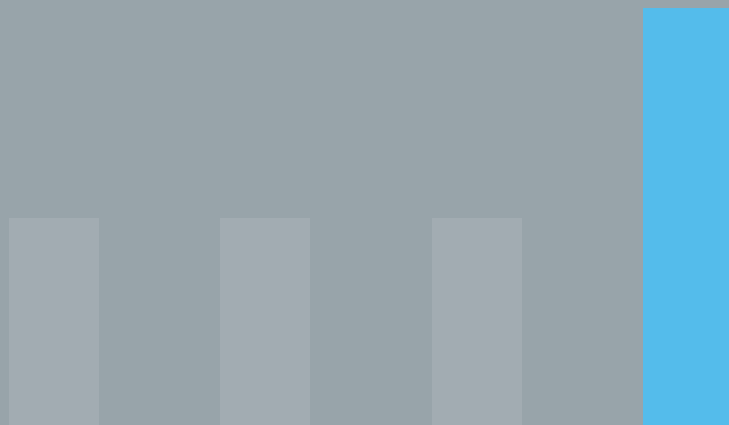




B A T H S

CIRCULATOR . WATER
OIL . COOLING BATHS



INSTRUMENTATION LINE 1



Cooling baths

- 03 ■ SBF series
- 04 ■ WB-MC series
- 12 ■ Cooling pump

Shaking water baths

- 05 ■ WB-MF series

Circulator baths

- 06 ■ FA 90E series
- 06 ■ FA 90 series
- 07 ■ SB series

Water baths

- 08 ■ BM series
- 09 ■ WB-M series
- 10 ■ WB-MD series
- 11 ■ WB-S series
- 11 ■ WB-U series

Oil baths

- 13 ■ BO series
- 13 ■ BO-D series
- 14 ■ WB-OD series

Bath fluid

- 15 ■ Silicone oil
- 15 ■ Cleaning liquid

Multiuse baths

- 16 ■ Histology bath
- 16 ■ Sand bath



Refrigerated baths circulator



SBF series

- Digital timer
- Fast heating and adequate cooling times
- High temperature stability
- Proportional refrigerating control for all models, energy saving, minimum heat release
- Monitoring and automatic shutdown for high and low temperatures
- Lateral handles for easy handling
- Easy accessibility for cleaning
- Noiseless

ACCESSORIES

Technical data		SBF 7			SBF 15		
Capacity	lt	7			15		
Drain tap		no			no		
Digital timer	hh:mm	∞ o 99:59			∞ o 99:59		
Temperature	°C	-30 ÷ +100			-30 ÷ +100		
Precision	°C	±0,2			±0,2		
Security class	DIN12879	2			2		
Heating power	W	1300			1300		
Refrigerant	°C	-25	0	25	-25	0	25
	W	210	170	260	520	600	850
Refrigerant solution		R134a			R134a		
Pump		pressure pump			pressure pump		
Pump range mbar 190	lt/min	4			4		
Discharge head mt. 1.8	mt	2,5			2,5		
Internal dimension WxDxH	mm	100x250x200			250x290x200		
Tank dimension WxDxH	mm	100x150x200			250x190x200		
External dimension WxDxH	mm	300x440x650			440x475x650		
Electric supply	V/Hz	220-240/50-60			220-240/50-60		
Weight	kg	31			41		
Item		612.1050.07			612.1050.15		

Wheels

Item

612.1050.31

Pipe for external circulation, 1,5 m

Item

612.1050.33

Liquid for criostat -30÷80°C

Item

612.1050.35

Water baths with cooling



WB-MC series

- Operating temperature from 10°C to 80°C
- Cooling by means of Peltier technology
- Excellent precision guaranteed by the internal retractable recirculation pump
- Temperature can be set and controlled via a digital thermostat with PID controller and PT100 probe.
- Digital timer for effective management of test duration
- Structure made of sheet steel painted with anti-acid epoxy powder coating
- Tanks made of 18/8 sheet steel moulded in one piece
- The instrument comes with an adjustable safety thermostat (Safety Class 3.1)

