

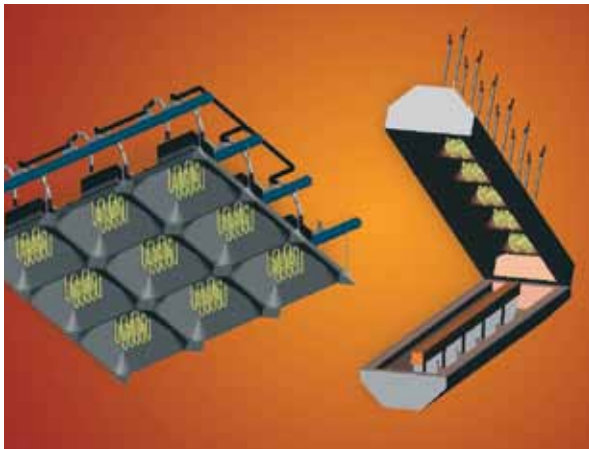
Superthal™ heating modules

High power reflectors

Modular heaters for extra high power

Superthal™ High power reflector is a new compact fiber insulated modular heater with Kanthal® Super molybdenum disilicide (MoSi_2) heating elements integrated. It is designed for a power of up to 110 kW/m^2 (10 kW/ft^2) at 1650°C (3000°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.



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

SPECIAL FEATURES

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

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°C (3000°F) is needed, for instance in:

Typical applications:

- Single billet heating up to 1350°C (2460°F)
- Aluminum melting furnaces
- Ladle heaters



Technical information

Specifications

The module consists of special Kanthal® Super MoSi₂ 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

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 ² (10 kW/ft ²)
Element temperature	up to 1650°C (3000°F)
Element type	Kanthal Super special, 12/24

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Sandvik Materials Technology

Sandvik Materials Technology is a world-leading manufacturer of high value-added products in advanced stainless steels and special alloys, and of medical implants, steel belt-based systems and industrial heating solutions.

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Environment, health and safety

Environmental awareness, health and safety are integral parts of our business and are at the forefront of all activities within our operation. We hold ISO 14001 and OHSAS 18001 approvals.

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