

## **SNOL 1300°C Laboratory Furnaces**

**The Fibre Muffle 1300 series from AML Instruments are a range of precision laboratory electric muffle furnaces, with a counter balanced lift-up door, for use up to 1300°C.**

They are designed for materials testing, heat treatment, ceramic and stoneware samples firing and ashing (models with chimney). And are used in laboratories, educational institutions, ceramic studios and in industry for thermal processing.

The chamber is made of high thermal efficiency vacuum-formed ceramic fibre, with heating elements exposed on ceramic tubes on both sides and a ceramic tile to protect the fibre base from wear.

A Eurotherm 3216 digital PID temperature controller is fitted as standard and provides precise temperature control with good stability and minimal over-shoot.

AML offers these furnaces complete with over-temperature protection as standard, preventing it exceeding its maximum temperature. It therefore meets the Health and Safety Directive, which mandates that where units are left unattended they must have over-temperature protection fitted. Additionally we also offer over-temperature protection that can have the maximum temperature set by the operator.

A fan assisted chimney at the rear of the furnace is useful for processes producing fumes or giving off carbon (e.g. ashing or burn-off operations).

These furnaces are available with optional UKAS (ISO17025) calibration of the temperature control system.






- ✓ Lift-up door for efficient use of work space and better safety
- ✓ Over-Temperature Protection as standard, for better safety
- ✓ Good stability and uniformity
- ✓ Fast heating and cooling time due to low thermal mass construction
- ✓ Low power consumption for reduced running costs and energy savings

<b>Model</b> <i>AML Stock Code</i>	<b>Capacity</b> <i>(WxDxH in mm)</i>	<b>External Size</b> <i>(WxDxH in mm)</i>	<b>Voltage / Power / Connector</b>	<b>Weight</b>	<b>Price</b>
<b>SNOL 10/1300 LHM11</b> <i>FCESNOL10/1300LHM11</i>	8.6 Litres 180 x 310 x 155	510 x 750 x 640	230Vac / 2.9kW / UK 13A style Plug	39kg	<b>£2,680</b>

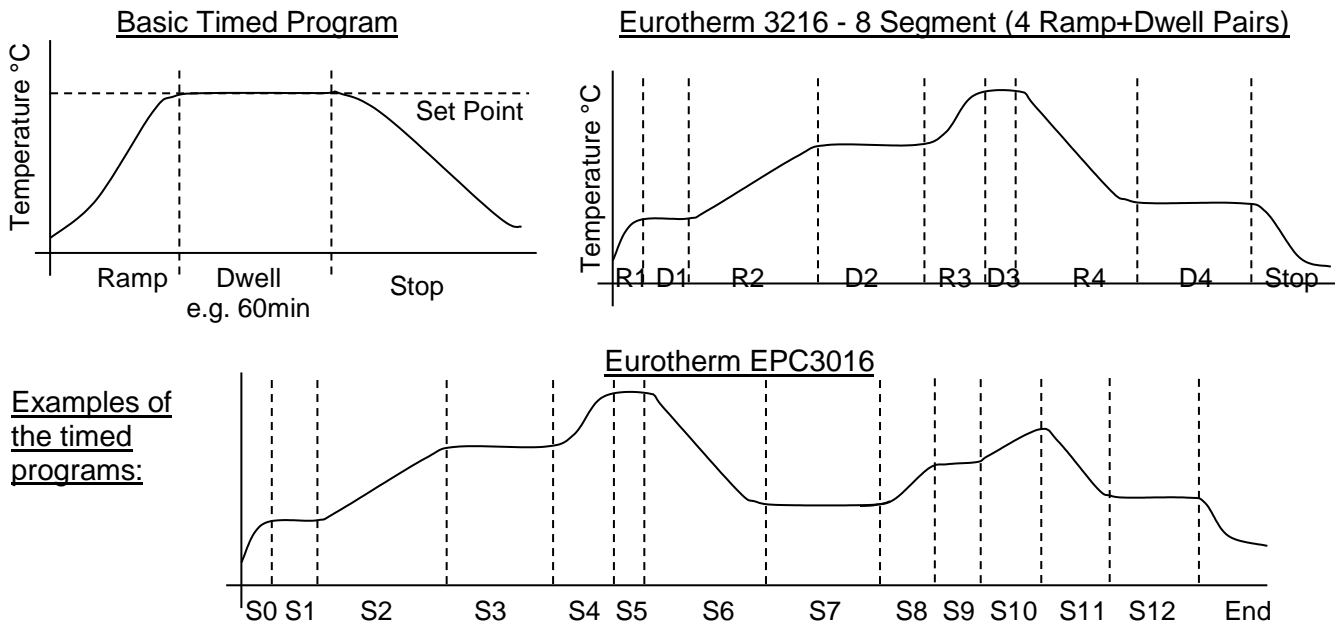
Note: At least 1/10<sup>th</sup> of the chamber dimensions should be left unused on each side and the load (especially metal parts) must never touch the exposed elements. External Size includes chimney. If used below 300°C these units may over-shoot the set temperature, depending on load. Weight is for the standard model and excludes transportation packaging.

