

# HCV SERIES

VERTICAL DOOR / PANTOGRAPH SIDE DOOR / SIDE DOOR · STURDY DESIGN · BRICK INSULATION (23/26)

**High Quality 24/7 Continuous-T° Muffle Furnaces · From 1000°C to 1300°C  
BIG SIZES from 56L to 2000L (Custom designs available)**

## STANDARD FEATURES

- CE manufactured
- Maximum operating temperature:  
From 1000°C to 1300°C
- Compact and lightweight
- 24/7 continuous work capability
- 3, 4 and 5 heating zones with KANTHAL AF
- Low thermal mass insulation
- Built with low density ceramic bricks and ceramic fiber
- Double insulation includes air chamber
- Outer case in painted metal sheet (inox optional)
- Rear ventilation via ceramic chimney
- Ceramic tray included
- Thermocouple type K or S
- Spare parts easily replaceable by end user

## FURNACE CONTROLS

- Lower front / side control panel
- Solid state relay
- General safety switch
- General safety contactor
- **PAD Digital control**
  - PID parameters
  - Non-volatile memory
  - Microprocessor-based temperature controls
  - Alarm

## CONTROL OPTIONS

- 1 program / 8 segments programmer
- 4 program / 15 segments programmer
- Programmers up to 64 segments
- Data logger and programmer communication by Ethernet/ RS232

## SAFETY SHUT-OFF

- Thermocouple break shut-off
- Turns off upon door opening

## ACCESSORIES

- Interchangeable temperature-uniform trays with rim
- Refractory ceramic tray
- Incoloy stainless steel tray
- Smoke chimney
- Forced smoke chimney
- Safety alarm Class II. Over-temperature protection
- Inlet gas entry
- Flow meter box
- Silicon Carbide chamber
- and more, ask for our full assortment



HCV Pneumatic and vertical lift door



HCV64 and 125



HCV customized

# HCV SERIES

VERTICAL DOOR / PANTOGRAPH SIDE DOOR / SIDE DOOR · STURDY DESIGN · BRICK INSULATION (23/26)

**High Quality 24/7 Continuous-T° Muffle Furnaces · 1000°C - 1200°C - 1300°C  
BIG SIZES from 56L to 2000L (Custom designs available)**

## CHARACTERISTICS

- Reinforced construction, metal case with chrome-phosphatizing base protection and external finish with heat-resistant metal paint.
- Refractory parts engineered to resist extreme temperature changes, and specific ceramic paste types applied according to temperature and work fatigue of each part.
- Heat resistance in refractory insulation of very low thermal conductivity coefficient.
- Pantograph side door allows for a complete clear opening, protecting workers from ceramic block heat radiation. Pressure-adjusted door system, allowing for complete sealing. Half-opened door mode for a quick smoke evacuation. Electrically and thermally isolated door handle.

## BASIC ACCESSORIES

- Extraction Chimney: Self-extraction design to eliminate smoke in processes that produce smoke in a considerable amount or when smoke extraction is advisable due to the nature of the process. Chimney outlet connection to a smoke bell or to the exterior by end user.
- Forced air extraction chimney: Specially designed for a forced self-extraction to evacuate smoke fast at resistance in refractory insulation of very low thermal conductivity coefficient.
- Bottom trays: Interchangeable, temperature uniform, with rim to protect against spilling, fusion or adherence of materials.

## SPECIFICATIONS

Fully customized solutions by request  
We reserve the right to change technical specifications

Code	Reference	Inner dimensions mm			Outer dimensions mm			Volume Liters	Power Kw	Voltage V	Maximum Temperature °C	Maximum Temperature °C on work limited	Maximum Temperature Continuous	Net Weight Kgr	Termo-couple	Control Type	Heating Elements	Heating Zone
		H	W	D	H	W	D											
820005612	HCV56/12	350	400	400	830	780	760	56	12	220 III 380 III	1200	1150	1100	150	K	P0104 Digital	Wire Khantal	3
820007012	HCV70/12	350	400	500	830	770	860	70	12	220 III 380 III	1200	1150	1100	180	K	P0104 Digital	Wire Khantal	3
820010012	HCV100/12	350	400	700	830	770	1100	100	15	220 III 380 III	1200	1150	1100	220	K	P0104 Digital	Wire Khantal	3
820006412	HCV64/12	400	400	400	2100	850	1000	64	15	220 III 380 III	1200	1150	1100	280	K	P0104 Digital	Wire Khantal	5
820012512	HCV125/12	500	500	500	2150	1000	1200	125	18	220 III 380 III	1200	1150	1100	400	K	P0104 Digital	Wire Khantal	5
820016012	HCV160/12	400	400	1000	2100	900	1600	160	18	380 III	1200	1150	1100	500	K	P0104 Digital	Wire Khantal	5
820021612	HCV216/12	600	600	600	2100	900	1300	216	18	380 III	1200	1150	1100	600	K	P0104 Digital	Wire Khantal	5
820025012	HCV250/12	500	500	1000	2150	1100	1600	250	20	380 III	1200	1150	1100	650	K	P0104 Digital	Wire Khantal	5
820029012	HCV290/12	600	600	800	2100	1150	1500	290	20	380 III	1200	1150	1100	700	K	P0104 Digital	Wire Khantal	5
820030012	HCV300/12	800	600	700	2100	1200	1400	300	20	380 III	1200	1150	1100	790	K	P0104 Digital	Wire Khantal	5
820036012	HCV360/12	600	600	1000	2100	1100	1700	360	20	380 III	1200	1150	1100	800	K	P0104 Digital	Wire Khantal	5
820040012	HCV400/12	800	700	700	2100	1250	1400	400	20	380 III	1200	1150	1100	850	K	P0104 Digital	Wire Khantal	5
820050012	HCV500/12	600	700	1200	2100	1400	1800	500	40	380 III	1200	1150	1100	900	K	P0104 Digital	Wire Khantal	5
820064012	HCV640/12	1000	800	800	2100	1350	1500	640	50	380 III	1200	1150	1100	990	K	P0104 Digital	Wire Khantal	5
820099912	HCV1000/12	1000	1000	1000	1600	1370	1700	1000	50	380 III	1200	1150	1100	1050	K	P0104 Digital	Wire Khantal	5



HCV 56

