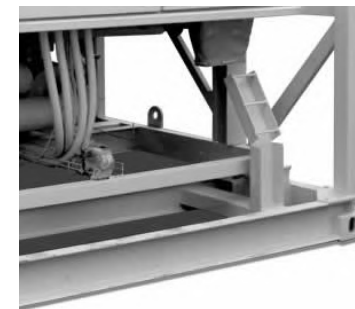
Do not position chiller inside of any building or temporary structure

Keep at least 1 meter of clearance around the chiller and don't restrict the air flow around the chiller

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

### Fig 1

Power cable required is 415 volt 576amp 240mm<sup>2</sup> single cored cable required x4. Cable runs over 50 meter will require a larger C.S.A sized cable  
No Neutral cable required.  
415 volt 63amp appliance outlet socket mounted on the unit to power external inverter driven pump.

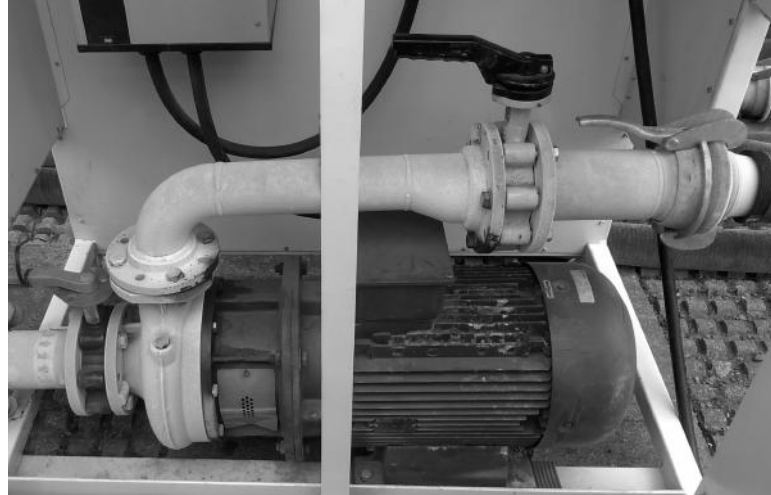


**Fig 1:** Cable entry point is positioned next to the main control panel. 4 x 240mm cables required for hard wired connections. Cables to run in metal tray.

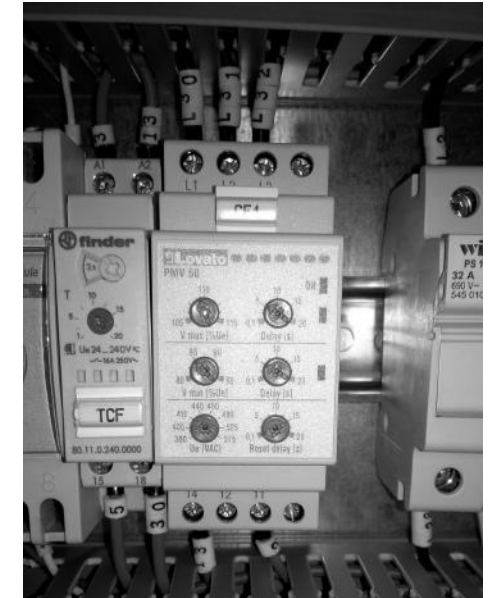
**Fig 2 :**  
Connect the flow and return pipework 4" Bauer. External pump to be used and connected with flow connection on chiller connected to the suction side of the external pump.



**Fig 3:**  
External inverter driven 4" bauer pump requires a 415 volt 63amp power supply. The power is supplied via the 63amp appliance outlet socket on the 750kW Chiller. This is interlocked with the chillers flow switch.



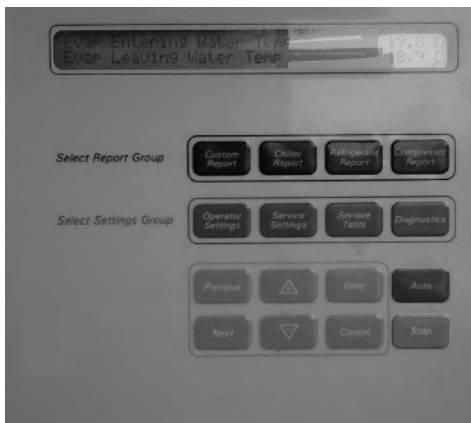
**Fig 4 :**  
When the electrical supply is connected and turned on the phase rotation must be checked inside the electrical panel. The yellow and green lights indicates correct phase rotation.



**Fig 2 :**  
External pump to pump into the system and then the system return pipework to connect onto the return connection on the chiller. In-line water strainer on the return connection.

**Fig 4:**  
If phase rotation is incorrect The controller will still switch on. phase rotation must be correct to avoid any damage to equipment due to reversal damage.

**Fig 5 : Control panel**



**Fig 5:**  
Trane controller selects from cooling mode to low temperature mode



**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