

Thermal processing equipment for laboratories



SNOL

Customized for your hot innovations

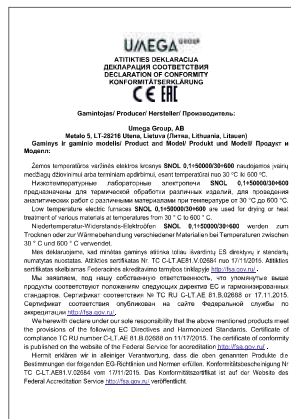
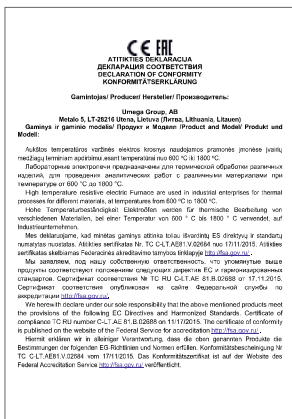
SnoITherm business unit has been producing heat treatment equipment for laboratory and industrial applications since 1960. SnoITherm business unit belongs to Umega Group, AB which is the largest metal processing company in the Baltic States and has more than 700 employees. The company pays particular attention to the product development by using advanced technologies and scientific innovations in order to meet individual user needs. Highly qualified personnel and premium materials result in high quality, reliability, and durability of our manufactured products. Due to the growing SNOL brand awareness, SnoITherm exports 90% of its production and is growing in sales in more than 70 countries, not only in European markets, but also in other regions such as Asia, the Middle East, Africa, North and South America.

Main product lines:

- Laboratory Furnaces
- Laboratory Ovens
- Industrial Furnaces
- Industrial Ovens
- Custom-built Furnaces and Ovens
- Thermal insulation materials
- Storage constructions (Shelving systems and Pallet racks)

SnoITherm advantages:

- Developed according to European standards – SNOL products bear the CE mark and the company's Quality Management System is certified by Bureau Veritas Quality International in compliance with ISO 9001:2015 / LST EN ISO 9001:2015 standards.
- We are one of the biggest manufacturers in the world, producing more than 4,000 units per year.
- Short lead time – we keep around 200 of our most popular products in stock.
- Durability – some of our customers have continuously used the same SNOL products for more than 50 years.
- If you require, we can manufacture products in compliance with AMS2750E or CQI-9 standards.
- Our team of professional engineers are always ready to offer customized solutions for your hot innovations!



3. Low temperature electric ovens

3.1 Chamber ovens up to 300 °C

Our laboratory ovens are designed by a group of professional engineers to be economical and made from high quality materials to be long-lasting. Forced air circulation allows a homogenous temperature distribution to be achieved and ensures optimal results for processes such as drying, heating, thermal testing and aging in an aired environment.

SNOL 60/300 LSN11



SNOL 120/300 LSN11



SNOL 420/300 LSN11

Basic model

- Buzzer
- Chamber made from stainless steel
- Control panel is placed in the underpart of the furnace
- Controllable valve for air exchange in the chamber
- Door opens to the side
- Equipped with non-programmable controller Omron E5CC
- Forced horizontal air circulation
- Good stability and uniformity
- Hermetically sealed doors
- High degree of accuracy
- High quality, ecological thermal insulation material
- Low power consumption
- OTP (over temperature protection)
- Outside casing – metal sheet, powder painted grey
- Shelves, 3 pcs. (except SNOL 20/300)
- Short heating up/cooling down period
- 2 year warranty

Options

- Additional shelves
- Calibration of temperature measurement system
- Data communication/USB
- Digital timer
- Fan speed controller
- Metal tray
- Outside casing made from stainless steel
- Process observation window
- Reinforced shelves
- Table for supporting the oven

Model	Vol., l	Tmax, °C	Chamber dimensions, mm			Overall dimensions, mm			Power, kW	Voltage, V	Weight, kg
			Width	Depth	Height	Depth	Length	Height			
Up to 300 °C											
SNOL 20/300 LSN11	20	300	240	280	340	460	680	640	1.0	230	36
SNOL 60/300 LSN11	60	300	380	380	420	600	755	720	2.0	230	49
SNOL 120/300 LSN11	120	300	550	400	580	750	775	880	2.2	230	68
SNOL 220/300 LSN11	220	300	730	500	620	930	875	915	4.0	230	91
SNOL 420/300 LSN11	420	300	1000	500	860	1200	905	1200	6.2	400	178

3. Low temperature electric ovens

3.2 Chamber ovens up to 350 °C

Our low temperature laboratory ovens are designed by a group of professional engineers to be economical and made from high quality materials to be long-lasting. This ensures optimal results for thermal processing of various materials and parts up to a temperature of 350 °C. This line of products is an excellent fit for scientific laboratories, educational institutions, medicine and industry.

