# THERMAL WAVE

## INDUCTION HEATING SYSTEM



Thermal Wave Induction Heating System

## AIR-COOLED HIGH OUTPUT CAPABILITY.

The Thermal Wave™ induction heating system provides a market-leading 50kW of continuous output, capable of preheating, inter-pass temperature management, and post weld heat treatment, all without the need for liquid cooling. A compact design combined with precise temperature control enables the operator to reduce time-to-temperature by applying and adjusting heat to optimal levels. The result is a high level of flexibility to tackle a wide range of welding and fabrication-related heating applications.

#### Processes »

Preheat, Inter-pass temperature management, Post weld heat treatment

### Applications »

Construction, Shipbuilding, Pipeline, Fabrication, Process Industries, Power Generation, Structural

#### Output »



## Input »





#### Product Numbers »

K5668-1 Thermal Wave Induction Heating System K5669-1 Thermal Wave Power Source

K5670-1 Thermal Wave Controller K5671-1 Thermal Wave Extension Box See back for specs and accessories.





## **KEY FEATURES**

- 50kW of Continuous Power: Higher output and 100% duty cycle leads to reduced heating times and higher productivity on the job.
- Fully Air-Cooled: Capable of post weld heat treatment temperatures up to 1382°F (750°C) without the need for a liquidcooled heating cables.
- Configuration Flexibility: The Extension
  Box (provided with each system) enables
  the use of multiple heating accessories
  while it optimizes load matching and
  maximizes the amount of heat entering
  the work piece.
- Designed for Mobility: The compact, efficient design is a space saver for transit to the job site out on the shop floor.
- Built for Durability: The robust construction with an IP33 rating is backed by a 2-year warranty.

## **KEY CONTROLS - POWER SOURCE**

#### **FRONT**

- 1. Heating ON Indication
- 2. Temperature Input 1 and 2
- 3. Air Filter Out
- 4. Ground Connection for Material or Extension Box
- 5. Heating Cable Connections

#### Back

- 6. Heating ON Indication
- 7. Air Filter In
- 8. Power Input Cable
- 9. Main Power Switch
- 10. Bus Communication
- 11. Hardwired 1 (HW1) Control Connection
- 12. External Controller Connection Point / Emergency Stop
- 13. Hardwired 2 (HW2) control connection (Spare)



## **PENDANT CONTROLLER**

Use the lightweight, easy-to-use pendant controller to set up and run manual heating output or heating programs based on thermocouple feedback.





## WHAT'S INCLUDED

## Thermal Wave Induction Heating System (K5668-1) Includes:

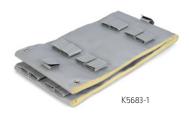
- · Thermal Wave Power Source (K5669-1)
- · Thermal Wave Controller (K5670-1)
- · Thermal Wave Extension Box (K5671-1)
- · Grounding and Noise Reduction Cable with Magnet
- · Ground Cable (K5677-5M)







K5673-20M



	PRODUCT
DESCRIPTION	NUMBER
Thermal Wave Heating Cable Preheat	K5672-5M
	K5672-10M
	K5672-15M K5672-20M
	K5672-25M
Thermal Wave Heating Cable High Temp	K5673-5M
Thermal Wave Heating easiering Femp	K5673-10M
	K5673-15M
	K5673-20M
	K5673-25M
Thermal Wave Extension and Ground Kit	K5673-30M K5675-5M
THEITHAL WAVE EXCENSION AND GLOUND NIC	K5675-10M
	K5675-15M
	K5675-20M
	K5675-25M
Thermal Wave Extension Cable	K5676-5M
	K5676-10M
	K5676-15M K5676-20M
	K5676-25M
Thermal Wave Ground Cable	K5677-5M
	K5677-10M
	K5677-15M
	K5677-20M
The survey I Maries Mariel Collection Classes	K5677-25M
Thermal Wave Weld Splatter Sleeve	K5678-5M K5678-10M
	K5678-15M
	K5678-20M
	K5678-25M
Thermal Wave Silica Fiber Mat	K5682-1
Thermal Wave Insulation Blanket - 3.9 X 2 ft (1.2 X 0.6 m)	K5683-1
Thermal Wave Insulation Blanket - 7.9 X 2 ft (2.4 X 0.6 m)	K5684-1
Thermal Wave Insulation Blanket - 9.8 X 1.3 ft (3 X 0.4 m)	K5685-1
Thermal Wave Insulation Blanket - 12 X 1 ft (3.6 X 0.3 m)	K5686-1
Thermal Wave Quick Wrap	K5687-DN250
	K5687-DN300
	K5687-DN350 K5687-DN400
	K5687-DN450
	K5687-DN500
	K5687-DN550
	K5687-DN600
	K5687-DN700 K5687-DN800
	K5687-DN900
	K5687-DN1000
Thermal Wave Thermocouple Plug	K5692-M
Thermal Wave Thermocouple Cable	K5693-1

### **PRODUCT SPECIFICATIONS**

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Rated Output	Input Current @ Rated Output	Output Range	HxWxD in (mm)	Net Wt lbs (kg)
Thermal Wave	K5668-1	400-480/3/50/60	50kW / 100%	88A <sup>(1)</sup>	0-50kW	9.6 x 26 x 16.3 (245 x 659 x 413)	79.4 (36)

[1] Recommended fuse size on input power is 100A. System can operate at reduced output with lower input current.

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