

# E0021/E0022/E0023/E0024

## 3/6/9/12 kW Electric Immersion Elements



Advenco offer a wide range of electric immersion heater elements and kits designed for use with domestic hot water systems as primary or backup heat sources.

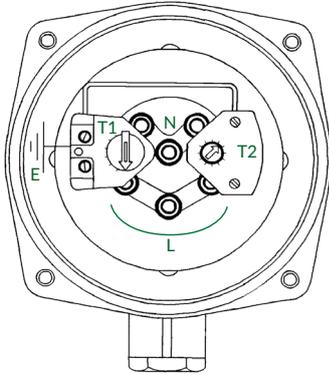
Direct electric immersion heaters provide a reliable source of hot water and are ideal for use with electric-only or renewable hot water systems. When used as a backup, an electric immersion heater is a practical alternative to installation of an entire secondary heating appliance, and is both unobtrusive to existing systems and easily maintained.

Each immersion heater is designed to screw directly into a 2.25" connection point on a hot water tank, and is supplied complete with control and overheat cut-out thermostats contained within the IP55-rated terminal. All elements are sheathed with Nicalloy 825 and are operable up to temperatures of 90°C and pressures of up to 6 Bar.

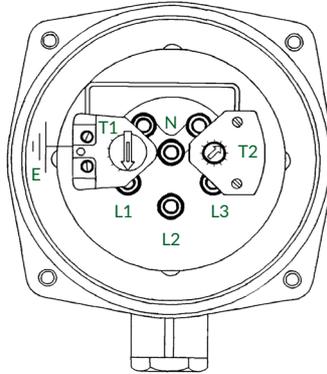
Specifications	E0021	E0022	E0023	E0024
Capacity	3 kW	6 kW	9 kW	12 kW
Supply	Single Phase	230 V / 1 phase / 50 Hz		n/a
	Three Phase	415 V / 3 phase / 50 Hz		415 V / 3 phase / 50 Hz
Wiring	Single Phase	L, N, E		n/a
	Three Phase	L1, L2, L3, N, E		L1, L2, L3, N, E
Power	Single Phase	13 A	26 A	n/a
	Three Phase	5 A / phase	9 A / phase	13 A / phase
Heat intensity	8.7 W/cm <sup>2</sup>	9.2 W/cm <sup>2</sup>	9.2 W/cm <sup>2</sup>	10.4 W/cm <sup>2</sup>
Max. Working Temperature				90°C
Max. Working Pressure				6 bar
Immersed length	375 mm (14.75")	460 mm (18.1")	460 mm (18.1")	510 mm (20.0")
Cold foot length	100 mm (3.9")	100 mm (3.9")	100 mm (3.9")	100 mm (3.9")
Control adjustment range				30-70°C Part code: E0043.1
Overheat factory set point				95°C Part code: E0044
Boss connection				2.25" BSP Brass
2.25" element fibre gasket code				E0042.3



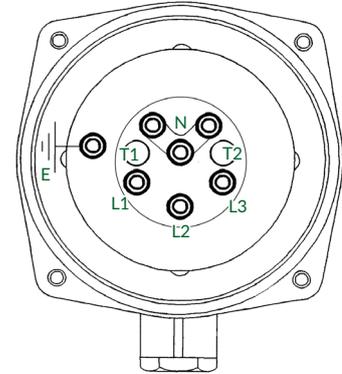
E0021, E0022  
Single Phase  
Terminal Layout



E0021, E0022  
Three Phase  
Terminal Layout



E0023, E0024  
Three Phase  
Terminal Layout

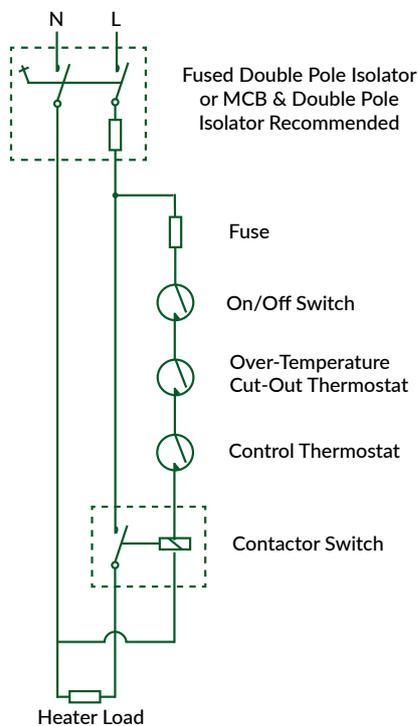


### Suggested Wiring Layout:

A suitable contactor switch is required for all installations. For three phase supplies, the copper busbar connecting the live terminals should be removed. Note that fuses, contactors, isolators and on/off switches must be supplied separately.

This appliance must be earthed.

#### Single Phase



#### Three Phase

