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Miniature-scale research & development technology

LABORATORY PROCESS CHILLER FT63



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ISO 9001:2008
2YR EXTENDED WARRANTY

AL
ASEPTIC LINE
COMPONENT

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 FT74XTS UHT system.

FEATURES

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

BENEFITS

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

ISSUE 3



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Armfield R&D products include:

316 Stainless steel ✓

CE certification ✓

Extended warranty as standard ✓



armfield
An ISO 9001 Company

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Description

The FT63 contains a reservoir of cooled fluid, which is pumped through the external process to be cooled (eg heat exchanger system).

The cooling fluid can be water or a mixture of glycol and water depending on the output temperature required. This fluid is cooled by the integral refrigeration system.

A high-pressure pump is used to pump the fluid through the process. A bypass valve facility enables the fluid to be recirculated independently of the process conditions.

Compressor

Reciprocating hermetically sealed compressor with a refrigerant cooled motor.

Evaporator

Packaged coil type, made of copper tubes and aluminium fins.

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.



Chiller rear view, showing valve connections

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 typical cooling capacity of 2kW with an outlet temperature of 0°C, using a 20% glycol solution (typical FT74 application). For other applications please consult Armfield.

Refrigerant: R407C Freon

Max ambient temp: 32°C

Process pump:

Head: 6 bar max

Flow rate: 4.8 m³/hr at 3.7 bar

Reservoir capacity: 25 litres

Electrical supply (Ordering codes)

FT63SS-A:

Laboratory Process Chiller
230V / 1ph / 50Hz / 15A

FT63SS-G:

Laboratory Process Chiller
220V / 1ph / 60Hz / 16A

Overall dimensions

Depth: 0.70m

Width: 0.80m

Height: 0.53m

Shipping specification

Volume: 0.7m³

Gross weight: 160kg