

Domusa Heat Pump Booster Element Installation Instructions

CHNZ Electric Element Kit Product Code = TSE3KITD

Kit Contents:

- TSE3 - 3kW Element with Sensor Pocket and Cover
- TSE3T - 3kW Element Thermostat LP Copper 7" with reset
- VPRESRELF - Pressure Relief 1/2" x 3/4" 3 Bar
- HMHBRB3215 - Brass Reducing Bush 32x15mm

Installation Instructions:

(internal installation only)

1. Install the pressure relief valve directly on the buffer tank. If installing off the top port, use a tee to accommodate the air vent installation along with the pressure relief valve.

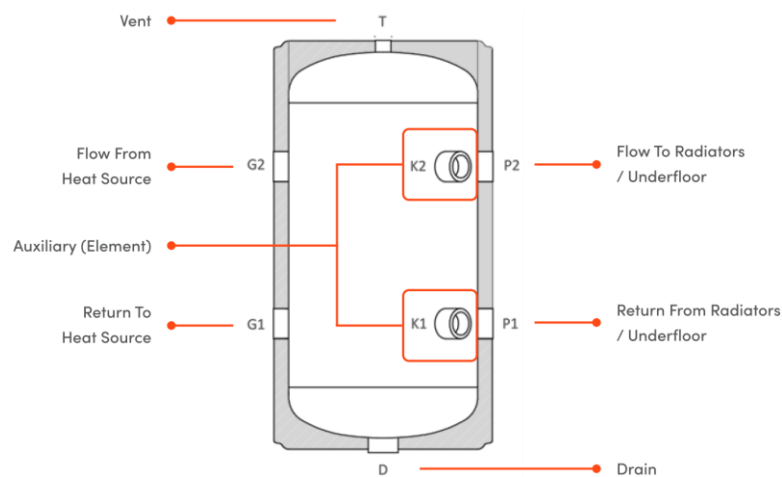
It is extremely important that the pressure relief valve cannot be isolated from the vessel/element.

Please also ensure that a suitable drain is installed for the pressure relief valve.

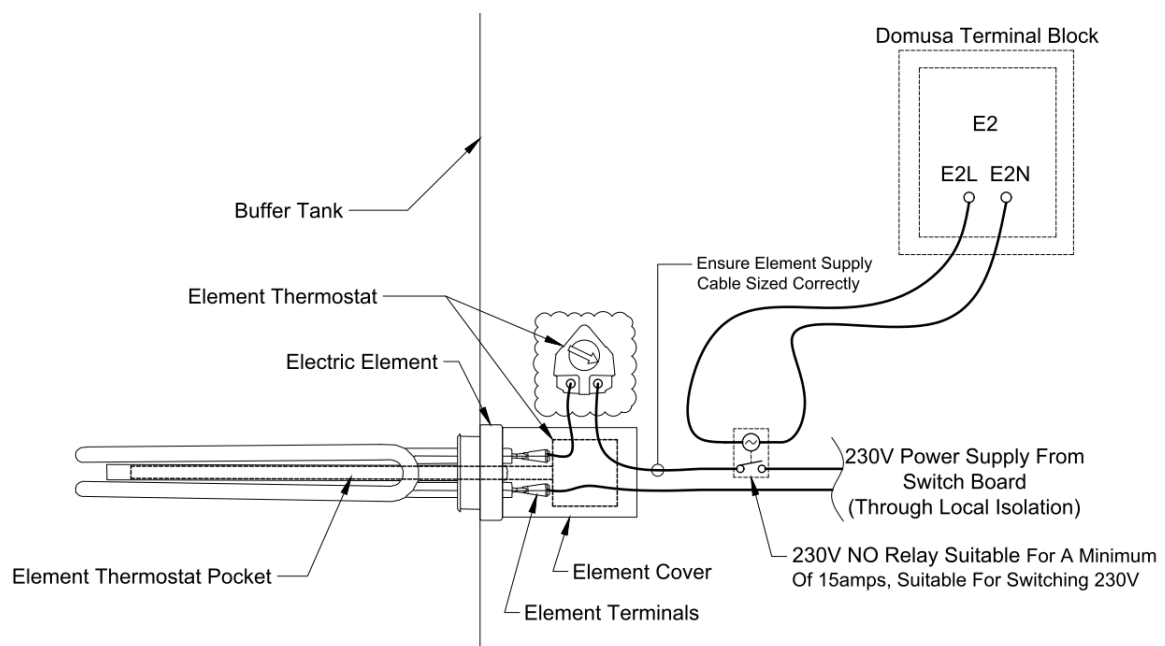
2. Install the electric element directly into one of the lower ports (G1, K1, P1).
*Please note, you may need to remove the Black plastic trim around the element port to enable the element to seat correctly.

3. As shown on the below wiring diagram connect the electric element through the Element thermostat and then wire it to a NO relay switched by E2 (E2L, E2N) terminals of the Domusa heat pump. The relay must be rated to switching 230V with a minimum of 15amps, and switched by 230V Coil. The relay can be mounted on the DIN rail inside the heat pump.
4. Common settings for the thermostat high limit would be:
 - Underfloor System = Thermostat set to 55°C
 - Radiator System = Thermostat set to 75°C.

Buffer Tank Drawing:



Wiring Drawing:



Heat Pump Parameters to Change

Parameter	Function Description	Value	
		Default	Set To
P22	Outside temperature for the activation of the Heating "backup" energy source (E2).	0°C	As per Table*
P24	Hysteresis activating E1 and E2	5°C	5°C
P36	Waiting time for turning on the E1 and E2 back-ups.	15 Min	30 min
P81	Mode of operation for auxiliary or back-up power sources (E1, E2).	0	0

**Set P22 As per table below, or as specified in the system design – check with CHNZ Engineering if in doubt.*

P22 Regional Settings

Region	Recommended P22 Setting (°C)
Northland	8
Auckland	8
Waikato	5
Bay of Plenty	4
Gisborne	6
Hawke's Bay	4
Taranaki	6
Wanganui	3
Manawatu	4
Wairarapa	3
Wellington	5
Nelson Bays	3
Marlborough	2
West Coast	5
Canterbury	2
Timaru - Oamaru	0
Otago	1
Southland	2