

## 2. High temperature electric furnaces

### 2.1 Muffle furnaces with fiber-insulated chambers

High accuracy laboratory electric furnaces with fiber-insulated chambers that are intended for hardening, loosening, normalising, and other thermal processing up to a temperature of 1100 °C or 1300 °C. The furnaces include ceramic hearth plates. To eliminate gasses or smoke that are released during thermal processing, ventilation hatches and an exhaust system may be additionally installed in the products. The furnaces are an excellent fit for scientific laboratories, educational institutions, medicine, and industry.

#### Basic model

- One-piece chamber made of fiber thermal insulation
- Heating elements embedded in vacuum formed fiber (on models up to 1100 °C)
- Heating elements exposed on ceramic tubes (on models up to 1300 °C)
- Microprocessor-controlled thermoregulator (see page 14)
- Ceramic hearth plates
- High-quality, ecological thermal insulation material
- Low electric power usage
- Short heating up/cooling down period
- High degree of accuracy
- Exterior painted with powder coating (RAL 7035)
- 1 year guarantee

#### Options

- Process observation window (Ø 35mm) up to 1100 °C
- Fan-assisted chimney for air extraction
- Supplemental ceramic hearth plates
- Buzzer
- Protection against overheating
- Data recorder
- Computer connection via RS232/RS-485/USB
- Calibration of temperature measurement system
- Table for supporting the furnace
- Additional 1 year guarantee



SNOL 8,2/1100 LZM01



SNOL 6,7/1300 LSM01



SNOL 8,2/1100 LHM01

Model	Vol., l	T <sub>max</sub> °C	Chamber dimensions, mm			Overall dimensions, mm			Power, kW	Voltage, V	Weight, kg	Door opening		
			Width	Length	Height	Width	Length	Height				upwards	sideways	downwards
<b>Up to 1100 °C</b>														
SNOL 3/1100 LHM01	3	1100	125	200	115	340	470	430	1,7	230	18	●	○	○
SNOL 8,2/1100 LHM01	8,2	1100	200	300	133	440	620	510	1,8	230	28	●	○	○
SNOL 8,2/1100 LSM01	8,2	1100	200	300	133	440	560	510	1,8	230	28	○	●	○
SNOL 8,2/1100 LZM01	8,2	1100	200	300	133	440	560	510	1,8	230	28	○	○	●
SNOL 13/1100 LHM01	13	1100	225	360	180	500	700	550	1,8	230	38	●	○	○
SNOL 22/1100 LHM01	22	1100	275	500	155	600	890	610	3	230	58	●	○	○
SNOL 39/1100 LHM01	39	1100	315	515	225	649	899	739	6	300	74	●	○	○
<b>Up to 1300 °C</b>														
SNOL 6,7/1300 LSM01	6,7	1300	160	295	133	440	550	540	2,4	230	35	○	●	○

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### 2.2 Chamber furnaces with fiber-insulated chambers

Highly accurate laboratory electric furnaces with chambers made of thermal insulation fiber plates. The products are intended for hardening, loosening, normalising, and other thermal processing up to a temperature of 1600 °C. To eliminate gasses or smoke that are released during thermal processing, ventilation hatches and an exhaust system may be supplementally installed in the products. The furnaces are an excellent fit for scientific laboratories, educational institutions, medicine, and industry.

#### Basic model

- Chamber made of fiber thermal insulation plates
- Vacuumized heating elements (up to 1100 °C)
- Heating elements in grooves (up to 1200 °C)
- Heating elements on tubes (up to 1300 °C)
- Exposed heat strips (up to 1600 °C)
- Microprocessor-controlled thermoregulator (see page 14)
- Ceramic hearth plates
- High-quality, ecological thermal insulation material
- Low electric power usage
- Short heating up period
- High degree of accuracy
- Exterior painted with powder coating (RAL 7035)
- 1 year guarantee

#### Options

- Process observation window (Ø 35mm) up to 1100 °C
- Fan-assisted chimney for forced air extraction
- Supplemental ceramic bottom plates
- Buzzer
- Digital timer
- Protection against overheating
- Data recorder
- Computer connection via RS232/RS-485/USB
- Calibration of temperature measurement system
- Table for supporting the furnace
- Additional 1 year guarantee



