



[J] INDEX OF CONTENTS HEATING - COOLING

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TRADEMARKS:





JBB - Incubators



Incubator series 636 PLUS



- 1| Made of furnace painted steel, external metal structure covered with epoxy and interior of stainless steel
- 2| Door with double glazed window for external control without temperature variations in the inner chamber
- 3| Air circulation system by natural convection
- 4| Supplied with two height adjustable grid trays

Code	JBB005	JBB001	JBB002	JBB003	JBB004
Capacity	18 L	30 L	45 L	65 L	125 L
T range	RT + 5-80°C				
Resolution	1°C (adjustable at 0.1°C)*				
T fluctuation	± 0.5 °C				
Homogeneity	2%				
Consumption	0.3 Kw	0.3 Kw	0.3 Kw	0.4 Kw	0.5 Kw
Aprox. dimensions (cm)					
External	44x38x55	46x51x69	50x55x73	55x55x84	64x68x91
Internal	26x26x26	31x31x31	35x35x35	40x36x45	50x45x55
Aprox. weight	20 Kg	39 Kg	42 Kg	53 Kg	58 Kg

* consult



JBD - Drying



Drying ovens natural convection, series 631 PLUS



- 1| External metal structure covered with epoxy and interior of stainless steel. Adjustable legs to facilitate installation and levelling of the oven
- 2| 180° opening door with double thermic safety glass window for external control, without temperature variations in the inner chamber
- 3| Air circulation system by natural convection (by density changes)
- 4| Supplied with two height adjustable grid trays

Code	JBD009	JBD001	JBD002	JBD003	JBD004
Capacity	18 L	30 L	45 L	65 L	125 L
T range	~80 - 250°C				
Resolution	1°C (adjustable at 0.1°C)*				
T fluctuation	± 1,0°C				
Homogeneity	3%				
Consumption	0.6 kW	0.8 Kw	1.0 Kw	1.5Kw	2.3Kw
Aprox. dimensions cm					
External	44x38x55	46x51x69	50x55x73	55x55x84	64x68x91
Internal	26x26x26	31x31x31	35x35x35	40x36x45	50x45x55
Aprox. weight	20 Kg	39 Kg	42 Kg	53 Kg	58 Kg

* consult

Drying ovens forced air, series 632 PLUS



- 1| Same as drying oven series 631 PLUS
- 2| Forced air circulation system with switch air circulation

Code	JBD005	JBD006	JBD007	JBD008
Capacity	30 L	45 L	65 L	125 L
T range	~80 - 250°C			
Resolution	1°C (adjustable at 0.1°C)*			
T fluctuation	± 1,0°C			
Homogeneity	2%			
Consumption	0.8 Kw	1.0 Kw	1.5Kw	2.3Kw
Aprox. dimensions cm				
External	46x51x69	50x55x73	55x55x84	64x68x91
Internal	31x31x31	35x35x35	40x36x45	50x45x55
Aprox. weight	39 Kg	42 Kg	53 Kg	58 Kg

JBG - Incubators-drying, accessories

CHART 1: 'accessories incubators and drying ovens'



Code	Description	Model			
		30L	45L	65L	125L
JBG001	Tray 28x28 cm	i			
JBG002	Tray 32x32 cm		i		
JBG003	Tray 37x42 cm			i	
JBG004	Tray 47x42 cm				i
JBG005	Fastening guide	i			
JBG006	Fastening guide		i	i	
JBG007	Fastening guide				i

i Accessory **included** with the indicated equipment = Accessory **compatible** with the indicated equipment

JDB - Water-oil analogical

For education RS 3.5

- 1| Polycarbonate tank, lacquered metal body and stainless steel heating device
- 2| Adjustable temperature, it has a safety thermostat
- 3| Rack SS (AISI 316) included: 20 tubesx Ø 16 mm.

