

BOTTOM LOADING FURNACES

HOB33 CCH SERIES

HERMETIC SEAL REFRIGERATED BY WATER (HIGH ALUMINA INVERTED CRUCIBLE)

To avoid oxidation during the process • Up to 1900°C

STANDARD FEATURES

- CE manufactured
- Maximum operating temperature: from 1600°C to 1900°C
- From 3 to 12 litres (Custom designs available)
- Bottom loading furnace using an electrically operated elevator hearth
- Vacuum and inert atmosphere to avoid oxidation during processing
- Fast heating
- 24/7 continuous work capability
- Heated by Kanthal Super 1800 and 1900
- Hermitic seal refrigerated by water
- Easy loading
- Double insulation includes air chamber
- Outer case in painted metal sheet (inox optional)
- High Alumina Inverted Crucible

FURNACE CONTROLS

- Side control panel
- Eurotherm thyristor equipment
- General safety switch
- General safety contactor
- **PAD Digital control**
 - PID parameters
 - Non-volatile memory
 - Microprocessor-based temperature controls
 - Alarm

CONTROL OPTIONS

- Programmers up to 64 segments
- Eurotherm EPC Series 10 progs / 25 segments - Data logger and programmer communication tools by Ethernet (Optional)
- Eurotherm Nanodac - Data logger and programmer communication tools by Ethernet according AMS2750E and 21CFR Part 11 (Optional)

SAFETY SHUT-OFF

- Thermocouple break shut-off
- Turns off upon lowering the base

ACCESSORIES

- High Alumina Inverted Crucible
- Flow meter box (Gas supply system)
- High Alumina trays and crucibles
- Safety alarm Class II. Over-temperature protection
- Inlet gas entry
- Chillers
- Leybold vacuum equipment x10-2
- and more, ask for our full assortment!



Made in Barcelona, Spain
Since 1946

Hobersal
FURNACES & OVENS TECHNOLOGY

Sintering applications
3D additive
3D manufacturing



HOB33-12/18 CCH
Up to 1800°C



Vacuum and controlled atmosphere bottom loading furnace Hobersal HOB33 CCH Series



BOTTOM LOADING FURNACES

HOB33 CCH SERIES

SUITABLE FOR:

3D CERAMIC AND METAL SINTERING, DENTAL, RESEARCH, ALUMINA SINTERING

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CHARACTERISTICS

- HOB33 bottom-loading ovens use an electrically operated hearth lifter which, when raised into the furnace chamber, lifts the load into the heated zone.
- Vacuum and controlled atmosphere system
 - _ Gas-tight retort with gas injection through the furnace
 - _ Alumina 99,7% retort for protection of the heating elements and to avoid the contamination during the Controlled atmosphere and vacuum process.
 - _ Refractory steel rings refrigerated by water and silicon joints included
 - _ Gas inlet and outlet + Vacuum entry KF25
 - _ Max. Vacuum x10-3.

ACCESSORIES

- Gas supply system: Inert atmosphere control equipment (non-reactive gases), supporting nitrogen, argon and forming gas 10%.
- Vacuum system: Leybold Trivac series pump up to x 10 -2 +Vacuum meter + Complete set of accessories
- Chiller: Cooling equipment to protect the furnace sealing gasket

SPECIFICATIONS

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

Models	Inner dimensions(mm)		Volume (L)
	Diameter	High	
HOB33-3	125	150	3,5
HOB33-6	200	200	6
HOB33-12	250	250	12
HOB33-21	300	300	21

ACCESSORIES



Gas Supply systems.
Flow meter system 1 (Automatic)



Leybold vacuum equipment up to x10-2



Chiller