

# 50 & 70Kva Heat Treatment Units & Centres

New range of 50 and 70Kva Heat Treatment provide the perfect solution for all your Pre & Post-Weld Heat Treatment requirements.

In a world where space is at a premium, this range Heat Treatment Units and Centres stand out with their sleek, compact design. Despite its smaller footprint, these powerhouses deliver exceptional results without compromising on performance. Their compactness not only saves valuable workspace but also enhances machine stability, reduces transport costs and increases portability making it the perfect companion for on-the-go Heat Treatment Service providers.

The Heat Treatment Units and Centres provide extra versatility, fitted with the Advantage 3 Temperature Programmers the machines adapt seamlessly to any Heat Treatment application. Equipped with linkable control each channel can be configured to follow its own Pre-Heat / Post-Weld Heat Treatment profile, or be grouped and following its previous channel's command, providing the flexibility you need to tackle any project. For large scale projects the Machines can also be linked allowing an array of machines to be connected together creating a 12/18/24 (etc.) channel system all following a single profile providing the peace of mind for the operating technician that larger scale projects can be carried out at ease with precision and efficiency.

Designed and manufactured with superior industry standard components, they are built to withstand the rigors of intensive use. Their robust construction ensures reliable performance, even in the harshest of environments.



	Heat Treatment Unit	
Product Code:	50 HTU	70 HTU
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	65V a.c.	65V a.c.
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	Three 110V auxiliary sockets	Three 110V auxiliary sockets
Dimensions	650mm x 750mm x 900mm	650mm x 750mm x 900mm
Weight	310Kg	350Kg
	Heat Treatment Centre (Specification as above with)	
Product Code:	50 HTC	70 HTC
Temperature Recorder	12 Point Chino AH4000 Series Paper Chart Recorder	
Number of Control Circuits / Channels & Recording Circuits	6 + 6	6 + 6
Dimensions	650mm x 750mm x 1200mm	650mm x 750mm x 1200mm
Weight	320Kg	360Kg

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## 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

With Linkable Control feature the Advantage 3 controllers provide the temperature control in the Heat Treatment Units and Centres. With each channel able to perform its own Programmed PWHT Profile (or PreHeat) it can also follow the Profile of the previous channel when set to '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
			P	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