

Swiftbrew 3kW Stainless Steel Tri Clamp heating element.



This heating element MUST be wired to a 220v\240v AC supply by a qualified electrician.

The preferred cable for wiring this element is – 3 core 2.5mm HO7 RN-F Rubber Cable - a Google search will find you a supplier.

A suitable heating controller employing a temperature sensor fitted to a thermowell in the vessel containing the liquid to be heated will be required to control the electrical supply to the element. The thermowell and heating element must remain below the outlet to ensure they are covered by liquid.

Never remove the terminal cover whilst the element is connected to the electricity supply.

Never remove the element from the Tri Clamp fitting whilst connected to the electricity supply.

Never operate the heating element unless it is fitted to a vessel and immersed in liquid, do not allow it to boil dry.

A 60mm clearance hole is required to mount the Tri Clamp bulk head fitting. A 60mm Qmax cutter is recommended for this.

Terminal layout;



Blue Crimp Ring Terminals are recommended for making electrical connections to the heating element.

A = Live

B = Neutral

C = Protective Earth

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Fitting the Bulkhead;

Having made your 60mm hole in the pot and flattened the area using a pair of substantial 85mm diameter plates, one each side of the vessel wall, and tighten them down hard, this will pre-form the area and flatten it out to make a good seal. The easiest way to do this is using the Qmax cutter, replace the outer part of the cutter with one of the 85mm plates and feed the second plate onto the bolt inside the pot before fitting the cutter part onto the bolt. Don't forget to reverse the cutter before threading onto the bolt!

Now you have your hole and a flattened area you can proceed to fit the bulkhead fitting. The single most important thing to remember is to use a lubricant on the silicone seals that fit between the inside and outside faces of the fitting. There are three silicone seals, two have a bead on one face and flat on the other. The remaining one has a bead on both sides, this is used between the element and the bulkhead fitting and held in place by the swinging clamp.

Apply Vaseline or similar to the beaded side of both silicone seals with a flat side. Fit one onto the Bulkhead fitting and the other to the back nut that fits inside the pot and holds the fitting into the pot. The silicone seals should be held in place by the lubricant, do up the back nut by hand, it should be possible to get a good seal in this way, the lubricant prevents the seal from being distorted, if you don't use lubricant it will distort and the fitting will leak. You can use a suitable spanner on the flats of the back nut to get it tighter but don't over do it or it will crush the seal and it will leak!