*Prices Exclude VAT and Delivery and are correct at the time of writing. Specification and price subject to change without notice. All trade marks acknowledged. Appearance may vary from images shown.*

**Temperature Controller Options for 1300°C Furnaces**

<p><b>Eurotherm 3216</b> Fitted as standard.</p>	<p><b>Eurotherm 3216 Programmer, 1 Program, 8 Segments</b> Optional at extra cost. <b>+£110</b></p>	<p><b>Eurotherm EPC3016 Programmer, 10 Program, 24 Segments each, RJ45 Ethernet PC Network Port</b> Optional at extra cost. <b>+£535</b></p>
		
<p>1/16<sup>th</sup> DIN Size (~48x48mm). Run/Stop (Auto/Off) Modes. Settable Heating Ramp Rate Basic Timed Program: Ramp, Dwell, Stop.</p>	<p>1/16<sup>th</sup> DIN Size (~48x48mm). Run/Stop (Auto/Off) Modes. Settable Heating Ramp Rate. 8 Segment Timed Program: 4 Ramp+Dwell pairs, Stop.</p>	<p>1/16<sup>th</sup> DIN Size (~48x48mm). Run/Stop (Auto/Off) Modes. Settable Heating Ramp Rate. 10 Timed Programs with 24 Segments each (Ramp, Dwell, etc).</p>
	<p><b>Eurotherm 3216 Programmer, 5 Program, 8 Segments each</b> Optional at extra cost. <b>+£235</b></p>	<p>Connection to a laptop or PC network via Ethernet RJ45 port on front panel. Includes PC software for easier creation, editing and backup of timed programs.</p>

Other instruments can be fitted to order, to give features such as timed programs with more segments, audible alarms, remote communications and data recording. Please contact us for details.



Examples of the timed programs:

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**Over-temperature Protection Options for Furnaces**

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<p><b>OTP 1</b> Fitted as standard.</p>	<p>An internally fitted temperature limit controller, which users cannot access or change the temperature setting. Protects the furnace from exceeding its maximum safe temperature.</p>
<p><b>OTP 2</b> +£250</p>	<p>A digital temperature limit controller mounted in the front panel. Displays its temperature reading and can be set by the user to protect their load from exceeding their desired temperature. If the furnace temperature exceeds the temperature set on the over-temperature protection controller, the furnace will be prevented from heating until the user resets the over-temperature protection controller, by pressing a button.</p>

**Chimney**

A fan assisted chimney is standard, at the rear of the furnace. The fan can be turned off via a switch on the front panel. A wad of insulation fibre is included, so the chimney can be blocked when it isn't required, or partially blocked to limit the airflow.

**Accessible Thermocouple Connections +£60**

We can fit accessible thermocouple connections to save time with regular calibrations. Connections at the rear.

**Other options**

The range is also available with stainless steel exterior (pictured). The lead time is typically 6 – 8 weeks and the price of the unit and some options are higher. Please contact us for a quote.

We may be able to assist with other bespoke requirements, please contact us for further details.

Whilst the standard model is normally available from stock, other options normally take longer. Please contact us for a quote with current lead-times.

Larger models are also available to-order (5 – 8 weeks delivery) including a 30 litre 1300°C (pictured) model and a 40 litre 1200°C model with a sideways opening door.



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## **After Sales Service & Warranty**

AML Instruments has been stocking and selling the SNOL range since 2008. We hold UK stock of a wide range of spares and accessories and can offer service and repairs at our factory if required at a later date. On-site service and repairs may be available subject to location and the nature of the repair. We also offer a range of on-site calibration services, see our website or contact us for more details.

Each unit has a 1 year return to base warranty from the date of purchase from AML Instruments and covers normal use of the unit in accordance with its instruction manual. It does not cover excessive 'wear and tear' to the soft fibre muffle or damage caused by careless use of the spring assisted door.

On receipt of the unit it is important to check for any transport damage and report it to AML Instruments and note it on the carrier's paperwork. It is recommended to keep the original wooden packaging in case the unit ever needs returning.

Under the warranty any manufacturing defects will be rectified by AML Instruments as the agent of the manufacturer at no charge. 'Return to base' means the customer is responsible for return of the unit to AML Instruments's site (Lincolnsire, UK) for assessment with a view to repairing under warranty. Or, if necessary, we can provide collection at a cost, provided the unit is suitably packaged. For any work performed that is solely covered by the warranty AML Instruments will provide return shipment of the unit within the UK and Republic of Ireland at no charge. Whilst AML Instruments stocks a range of spares and aims to resolve any warranty repairs quickly, typically within 3 – 8 working days, the warranty does not guarantee this or any provision of a loan unit while the customer's unit is with us.

### *Part of a range of thermal solutions from AML Instruments*



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