



FURNACES & OVENS TECHNOLOGY

HORIZONTAL TUBE FURNACE

TEMPERATURE RANGE • 1100°C – 1800°C

LF.ST series

SCO Tech
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HORIZONTAL TUBE FURNACE

LF.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:
1150°C - 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:

HORIZONTAL UNIVERSAL TUBE FURNACES MAX. TEMPERATURE 1150° C

Code	Reference	Heating zone length	Work tube diameter	External dimensions mm			Power	Voltage	Maximum Temperature	T _{max} limited work	T _{max} Continuous	Net Weight	Termo-couple	Digital Control	Heating Elements	Homogeneity heating zone length
		mm	mm	High	Wide	Deep	Kw	V	° C	° C	° C	kg	Type	Type	Type	mm
891502012	LF.ST-115020	200	50	400	400	350	2,5	220	1150	1100	900	40	K	P0108	Wire Kanthal	50
891602012	LF.ST-116020	200	60	400	400	300	2,5	220	1150	1100	900	40	K	P0108	Wire Kanthal	45
891702012	LF.ST-117020	200	70	400	400	300	2,5	220	1150	1100	900	40	K	P0108	Wire Kanthal	40
891504012	LF.ST-1005040	400	50	450	650	450	5	220	1150	1100	900	80	K	P0108	Wire Kanthal	150
891506012	LF.ST-1005060	600	50	450	900	450	7	220	1150	1100	900	100	K	P0108	Wire Kanthal	350
891508012	LF.ST-1005080	800	50	450	1100	450	9	220	1150	1100	900	115	K	P0108	Wire Kanthal	550
891604012	LF.ST-1006040	400	60	450	650	450	5	220	1150	1100	900	80	K	P0108	Wire Kanthal	100
891606012	LF.ST-1006060	600	60	450	900	450	7	220	1150	1100	900	100	K	P0108	Wire Kanthal	300
891608012	LF.ST-1006080	800	60	450	1100	450	9	220	1150	1100	900	115	K	P0108	Wire Kanthal	500
891704012	LF.ST-1007040	400	70	450	650	450	5	220	1150	1100	900	80	K	P0108	Wire Kanthal	50
891706012	LF.ST-1007060	600	70	450	900	450	7	220	1150	1100	900	100	K	P0108	Wire Kanthal	250
891708012	LF.ST-1007080	800	70	450	1100	450	9	220	1150	1100	900	115	K	P0108	Wire Kanthal	450

HORIZONTAL UNIVERSAL TUBE FURNACES. HIGH TEMPERATURE 1400° C - 1500° C - 1600° C
SILICON CARBIDE HEATING ELEMENTS

Code	Reference	Heating zone length	Work tube diameter	External dimensions mm			Power	Voltage	Maximum Temperature	T _{max} limited work	T _{max} Continuous	Net Weight	Termo-couple	Digital Control	Heating Elements	Homogeneity heating zone length
		mm	mm	High	Wide	Deep	Kw	V	° C	° C	° C	kg	Type	Type	Type	mm
891251713	LF.ST-132517	170	25	550	500	400	3	220	1350	1300	1250	50	S	P0415	Silicon Carbide	50
891501713	LF.ST13-15017	170	50	550	500	400	5	220	1350	1300	1250	55	S	P0415	Silicon Carbide	30
891504014	LF.ST-145040	400	50	550	800	500	6	220	1450	1400	1350	80	S	P0415	Silicon Carbide	150
891704014	LF.ST-147040	400	70	550	800	500	6	220	1450	1400	1350	80	S	P0415	Silicon Carbide	50
891506014	LF.ST-145060	600	50	800	1100	500	8	220	1450	1400	1350	120	S	P0415	Silicon Carbide	350
891706014	LF.ST-147060	600	70	800	1100	500	8	220	1450	1400	1350	120	S	P0415	Silicon Carbide	250
891221715	LF.ST-152217	170	22	550	500	400	3	220	1500	1450	1400	60	S	P0415	Silicon Carbide	50
891504015	LF.ST15-15040	400	50	550	800	500	6,5	220	1500	1450	1400	80	S	P0415	Silicon Carbide	150
891704015	LF.ST15-17040	400	70	550	800	500	6,5	220	1500	1450	1400	80	S	P0415	Silicon Carbide	50
891506015	LF.ST15-15060	600	50	800	1100	500	8	220	1500	1450	1400	120	S	P0415	Silicon Carbide	350
891706015	LF.ST15-17060	600	70	800	1100	500	8	220	1500	1450	1400	120	S	P0415	Silicon Carbide	250
891504016	LF.ST-165040	400	50	550	800	500	7	220	1600	1550	1500	80	S	P0415	Silicon Carbide	150
891704016	LF.ST-167040	400	70	550	800	500	7	220	1600	1550	1500	80	S	P0415	Silicon Carbide	50
891506016	LF.ST-165060	600	50	800	1100	500	9	220	1600	1550	1500	120	S	P0415	Silicon Carbide	350
891706016	LF.ST-167060	600	70	800	1100	500	9	220	1600	1550	1500	120	S	P0415	Silicon Carbide	250

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

Specifications:

HORIZONTAL UNIVERSAL TUBE FURNACES
HIGH TEMPERATURE 1600° C - 1700° C - 1800° C
MOLYBDENUM DISCILE HEATING ELEMENTS

Code	Reference	Heating zone length	Work tube diameter	External dimensions mm			Power	Voltage	Maximum Temperature	T _{max} limited work	T _{max} Continuous	Net Weight	Termo-couple	Digital Control	Heating Elements	Homogeneity heating zone length
		mm	mm	High	Wide	Deep	Kw	V	° C	° C	° C	kg	Type	Type	Type	mm
891503016	LF.ST-165030	300	50	750	650	500	6	220	1650	1600	1550	85	S	P0415	Molibdenum Discilice	60
891503017	LF.ST-175030	300	50	750	650	500	6,5	220	1750	1700	1650	85	B	P0415	Molibdenum Discilice	60
891503018	LF.ST-185030	300	50	750	650	500	6,35	220	1800	1750	1700	85	B	P0415	Molibdenum Discilice	60
891603016	LF.ST-166030	300	60	750	650	500	6	220	1650	1600	1550	85	S	P0415	Molibdenum Discilice	50
891603017	LF.ST-176030	300	60	750	650	500	6,5	220	1750	1700	1650	85	B	P0415	Molibdenum Discilice	50
891603018	LF.ST-186030	300	60	750	650	500	6,5	220	1800	1750	1700	85	B	P0415	Molibdenum Discilice	50



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