

# GHT50HTU / GHT70HTU

## 50 & 70kVA Heat Treatment Units for Pre & Post Weld Heat Treatment

Globe Heats 50 & 70Kva Heat Treatment Units provide the perfect power source for all your Pre & Post-Weld Heat Treatment requirements. Designed for use with our range of ceramic heating elements, the resistance heating systems can reach process temperatures of up to 1050° C\* when using our standard Ni-Ch heating elements, and up to 1200° C\* when used with special high temperature ceramic heating elements. The HTUs can be used alone for Preheat applications where no process recording is necessary, or be paired with a temperature recorder to record the process data.



Designed to be compact and robust, the mobile HTUs are simple to use and provide excellent temperature control on thick and thin wall applications. Fitted with the Advantage 3 Temperature Programmers with linkable control the HTUs provide complete flexibility as each channel can be configured to follow its own Pre-Heat / Post-Weld Heat Treatment profile, or be grouped to the previous channel, maximising the available power and providing the flexibility you need to tackle any project. For large scale projects using multiple machines, the HTUs can be grouped using a coms cable to create a 12/18/24 etc. channel system. Machine groups can then follow a single profile providing the peace of mind for the operating technician that the heating process can be carried out with ease, precision and efficiency.

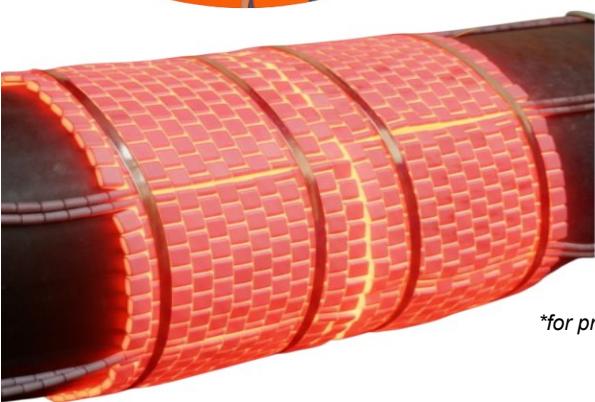
Designed and manufactured with superior industry standard components to withstand the rigors of intensive use, Globe Heat's machines are **Built to Last!**

\*shown with Temperature Recorder (GHT2474) and triple cable sets (GHT6001/GHT6003) sold separately.



Specification	GHT50HTU	GHT70HTU
Primary Input Voltage (Current at 100% Duty) & Frequency	3~ 380V (75A)415V (69A) or 440V (65A) 50/65Hz	3~ 380V (106A)415V (97A) or 440V (92A) 50/65Hz
Transformer coil	50kVA Natural air cooled, class H.	70kVA Natural air cooled, class H.
Number of Control Circuits / Channels	6	6
Secondary Output Voltage	65VAC.	65VAC.
Max Current Per Channel	135A (3 x 2.7kw Elements)	180A (4 x 2.7kw Elements)
Switching	Contactors	Contactors
Program Controller	Each control circuit with Advantage 3 Programmers: Range: 0 to 1200° C ( 0 to 2200° F)	
Primary Connection	4 Core x 16mm <sup>2</sup> , 5m	4 Core x 25mm <sup>2</sup> , 5m
Thermocouple Input and output	Type K (NiCr/NiAl)	
Auxiliary Outputs (30mA RCD)	3 x 110V auxiliary sockets	3 x 110V auxiliary sockets
Dimensions	650mm x 750mm x 900mm	650mm x 750mm x 900mm
Weight	310Kg	350Kg

\*for process temperatures above 700°C higher temperature Thermocouple Wire (GHT9685) should be used





### Temperature Control with Advantage 3

Take control of your Pre & PWHT process with the Advantage 3 Temperature Controllers, the perfect solution for precise and versatile temperature control.

### Channel Configuration

Group Control feature allows each channel the ability to perform its own Programmed PWHT Profile (or Pre-Heat) or follow the

Profile of the previous channel when set. With the ability to set each channel as 'Programmer' or 'Controller' - any configuration of control can be achieved across the 6 channels meaning you can always utilise the full power of your PWHT machine fleet.

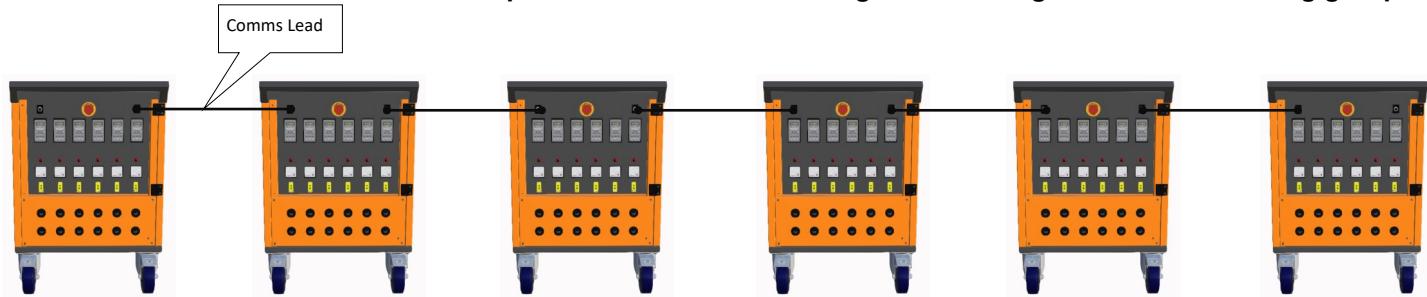
Channel	1	2	3	4	5	6
	*P	C	C	C	C	C
	P	C	C	C	C	C
	P	C	C	C	C	C
	P	C	C	P	C	P

P = Programmer (Master) / C= Controller (Slave)

\*P—Channel 1 will always be a Programmer unless 2 Machines are linked and can then be Controlled by Channel 6 of the linked machine



The illustration below shows an example of 6 Machines Linked together creating a 36 channel heating group



### Key Features:

- Specialist Controller:** Designed specifically for PWHT
- User friendly Interface:** Easy to navigate 3 button programming!
- Advanced Temperature Control:** Achieve accurate and stable temperatures to stay within your tolerance.
- Durable Build:** Designed to be used! Built to last.
- Linkable Design:** Grouping Channels or Machines allows unlimited group control following a single profile!
- Versatility:** Operate in Degrees Celsius or Fahrenheit

Programmable Parameters		
Start Temperature	0°C to 999°C	Unrestricted Heating to X°C
Rate of Heating	0°C to 999°C	X°C Per Hour
Soak Temperature	0°C to 1200°C	X°C to heat to and hold at
Soak Time (HH:MM)	0 to 99 Hours 59 Minutes	Program held for X at Soak Temperature
Rate of Heating °C Per Hour	0°C to 999°C	X°C Per Hour
Hold-Back Settings	10°C , 20°C , 40°C and 60°C	Program Held on X deviation from Setpoint
Manual Hold	Push of the Set button during Program	Program Held on Users Request
Proportional-Band Settings	+/- 5°C, +/- 10°C, +/- 20°C and 40°C	
Fixed Parameters		
Temperature Control Range	Range: 0 to 1200° C	
Temperature Display Range	0°C to 1250°C	
Measurement Accuracy	0.3° C	
Linearity	Better than +/- 0.5° C at any point	
Calibration Accuracy	+/- 1 display digit (Uncertainty: 1 display digit)	
Thermocouple Input	Standard Plug Type K	