

SUPERTHAL[®]

SUPERTHAL HT – High Temperature Module

Up to 1675°C Furnace Temperature

SUPERTHAL standard modules – half-cylinders and muffles – are designed for an element temperature of up to 1600°C (2910°F).

By using a newly developed special KANTHAL[®] Super element material, the maximum temperature is now increased to 1725°C (3140°F) for SUPERTHAL HT half-cylinder type.

SUPERTHAL HT modules can be operated vertically and are available in standard sizes or as specially designed

heating packages with heating modules, back insulation and stainless steel casing.

On request, Kanthal can assist in calculating and manufacturing complete heating packages.

Applications

Vertical tube furnaces for a furnace temperature of up to 1650 – 1675°C (3000 – 3050°F).



Technical Data

Specifications

The extra high temperature is achieved by using a new KANTHAL Super type of element material, combined with special supporting hooks and high grade ceramic fibre. The electric contacts are attached on the module and ready to be connected.

Vertical use only.

The modules are mainly used together in rows or sets in special tubular furnaces or other heating systems. Each

module can be individually controlled to ensure a uniform temperature profile and fast and accurate ramping.

Kanthal can assist in designing and building special heating systems on request.

Product Name
SUPERHAL SHC HT

Type	Inner diam.* mm (in)	Outer diam. mm (in)	Resistance Ω	Voltage V	Power W
SHC100 HT	55 (2.2)	300 (11.8)	0.25	23	2130
SHC150 HT	105 (4.1)	350 (13.8)	0.38	35	3250
SHC200 HT	155 (6.1)	400 (15.7)	0.51	47.2	4400
SHC250 HT	205 (8.1)	450 (17.7)	0.64	59.3	5500
SHC300 HT	255 (10.0)	500 (19.7)	0.77	71.4	6600

Data at element temp.	1700°C (3090°F)
Surface loading	14.2 W/cm ² (92 W/in ²)
Current	90–95 A
Element length	150 mm (5.9 in)
Overall length	200 mm (7.9 in)

* Free inner diameter inside element

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KANTHAL

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