

# INERT GAS RETORT FURNACES HCV AND PR CCH SERIES

HERMETIC SEAL REFRIGERATED BY WATER (INCONEL REFRACTORY STEEL CHAMBER)

# To avoid oxidation during the process · Up to 1150°C

## STANDARD FEATURES

- CE manufactured
- Maximum operating temperature: 1150°C
- 24/7 continuous work capability
- 3 heated zones with KANTHAL
- Hermetic seal
- Inconel refractory steel chamber refrigerated by water
- 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
- Works under inert atmosphere
- Thermocouple type K
- Spare parts easily replaceable by end user

# **FURNACE CONTROL**

- 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**

- Ramp programmers up to 64 segments
- Optional:
- Eurotherm EPC Series + Data logger Itools sofware by Ethernet
- Eurotherm Nanodac Series +Data logger and Itools sofware by Ethernet according AMS2750E and 21CFR Part 11

# **SAFETY SHUT-OFF**

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

#### **ACCESSORIES**

- Interchangeable temperature-uniform trays with rim
- Incoloy stainless steel tray
- Safety alarm Class II. Over-temperature protection
- Flow meter box (Gas supply system)
- O2 sensor
- Chillers
- and more, ask for our full assortment







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## **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.
- · Refractory steel chamber and door, hermetically sealed thanks to NBR sealing gasket and water-cooled
- Suitable for working in oxygen-free processes to avoid oxidation.
- Heat treatment, Automotive, Aerospace processes

## **BASIC ACCESSORIES**

- Gas supply system: Inert atmosphere control equipment (non-reactive gases), supporting nitrogen, argon and forming gas 10%.
- O2 sensor: Oxygen sensor, sensor and controller set capable of measuring the oxygen inside, a green light turns on when it is below 100ppm.
- Chiller: Cooling equipment to protect the furnace sealing gasket

#### **SPECIFICATIONS**

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

	Inner o	dimens	ions	Outer dimensions						Maximum	Maximum	Maximum	Net			
Reference		mm		mm			Volume	Power	Voltage	Temperature	Temperature	Temperature	Weight	Termo-	Control	Heating
	Н	W	D	Н	W	D	Liters	Kw	V	° C	° C on work	Continuous	Kgr	couple	Туре	Elements
											limited					
12PR300	100	150	250	650	480	650	4	5,5	220 III	1200	1150	1100	150	K	P0104	Wire
									380 III						Digital	Khantal
12PR400	150	200	350	750	600	900	11	8,8	220 III	1200	1150	1100	180	К	P0104	Wire
									380 III						Digital	Khantal
12PR450	200	250	400	700	650	850	20	15	220 III	1200	1150	1100	220	K	P0104	Wire
									380 III						Digital	Khantal
12PR500	250	300	350	750	700	800	27	15	220 III	1200	1150	1100	280	K	P0104	Wire
									380 III						Digital	Khantal
HCV56	300	350	350	700	750	850	37	12	380 III	1200	1150	1100	400	K	P0104	Wire
															Digital	Khantal
HCV 64	350	350	350	2100	1100	1000	45	16	380 III	1200	1150	1100	500	K	P0104	Wire
															Digital	Khantal
HCV 125	450	450	450	2000	1100	1200	91	18	380 III	1200	1150	1100	600	K	P0104	Wire
															Digital	Khantal
HCV 216	550	550	550	2150	1200	1300	166	30	380 III	1200	1150	1100	650	K	P0104	Wire
	$oxed{oxed}$			$oxed{oxed}$											Digital	Khantal
HCV 290	550	650	650	2100	1300	1450	232	25-30	380 III	1200	1150	1100	700	К	P0104	Wire
															Digital	Khantal

External dimensions vary when furnace is equipped with additional equipment. Dimensions on request

