Flow heaters

Grant
IN THE LABORATORY

Flow heaters are compact, closed circulators designed for applications where an open tank is unsuitable or inconvenient.

Once the system has been filled, the liquid level requires no monitoring (in a closed system) and there is no risk of contamination from dust or particles in the air. Flow heaters are widely used in conjunction with corrosion-resistant heat exchange coils for controlling the temperature of tanks containing corrosive liquid.

Circulator

- for circulation through open and closed systems

ambient +5°C to 80°C operation

Stability ±0.004°C

Digital setting and display

Construction

- temperature control unit, miniature heating chamber and pump, all housed in an outer case, with inlet and outlet pipes at the rear

Design features

- units are compact and designed to take up the minimum of bench space
- robust, with powerful pumping so they can equally well be located beneath the bench
- constructed from corrosion resistant materials – particularly important if anti-freeze is to be used

SPECIFICATION – FH flow heater

			FH16-D
Temperature range		**°C**	ambient +5 to 80
Stability (DIN 58966)		**°C**	±0.004
Temperature setting			digital
Temperature display			LCD
Display resolution		**°C**	0.1
Heater power	**220-240V**	**kW**	0.75
Overall consumption	**220-240V**	**kW**	0.85
Liquid flow rate	**max.**	**L/min**	19
Pump head pressure	**@ 0 L/min**	**metres**	2.2
Overall dimensions	**l/w/h**	**mm**	340/205/140
Safety	**temperature**		adjustable cut-out
Electrical supply		**V**	220-240
		Hz	50-60

FH16-D

accessories

BS15 filler/de-aerator and bypass system

BS15 simplifies filling and de-aerating of closed systems; connecting pipes for the external circuit are 6mm o.d.; connections to the flow heater are 15mm o.d.

BS15

Pipe insulation PF

PF foamed polyurethane tubing; 2 metre lengths with 16mm i.d. and 9mm wall.

Remote temperature probes

FF17 flexible nylon probe has a very fast response; 100mm long, 4.5mm dia.
LL17 robust stainless steel probe, slower response; 125mm long, 5mm dia.
Fitted with two metres of cable. Special probes can be supplied for use in corrosive liquids.

Equipment safety

Flow heaters meet the requirements of IEC61010.

CE mark

The FH bears a CE mark to indicate that they meet the requirements of the Low Voltage and EMC Directives.

International quality standards

Grant Instruments (Cambridge) Ltd. operates an approved Quality Management System which complies with the requirements of BS EN ISO 9001:2000 for the activities detailed in the scope of registration. Certificate No. FM 24301.

After sales service

In the United Kingdom, repairs are normally carried out within two to five working days of arrival at our factory or receipt of authorisation to repair. Alternatively, spare parts and service manuals can be despatched within two working days. Most distributors of Grant equipment outside the UK hold stocks of spare parts, have their own service engineers and operate a similarly prompt repair service.

Three year guarantee

Grant products are robust and reliable, designed and built to provide years of trouble-free service.

They are guaranteed for three years against faulty materials and workmanship. If repairs are carried out under guarantee, no charge is made for labour or materials, and within the UK we make no charge for return carriage.

As Grant Instruments is committed to a continuous programme of improvement, specifications may be changed without notice.

Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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