



## GPCMA - KOMOROVÉ PECE S MODIFIKOVANOU ATMOSFÉROU

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.



[Kliknutím zobrazíte video](#)

Produktové video: GPCMA - Komorové pece s  
modifikovanou atmosférou

## ŠTANDARDNÁ VÝBAVA

- | 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
- | Ochrana proti prehriatiu
- | 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)
- | Tepelná izolácia pre rýchlejšie vykurovanie a vyššiu úsporu energie
- | 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

## MOŽNOSTI (UVEĎTE PRI OBJEDNÁVKE)

- | Dostupná je široká rada digitálnych regulátorov, multi segmentových programátorov a ústrední. Tieto pece môžu byť vybavené komunikačným rozhraním RS232, RS485 alebo Ethernetom - viac informácií
- | Vacuum option ( $10^{-2}$  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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## EXAMPLES



GPCMA /174 fitted with optional compliance to AMS2750G class 1 / type A



GPCMA /174 with PLC controlled gas system, HMI touch panel and afterburner with heated gas outlet. Designed to fit against a clean room wall opening.

## TECHNICKÉ ÚDAJE (MODELY)

|   | <b>GPCMA/37</b>                           | <b>GPCMA/56</b>                           | <b>GPCMA/117</b>                          |
|---|---|---|---|
| <b>Objem retorty (litre)</b>                              | 37  | 56  | 117                                       |
| <b>Maximálna teplota (°C)</b>                             | 1000 - 1150 (závisí od materiálu retorty) | 1000 - 1150 (závisí od materiálu retorty) | 1000 - 1150 (závisí od materiálu retorty) |
| <b>Rozmery: vonkajšie V x Š x H (mm)</b>                  | 1990 x 1180 x 1470                        | 1846 x 1260 x 1725                        | 1896 x 1360 x 1875                        |
| <b>Rozmery: Retortová vnútorná veľkosť H x Š x D (mm)</b> | 205 x 337 x 538                           | 229 x 400 x 610                           | 279 x 500 x 840                           |
| <b>Rozmery: Uniformný objem H x Š x H (mm)</b>            | 100 x 250 x 300                           | 150 x 275 x 300                           | 200 x 400 x 550                           |
| <b>Maximálny výkon (W)</b>                                | 17000                                     | 24000                                     | 30000                                     |
| <b>Váha (kg)</b>  | 220                                       | 485                                       | 608                                       |

|   | <b>GPCMA/174</b>                          | <b>GPCMA/208</b>                          | <b>GPCMA/245</b>                          |
|---|---|---|---|
| <b>Objem retorty (litre)</b>                              | 174                                       | 208                                       | 245                                       |
| <b>Maximálna teplota (°C)</b>                             | 1000 - 1150 (závisí od materiálu retorty) | 1000 - 1150 (závisí od materiálu retorty) | 1000 - 1150 (závisí od materiálu retorty) |
| <b>Rozmery: vonkajšie V x Š x H (mm)</b>                  | 2045 x 1360 x 1875                        | 2045 x 1360 x 2025                        | 2145 x 1460 x 2025                        |
| <b>Rozmery: Retortová vnútorná veľkosť H x Š x D (mm)</b> | 428 x 500 x 815                           | 428 x 500 x 970                           | 500 x 600 x 815                           |
| <b>Rozmery: Uniformný objem H x Š x H (mm)</b>            | 350 x 400 x 550                           | 350 x 400 x 750                           | 400 x 500 x 550                           |
| <b>Maximálny výkon (W)</b>                                | 36000                                     | 39000                                     | 45000                                     |
| <b>Váha (kg)</b>  | 705                                       | 800                                       | 950                                       |

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