

FT63 Laboratory Process Chiller



The FT63 is a recirculating process chiller, providing a continuous supply of chilled liquid to serve as the cooling fluid when used with an Armfield miniature scale processing unit. It is particularly suitable for use with an Armfield FT74 UHT system.

FEATURES

- *Continuously recirculating glycol solutions for cold chilled liquid temperatures*
- *Temperature controller on chilled liquid outlet allows stable processing*
- *High cooling capacity*
- *Integral high capacity liquid pump*
- *Mobile unit*
- *Washable control panel*

BENEFITS

- *Low refrigerant charge*
- *Low running costs*
- *Easily cleaned and maintained*

MINIATURE SCALE R&D TECHNOLOGY



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Description

Low pressure refrigerant gas enters the compressor where it is pumped as high pressure gas to the condenser. Here it is cooled and condensed to a high pressure liquid by the cool air flow of the fan. The liquid refrigerant then passes via the filter to the capillary. When the cooling effect is greater than the heat load to be dissipated, the balance is stored in the thermal mass made by the tank water/glycol volume. The water/glycol outlet temperature and thermal mass temperature are controlled by the thermostat which cycles the refrigerant compressor and the motor fan when the preset lower limit is reached. A bypass valve is provided on the water/glycol circuit to allow the cooling fluid to be recirculated independently of the process connections.

Compressor:

Reciprocating hermetically sealed compressor with a refrigerant cooled motor.

Evaporator:

Made of finned aluminium coil, copper tubes and galvanized carbon steel sheets.

Condenser:

Single air-cooled condenser manufactured from aluminium fins mechanically bonded to refrigeration grade copper tubes. The condenser fan is of a low noise axial type. Fan blades are fully enclosed by a safety grill.

Specification

Cooling capacity:

The cooling capacity of a chiller is dependent on its operating conditions, particularly the liquid temperature and concentration.

The FT63 has a cooling capacity of 2Kw with an outlet temperature of +3°C and using a 20% glycol solution (typical FT74 application). For other applications please consult Armfield.

Refrigerant: R407C freon

Max. ambient temp: 32°C

Electrical Supply (Ordering Specification)

FT63-A:

Laboratory Process Chiller 230V/1 phase/50Hz

FT63-G:

Laboratory Process Chiller 220V/1 phase/60Hz

Overall dimensions

Depth: 570mm

Width: 744mm

Height: 750mm

Shipping specification

Volume: 0.7m³

Gross weight: 160kg