Code	JDB001
Model	RS 3.5
Volume	3.5 Liters
Temperature	Environment +5°C > +90°C
Temperature regulation	Analogical
Operation indication	Yes
Consumption	350 W



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JDD - Water-oil digital



Digital water bath

- 1| Inside chamber designed in stainless steel, made of a single piece free of welds, assembled to an external metallic structure covered with epoxy
- 2| Acoustic signal at the end of the selected time, in continuous mode operation or programmed periods
- 3| Acoustic signal that indicates overheating of the bath (> 5°C of the selected temperature)
- 4| Electric draining pump with drainpipe (except model 601/3)
- 5| Removable rack with holes, lid and reduction rings included

Code	JDD001	JDD002	JDD003	JDD004
Modelo	601/3	601/5	601/12	601/19
Capacity	2,5 L	5 L	12 L	19 L
T range	RT +5°C – 100°C			
Resolution	1 °C			
Timer	1' - 9 h 59'			
Holes	1	2	4	6
Aprox. useful dimensions(cm)	15x13x10	30x15x10	32x30x10	50x30x10
Aprox. weight	4 kg	7 kg	10 kg	7 Kg





JDD - Water-oil digital



Digital oil baths



- 1 | Acoustic signal at the end of the selected time, in continuous mode operation or programmed periods
- 2 | Acoustic signal that indicates overheating of the bath ($>5^{\circ}\text{C}$ of the selected temperature)
- 3 | Removable rack with holes. Lid and reduction rings included

Code	JDD005	JDD006
Modelo	602/3	602/5
Capacity	3 L	5 L
Temperature range	RT+5°C – 200°C	RT+5°C – 200°C
Resolution	1°C	1°C
Timer	1'- 9 h 59'	1'- 9 h 59'
Holes	1	2
Aprox. useful dimensions	17x17x7 cm	32x17x7 cm
Aprox. weight	4 kg	7 kg



JDG - Water-oil accessories



Rings for waterbad



- 1 | High resistance to acids and alkalines
- 2 | Thermal conductivity 1.3

Code	Density	Maximum Ø
JDG001	2,4g/cm ³	145mm



JDS - Thermoblock



Mini 'T'



- 1 | Compact design
- 2 | Simultaneous display of actual and set time and temperature in the LCD screen
- 3 | Several aluminum blocks available (not included) to cover a wide range of tubes (from 0.2 mL to 50 mL) and other type of containers

**NOTE: Blocks not included, consult section:
JDV-Thermoblocks accessories**

Code	JDS001
Temperature range	RT+5- 80°C
Temperature control precision	0,5°C
Screen resolution	0,1°C
Heating time (20°C to max. T)	<12 min
Timer	0-999 seg o 0-999 min
Aprox. dimensions	110 x 150 x 80 mm
Aprox. weight	0,5 Kg

► JDS - Thermoblock

► Modelo 603/3

- 1 | Simultaneous display of actual and set time and temperature in the LED screen
- 2 | Several blocks available (not included) to cover a wide range of tubes (from 0.2 mL to 1.5 mL)

NOTE: Blocks not included, consult section:
JDV-Thermoblocks accessories



Code	JDS002
Temperature range	RT+5- 100°C
Temperature control precision	±0,5°C
Screen resolution	0,1°C
Heating time (20°C to max. T)	<25 min
Timer	1 min – 99h 59min
Aprox. dimensions	225 x 160 x 197 mm
Aprox. weight	3 Kg

► Model 603/10 and 603/20

- 1 | Simultaneous display of actual and set time and temperature in the LCD screen
- 2 | Several blocks available (not included) to cover a wide range of tubes (from 0.2 mL to 2 mL)

NOTE: Blocks not included, consult section:
JDV-Thermoblocks accessories



Code	JDS003	JDS004
Temperature range	RT+5 a 100°C	-10°C a 100°C
Temperature control precision	± 0,5 °C	± 0,5 °C
Screen resolution	0,1 °C	0,1 °C
Heating time (20°C to max. T)	<12 min	<20 min
Cooling time (20°C to -10°C)	<30 min	
Timer	1 min – 99h 59min	
Aprox. dimensions	300 x 210 x 180 mm	
Aprox. weight	2,5 Kg	4,6 Kg

► Thermoshaker, model 603/100

- 1 | Simultaneous display of actual and set time, temperature and speed in the LCD screen
- 2 | It can heat and shake simultaneously or work in independent mode
- 3 | Several blocks available (not included) to cover a wide range of tubes (from 0.2 mL to 2 mL)

NOTE: Blocks not included, consult section:
JDV-Thermoblocks accessories



Code	JDS005
Temperature range	RT +5 °C - 100°C
Temperature control precision	±0,5°C
Screen resolution	0,1°C
Heating time (20°C to max. T)	<20 min
Shaking speed	200-1500 rpm
Shaking orbit	2 mm
Timer	1 min – 99h 59min
Aprox. dimensions	354 x 240 x 170 mm
Aprox. weight	8,5 Kg



