

FLASK HEATERS

CIR SERIES - cast iron multiple plate

Technical Specifications			
Heating places	n°	4	6
Heating plate Ø	mm	120	120
Temperature range	°C	+500	+500
Plate accuracy	°C	±5	±5
Heating res. Capacity	W	2800	4200
Overall dim. WxDxH	mm	650x270x140	985x270x160
Weight	Kg	6,7	9,4
Item		623.0434.12	623.0436.12



V/HZ 230/50-60	SAFETY CLASS 0	PROTECTION RATING IP 32
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ACCESSORIES FOR CIR MULTIPLE

	Item
Stainless steel rod Ø 10 x 500	263.7120.05



ACCESSORIES FOR CIR PLATES

Technical Specifications	
Cylindrical aluminium adapters	Item
For 100 ml. Matrasses	623.0438.20
For 250 ml. Matrasses	623.0438.25
For 500 ml. Matrasses	623.0438.50
Conic aluminium adapters	
For 100 ml. Matrasses	623.0437.20
For 250 ml. Matrasses	623.0437.25
For 500 ml. Matrasses	623.0437.50
Bowl	
Stainless steel Ø x H 120 x 60 mm	112.2050.12

MBO SERIES - soft for flasks

These suspension mantles consist of a soft structure without metallic parts, while housings and interiors are in glasswire and glassfibre insulated. Ideal for heating suspended heaters when traditional console versions cannot be used.

A handy string allows heater fastening to matrass: simply roll it around the bowl. MBO mantles are fitted with plug and 1.5 m. cord and with a 3 step power regulator with switch function.



Technical Specifications					
For flasks	ml	100	250	500	1000
Bottom slot		No	No	Yes	Yes
Nest temperature °C		+300	+300	+300	Heating res.
Capacity	W	85	160	220	330
Item		627.0624.01	627.0624.02	627.0624.05	627.0624.10

V/HZ 230/50-60	SAFETY CLASS 0	PROTECTION RATING IP 0
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FLASK HEATERS

MM SERIES - semirigid

MM heating mantles were developed by FALC on the base of long years of experience; steel housings, oven coated with acidproof epoxy paint; semi – rigid structure that fits matrass shape drastically reducing risks of matrass breaking; thermal insulation guaranteed by ceramicfiber; temperature control through a graduated thermoregulator.

All models are provided with ON /OFF switch with relevant green light.

N.B. The max indicated temperatures refer to the nest



Technical Specifications							
Flask	Ø mm	64	85	105	131	166	
Flask capacity	ml	100	250	500	1.000	2.000	
Temperature range	°C	+350	+350	+350	+350	+350	
Precision	°C	± 5	± 5	± 5	± 5	± 5	
Heating res. Capacity	W	130	180	250	450	600	
Dimensioni Ø x H	mm	185 x 145	185 x 145	205 x 150	245 x 175	310 x 210	
Weight	Kg	1,5	1,5	1,8	2,4	5,0	
Item		625.0500.01	625.0500.02	625.0500.05	625.0500.10	625.0500.20	

V/HZ
230/50-60

SAFETY
CLASS
0

PROTECTION
RATING
IP 30



ACCESSORIES MM

Clamp	603.0129.06
Rod ø 10 x 500 mm	263.7120.05

SERIES MA - for big volumes

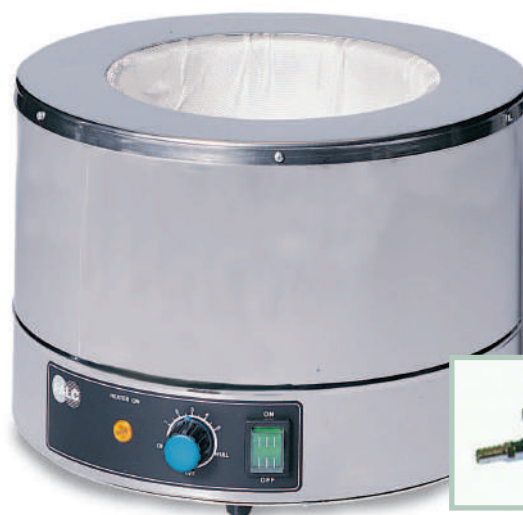
We attached great importance to safety by developing our MA mantles for large matrasses, provided with liquid recovery system, should matrass accidentally break.

Housing and internal calottes completely made of stainless steel and covered with glassfibre cloth.

Resistances are accomodated in a ceramicfiber block, in order to make maximum use of the generated heat, while reducing outer wall temperature to a minimum.

