

SUPERthal™ HEATING MODULES FLAT PANELS

TECHNICAL SPECIFICATION

STEEPLY REDUCED ENERGY CONSUMPTION – PRECISE TEMPERATURE CONTROL

Superthal™ Flat panels are commonly used in the glass industry as overhead heaters of feeder forehearths.

The panels consist of Kanthal® Super molybdenum disilicide (MoSi_2) heating elements integrated into reinforced ceramic fiber.

The maximum power output is 150 kW/m^2 (14 kW/ft^2) and the maximum length to span the feeder is 1000 mm (39.4 in). The operating temperature is up to 1600°C (2910°F) in air atmospheres.

The panels are specially designed to fit the requirements of each specific feeder in terms of power and dimensions.

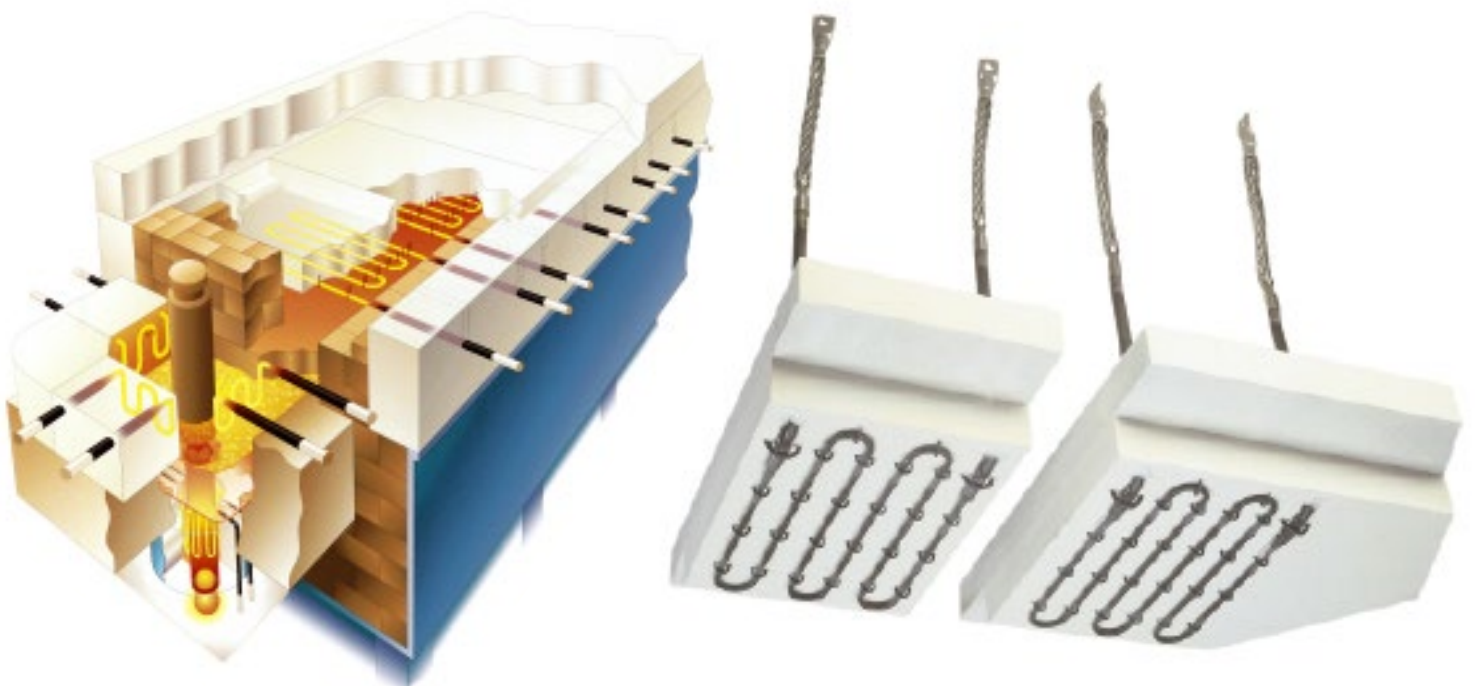
The general experiences from a great number of installations are that the energy consumption is steeply reduced, often up to 40%, and that a precise temperature control is obtained, contributing to an improved glass quality.

APPLICATIONS

- Feeder forehearths in the glass industry
- Metal holding furnaces

SPECIAL FEATURES

- Reduced energy consumption
- Precise temperature control
- Uniform temperature distribution



TECHNICAL SPECIFICATIONS

SPECIFICATIONS

The flat panels are heated by Kanthal® Super MoSi₂ heating elements with the terminals either straight or 90° bent with fixed contacts. Element dimension and configuration depending on demands.

The panels are designed for horizontal use.

The standard thickness of the fiber is 125 mm (4.9 in). The dimensions and heating element layout on each panel are specially designed.

Kanthal® can give detailed technical advice on design and installation. Installation is very simple and takes normally 1–2 days for a feeder.

PRODUCT NAME

Superthal™ Flat panels.

PROPERTIES

ELEMENT TYPE	KANTHAL® SUPER	
TERMINALS	Straight or bent 90°, fixed contacts	
MAX CONTINUOUS OPERATING TEMPERATURE	1600°C	(2910°F)
MAX POWER OUTPUT	150 kW/m ²	(14 kW/ft ²)
STANDARD THICKNESS	125 mm	(4.9 in)
MAX LENGTH	1000 mm	(39.4 in)