



General Brochure 2022



Furnaces and Ovens manufacturers from Barcelona, Spain since 1946

HOBERSAL

FURNACES & OVENS TECHNOLOGY

30°C - 2000°C · 1L - 2000L

www.fornshobersal.com





Providing heating solutions since 1946 75th Anniversary

Manufactured in
Barcelona
since 1946 · 70 years

- **CE** Manufacturing
- 2 years warranty
- After-sales service
- Calibration certificates
- Maintenance contracts

Located in Caldes de Montbui, Barcelona, in the Catalonia region of Spain, HOBERSAL was founded in 1946, specializing in the manufacture of muffle and tube furnaces up to 2000°C, vacuum, melting, ashing, retort furnaces, ovens up to 500°C, customized furnaces, heating plates, accessories and spare parts.

The company is now the leading furnace manufacturer in Spain and other countries.

HOBERSAL realized early on that the secret of manufacturing furnaces is to use quality materials. Throughout the company's history, a network of distributors has been established on over 40 countries, selected for their laboratory and industries' knowledge and ability to provide technical assistance to their customers.

This catalogue offers a comprehensive range of quality equipment. Always innovating, we will continue to offer the latest technology backed by our service and technical assistance.



HOBERSAL

FURNACES & OVENS TECHNOLOGY

APPLICATIONS

Laboratory



Industry



Aerospace



Research



Automotive



Heat treatment



Advanced Ceramic



Metal /Ceramic sintering



Jewelry



Dental



Arts & Crafts



Incineration



- Economy chamber furnace drop down & side swing door 1000°C - 1200°C
- Muffle furnaces vertical parallel lift door 1000°C - 1200°C - 1300°C
- Muffle furnaces pantograph side door 1000°C - 1200°C - 1300°C
- Silicon Carbide heated furnaces 1400°C - 1500°C - 1600°C
- High temperature chamber furnaces 1600°C - 1700°C - 1800°C - 1900°C
- Bottom loading furnaces
- Ashing and burn furnaces
- Horizontal tube furnaces 1200°C - 1800°C
- Vertical tube furnaces 1200°C - 1800°C
- Split tube furnaces (vertical - horizontal)
- Three zone tube furnaces
- Vacuum tube and muffle furnaces
- Rotating tube furnaces
- Portable thermocouple calibration furnaces
- Dewaxing furnaces
- Cupellation furnaces - Bogie heat furnaces
- Vacuum muffle furnaces
- Continuous furnaces
- Gradient furnaces
- Universal tube furnaces with stand for horizontal or vertical operation
- Ovens to 300°C - 500°C - 600°C - 800°C
- Accessories in a broad assortment



MF Series
From 3L to 30 litres
1000°C-1200°C - 1300°C -1400°C
Vertical lift door
4 heated zones



PR Series
From 3L to 30 litres
1000°C-1200°C - 1300°C -1400°C
Vertical lift door
4 heated zones



GB Series
Economic chamber furnace
From 5L-7L-10 litres
1200°C
Side door
2 heated zones



HD Series
Economic chamber furnace
From 5L-7L-10 litres
1200°C
Side door
2 heated zones



JM Series
High Temp. Muffle furnace
From 3L to 30 litres
Temperature 1600°C
SiC Kanthal elements



XG Series
High Temp. Muffle furnace
From 3L to 30 litres
Temperature 1650°C to 1900°C
Vertical lift door
MoSi2 Superkanthal elements

Accessories

- _ Gas inlet
- _ Forced extraction chimney
- _ Forced smoke ventilation (Cooling system)
- _ OTP (Over Temperature Controller)
- _ Ceramic and refractory plates and rack
- _ Heat resistant gloves 900°C
- _ Crucible tongs
- _ Crucibles
- _ SiC and Ceramic chamber
- _ and more, ask for our full assortment



ST11 - ST100
Universal tube furnaces
 Max. Temperature 1200°C
 Heated length: 200 to 600mm
 Diameters: 20mm to 120mm



ST SP series
Split tube furnaces
 Max. Temperature 1200°C
 Heated length: 200 to 600mm
 Diameters: 20mm to 225mm



TR series
Vertical split tube furnaces
 Max. Temperature 1300°C
 Heated length: 50 to 2000mm
 Diameters: 20mm to 225mm



ST-VO series (Vertical)
Vertical / horizontal tube furnaces
 Temperature 1200°C
 Heated length: 200 to 600mm
 Diameters: 20mm to 120mm



ST16SC series
High temperature furnaces
 Max. Temperature 1600°C
 Heated length: 200 to 600mm
 SiC Kanthal elements
 Diameters: 20mm to 225mm