Technical data		WB MC
Capacity	lt	15
Timer	hh:mm	∞ o 99:59
Adjustable temperature	°C	d10 ÷ 50
Temperature	°C	15 ÷ 45
Precision	°C	±0.5
Stability	°C	±0.5
Security class	DIN12879	3.1
Heating power	W	350
Cooling power	W	180
Tank dimension WxDxH	mm	250x290x200
Dimensions with shelf	mm	255x275x155
External dimension WxDxH	mm	450x590x395
Electric supply	V/Hz	220/240 - 50/60
Weight	kg	29,5
Item		612.1052.15

ACCESSORIES



Polycarbonate gable lid

Item

610.1007.32

Modified water bath
to reach 80°C temperature

Item

612.1052.31

Shaking water baths



WB-MF series

Baths with Dubnoff type shaking action

WB-MF series baths with Dubnoff type shaking action are made entirely of sheet steel which has been oven coated with acid-resistant epoxy paint whilst the inner tank is made of stainless steel.

The front panel features a temperature control switch with digitally preset temperature selection thanks to the PID microprocessor.

The temperature is controlled by the PT 100 sensor, whilst shaking action can be controlled by the knob with linear LED display.

Safety thermostat with manual reset.

Technical data		WB-MF
Capacity	lt	20
Oscillation amplitude	mm	15
Protection class	IP	42
Security class	DIN 12879	1
Oscillation frequency	Rpm	0-200
Heating power	W	2100
Precision	°C	±0,5
Temperature	°C	+5 amb. ÷ +100
External dimension WxDxH	mm	670x400x290
Internal dimension WxDxH	mm	440x240x200
Electric supply	V/Hz	230/50-60
Weight	kg	16
Item		610.1007.74

NOTICE

The water bath is provided without gabled lid, supporting plate and flask holder. They must be ordered separately

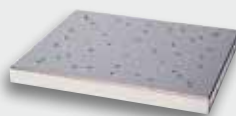
ACCESSORIES



Plexiglass gable lids

Item

610.1007.76



Supporting plates
without clips for flask and beaker

Capacity LxP 365x235 mm

ml	n. pieces max supports for plates
25 e 50	24-20
100	15
250	12
500	6
1000	4
2000	2

Item **610.1007.83**



General purpose container
325x235x60 mm

Item

610.1007.81



Fixing clips for flasks and beakers

Capacity Item

ml 25	603.0131.03
ml 50	603.0131.05
ml 100	603.0131.10
ml 250	603.0131.25
ml 500/1000	603.0131.50
ml 2000	603.0131.70

Heating immersion circulators



FA 90 E
ANALOGIC
without pump



FA 90
DIGITAL
with pump

FA 90 E/FA 90 series Heating immersion circulators

- FA 90 E series with analogic regulation and without external pump
- FA 90 series with digital regulation and with external pump
- Immersion parts made stainless steel

Technical data		FA 90 E	FA 90
Protection class	IP	30	30
Security class		3.1	3.1
Pump capacity mbar 190		-	9
Heating element power	W	1300	1300
Precision with H ₂ O	°C	± 3	± 0,5
Prevalence mt. 1.8		-	7,8
Temperature control	°C	+30 ÷ +120	+5 amb. ÷ +150
Digital timer	hh:mm		∞ o 99:59
Set temperature	°C		-10 ÷ +150
Display resolution	°C		0.1
Height immersed pump	mm		120
External dimensions LxPxH	mm	95x160x270	160x140x270
Power	V/Hz	230/50-60	230/50-60
Weight	kg	2,8	3
Item		612.1029.50	612.1029.00

ACCESSORIES



SERPENTINE SET*
To work up to -10 °C
by an external cooling system

Item

612.1029.01

PUMP SET**
It allows the external power
supply via a closed circuit

Item

612.1029.02

COMPLETE SET
Serpentine set + pump set

Item

612.1029.03



**STAINLES STEEL TANK
WITH BRIDGE**

Dimension 330x180x180 - 5 lt

Item

612.1029.26

Dimension 360x350x180
12 lt

Item

612.1029.29

Dimension 530x350x150
18.5 lt

Item

612.1029.32



**STAINLSS STEEL LID
WITH HANDLE**

For tank 5 lt

Item

612.1029.27

For tank 12 lt

Item

612.1029.30

For tank 18.5 lt

Item

612.1029.33



PLEXIGLASS TANK
8 mm thick
MAX OPERATING TEMPERATURE 60°C
Dimension 120x410x150 - 7 lt

