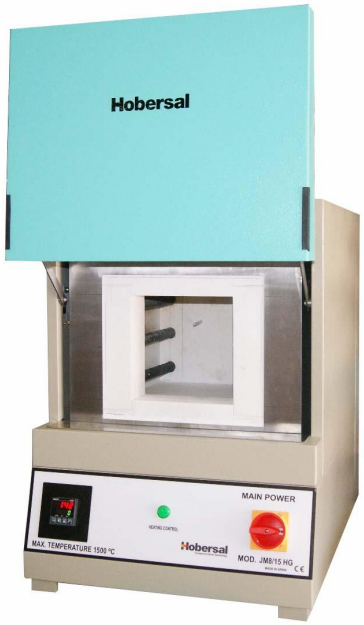
JM SERIES Cupellation Series

VERTICAL PARALLEL LIFT DOOR · REFINED DESIGN · CERAMIC FIBER INSULATION (1600, 300/400)

High Quality 24/7 Continuos-T° Muffle Furnaces · 1400°C – 1500°C – 1600ºC

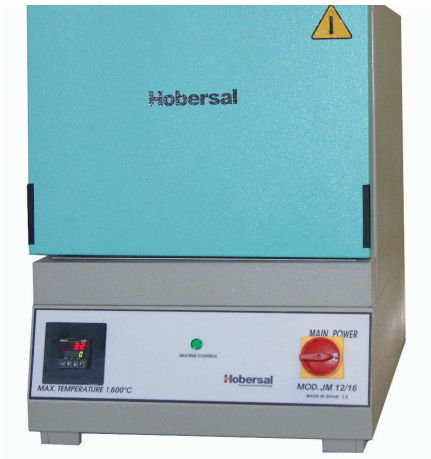
STANDARD FEATURES

- CE manufactured
- Maximum operating temperature: 1400°C – 1500°C – 1600°C
- Rapid heating
- Compact and lightweight
- 24/7 continuous work capability
- Heating elements KANTHAL SiC
- Low thermal mass insulation
- Built with low density 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 S
- Spare parts easily replaceable by end user



FURNACE CONTROLS

- Lower front 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

Silicon Carbide chamber (SiC)

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
- and more, ask for our full assortment!

Forced Smoke Extraction Chimney

CE

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CHARACTERISTICS

- Modern design 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.
- Door system adjusted on the furnace frame by pressure, allowing for complete sealing. Electrically and thermally insulated door handle.

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 fastat 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

1600ºC Specifications Data-sheet

Code		270000316	270000616	270000816	270001016	270001216	270001916	270003016	270003816
Reference		JM3/16	JM6/16	JM8/16	JM10/16	JM12/16	JM19/16	JM30/16	JM38/16
Inner dimensions	High	120	150	170	200	200	250	250	250
	Wide	120	150	170	200	200	250	300	300
	Deep	250	250	250	250	300	300	400	500
Outer dimensions	High	580	660	680	710	710	760	810	810
	Wide	520	550	570	600	600	690	800	800
	Deep	675	675	675	675	675	745	875	975
Uniform heating area ± 5ºC	High	80	90	100	120	120	150	150	150
	Wide	80	90	100	120	120	150	170	170
	Deep	100	100	100	100	130	180	200	250
Volume liters		3,6	6	8	10	12	19	30	38
Max. Kw.		6	8	8	10	10	12	14	15
Holding Power Kw.		2,5	3	3,5	4	5	5	6	6
Voltage V		220 II	220 II	220 II	220 II	220 II	220 II	220 II 380 III	220 II 380 III
Maximum temperature ºC		1600ºC	1600ºC	1600ºC	1600ºC	1600ºC	1600ºC	1600ºC	1600ºC
Maximum temperature ºC on work limited		1550ºC	1550ºC	1550ºC	1550ºC	1550ºC	1550ºC	1550ºC	1550ºC
Maximum temperature ºC continuous		1500ºC	1500ºC	1500ºC	1550ºC	1550ºC	1500ºC	1500ºC	1500ºC
Thermocouple		S	S	S	S	S	S	S	S
Net Weight Kgr.		90	100	105	120	120	140	160	175
Control type		P0415 Digital	P0415 Digital	P0415 Digital	P0415 Digital	P0415 Digital	P0415 Digital	P0415 Digital	P0415 Digital
Heating elements		Silicon Carbide	Silicon Carbide	Silicon Carbide	Silicon Carbide	Silicon Carbide	Silicon Carbide	Silicon Carbide	Silicon Carbide
Heat up time to 100ºC below max. Temp. Minutes		55	55	60	60	60	60	85	90

Note: Please ask for the 1400ºC and 1500ºC Data sheets