

## SUPERthal™ HEATING MODULES HIGH POWER REFLECTORS

### TECHNICAL SPECIFICATION

#### MODULAR HEATERS FOR EXTRA HIGH POWER

Superthal™ High power reflector is a new compact fiber insulated modular heater with Kanthal® Super molybdenum disilicide ( $\text{MoSi}_2$ ) heating elements integrated. It is designed for a power of up to  $110 \text{ kW/m}^2$  ( $10 \text{ kW/ft}^2$ ) at  $1650^\circ\text{C}$  ( $3000^\circ\text{F}$ ).

The standard size is  $600 \times 600 \text{ mm}$  ( $23.6 \times 23.6 \text{ in}$ ), and multiple units can easily be joined together in different configurations in rows or squares.

The high power reflector can be operated horizontally and is easy to install and connect to a standard power supply.

#### APPLICATIONS

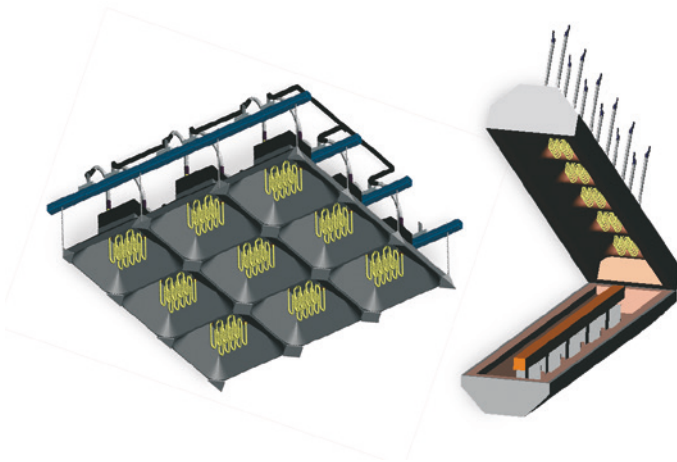
Wherever a concentrated very high and clean power at temperatures of up to  $1650^\circ\text{C}$  ( $3000^\circ\text{F}$ ) is needed, for instance in:

Typical applications:

- Single billet heating up to  $1350^\circ\text{C}$  ( $2460^\circ\text{F}$ )
- Aluminum melting furnaces
- Ladle heaters

#### SPECIAL FEATURES

- Reduced energy consumption
- Precise temperature control
- Uniform temperature distribution
- High power concentration



Application examples: Single billet preheating furnace with six Superthal™ High power reflectors (right). Overhead heater with nine reflectors (left).



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The module consists of special Kanthal® Super MoSi<sub>2</sub> heating elements integrated in ceramic fiber and supported by a steel sheet. Hooks are pre-mounted for hanging the module in straps. The contact straps are ready to be connected to the power supply.

### PRODUCT NAME

Superthal™ High power reflector.

## PROPERTIES

ELEMENT TYPE	KANTHAL® SUPER SPECIAL, 12/24	
WIDTH	600 mm	{23.6 in}
DEPTH	600 mm	{23.6 in}
HEIGHT	230 mm	{9.1 in}
POWER	40 kW	
VOLTAGE	66 V at 1650°C	{3000°F}
CURRENT	605 A at 1650°C	{3000°F}
POWER DENSITY	110 kW/m <sup>2</sup>	{10 kW/ft <sup>2</sup> }
ELEMENT TEMPERATURE	up to 1650°C	{3000°F}