ST16 / 18 / 19 series
High temperature tube furnaces
 Temperature 1650°C to 1900
 Heated length: 200 to 600mm
 MoSi2 Superkanthal elements
 Diameters: 20mm to 225mm



ST VC series (Vertical)
High temperature tube furnaces
 Temperature 1650°C to 1900°C
 Heated length: 200 to 600mm
 MoSi2 Superkanthal elements
 Diameters: 20mm to 225mm

Note:
 _ Heated zones can be 1,2 or 3 (independent) each controller control each zone to get better homogeneity
 _ Customized options under request
 _ OTP (Over temperature protection)



ACCESSORIES



SS high vacuum end seals
(water refrigerated) high
density, gas inlet and outlet,
vacuum entry KF(x10-5) and
thermocouple slot



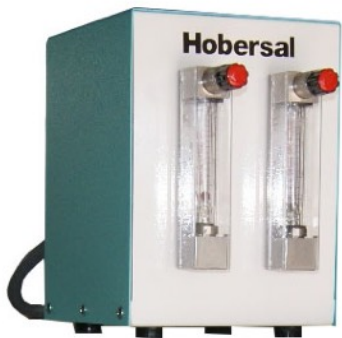
Vacuum kit up to x10-2 +
vacuum meter



Vacuum kit up to x10-5
(vacuum pump + turbo
station + vacuum meter)



Gas supply system 1
Automatic flow meters



Gas supply system 2
Manual flow meters



Quartz tubes



Alumina tubes 1400°C to 1800°C



Ceramic plugs

TUBE FURNACES

NEW

NEW ARRIVALS 2022

New tube furnace range
Same quality, new image



Horizontal and Split tube furnace
Temperatures 1200°C to 1500°C



Horizontal and Vertical Split
tube furnace
Temperatures 1200°C to



Horizontal and Vertical Split
tube furnace
Temperatures 1200°C to 1500°C



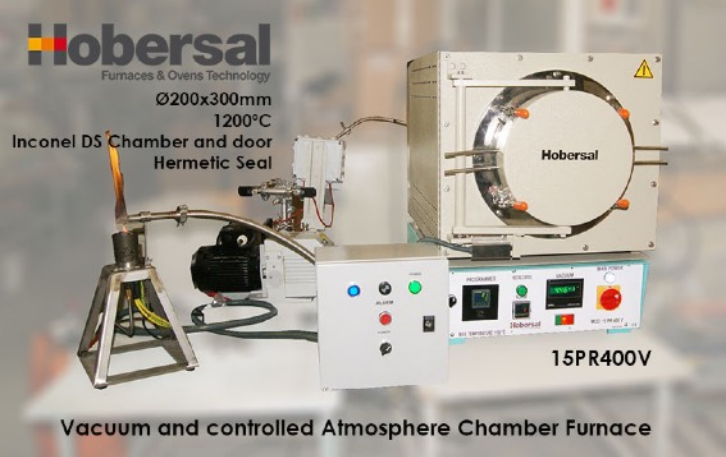
Universal tube furnace
Temperatures 1200°C to 1500°C

Economic high temp. Muffle furnaces up to 1600°C



Side door and drop down door
Volumes: 1, 3, 6 litres
Heating elements: Kanthal SiC
Ramp programmer up to 64 steps
Lightweight and compact
Affordable prices
Ceramic fiber insulation





PR/V SERIES CONTROLLED ATMOSPHERE/VACUUM SYSTEM OPTIONS

EV-7 Automatic Programmable & Controlled Atmosphere/Vacuum System

CHARACTERISTICS:

- 1. Electronic-valve equipment to control gas atmosphere or/and vacuum.
- 2. Eurotherm programmable controller equipment (10 programs/25 segments) with alarm.
- 3. Eurotherm programmable controller and data logger software.
- 4. Ethernet cable.
- 5. Portable computer optional (please, consult).

This system enables complete automatic electronic programming and controlling of the furnace chamber's atmosphere, with automatic gas introduction, replacement and/or extraction.

