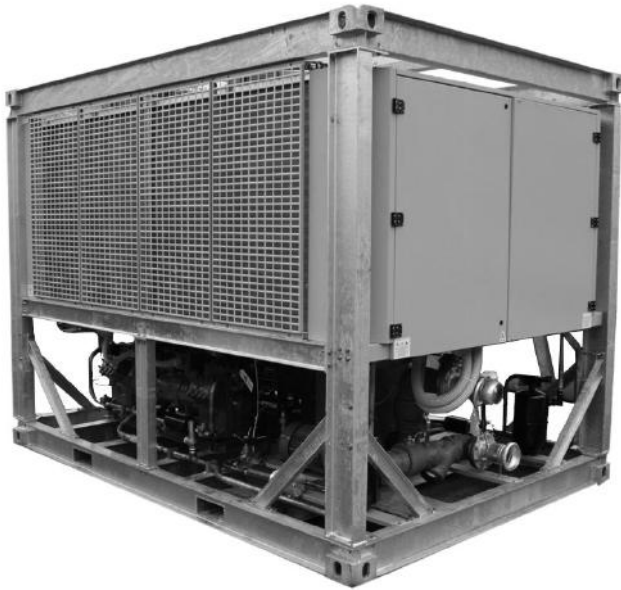


# 500kW Chiller

## Cooling and Low Temperature models



## Operating Instructions & Safety Guide



0800 211 611  
andrews-sykes.com

### 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 320amp hard wired power supply. Recommended fuse or circuit breaker rating at customers supply would be 400amps 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.

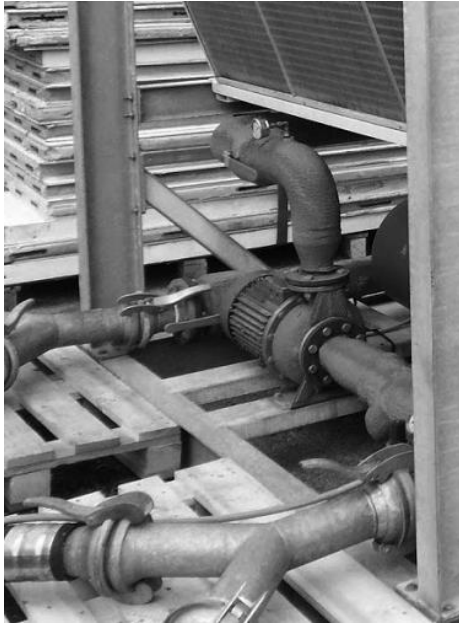
### Fig 1

Power cable required is 415 volt 320amp  
120mm<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.



**Fig 1:** Cable entry point is positioned next to the main control panel. 4 x 120mm cables required for hard wired connections. Example of the single cored cables used.

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



**Fig 2 :**  
Return connection is connected to the suction side of the circulating pump and the pump circulates through the plate heat exchanger and then onto the flow connection.

**Fig 5 : Control panel**



**Fig 5:**  
Carel PGD User interface controller selects from cooling mode to low temp mode

**Fig 3:**  
When it comes to filling the system with water you can back fill the chiller and hoses from the customers system or connect an external hose to the chiller via the fill point on the internal pump.



**Fig 6 :**



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