



## GPCMA - CUPTOR CU ATMOSFERĂ CONTROLATĂ

The GPCMA modified atmosphere chamber furnaces are equipped with a metallic retort to provide a heated volume with a controlled atmosphere. They are floor-standing models with a smooth action hinged door arrangement.

Available with a range of maximum temperature from 1000 °C to 1150 °C dependent on the selected retort material. Retort working volumes range from 37 to 245 litres.

Oxygen levels can be reduced to 30 ppm depending on the application. Perfect for stress relieving additive manufactured components particularly those produced via DMLS. This range of furnaces can be optionally specified for compliance to AMS2750F Nadcap class 1 for aerospace applications.



[Click pentru video](#)

Video Produs: GPCMA - Cuptor cu atmosferă controlată

## CARACTERISTICI STANDARD

- | A range of maximum temperatures dependant on retort material:
  - 310 Stainless Steel: 1000 °C max
  - 314 Stainless Steel: 1050 °C max
  - Inconel 601: 1100 °C max
  - Haynes 230: 1150 °C max
- | Programmable 3508P1 controller
- | 2-zone cascade control
- | Protecție la supra-încălzire
- | 37, 56, 117, 174, 208 or 245 litre retort working volume
- | Semi-automatic gas system with analogue flowmeters for nitrogen or argon
- | Free radiating coiled wire elements on two sides, the roof and under the hearth (37 litre: two sides and under hearth)
- | Izolație termică pentru încălzire rapidă & eficiență energetică
- | Smooth action double pivot door shields the user from excessive heat
- | Type R control thermocouples
- | Type K internal retort thermocouple
- | Silicone rubber water cooled door seal
- | Door safety interlock

## OPȚIUNI (SPECIFICAȚI OPȚIUNILE ÎN MOMENTUL EFECTUĂRII COMENZII)

- | Sisteme de control variate cu programare multi-segment și achiziție de date. Acestea pot fi echipate cu protocoale de comunicație RS232, RS485 sau Ethernet - mai multe informații
- | Vacuum option (10<sup>-2</sup> mbar) for faster atmosphere exchange at room temperature only. No heat treatment under vacuum possible. A vacuum retort MUST be ordered with this option
- | Semi-automatic gas system with analogue flowmeters for argon
- | Semi-automatic gas system with digital flowmeters
- | Automatic gas system with gas monitoring and control with mass flow controllers
- | Oxygen monitoring system with 3504 programmer
- | Forced cooling system
- | Active afterburner torch option (propane or methane with pressured air; NOT compatible with vacuum option/vacuum retorts)
- | Chiller unit, 5 litre/min, 1 kW
- | Loading trolley
- | AMS2750F Nadcap compatible models are available for aerospace applications
- | Various loading and unloading options can be supplied

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## EXEMPLE



GPCMA /174 echipat opțional conform AMS2750G  
clasa 1 / tip A



GPCMA /174 cu sistem de control gaz PLC, ecran  
tactil HMI, dispozitiv de post-combustie pentru  
gazele evacuate. Proiectat pentru a se potrivi în  
peretele unei camere curate.

## DETALII TEHNICE (MODELE)

	<b>GPCMA/37</b>	<b>GPCMA/56</b>	<b>GPCMA/117</b>
<b>Retort Volume (litres)</b>	37	56	117
<b>Temp. max. (°C)</b>	1000 - 1150 (dependant on retort material)	1000 - 1150 (dependant on retort material)	1000 - 1150 (dependant on retort material)
<b>Dimensiuni: Externe H x W x D (mm)</b>	1990 x 1180 x 1470	1846 x 1260 x 1725	1896 x 1360 x 1875
<b>Dimensions: Retort Internal Size H x W x D (mm)</b>	205 x 337 x 538	229 x 400 x 610	279 x 500 x 840
<b>Dimensions: Uniform Volume H x W x D (mm)</b>	100 x 250 x 300	150 x 275 x 300	200 x 400 x 550
<b>Putere max. (W)</b>	17000	24000	30000
<b>Greutate (kg)</b>	220	485	608

	<b>GPCMA/174</b>	<b>GPCMA/208</b>	<b>GPCMA/245</b>
<b>Retort Volume (litres)</b>	174	208	245
<b>Temp. max. (°C)</b>	1000 - 1150 (dependant on retort material)	1000 - 1150 (dependant on retort material)	1000 - 1150 (dependant on retort material)
<b>Dimensiuni: Externe H x W x D (mm)</b>	2045 x 1360 x 1875	2045 x 1360 x 2025	2145 x 1460 x 2025
<b>Dimensions: Retort Internal Size H x W x D (mm)</b>	428 x 500 x 815	428 x 500 x 970	500 x 600 x 815
<b>Dimensions: Uniform Volume H x W x D (mm)</b>	350 x 400 x 550	350 x 400 x 750	400 x 500 x 550
<b>Putere max. (W)</b>	36000	39000	45000
<b>Greutate (kg)</b>	705	800	950

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