

# HORIZONTAL TUBE FURNACE

## ST SERIES · UP TO 1800°C

STURDY DESIGN · BRICK INSULATION (23/26) AND FIBER INSULATION (300-400)

**High Quality 24/7 Continuous-T° Tube Furnaces**  
**Split / Closed Models**

### STANDARD FEATURES

- CE manufactured
- Maximum operating temperature: from 1150°C up to 1800°C
- 1,2,3 or 4 independent heating zones
- Compact and lightweight
- 24/7 continuous work capability
- Heating KANTHAL AF, SiC and MoSi2
- Low thermal mass insulation
- Built with low density ceramic bricks and ceramic fiber
- Double insulation includes air chamber
- A-304 stainless steel outer case )
- Thermocouple type K,S and B
- Spare parts easily replaceable by end user

### FURNACE CONTROLS

- Independent control box / under the furnace
- Solid state relay
- General safety switch
- General safety contactor
- **PAD Digital control**
  - PID parameters
  - Non-volatile memory
  - Microprocessor-based temperature controls
  - Alarm

### CONTROL OPTIONS

- 1 program / 8 segments programmer
- 4 program / 15 segments programmer
- Programmers up to 64 segments
- Data logger and programmer communication by Ethernet/ RS232

### SAFETY SHUT-OFF

- Thermocouple break shut-off
- Turns off upon door opening

### ACCESSORIES

- Safety alarm Class II. Over-temperature protection
- Inlet gas entry
- Flow meter box
- and more, ask for our full assortment!



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### CHARACTERISTICS

- Reinforced construction, A-304 case
- 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.
- Split and vertical operation

### SPECIFICATIONS

Fully customized solutions by request  
We reserve the right to change technical specifications

Code	Reference	Heating zone length mm	work tube diameter mm	Outer dimensions mm			Power Kw	Voltage V	Maximum Temperature ° C	Maximum Temperature ° C on work limited	Maximum Temperature ° C Continuous	Net Weight Kgr	Termo-couple	Control Type	Heating Elements	Homogeneity heating zone length mm ± 5° C
				H	W	D										
891502012	ST-115020	200	50	400	400	350	2,5	220	1200	1100	900	40	K	P0108 Digital	Wire Kanthal	50
891602012	ST-116020	200	60	400	400	300	2,5	220	1200	1100	900	40	K	P0108 Digital	Wire Kanthal	45
891702012	ST-117020	200	70	400	400	300	2,5	220	1200	1100	900	40	K	P0108 Digital	Wire Kanthal	40
891504012	ST-1005040	400	50	450	650	450	5	220	1200	1100	900	80	K	P0108 Digital	Wire Kanthal	150
891506012	ST-1005060	600	50	450	900	450	7	220	1200	1100	900	100	K	P0108 Digital	Wire Kanthal	350
891508012	ST-1005080	800	50	450	1100	450	9	220	1200	1100	900	115	K	P0108 Digital	Wire Kanthal	550
891604012	ST-1006040	400	60	450	650	450	5	220	1200	1100	900	80	K	P0108 Digital	Wire Kanthal	100
891606012	ST-1006060	600	60	450	900	450	7	220	1200	1100	900	100	K	P0108 Digital	Wire Kanthal	300
891608012	ST-1006080	800	60	450	1100	450	9	220	1200	1100	900	115	K	P0108 Digital	Wire Kanthal	500
891704012	ST-1007040	400	70	450	650	450	5	220	1200	1100	900	80	K	P0108 Digital	Wire Kanthal	50
891706012	ST-1007060	600	70	450	900	450	7	220	1200	1100	900	100	K	P0108 Digital	Wire Kanthal	250
891708012	ST-1007080	800	70	450	1100	450	9	220	1200	1100	900	115	K	P0108 Digital	Wire Kanthal	450