GAS REACTION SATETY SYSTEM

CHARACTERISTICS

- 1. Reaction gas safety equipment 100% Hydrogen
- 2. Active gas combustion flame equipment
- 3. Controller equipment with electro valves, pilot, indicators, manual option switches
- 4. Complete set of accessories



INDUSTRIAL FURNACES



CRN Series
High Temp. Muffle furnace
From 42L to 512 litres
Temperature 1650°C to 1900°C
Pantograph side door



HCV
Industrial series
From 56 to 2.000 litres
1200°C to 1400°C



HB Series (static)
Tempering and annealing
Fast cooling
1150°C



ATF Series (tilting)
Tempering and annealing
Fast cooling
1150°C



HCV CCH
Controlled atmosphere
From 3L to 1200 litres
Temperature 1150°C



HBC
Belt furnaces (Soldering)
Temperature 1150°C

Accessories

- _ Gas inlet
- _ Forced extraction chimney
- _ Forced smoke ventilation (Cooling system)
- _ OTP (Over Temperature Controller)
- _ Ceramic and refractory plates and rack
- _ Heat resistant gloves 900°C
- _ Crucible tongs
- _ Crucibles
- _ SiC and Ceramic chamber
- _ and more, ask for our full assortment

OTHER APPLICATIONS



HOB series
Bottom loading furnace
 Max. Temperature 1900°C
 Controlled atmosphere



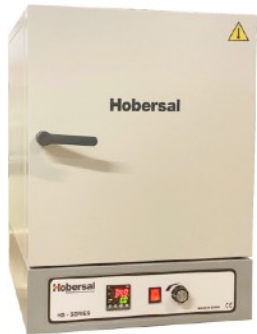
PR - C Series
Cupellation furnaces
 Max. Temperature 1200°C
 Volumes: 3L to 512L



PR + Annealing boxes
Cupellation furnaces
 Max. Temperature 1200°C
 Volumes: 3L to 512L
 Controlled atmosphere



MF-TGA
Thermo Gravimetric Analysis
 Max. Temperature 1200°C
 Volumes: 3L to 30 L



HS - CF
Laboratory Oven
 Max. Temperature 300°C
 Volumes: 20L to 720 litres



EHT
Industrial Oven
 Max. Temperature 500°C
 Volumes: 13L to 1000 litres



Crucible furnaces
 Max. Temperature 1900°C



Incinerators
 Max. Temperature 1300°C
 Gas fired / Electric



Pottery
 1150°C - 1260°C
 Gas fired / Electric

CUSTOMIZED FURNACES



HCV AC Series
Air Forced Circulation furnace
 Max. Temperature 1000°C
 According AMS2750E



HCV42/13 3CX
Heat treatment Furnace
 Max. Temperature 1300°C



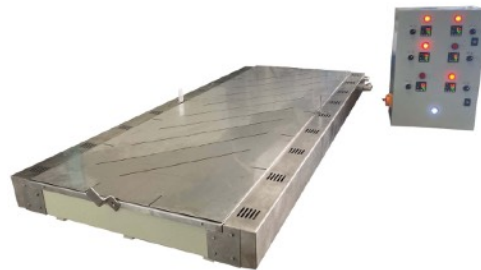
ST161151003Z
Tube furnace
 High vacuum x 10⁻⁵
 1600°C - 3 heated zones



Orly Series
Orly Series
SS muffle furnaces
 Max. Temperature 1200°C



HCVSeries
Pneumatic lift door
 Max. Temperature 1400°C
 Volumes: 54l to 2.000L



Industrial Hot plates
6 heated zones
 Max. Temperature 600°C



TR Customized
According reactor dimensions
 Max. Temperature 1150°C



Pharma Oven HS270CF 2D
Double door
 Max. Temperature 300°C
 Clean room
 According 21CFR

CONTROLLERS



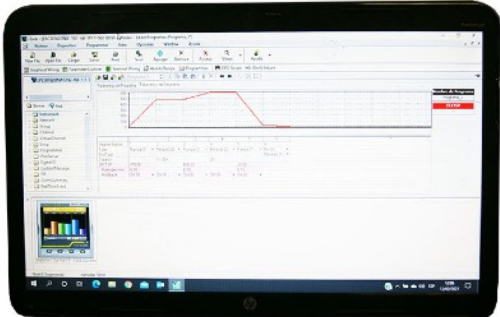
Eurotherm Nanodac
 Programmer/Recorder
 100 progs - 25 segments
 According AMS2750 and 21CFR
 Ethernet connection
 USB



Eurotherm EPC3016
 10 progs - 25 segments
 Ethernet connection



Eurotherm EPC3004
 10 progs - 25 segments
 Suitable for Vacuum and controlled atmosphere furnaces
 Ethernet connection



Eurotherm Itools Software
 100% control from by PC
 Programable controller and data logger
 Curves downloadable in CSV Excel



Fuji PXF-4
 Ramp programmer
 Up to 64 segments



Fuji PXE-4
 Digital controller
 Suitable for OTP

TEMPERATURE CONTROL

Our furnaces and ovens are equipped with a range of high quality PID temperature controllers that provide precise temperature control. Closely follows programmed set point temperatures and ramp rates





