



## LARGE INDUSTRIAL CHAMBER FURNACE - LCF

**The robust construction of LCF industrial chamber furnaces makes them ideal for applications such as the heat treatment of steels and alloy, ceramics sintering and aerospace heat treatment.**

The LCF industrial furnace range is often customised in order to precisely meet the user's requirements. This range also provides a foundation upon which a wide range of custom modifications can be added. Typical examples of which are the more sophisticated control systems and data recording that is required for applications such as AMS 2750F heat treatment under Nadcap. Solutions are available to handle heavier loads or assist in loading and unloading the furnace, or larger chamber sizes than are offered in the standard range.



[Click to view video](#)

LCF 12/202 with Roller Hearth & Air/Water Cooling Cabinet

## STANDARD FEATURES

- | 1200°C & 1400°C maximum temperatures
- | Programmable EPC3016P1 controller
- | Over-temperature protection
- | Excellent uniformity and control
- | Robust construction using hollow steel section & zinc coated steel sheet
- | Double skin construction ensures safe outer case temperature
- | Manually operated vertically opening door keeps the hot face away from the operator
- | Low thermal mass insulation for high energy efficiency
- | Hard wearing silicon carbide tiled hearth
- | 1200°C range heated by heavy gauge wire elements in roof and below the hearth
- | 1400°C range heated by high quality silicon carbide elements in roof and below the hearth
- | Safety door interlock isolates power from the elements whenever the door is opened
- | Ethernet communications

## OPTIONS (*SPECIFY THESE AT TIME OF ORDER*)

- | A range of sophisticated digital controllers, multisegment programmers and data loggers with digital communication options is available - more information about controllers
- | Pneumatically or electrically operated doors
- | A range of retorts can be supplied for using modified with atmospheres up to 1000°C
- | Remote control module
- | Bespoke specifications are available for AMS2750F (Nadcap) compliant applications

## TECHNICAL DETAILS (MODELS)

	<b>LCF 12/202</b>	<b>LCF 12/405</b>	<b>LCF 12/560</b>
<b>Max temp (°C)</b>	1200	1200	1200
<b>Max continuous operating temp (°C)</b>	1150	1150	1150
<b>Dimensions:</b>			
<b>Internal H x W x D (mm)</b>	300 x 600 x 1120	450 x 750x x 1200	500 x 750 x 1500
<b>Dimensions:</b>			
<b>External H x W x D (mm)</b>	2310 x 1180 x 1590	2620 x 1440 x 1750	2700 x 1500 x 2300
<b>Volume (litres)</b>	202	405	560
<b>Max power (W)</b>	24000	35000	45000
<b>Thermocouple type</b>	R	R	R

	<b>LCF 12/675</b>	<b>LCF 12/720</b>	<b>LCF 14/125</b>
<b>Max temp (°C)</b>	1200	1200	1400
<b>Max continuous operating temp (°C)</b>	1150	1150	1400
<b>Dimensions:</b>			
<b>Internal H x W x D (mm)</b>	500 x 750 x 1800	600 x 1000 x 1200	250 x 500 x 1000
<b>Dimensions:</b>			
<b>External H x W x D (mm)</b>	2700 x 1500 x 2600	2950 x 1575 x 1810	2310 x 1340 x 1650
<b>Volume (litres)</b>	675	720	125
<b>Max power (W)</b>	60000	60000	30000
<b>Thermocouple type</b>	R	R	R

	<b>LCF 14/350</b>	<b>LCF 14/480</b>	<b>LCF 14/725</b>
<b>Max temp (°C)</b>	1400	1400	1400
<b>Max continuous operating temp (°C)</b>	1400	1400	1400
<b>Dimensions:</b>			
<b>Internal H x W x D (mm)</b>	400 x 760 x 1130	500 x 800x x 1200	500 x 720 x x 1790
<b>Dimensions:</b>			
<b>External H x W x D (mm)</b>	2545 x 1549 x 1800	2560 x 1650 x 1900	2620 x 1480 x 2470
<b>Volume (litres)</b>	350	480	725
<b>Max power (W)</b>	48000	60000	60000
<b>Thermocouple type</b>	R	R	R

[www.carbolite.com/lcf](http://www.carbolite.com/lcf)