

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 FT174XTS, FT174X and FT102X//LT systems

**Washable digital control panel****Features / benefits**

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

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.

Requirements

Scale



1Ph



► Electricity supply: Single phase (see ordering codes)

Technical specifications

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 FT174X application). For other applications please consult Armfield.

| | |
|-------------|-------------|
| Refrigerant | R407C Freon |
|-------------|-------------|

| | |
|------------------|------|
| Max ambient temp | 32°C |
|------------------|------|

Process pump

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|------|-----------|
| Head | 6 bar max |
|------|-----------|

| | |
|-----------|-----------------------------------|
| Flow rate | 4.8 m ³ /hr at 3.7 bar |
|-----------|-----------------------------------|

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|--------------------|-----------|
| Reservoir capacity | 25 litres |
|--------------------|-----------|

Overall dimensions

| | |
|--------|-------|
| Length | 0.80m |
|--------|-------|

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|-------|-------|
| Width | 0.70m |
|-------|-------|

| | |
|--------|-------|
| Height | 0.97m |
|--------|-------|

Packed and crated shipping specifications

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|--------|-------------------|
| Volume | 0.7m ³ |
|--------|-------------------|

| | |
|--------------|-------|
| Gross weight | 160Kg |
|--------------|-------|



FT 63 Laboratory Process Chiller rear inlet/outlet connections are clearly marked and are high quality fittings



Typical process line including the FT63



Ordering codes

- FT63SS-A: Laboratory Process Chiller 230V / 1ph / 50Hz / 15A
- FT63SS-G: Laboratory Process Chiller 220V / 1ph / 60Hz / 16A

Knowledge base

- > 28 years expertise in research & development technology
- > 50 years providing engaging engineering teaching equipment

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