

Industrial Immersion Heaters for Water, with Thermostat

ARMTIE HEATER



Custom Heaters Available
Contact Sales for Alternative
Length, Thread Size, Sheath
Material, Wattage or
Temperature Range.

- ✓ Incoloy Sheath
- ✓ Incoloy Thermostat Pocket with 5-80°C Rod Thermostat
- ✓ Optional 45-120°C Thermostat
- ✓ IP55 Aluminium Terminal Cover
- ✓ Available for 240 or 415V Operation
- ✓ 21/4" BSP Brass Fitting

To Order (Specify Model Number)				
			Immersed Length	
Model No.	Volts	KW	Inch	MM
ARMTIE210	240	2KW	10	254
ARMTIE311	240/415	3KW	11	276
ARMTIE330	240/415	3KW	30	762
ARMTIE411	240/415	4KW	11	276
ARMTIE416	240/415	4KW	16	406
ARMTIE616	240/415	6KW	16	406
ARMTIE630	240/415	6KW	30	762
ARMTIE724	240/415	7.5KW	24	610
ARMTIE927	240/415	9KW	27	686
ARMTIE936	240/415	9KW	36	914
ARMTIE1224	240/415	12KW	24	610
ARMTIE1236	240/415	12KW	36	914
ARMTIE1836	415 delta	18KW	36	914

Installation

The head features octagonal faces and 2 1/4" B.S.P. thread for fitting into a tank through a suitable boss. The gasket supplied should be fitted to act as a seal between the immersion heater head and the tank boss. To get the best service and optimum stratification, ensure the heater is mounted horizontally at the bottom of the tank. Care must be taken to ensure that the elements remain immersed at all times and are not allowed to run in sludge in order to avoid "Burning out". The terminal box can be rotated on the head for the most convenient entry: This is achieved by slackening the nuts on the two short studs, rotating to the ideal position and re-tightening the nuts. One stud is identified by E and the symbol  and has a second nut and washer arrangement to secure the earth wire.

3kW to 12kW heaters are suitable for 3 phase, 4 wire, 400V/415V operation or single phase operation by linking the 3 line terminals (see figure 1); 2kW heaters for single phase 230V/240V operation only (see figure 2); and 18kW heaters for 3 phase, 3 wire, 400V/415V operation only (see figure 3).

As with all electrical equipment of this type it is strongly recommended to fit ELCB (RCD) protection (see safety note below). Wiring must be carried out by a competent person to the

requirements of the current edition of the IEE regulations and to satisfy HSE legislation.

The heater should be connected to the supply point with a suitable high temperature cable.

The control thermostat contacts must be suitably rated if this is to be fitted in series with the heater. Otherwise it must be wired to control a contractor suitable for the heater rating.

Cleaning and Maintenance

Whilst the heater does not attract deposits, in hard water areas scale may accumulate. It is essential that the heater section is cleaned frequently in these cases to avoid overheating and premature failure. This must be carried out carefully to avoid damaging the element sheath material.

Statement of conformance with European Harmonised Directives

Industrial immersion heaters are manufactured to BS3456 Part 2 Section 2.21 and BS3456 Part 1 and will comply with the directives if fitted to correctly designed equipments. If automatic switching is utilised your system design must satisfy the requirements of EN 60555-3.

	LEGENDS
	TERMINAL FOR CUSTOMER CONNECTION
H	HEATER ELEMENT
THT	THERMOSTAT (CONTACT RATING 13A 250V)

Fig 1

3 Phase, 4 Wire Connection shown

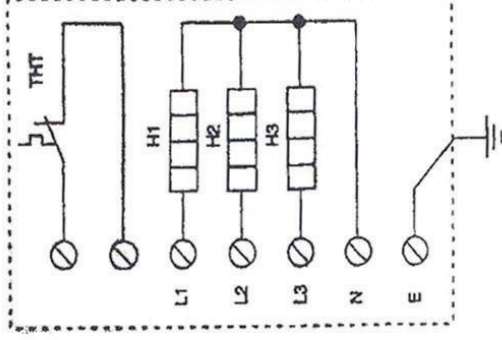


Fig 2

2kW Version only

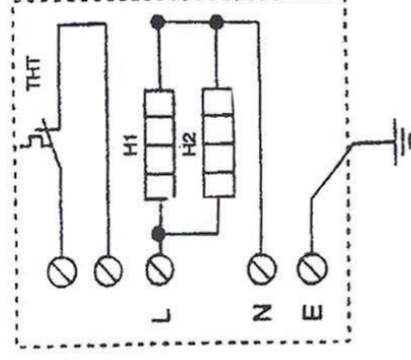


Fig 3

18kW Version only

