

### Temperature Controlled Thermopak TP2



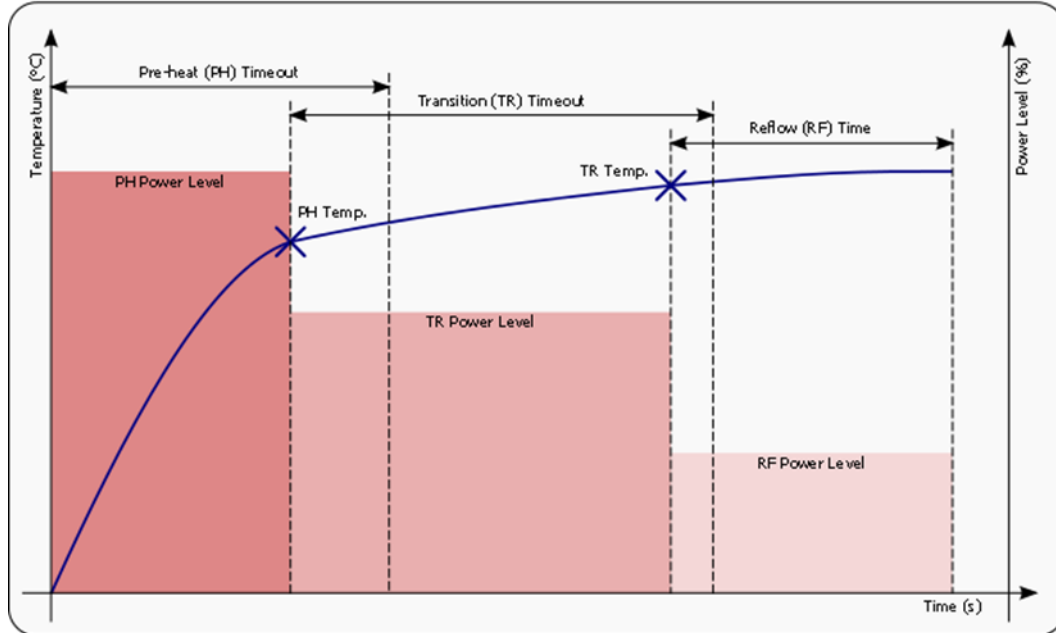
#### Description

The Temperature Controlled Thermopak TP2 is a revolutionary low voltage high current power supply capable of running a programmed heating cycle. This is done by a unit controlling the power output settings on the main transformer by means of thermocouple and thyristor control of the transformer power output.

The main transformer has 3 different voltage outputs that can be changed via links at the back of the unit.

Device	Function
PLC screen and buttons	The screen will display the state of the cycle and the buttons are used to navigate and select options on the PLC.
Thermocouple input	The thermocouple from the assembly can be plugged into this socket or one of the two at the back.
Ammeter	Displays the current on the primary side of the main transformer.
Start / Reset button	Used to begin a cycle.
End indicator	Comes on at the end of a heating cycle to indicate that the cylinder can be moved up.
Abort / Reset button	Used to abort the cycle at any stage under non-emergency conditions. Used to reset to Ready screen from the End screen.
Setup button	Used to access Setup screens.
Emergency stop	During an emergency condition the emergency stop can be used to cut the power to the assembly.

Heating Cycle



*Graph 1. Heat Cycle Graph*

The heating cycle has 4 phases; Pre-heat (PR), Transition (TR), Reflow (RF) and Cool. All 4 have a settable temperature at which the cycle will switch into the next phase or, in the case of Cool, end the cycle.

Pre-heat, Transition and Reflow all have a settable Power Level. This is a percentage of the power output of the main transformer.

Each phase also has a timeout which is set to ensure the equipment does not over heat. If the timeout is reached the power output is set to zero and cycle aborted.

**Product Specification**

Dimensions:	L420mm x H210mm x W305mm
Weight:	20kg (approx.)
Rating:	1000VA
Voltage Range:	4.5, 5.5, 6.5 (nominal)