Item

612.1029.35

Dimension 300x330x150 - 12 lt

Item

612.1029.37

Dimension 300x500x150 - 18,5 lt

Item

612.1029.39

Heating bath circulators



SB series

- For external and internal application temperature
- Microprocessor pid control
- Powerful circulation pump to keep uniform temperature of the bath
- Bottom of the tank with rounded corner for easy cleaning

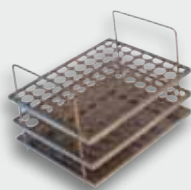
Technical data		SB5	SB15	SB24
Tank Capacity	lt	5	12	18,5
Drain Cock		no	no	yes
Digital timer	hh:mm	∞ o 99:59	∞ o 99:59	∞ o 99:59
Adjustable temperature	°C	+5 amb. ÷ 150	+5 amb. ÷ 150	+5 amb. ÷ 150
Precision temperature	°C	±0,5	±0,5	±0,5
Display resolution	°C	0,1	0,1	0,1
Pump range mbar 190	lt/min	9	9	9
Discharge head mt. 1.8	lt/min	7,8	7,8	7,8
Heating power	W	1300	1300	1300
Dimension on the bottom WxDxH	mm	250x100x150	290x255x150	440x560x200
Tank dimensions WxDxH	mm	160x150x150	190x300x150	360x300x150
External dimension WxDxH	mm	330x180x370	360x350x370	530x350x370
Weight	kg	7	8	11
Item		612.1029.05	612.1029.15	612.1029.24

ACCESSORIES



SERPENTINE SET
To work up to -10 ° C
by an external cooling system

Item
612.1029.01



Stainless steel test - Tube rack with 3 shelves

	1 for tank	1 for tank	2 for tank
	12 holes Ø21	48 holes Ø21	48 holes Ø21
Item	212.1250.02	212.1250.05	212.1250.05
	20 holes Ø17	60 holes Ø17	60 holes Ø17
Item	212.1250.03	212.1250.06	212.1250.06

PUMP SET
It allows the external power
supply via a closed circuit

Item
612.1029.02

COMPLETE SET
Serpentine set + pump set

Item
612.1029.03



BM series

The moulded inner tank made from one single piece of 18/08 stainless steel without seams or seals to ensure perfect heat distribution and eliminate leaks.

The external housing is made from a strong sheet of 18/8 stainless steel whilst insulation between the housing and the tanks is provided by fiberglass.

Temperature control and regulation is provided by a thermostat with a graduated centigrad scale and fluid expansion immersion sensor.

Technical data		BM 4	BM 12
Capacity	lt	6	13
Protection class	IP	43	43
Security class		3.1	3.1
Temperature	°C	+30 ÷ +120	+30 ÷ +120
Precision temperature	°C	±1,5	±1,5
Drain tap + liquid level		no	yes
Heating power	W	1000	1400
Internal dimension WxDxH	mm	220x150	270x200
External dimension WxDxH	mm	305x260	390x340
Electric supply	V/Hz	230/50-60	230/50-60
Weight	kg	5,2	8,2
Item		610.1010.04	610.1010.12



Concentric steel ring lids

	BM4	BM12
Item	610.1010.24	610.1010.32



Circular test tube holder
In 18/8 stainless steel. 3 tiers with central handle

	BM4	BM12
Item	212.9260.03	212.9260.04

Water baths



WB-M series

CAPACITY 5 - 15 - 24 LT

- External case in ABS

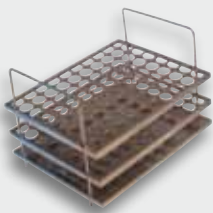
CAPACITY 50 LT

- External case in steel painted with epoxy paint

ALL CAPACITY

- Stainless steel tank (made by mould)
- General switch
- Analogic thermoregulator
- Safety thermostat
- Good insulation between external case and tank
- Bottom of the tank with rounded corner for easy cleaning

