



Vertical Retort Carburising Furnaces

The **ALMOR Model GC Vertical Retort Gas Carburising Furnace** is based on the well proven **WILD BARFIELD** design. Over many years **WILD BARFIELD** has established a reputation for the supply of robust installations to meet a wide variety of gas carburising and neutral hardening needs for a diverse range of industries:

- Automotive
- Gears
- Mining (long drill shafts and bits)
- Aerospace

► DESIGN FEATURES

- Range of standard sizes
- Electric or Gas heating
- Fixed or removable retorts
- Special sizes - up to 4,500 mm deep
- up to 2,500 mm diameter
- Lid mounted fan and baffle system promotes excellent atmosphere circulation
- Excellent temperature uniformity ($\pm 5^{\circ}\text{C}$ 600 – 1000°C – electric version)
- Hydraulically operated lid lifting gear to compensate for weight of lid
- Accelerated cooling (optional)
- Suitable for various carrier gases (endothermic, nitrogen/methanol)
- Advanced process controls (oxygen probe, CO/CO₂/CH₄ IR systems)

OTHER ALMOR GROUP PRODUCTS:

- Air circulation tempering furnaces
- Quench tank
- Cleaning systems
- Endothermic gas generators
- Process control systems
- Spares parts and service



For more information

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► Customer Benefits

■ MINIMUM MAINTENANCE

The electrically heated models are heated by high quality nickel chrome elements, designed with low energy dissipation to give long, trouble free, life. The elements are graded to promote good temperature uniformity.

■ RELIABLE, CONSISTENT RESULTS

A lid mounted fan and baffle system promotes excellent atmosphere circulation.

Advanced process control systems are incorporated to give accurate control of the atmosphere and case depth. These include oxygen probe and 3-gas IR (CO, CO₂, CO₄) systems.

■ COMPLETE SOLUTION

ALMOR can provide a complete turn key solution, including site installation, commissioning and training. Companion equipment includes tempering furnaces, cleaning plants, quench tanks and endogas generators.

■ AFTER SALES SUPPORT

ALMOR provide complete after sales spares and service support. Spares include heating elements, nickel chrome retorts and work support systems.

Maintenance service contracts can be provided together with metallurgical/technical consultancy.

► Technical Data

MODEL	EFFECTIVE DIAMETER MM	EFFECTIVE DEPTH MM	RATING Kw (1)	ENDOGAS FLOW m ³ /HR	APPROXIMATE OVERALL DIMENSIONS MM		
					W	L	H (2)
GC1623	400	580	44	1.5	2500	2600	2600
GC1632	400	815	53	1.5	2500	2600	2750
GC2430	610	760	67	3.0	2800	2900	2700
GC2438	610	965	78	3.0	2800	2900	2850
GC2446	610	1170	90	3.0	2800	2900	3050
GC2454	610	1370	100	4.0	2800	2900	3250
GC3638	915	965	100	4.0	3700	3400	3150
GC3654	915	1370	110	7.0	3700	3400	3550
GC3662	915	1575	150	7.5	3700	3400	3800

(1): The above data is for electrically heated fixed retort design. Standard models operate on 400V, 3-phase, 50 Hz supply. Other voltages/frequencies available to order

(2): Not including height required to crane lifting hook, for work removal