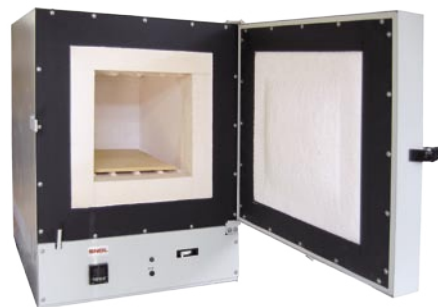
SNOL 30/1300 LSF01



SNOL 80/1100 LSF01



SNOL 40/1200 LSF01



SNOL 30/1100 LSF01



SNOL 8/1600 LSF01

Model	Vol., l	T <sub>max</sub> , °C	Chamber dimensions, mm			Overall dimensions*, mm			Power, kW	Voltage, V	Weight, kg	Door opening		
			Width	Length	Height	Width	Length	Height				upwards	sideways	downwards
<b>Up to 1100 °C</b>														
SNOL 30/1100 LSF01	30	1100	300	450	300	640	800	830	3,4	230	100	○	●	○
SNOL 80/1100 LSF01	80	1100	300	450	600	740	880	1250	5,4	400	135	○	●	○
<b>Up to 1200 °C</b>														
SNOL 40/1200 LSF01	40	1200	290	420	290	640	800	830	3,4	230	100	○	●	○
<b>Up to 1300 °C</b>														
SNOL 30/1300 LSF01	30	1300	200	450	290	640	870	830	4,6	230	120	○	●	○
<b>Up to 1600 °C</b>														
SNOL 8/1600 LSF01	8	1600	150	300	150	620	620	1420	8	400	170	○	●	○

## 2. High temperature electric furnaces

### 2.3 Furnaces with ceramic chambers

Highly accurate laboratory electric furnaces with solid ceramic chambers. The products are intended for hardening, loosening, normalising and other thermal processing to a temperature of 1300 °C. The furnaces include ceramic bottom plates. To eliminate gasses or smoke that are released during thermal processing, ventilation hatches and an exhaust system may be supplementally installed in the products. The furnaces are an excellent fit for scientific laboratories, educational institutions, medicine and industry.

#### Basic model

- Solid ceramic chamber
- Partially exposed heating elements (in 1100 °C max. and 1300 °C max. models)
- Enclosed heating elements (in 900°C max. and 1200 °C max. models)
- Microprocessor-controlled thermoregulator (see page 14)
- Ceramic hearth plates
- High-quality, ecological thermal insulation material
- Low electric power usage
- High temperature inertness
- High degree of accuracy
- Exterior painted with powder coating (RAL 7035)
- 1 year guarantee



SNOL 7,2/1100 LSC01

#### Options

- Process observation window (Ø 35mm) up to 1100 °C
- Fan-assisted chimney for forced air extraction
- Supplemental ceramic hearth plates
- Buzzer
- Digital timer
- Protection against overheating
- Data recorder
- Computer connection via RS232/RS-485/USB
- Calibration of temperature measurement system
- Table for supporting the furnace
- Additional 1 year guarantee



SNOL 7,2/1300 LSC01

Model	Vol., l	T <sub>max</sub> °C	Chamber dimensions, mm			Overall dimensions, mm			Power, kW	Voltage, V	Weight, kg	Door opening		
			Width	Length	Height	Width	Length	Height				upwards	sideways	downwards
<b>Up to 900 °C</b>														
SNOL 4/900 LSC01	4	900	120	295	100	440	560	500	3,7	230	55	○	●	○
SNOL 7,2/900 LSC01	7,2	900	200	300	130	440	575	540	3,3	230	50	○	●	○
SNOL 12/900 LSC01	12	900	210	300	180	560	700	740	4,5	230	120	●	○	○
SNOL 15/900 LSC01	15	900	210	410	160	560	800	740	6	400	130	●	○	○
<b>Up to 1100 °C</b>														
SNOL 4/1100LSC01	4	1100	120	295	100	440	560	500	3,7	230	55	○	●	○
SNOL 7,2/1100 LSC01	7,2	1100	200	300	130	440	575	540	3,3	230	50	○	●	○
SNOL 12/1100 LSC01	12	1100	210	300	180	560	700	740	4,5	230	120	●	○	○
SNOL 15/1100 LSC01	15	1100	210	410	160	560	800	740	6	400	130	●	○	○
<b>Up to 1200 °C</b>														
SNOL 4/1200LSC01	4	1200	120	295	100	440	560	500	3,7	230	55	○	●	○
SNOL 7,2/1200LSC01	7,2	1200	200	300	130	580	750	690	4	230	104	○	●	○
SNOL 12/1200LSC01	12	1200	210	300	180	560	700	740	4,5	230	120	●	○	○
SNOL 15/1200LSC01	15	1200	210	410	160	560	800	740	6	400	130	●	○	○
<b>Up to 1300 °C</b>														
SNOL 4/1300LSC01	4	1300	120	295	100	440	560	500	3,7	230	55	○	●	○
SNOL 7,2/1300 LSC01	7,2	1300	200	300	130	580	750	690	4	230	104	○	●	○
SNOL 12/1300 LSC01	12	1300	210	300	180	560	700	740	4,5	230	120	●	○	○
SNOL 15/1300 LSC01	15	1300	210	410	160	560	800	740	6	400	130	●	○	○