

HIGH TEMP. TUBE FURNACES

ST SERIES UP TO 1600°C - 1650°C - 1800°C-1900°C

High Temperature tube furnaces

STURDY DESIGN · CERAMICFIBER INSULATION M160 - M180 - M190 (500) High Quality 24/7 Continuos-T° Tube Furnaces

STANDARD FEATURES

- CE manufactured
- Maximum operating temperature: up to 1600°C -1650°C -1800°C and 1900°C
- Compact and lightweight
- 24/7 continuous work capability
- Heating elements by Kanthal SiC (Silicon Carbide) and Kanthal Super 1800 and 1900 (MoSi2)
- Low thermal mass insulation
- Built with low density ceramic bricks and ceramic fiber
- Double insulation includes air chamber
- Thermocouple type S or B
- Spare parts easily replaceable by end user

FURNACE CONTROLS

- Furnace control under the furnace
- Eurotherm Thyristor Equipment Efit and Epack
- General safety switch
- General safety contactor
- PAD Digital control
 - PID parameters
 - Non-volatile memory
 - Microprocessor-based temperature controls
 - Alarm

CONTROL

- Fuji Ramp programmer up to 64 steps
- (Optional)Eurotherm EPC series (Ramp Programmer + software Itools) 10 Progs / 25 steps - via Ethernet (Curves downloadable in CSV-Excel

SAFETY SHUT-OFF

Thermocouple break shut-off

ACCESSORIES

- Safety alarm Class II. Over-temperature protection
- Controlled atmosphere system
- Vaccum system (1Mbar, x10-2 and x10-5)
- Flow meter box (Gas supply systems)
- and more, ask for our full assortment!



High Temp. Tube furnace Hobersal ST166030SC



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Manufactured in Barcelona since 1946 · 70 years

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CHARACTERISTICS

- Reinforced construction, double insulation, included air chamber with fan
- Refractory parts engineered to resist extreme temperature changes, and specific ceramic paste types applied according to temperature and work fatigue of each part.
- Heat resistance in refractory insulation of very low thermal conductivity coefficient.
- Horizontal Operation

BASIC ACCESSORIES

- Gas supply system: Inert atmosphere control equipment (non-reactive gases), supporting nitrogen, argon and forming gas 10%.
- Vacuum flanges: Stainless Steel high vacuum end seals (water refrigerated, high density Silicon joint), gas inlet & outlet (KF16), thermocouple slot
- Vacuum kits: Vacumm equipment 1Mbar, x10⁻² and x10⁻⁶ (Leybold pump Trivac series + vacuum meter + Complete set of accessories)

Model	Heating lenght (mm)	Tube diameter (mm)	Outer dimensions (mm)			Power Kw	Voltage V	maximum Temperature ℃	Maximum temperature limited work °C	Maximum temperarure in continous	Thermo couple	Control type	Heating Elements (Silicon Carbide)	Homogeniu zone (mm)
			н	w	D									
High Temperat	ure tube fur	naces up to 1	600°C (1	500°C in	continou	us)								
ST166030 SC	300	40 to 100	700	760	460	4	220	1600°C	1550°C	1500°C	S	Ramp P.	Kanthal SiC	120
ST166045 SC	450	40 to 200	700	910	460	6	220	1600°C	1550°C	1500°C	S	Ramp P.	Kanthal SiC	200
ST166060 SC	600	40 to 200	700	1060	460	8	220	1600°C	1550°C	1500°C	S	Ramp P.	Kanthal SiC	300
ST166080SC	800	60 to 200	700	1260	460	10	380	1600°C	1550°C	1500°C	S	Ramp P.	Kanthal SiC	300
ST1680100SC	1000	80 to 200	700	1460	460	12	380	1600°C	1550°C	1500°C	S	Ramp P.	Kanthal SiC	700
High temperatu	re tube furr	naces up to 1	650°C (K	anthal Si	uper 1800	0 MoSi2)							
ST166030	300	40 to 100	750	625	540	5	220	1650°C	1600°C	1550°C	s	Ramp P.	MoSi2	120
ST166040	400	40 to 120	750	730	540	5	220	1650°C	1600°C	1550°C	S	Ramp P.	MoSi2	150
ST166060	600	60 to 200	750	1060	540	6	220	1650°C	1600°C	1550°C	S	Ramp P.	MoSi2	300
ST168080	800	80 to 200	750	1260	540	8	380	1650°C	1600°C	1550°C	S	Ramp P.	MoSi2	480
ST16100100	1000	100 to 200	750	1460	540	10	380	1650°C	1600°C	1550°C	S	Ramp P.	MoSi2	700
High temperatu	ire tube furr	aces up to 1	800°C (K	anthal Si	uper 1800	MoSi2								
ST186030	300	40 to 100	750	625	540	5	220	1800°C	1750°C	1700°C	В	Ramp P.	MoSi2	120
ST186040	400	40 to 120	750	730	540	5	220	1800°C	1750°C	1700°C	В	Ramp P.	MoSi2	150
ST186060	600	60 to 200	750	1060	540	6	220	1800°C	1750°C	1700°C	В	Ramp P.	MoSi2	300
ST188080	800	80 to 200	750	1260	540	8	380	1800°C	1750°C	1700°C	В	Ramp P.	MoSi2	480
ST18100100	1000	100 to 200	750	1460	540	10	380	1800°C	1750°C	1700°C	В	Ramp P.	MoSi2	700
High temperatu	ire tube furr	aces up to 1	900°C (K	anthal Si	uper 1900) MoSi2)							
ST196030	300	40 to 100	750	625	540	5	220	1900°C	1850°C	1800°C	В	Ramp P.	MoSi2	120
ST196040	400	40 to 120	750	730	540	5	220	1900°C	1850°C	1800°C	В	Ramp P.	MoSi2	150
ST196060	600	60 to 200	750	1060	540	6	220	1900°C	1850°C	1800°C	В	Ramp P.	MoSi2	300
ST198080	800	80 to 200	750	1260	540	8	380	1900°C	1850°C	1800°C	В	Ramp P.	MoSi2	480
ST19100100	1000	100 to 200	750	1460	540	10	380	1900°C	1850°C	1800°C	В	Ramp P.	MoSi2	700
Homogeneity d		ith larger tub	e diame	ers										
Heating eleme		-			per1800	and 19	00)							
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HOBERSAL

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Accessories



Stainless Steel high vacuum

refrigerated, high density Silicon joint), gas inlet & outlet (KF) and

end seals (water

Ceramic Plugs



Gas Supply systems. Flow meter system 1 (Automatic)



Gas Supply systems. Flow meter system 2 (Manual)



Leybold vacuum equipment up to x10-2



Leybold vacuum equipment (Pump + Turbo station) up to x10-6





Ceramic, Alumina tubes, Inconel tubes...

Quartz tubes

