HORIZONTAL TUBE FURNACE

ST SERIES · UP TO 1800°C

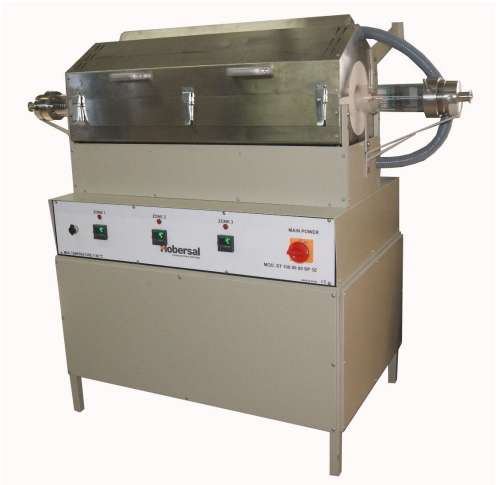
STURDY DESIGN · BRICK INSULATION (23/26) AND FIBER INSULATION (300-400)

High Quality 24/7 Continuos-T° Tube Furnaces

Split / Closed Models

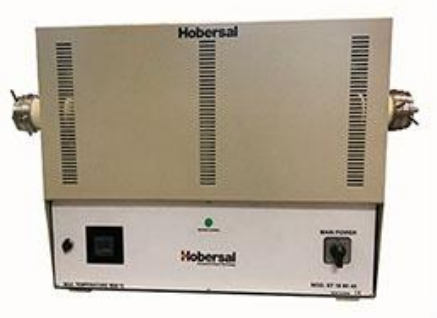
STANDARD FEATURES

- 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

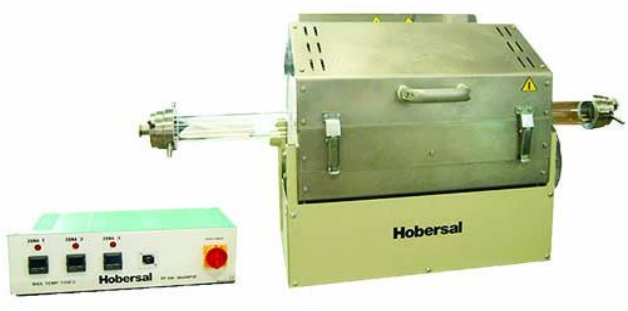
- 1 program / 8 segments programmer
- 4 program / 15 segments programmer
- Programmers up to 64 segments
- Data logger and programmer communication by Ethernet/ RS232

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 º C	Maximum Temperature º C on work limited	Maximum Temperature º C Continuous	Net Weight Kgr	Termo-couple	Control Type	Heating Elements	Homogenity heating zone length mm ± 5º C
				H	W	D										
891502012	ST-115020	200	50	400	400	350	2,5	220	1150	1100	900	40	K	P0108 Digital	Wire Kanthal	50
891602012	ST-116020	200	60	400	400	300	2,5	220	1150	1100	900	40	K	P0108 Digital	Wire Kanthal	45
891702012	ST-117020	200	70	400	400	300	2,5	220	1150	1100	900	40	K	P0108 Digital	Wire Kanthal	40
891504012	ST-1005040	400	50	450	650	450	5	220	1150	1100	900	80	K	P0108 Digital	Wire Kanthal	150
891506012	ST-1005060	600	50	450	900	450	7	220	1150	1100	900	100	K	P0108 Digital	Wire Kanthal	350
891508012	ST-1005080	800	50	450	1100	450	9	220	1150	1100	900	115	K	P0108 Digital	Wire Kanthal	550
891604012	ST-1006040	400	60	450	650	450	5	220	1150	1100	900	80	K	P0108 Digital	Wire Kanthal	100
891606012	ST-1006060	600	60	450	900	450	7	220	1150	1100	900	100	K	P0108 Digital	Wire Kanthal	300
891608012	ST-1006080	800	60	450	1100	450	9	220	1150	1100	900	115	K	P0108 Digital	Wire Kanthal	500
891704012	ST-1007040	400	70	450	650	450	5	220	1150	1100	900	80	K	P0108 Digital	Wire Kanthal	50
891706012	ST-1007060	600	70	450	900	450	7	220	1150	1100	900	100	K	P0108 Digital	Wire Kanthal	250
891708012	ST-1007080	800	70	450	1100	450	9	220	1150	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 º C	Maximum Temperature º C on work limited	Maximum Temperature º C Continuous	Net Weight Kgr	Termo-couple	Control Type	Heating Elements	Homogenity heating zone length mm ± 5º 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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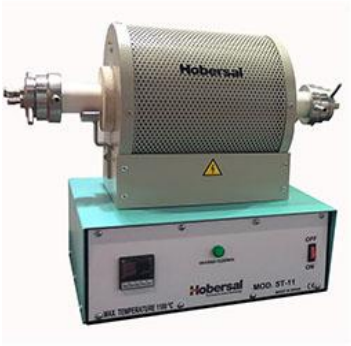
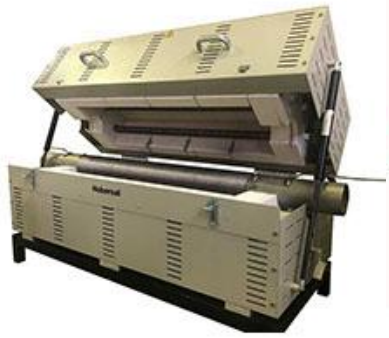
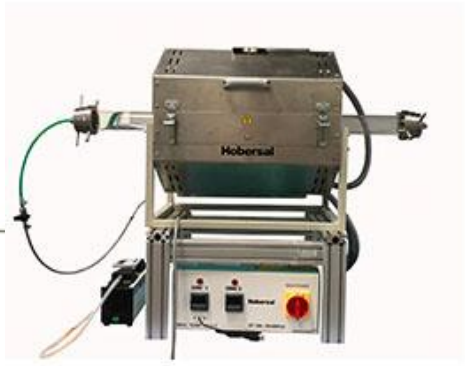
				H	W	D										
891503016	ST165030	300	50	750	650	500	6	220	1650	1600	1550	85	S	P0415 Digital	Molibdenum Discilice	60
891503017	ST175030	300	50	750	650	500	6,5	220	1750	1700	1650	85	B	P0415 Digital	Molibdenum Discilice	60
891503018	ST185030	300	50	750	650	500	6,35	220	1800	1750	1700	85	B	P0415 Digital	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 10-5 (High Vacuum)

Manual flow meter box

Vacuum pump + complete kit
Max. Vacuum x 10-2

Vacuum Flanges (End Seals)
Vacuum and gas connection
Vacuum up to x 10-5