Cooling fan systems



Graphite boxes



Heat resistant gloves 900°C



Crucible tongs 450mm



Forced exhaust ventilation and chimneys



Ceramic and steel racks and plates



Aluminised Equipment



Cooling tables



All kind of crucibles



All kind of working tubes



Vacuum and controlled atmosphere SS flanges x10-5



Heating elements Kanthal MoSi2 and Sic



Vacuum kits x10-2 and x10-5



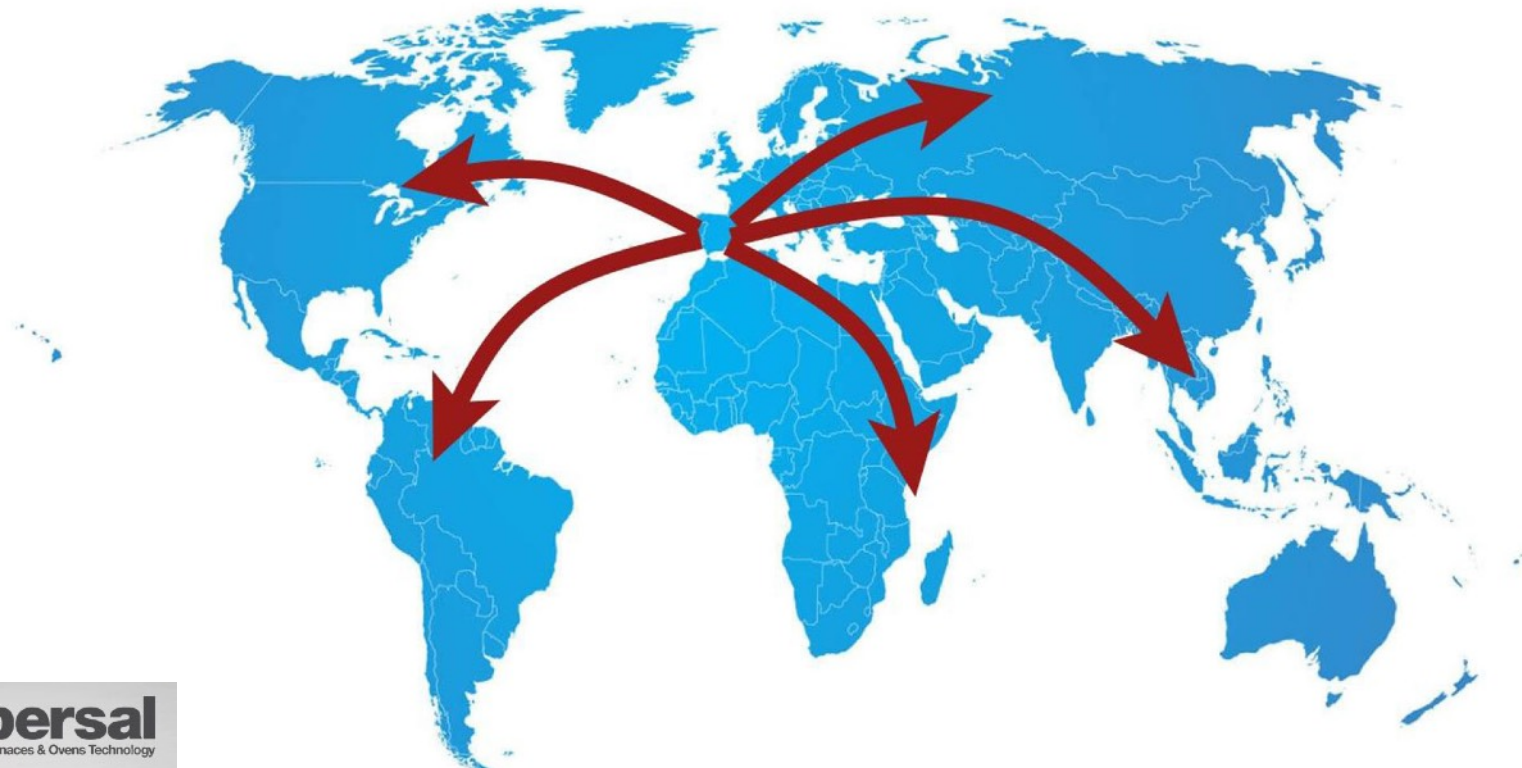
Annealing boxes




All kind of thermocouples

and more, ask for our full assortment!!!





Manufactured in Barcelona
since 1946 · 75 years

-  Manufacturing
- 2 years warranty
- After-sales service
- Calibration certificates
- Maintenance contracts
- Training

 Hobersal Furnaces & Ovens Technology

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