JDS - Thermoblock



► Thermoshaker for microtiter plates



- 1 | Simultaneous display of actual and set time, temperature and speed in the LCD screen
- 2 | It can heat and shake simultaneously or work in independent mode
- 3 | Capacity for 4 standard plates of 96 wells

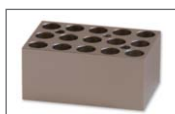
Code	JDS006
Temperature range	RT +5- 60°C
Temperature control precision	±0,5°C
Screen resolution	0,1°C
Heating time (20°C to max. T)	<25 min
Shaking speed	100-1200 rpm
Shaking orbit	2 mm
Timer	1 min – 99h 59min
Aprox. dimensions	385 x 395 x 190 mm
Aprox. weight	9,5 Kg



JDV - Thermoblocks, accessories



► CHART 2: 'accessories thermoblocks'



Code - JDV003



Code - JDV005



Code - JDV007



Code - JDV008-011



Code - JDV014



Code - JDV016

Code	Capacity	Model				
		Mini 'T'	603/3	603/10	603/20	603/100
JDV001	40 tubes of 0,2 ml	<input type="checkbox"/>				
JDV002	24 tubes of 0,5 ml	<input type="checkbox"/>				
JDV003	15 tubes of 1,5 ml	<input type="checkbox"/>				
JDV004	15 tubes of 2 ml	<input type="checkbox"/>				
JDV005	8 cells of 12,5x12,5 mm	<input type="checkbox"/>				
JDV006	4 tubes of 15 ml	<input type="checkbox"/>				
JDV007	2 tubes of 50 ml	<input type="checkbox"/>				

Code	Capacity	Model				
		Mini 'T'	603/3	603/10	603/20	603/100
JDV008	96 microtubes of 0,2 ml			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JDV009	54 microtubes of 0,5 ml			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JDV010	35 microtubes of 1,5 ml			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JDV011	35 microtubes of 2 ml			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Code	Capacity	Model				
		Mini 'T'	603/3	603/10	603/20	603/100
JDV012	96 tubes of 0,2 mL		<input type="checkbox"/>			
JDV013	29 tubes of 0,5 mL		<input type="checkbox"/>			
	32 tubes of 1,5 mL		<input type="checkbox"/>			
JDV014	61 tubes of 0,5 mL		<input type="checkbox"/>			
JDV015	41 tubes of 1,5 mL		<input type="checkbox"/>			
JDV016	28 tubes of 12 mm Ø		<input type="checkbox"/>			

= Accessory **included** with the indicated equipment = Accessory **compatible** with the indicated equipment

▶ JGB - With stirring

▶ Analogical with stirring, series 656

- 1 | External structure in painted steel and inside thermal isolation with rock wool, they have heating elements in nickelchrome
- 2 | Maximum stirring speed: 1400 rpm
- 3 | Maximum T: 370°C
- 4 | Supplied with rod, support and stirring magnet

Code	Capacity	Internal Ø	Depth
JGB001	100 mL	70 mm	45 mm
JGB002	250 mL	90 mm	55 mm
JGB003	500 mL	105 mm	60 mm
JGB004	1000 mL	140 mm	85 mm



▶ Digital with stirring, series 658

- 1 | External structure in painted steel and inside thermal isolation with rock wool, they have heating elements in nickelchrome
- 2 | Analogical speed adjustment through potentiometer and digital temperature adjustment with LED screen
- 3 | Maximum stirring speed: 1400 rpm
- 4 | Maximum T: 370°C
- 5 | Supplied with rod, support and stirring magnet

Code	Capacity	Internal Ø	Depth
JGB005	250 mL	90 mm	55 mm
JGB006	500 mL	105 mm	60 mm
JGB007	1000 mL	140 mm	85 mm
JGB008	2000 mL	180 mm	105 mm



▶ JGD - Without stirring

▶ Analogical, series 655

- 1 | External structure in painted steel and inside thermal isolation with rock wool, they have heating elements in nickelchrome
- 2 | It has a device to hold rods
- 3 | Maximum T: 370°C

Code	Capacity	Internal Ø	Depth
JGD001	50 mL	55 mm	40 mm
JGD002	100 mL	70 mm	45 mm
JGD003	250 mL	90 mm	55 mm
JGD004	500 mL	105 mm	60 mm
JGD005	1000 mL	140 mm	85 mm
JGD006	2000 mL	180 mm	105 mm
JGD007	3000 mL	210 mm	115 mm
JGD008	5000 mL	240 mm	140 mm



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