Technical data		WB-M5	WB-M15	WB-M24	WB-M50
Capacity	lt	5	12	18,5	50
Protection class	IP	42	42	42	42
Security class		1	1	1	1
Temperature	°C	+30 ÷ +120	+30 ÷ +120	+30 ÷ +120	+30 ÷ +120
Precision temperature	°C	±1.5	±1.5	±1.5	±1.5
Drain tap + liquid level		no	no	yes	yes
Heating power	W	700	1400	2100	3000
Internal dimension WxDxH	mm	100x250x150	255x290x150	240x440x150	440x560x200
External dimension WxDxH	mm	280x360x240	445x385x240	445x560x240	835x670x320
Electric supply	V/Hz	230/50-60	230/50-60	230/50-60	230/50-60
Weight	kg	5,2	6,2	9	33
Item		610.1005.05	610.1005.15	610.1005.24	610.1005.50



Stainless steel with 3 shelves

	2 for tank	1 for tank	2 for tank	4 for tank
	12 holes Ø21 125x100x150	48 holes Ø21 250x170x150	48 holes Ø21 250x170x150	48 holes Ø21 250x170x150
Item	212.1250.02	212.1250.05	212.1250.05	212.1250.05
	20 holes Ø17 125x100x150	60 holes Ø17 250x170x150	60 holes Ø17 250x170x150	60 holes Ø17 250x170x150
Item	212.1250.03	212.1250.06	212.1250.06	212.1250.06



Polycarbonate gable lid (resistance 120°C)

Item	610.1007.28	610.1007.32	610.1007.33	-
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Stainless steel gabled lid

Item	-	-	-	610.1007.29
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Stainless steel flat bath cover with rings (Ø max 85 mm)

n. holes	2	4	6	20
Item	610.1007.35	610.1007.34	610.1007.36	610.1007.37

WB-MD 5 - 15 - 24



WB-MD50

WB-MD series

CAPACITY 5 - 15 - 24 LT

- External case in ABS

CAPACITY 50 LT

- External case in steel painted with epoxy paint

ALL CAPACITY

- Stainless steel tank
- General switch
- Analogic thermoregulator
- Safety thermostat
- Good insulation between external case and tank
- Bottom of the tank with rounded corner for easy cleaning
- Digital microprocessor pid control

Technical data		WB-MD5	WB-MD15	WB-MD24	WB-MD50
Capacity	lt	5	12	18,5	50
Protection class	IP	42	42	42	42
Security class		3.1	3.1	3.1	3.1
Adjustable temperature	°C	+5 amb. ÷ +120	+5 amb. ÷ +120	+5 amb. ÷ +120	+5 amb. ÷ +120
Precision temperature	°C	±0,5	±0,5	±0,5	±1,0
Drain cock + tank level		no	no	yes	yes
Heating power	W	700	1400	2100	3000
Internal dimension LxWxH	mm	100x250x150	255x290x150	255x440x150	440x560x200
External dimension LxWxH	mm	280x360x240	445x385x240	445x560x240	835x670x320
Power	V/Hz	230/50-60	230/50-60	230/50-60	230/50-60
Weight	kg	5,2	6,2	9	33
Item		610.1006.05	610.1006.15	610.1006.24	610.1006.50



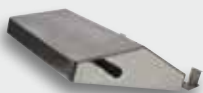
Stainless steel with 3 shelves

	2 for tank	1 for tank	2 for tank	4 for tank
	12 holes Ø21 125x100x150	48 holes Ø21 250x170x150	48 holes Ø21 250x170x150	48 holes Ø21 250x170x150
Item	212.1250.02	212.1250.05	212.1250.05	212.1250.05
	20 holes Ø17 125x100x150	60 holes Ø17 250x170x150	60 holes Ø17 250x170x150	60 holes Ø17 250x170x150
Item	212.1250.03	212.1250.06	212.1250.06	212.1250.06



Polycarbonate gable lid (resistance 120°C)

Item	610.1007.28	610.1007.32	610.1007.33	-
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Stainless steel gabled lid

Item	-	-	-	610.1007.29
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Stainless steel flat bath cover with rings (Ø max 85 mm)

n. holes	2	4	6	20
Item	610.1007.35	610.1007.34	610.1007.36	610.1007.37

Multi-places water baths



WB-S



WB-U

WB-S/WB-U series

The FALC WB-U baths for extractors are available with single baths for the WB-U models, and multiple baths insulated separately with glass fibre for the WB-S models, for simultaneous precise operation of each tank at different temperatures.

Each tank is fitted with a filling and level device whilst the WB-U model is also fitted with a hole for a thermometer.

All baths are provided with a bimetallic temperature regulator with graduated centigrade scale and sensor for each tank.