SNOL 67/350 LSN11



Basic model

- Chamber made from stainless steel
- Control panel is placed in the underpart of the furnace
- Controllable valve for air exchange in the chamber
- Door opens to the side
- Equipped with non-programmable controller Omron E5CC
- Natural or forced air circulation depending on the model
- Good stability and uniformity
- Hermetically sealed doors
- High degree of accuracy
- High quality, ecological thermal insulation material
- Low power consumption
- Outside casing – metal sheet, powder painted grey
- Shelves, 3 pcs. (except SNOL 20/300)
- Short heating up/cooling down period
- 1 year warranty

Options

- Additional shelves
- Buzzer
- Calibration of temperature measurement system
- Data communication/USB
- Digital timer
- OTP (over temperature protection)
- Metal tray
- Outside casing made from stainless steel
- Process observation window
- Reinforced shelves
- Table for supporting the oven
- Additional 1 year warranty

Model	Vol., l	Tmax, °C	Chamber dimensions, mm			Overall dimensions, mm			Power, kW	Voltage, V	Weight, kg
			Width	Depth	Height	Width	Depth	Height			
Up to 350 °C											
SNOL 58/350 LSP11	58	350	390	375	360	670	615	580	2.0	230	40
SNOL 58/350 LSN11	58	350	390	375	360	670	615	580	2.0	230	40
SNOL 67/350 LSP01	67	350	390	445	390	670	615	580	2.0	230	37
SNOL 67/350 LSN01	67	350	390	445	390	670	615	580	2.0	230	37

3. Low temperature electric ovens

3.3 Chamber ovens up to 200 °C

Our low temperature laboratory ovens are designed by a group of professional engineers to be economical and made from high quality materials to be long-lasting. This ensures optimal results for thermal processing of various materials and parts up to a temperature of 200 °C. Optional forced air circulation (only in model SNOL 200/200) assures an even temperature distribution throughout the chamber and high quality thermal processing occurs quickly. This line of products is an excellent fit for scientific laboratories, educational institutions, medicine and industry.

SNOL 200/200 LSN11



Basic model

- Chamber made from mild or stainless steel
- Control panel is placed in the underpart of the furnace
- Controllable valve for air exchange in the chamber
- Door opens to the side
- Equipped with non-programmable controller Omron E5CC
- Natural or forced air circulation depending on the model
- Good stability and uniformity
- Hermetically sealed doors
- High degree of accuracy
- High quality, ecological thermal insulation material
- Low power consumption
- Outside casing – metal sheet, powder painted grey
- Shelves, 2 pcs.
- Short heating up/cooling down period
- 1 year warranty

Options

- Additional shelves
- Buzzer
- Calibration of temperature measurement system
- Data communication/USB
- Digital timer
- OTP (over temperature protection)
- Metal tray
- Outside casing made from stainless steel
- Process observation window
- Reinforced shelves
- Table for supporting the oven
- Additional 1 year warranty

Model	Vol., l	Tmax, °C	Chamber dimensions, mm			Overall dimensions, mm			Power, kW	Voltage, V	Weight, kg
			Width	Depth	Height	Width	Depth	Height			
Up to 200 °C											
SNOL 24/200 LSP01	24	200	300	380	200	400	515	410	2.0	230	18
SNOL 200/200 LSP11	200	200	710	610	460	1040	780	775	2.0	230	78
SNOL 200/200 LSN11	200	200	710	610	460	1040	780	775	2.0	230	78

3. Low temperature electric ovens

3.4 Multi-chamber ovens

Our multi-chamber low temperature electric ovens are designed by professional engineers and made from high quality materials, which are manufactured in our factory, such as heavy-duty metal parts and thermal insulation materials. Forced air circulation allows a homogenous temperature distribution to be achieved and ensures optimal results for processes such as drying, preliminary heating and other thermal processes of various materials and parts of up to a temperature of 200 °C. This line of products can be used in scientific laboratories, educational institutions, medicine and industry.

SNOL 4x80/200 LSN18



Basic model

- Chamber made from mild or stainless steel
- Control panel is placed in the underpart of the furnace
- Controllable valve for air exchange in the chamber
- Door opens to the side
- Equipped with non-programmable controller Omron E5CC
- Natural air circulation
- Hermetically sealed doors
- OTP (over temperature protection)
- Outside casing – metal sheet, powder painted grey
- Shelves, 2 pcs.
- 1 year warranty

Options

- Additional shelves
- Buzzer
- Calibration of temperature measurement system
- Data communication/USB
- Digital timer
- Fan speed controller
- Metal tray
- Outside casing made from stainless steel
- Process observation window
- Reinforced shelves
- Table for supporting the oven