Code	Reference	Heating zone length mm	work tube diameter mm	Outer dimensions mm			Power Kw	Voltage V	Maximum Temperature ° C	Maximum Temperature ° C on work limited	Maximum Temperature ° C Continuous	Net Weight Kgr	Termo-couple	Control Type	Heating Elements	Homogeneity heating zone length mm ± 5° C
				H	W	D										
891251713	ST132517	170	25	550	500	400	3	220	1350	1300	1250	50	S	P0415 Digital	Silicon Carbide	50
891501713	ST13-15017	170	50	550	500	400	5	220	1350	1300	1250	55	S	P0415 Digital	Silicon Carbide	30
891504014	ST-145040	400	50	550	800	500	6	220	1450	1400	1350	80	S	P0415 Digital	Silicon Carbide	150
891704014	ST147040	400	70	550	800	500	6	220	1450	1400	1350	80	S	P0415 Digital	Silicon Carbide	50
891506014	ST145060	600	50	800	1100	500	8	220	1450	1400	1350	120	S	P0415 Digital	Silicon Carbide	350
891706014	ST147060	600	70	800	1100	500	8	220	1450	1400	1350	120	S	P0415 Digital	Silicon Carbide	250
891221715	ST152217	170	22	550	500	400	3	220	1500	1450	1400	60	S	P0415 Digital	Silicon Carbide	50
891504015	ST15-15040	400	50	550	800	500	6,5	220	1500	1450	1400	80	S	P0415 Digital	Silicon Carbide	150
891704015	ST15-17040	400	70	550	800	500	6,5	220	1500	1450	1400	80	S	P0415 Digital	Silicon Carbide	50
891506015	ST15-15060	600	50	800	1100	500	8	220	1500	1450	1400	120	S	P0415 Digital	Silicon Carbide	350
891706015	ST15-17060	600	70	800	1100	500	8	220	1500	1450	1400	120	S	P0415 Digital	Silicon Carbide	250
891504016	ST165040	400	50	550	800	500	7	220	1600	1550	1500	80	S	P0415 Digital	Silicon Carbide	150
891704016	ST167040	400	70	550	800	500	7	220	1600	1550	1500	80	S	P0415 Digital	Silicon Carbide	50
891506016	ST165060	600	50	800	1100	500	9	220	1600	1550	1500	120	S	P0415 Digital	Silicon Carbide	350
891706016	ST167060	600	70	800	1100	500	9	220	1600	1550	1500	120	S	P0415 Digital	Silicon Carbide	250

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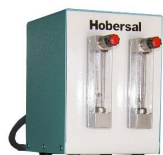
Code	Reference	Heating zone length mm	work tube diameter mm	Outer dimensions mm			Power Kw	Voltage V	Maximum Temperature °C	Maximum Temperature on work limited °C	Maximum Temperature Continuous °C	Net Weight Kgr	Termo-couple	Control Type	Heating Elements	Homogeneity heating zone length mm ± 5° C
				H	W	D										
891503016	ST165030	300	50	750	650	500	6	220	1650	1600	1550	85	S	P0415 Digital	Molibdenum Discilice	60
891503017	ST175030	300	50	750	650	500	6,5	220	1750	1700	1650	85	B	P0415 Digital	Molibdenum Discilice	60
891503018	ST185030	300	50	750	650	500	6,35	220	1800	1750	1700	85	B	P0415 Digital	Molibdenum Discilice	60
891603016	ST166030	300	60	750	650	500	6	220	1650	1600	1550	85	S	P0415 Digital	Molibdenum Discilice	50
891603017	ST176030	300	60	750	650	500	6,5	220	1750	1700	1650	85	B	P0415 Digital	Molibdenum Discilice	50
891603018	ST186030	300	60	750	650	500	6,5	220	1800	1750	1700	85	B	P0415 Digital	Molibdenum Discilice	50



Automatic flow meter box



Vacuum pump + turbo station kit  
Max. Vacuum x 10<sup>-5</sup> (High Vacuum)



Manual flow meter box



Vacuum pump + complete kit  
Max. Vacuum x 10<sup>-2</sup>



Vacuum Flanges (End Seals)  
Vacuum and gas connection  
Vacuum up to x 10<sup>-5</sup>



Ceramic plugs