Technical data		WB-S2	WB-S4	WB-S6	WB-U2	WB-U4	WB-U6
Capacity	lt	1,8	1,8	1,8	4	8	12
Protection class	IP	43	43	43	43	43	43
Security class		0	0	0	0	0	0
Heating power	W	800	1600	2400	700	1400	2100
Precision	°C	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5
Temperature	°C	+30 ÷ +120	+30 ÷ +120	+30 ÷ +120	+30 ÷ +120	+30 ÷ +120	+30 ÷ +120
Tanks		2	4	6	2	4	6
External dimension WxDxH	mm	385x280x190	750x280x190	1100x280x190	455x300x200	775x300x200	1110x300x200
Internal dimension WxDxH	mm	140x125	140x125	140x125	335x135x100	650x135x100	980x135x100
Electric supply	V/Hz	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60
Weight	kg	6	10	16,4	7	11,2	15
Item		610.1022.02	610.1022.04	610.1022.06	610.1012.02	610.1012.04	610.1012.06

ACCESSORIES



Clip with clamp

Item

180.4304.39



Stainless steel rod 10x500 mm

Item

263.7120.05



Thermometer for model WB-U

Item

610.1007.68

Cooling pump



Cooling pump 10°C below ambient temperature

This instrument allows cooling a water bath (via a thermostat) at temperatures below ambient temperature.

This is made possible by reducing the temperature by 10%, thus allowing to perform the test without having to resort to more expensive and bulky machines.

Simply connect it to a water bath and it will start to lower the temperature of the liquid inside.

The instrument comes with a KIT for connecting to the tank.

FEATURES

- Outer structure made of steel painted with anti-acid epoxy powder coating
- Compact
- Self-priming pump
- Can be connected to any bath
- Pump can be excluded
- Liquid inlet and outlet connection of Ø12mm
- Temperature can be reduced by 10°C
- Connection kit included



CONNECTION KIT* included

THE COOLING PUMP CAN BE CONNECTED TO ANY BATH AS BELOW

Technical data

Capacity	lt	5 ÷ 24
Protection class	IP	40
Security class		0
Pump range mbar 190	lt/min	7
Heating power	W	160
External dimension WxDxH	mm	225x400x145
Weight	kg	8,5
Item		612.1029.62

WB-MD



WB-M



WB-MF



BM



WB-U



WB-S



Oil baths



BO



BO-D

BO/BO-D series

The thermostatic water baths in the BO-D Series are made entirely of 18/8 stainless steel with double side and carrying handles.

The inner tank is molded from one single piece of steel.

The BO-D digital model features electronic pre-set temperature regulation thanks to the PID microprocessor; temperature control is provided by the PT 100 sensor and a second safety thermostat with red warning light.

The BO range is supplied with analogic thermostat.

Technical data		BO-4	BO-12	BO-D16	BO-D24	BO-D30
Capacity	lt	6	13	3	6	13
Protection class	IP	42	42	42	42	42
Security class		3.1	3.1	3.1	3.1	3.1
Heating power	W	1000	1400	400	1000	1400
Precision	°C	5	5	1	1	1
Temperature	°C	+5 amb. ÷ +300	+5 amb. ÷ +300	+5 amb. ÷ +300	+5 amb. ÷ +300	+5 amb. ÷ +300
External dimension WxDxH	mm	305x260	390x340	205x290	305x290	390x340
Internal dimension WxDxH	mm	220x150	250x200	160x160	220x150	280x200
Electric supply	V/Hz	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60
Weight	kg	5,2	8,2	4,0	5,8	9,4
Item		614.1033.03	614.1033.12	614.1035.02	614.1035.04	614.1035.12

ACCESSORIES



Concentric steel ring lids

	BO-D16	BO-4/BO-D24	BO-12/BO-D30
Item	614.1035.00	610.1010.24	610.1010.32



Circular test tube holder. In 18/8 stainless steel. 3 tiers with central handle

	BO-D16	BO-4/BO-D24	BO-12/BO-D30
	30 holes Ø21	36 holes Ø21	60 holes Ø21
Item	212.9260.01	212.9260.03	212.9260.04



WB-OD series

These rectangular thermostatic oil baths by FALC are ideal for simultaneously heating of different sized containers.