Model	Vol., l	Tmax, °C	Chamber dimensions, mm			Overall dimensions, mm			Power, kW	Voltage, V	Weight, kg
			Width	Depth	Height	Width	Length	Height			
SNOL 4x80/200 LSP18	4x80	200	500	400	400	1910	925	1950	18.0	400	440
SNOL 4x80/200 LSN18	4x80	200	500	400	400	1910	925	1950	18.0	400	440
SNOL 2x240/200 LSP11	2x240	200	500	400	1200	1500	960	1715	24.0	400	450
SNOL 2x240/200 LSN11	2x240	200	500	400	1200	1500	960	1715	24.0	400	450

3.5 Protective atmosphere ovens

Our SNOL 78/300 is a protective atmosphere oven, which is designed by a group of professional engineers and manufactured in our factory. This type of oven ensures protection from oxidation processes of various metals in up to 300 °C. This can be applied in scientific laboratories, educational institutions, medicine or industry.

Basic model

- Chamber made from stainless steel
- Hermetically sealed chamber
- Protective gas injection system (nitrogen or argon)
- Flow meter
- Reducer
- Equipped with non-programmable controller Omron E5CC
- Outside casing – metal sheet, powder painted grey
- 1 year warranty

Model	Vol., l	Tmax, °C	Chamber dimensions, mm			Overall dimensions, mm			Power, kW	Voltage, V	Weight, kg
			Width	Depth	Height	Width	Length	Height			
SNOL 78/300-1 LSN01	78	300	410	435	425	600	755	715	2.0	230	48

4. Control devices

4.1 Temperature controllers

SNOL products are equipped with high-precision digital microprocessor Omron or Eurotherm temperature controllers fitted with self-tuning and manual PID settings. Temperature measurement is supported by thermocouple. The customer can select a basic or programmable temperature controller, which offers up to 32 programming segments (rate of temperature rise or decrease control, maintenance of preset temperature, automatic shutdown). A wide range of devices allows to select the most appropriate controller for your process.

Omron E5CC



Eurotherm 3216



Eurotherm 3504



Omron E5CC-T



Eurotherm 3208



Eurotherm Nanodac



Model	Programmable	Number of programs	Number of steps in a program	Computer port	Control method		Control signal		
					PID	ON/OFF	Type		Numbers of auxiliary outputs
							Relay	Voltage	
Omron E5CC	○	1	2	●	●	●	●	●	3
Omron E5CC-T	●	8	32	●	●	●	●	●	3
Eurotherm 3216	○	1	8	●	●	●	●	●	2
Eurotherm 3208	●	5	8	●	●	●	●	●	3
Eurotherm 3508	●	50	50	●	●	●	●	●	2
Eurotherm 3504	●	50	50	●	●	●	●	●	5
Eurotherm Nanodac	●	100	25	●	●	●	●	●	5
Eurotherm E+PLC100 *	●	-	-	●	●	●	●	●	4

* PID controller, recorder and PLC in one – designed for elaborate control algorithms.

4. Control devices

4.2 Eurotherm data recorders

Eurotherm data recorders are ideal for basic visualisation and recording requirements. They have a full colour display and utilise touch screen technology for clear and intuitive configuration and operation. Also, support of a USB port comes as standard to enable the use of a mouse, keyboard or a bar code scanner. Data can be moved manually or automatically archived to multiple locations: removable media, network servers or the Eurotherm Review database on a PC. These recorders can easily be integrated into a larger system and data files can be transferred across the network.

Main features:

- Advanced data security and archiving
- 5.5", 1/4 VGA, Color touch screen display
- Designed for network and stand alone use
- FTP client and server
- Live, remote data viewing and configuration
- 125ms parallel sampling.



4.3 Computer software SNOL V2.0

SNOL V2.0 is a computer software for data recording, viewing and configuring the temperature controller running your thermal treatment process. The software is designed for Windows operating system. Computer software allows to simply run, review and display charts on thermal process temperatures and other settings.

Main features:

- Up to 128 controllers connection
- Supports up to 4 computer ports
- Control of device parameters and programs via computer
- Live, remote data viewing and configuration
- Graphical representation of the data
- Data export to Microsoft Excel format
- Ability to observe the process in a distance by internet
- Connections RS-232 and RS-485.
- Multiple language entry (ability to install necessary language).



4.4 Timer Galaxy

The main function of the timer is remote start of the furnace. The timer works in real-time. During the operation, the output contact of the timer is operated according to the settings of the dial-switches. However, it is possible to manually override this operation for each channel individually at all times.

Main features:

- Start and stop 24 hour / 7 day oven operation
- Stores up to 20 programs with up to 10 ON and 10 OFF events/day
- Manual 3-way override
- 16 Amp, 277 VAC resistive SPDT output contacts
- Reserve carryover: 3 years (Non-replaceable battery)
- Manual Daylight Time Changeover
- 3 languages option
- Available only with Omron devices.



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