- The tanks are molded in one single piece sheet of 18/8 stainless steel.
- Stopcocks are fitted to the rear of the tanks to drain the liquid without lifting the tank off the table.
- The external athermic casing is made of shock-resistant ABS with excellent insulation properties.
- They are featured with electronic pre-set temperature regulation thanks to the PID microprocessor and temperature control by the PT 100 sensor; a second safety thermostat is fitted in case the sensor does not work.

Technical data		WB-OD5	WB-OD15	WB-OD24
Tank capacity	lt	5	12	18,5
Protection class	IP	42	42	42
Security class		1	1	1
Adjustable temperature	°C	+5 amb. ÷ +200	+5 amb. ÷ +200	+5 amb. ÷ +200
Tank precision with H ₂ O	°C	±1.0	±1.0	±1.0
Drain cock + tank level		yes	yes	yes
Heating power	W	700	1400	2100
Internal dimension LxWxH	mm	100x250x150	255x290x150	255x440x150
External dimension LxWxH	mm	280x360x240	445x385x240	445x560x240
Power	V/Hz	230/50-60	230/50-60	230/50-60
Weight	kg	5,2	6,2	9
Item		614.1032.05	614.1032.15	614.1032.24

ACCESSORIES

Flat stainless steel lid (holes max Ø85 mm)

Fori n.	2	4	6
Item	610.1007.35	610.1007.34	610.1007.36

Stainless steel test tube rack

	2 for tank	1 for tank	2 for tank
	12 holes Ø21	48 holes Ø21	48 holes Ø21
Item	212.1250.02	212.1250.05	212.1250.05
	20 holes Ø17	60 holes Ø17	60 holes Ø17
Item	212.1250.03	212.1250.06	212.1250.06

Bath fluid



Silicone oil M350 -65°C +200°C

specific for thermostatic baths.

The silicone oil is stabilized to oxidation and it is used in all cases where they are needed to solve problems of heating up to 200 °C, for a maximum working of approximately 60-80 hours.

The silicone oil is soluble in chlorinated solvents and in aromatic hydrocarbons.

Technical data

Aspect	Crystal fluid clear		
Viscosity at 25° C	357.0		
Capacity	1 lt	5 lt	25 lt
Item	614.1035.21	614.1035.23	614.1035.25



Cleaning Liquid

Liquid solution for cleaning the steel.

Pack of 400 g.

Item

610.0000.40

Multiuse baths



Histology bath

This bath is suitable for removing tissue in paraffin which come from microtome. The internal tank has been manufactured in black anodised aluminium making it easy to see the material contained inside.

The external casing is made of oven painted aluminium coated with epoxy paint. The interspace has been insulated with fiberglass to minimise heat loss and maintain uniform temperatures. Temperatures are regulated and controlled by a thermostat with fluid expansion sensor.

Technical data		BI
Capacity	lt	1,5
Protection class	IP	54
Security class		0
Heating power	W	250
Precision	°C	1,5
Temperature	°C	+30 ÷ +90
External dimension Ø	mm	330x95
Internal dimension Ø	mm	200x60
Electric supply	V/Hz	230/50-60
Weight	Kg	1,6
Item		610.1030.00



Sand bath

Ideal for the homogenous heating of the contents in the baths. The external structure is made of steel which has been oven coated with acid-resistant epoxy paint whilst the inner tanks are made of extra thick 304 stainless steel. The whole structure is insulated with a 40 mm thick layer of ceramic fibre which ensures that the temperature outside the apparatus remains at room temperature. Heating is provided by iron-clad stainless steel heating elements. Temperature regulation and control are provided by a bimetallic temperature regulation on a numbered scale. An illuminated green ON/OFF switch is provided as standard.

		S70	S130
Capacity	lt	6	12
Protection class	IP	30	30
Security class		0	0
Heating power	W	1000	1400
Precision	°C	5	5
Temperature	°C	+450	+450
External dimension WxDxH	mm	410x400x270	610x460x270
Internal dimension WxDxH	mm	290x230x90	500x300x90
Electric supply	V/Hz	230/50-60	230/50-60
Weight	kg	12,6	20,2
Item		614.1037.07	614.1037.13

ACCESSORIES



Flat lid

Item
610.1030.01



Packaging sand to 2 Kg

Item
614.1037.15



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