Temperature is controlled by a graduated thermoregulator. MA mantles are fitted with an ON /OFF switch with relevant green light.

N.B. The max indicated temperatures refer to the nest



Technical Specifications								
Flask	Ø mm	195	207	236	279			
Flask capacity	ml	3.000	4.000	6.000	10.000	20.000	50.000	
Temperature range	°C	+350	+350	+350	+350	+350	+350	
Precision	°C	± 5	± 5	± 5	± 5	± 5	± 5	
Heating res. Capacity	W	600	900	900	1500	2100	3000	
Overall dim. Ø xH	mm	310 x 290	380 x 310	380 x 310	460 x 330	540 x 510	700 x 650	
Weight	Kg	6,0	8,0	8,0	11,0	16,5	20,0	
Item		625.0520.03	625.0520.04	625.0520.06	625.0520.10	625.0520.20	625.0520.50	

V/HZ
230/50-60

SAFETY
CLASS
0

PROTECTION
RATING
IP 44

FLASK HEATERS

SERIES MS - safety

I riscaldatori di sicurezza per palloni FALC della serie MS sono stati progettati e costruiti secondo norme di Safety flask heaters were developed by FALC in compliance with CEI Safety Standards. They feature entirely new characteristics: square housing with EX validated, flameproof distributing box placed on the heater side.

These heaters are provided with outer cases and calottes in welded and sealed steel, which ensure maximum insulation of the electric components; outer parts are oven coated with acidproof epoxy paint.

Heating resistances are built in a fiberceramic block covered by a steel calotte with fiberglass cloth protection.

Control boxes are connected to heaters by an insulated and sealed cord of about 2 meters, so that the user can safely operate the device from the outside.

PVC control boxes with transparent and tight flap door comply with IP 55 Standard and feature an ON /OFF switch, whose green light indicates heater connection to network; a digital display provided with microprocessor allows to control and adjust temperature.

N.B. The max indicated temperatures refer to the nest

These heaters comply with CEI Standards 62 - 25 and with the European Standards IEC 62D - VVG 5 - (segratariat) 8 - 1997. All electrical components are IMQ validated.



Technical Specifications						
Flask capacity	ml	100	250	500	1.000	2.000
Temperature + 5 amb.	°C	+350	+350	+350	+350	+350
Precision	°C	± 2	± 2	± 2	± 2	± 2
Heating res. Capacity	W	130	180	250	450	600
Overall dim. WxDxH	mm	190x295x110	190x295x110	205x310x120	225x330x135	305x410x170
Heater weight	Kg	4	4	4,5	5	9
Item		625.0530.01	625.0530.02	625.0530.05	625.0530.10	625.0530.20

V/HZ 230/50-60	SAFETY CLASS 3.1	PROTECTION RATING IP 55
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Identical to above mentioned models but with double probe, one internal and one external, control the real actual temp. probe in stainless steel with Ø 3 mm and 230 mm length

Item		625.0532.01	625.0532.02	625.0532.05	625.0532.10	625.0532.20
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V/HZ 230/50-60	SAFETY CLASS 3.1	PROTECTION RATING IP 55
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Control box, Dim.: W x D x H mm 135 x 135 x 110

FLASK HEATERS

SERIES MQ - rigid

MQ Mantles heaters were developed by FALC in compliance with the latest European Safety Standards. They feature completely new characteristics and a new inclined front side ensures easy value adjustment and read-out.

Housing in steel plate, oven coated with acidproof epoxy paint, which includes heating resistances built in a fiberceramic block. The device is fitted with an aluminium calotte covered with fiberglass cloth and with a bottom hole for fluid collection in case of matras breaking. A threaded M8 hole for support rod insertion is fitted on the heater back side.

Heaters feature an ON / OFF switch with green light and a thermostat with fluid expansion graduated probe for temperature control, which ensures temperature accuracy.

N.B. The max indicated temperatures refer to the nest



Technical Specifications						
Flask capacity	ml	100	250	500	1.000	2.000
Nest temperature from	°C	+50 a +350	+50 a +350	+50 a +350	+50 a +350	+50 a +350
Precision	°C	± 5	± 5	± 5	± 5	± 5
Heating res. Capacity	W	130	180	250	450	600
Overall dim. W x D x H	mm	175x250x115	175x250x115	200x280x125	225x310x145	310x400x190
Weight	Kg	2,0	2,0	2,7	3,5	6,4
Item		625.0540.01	625.0540.02	625.0540.05	625.0540.10	625.0540.20

V/HZ
230/50-60

SAFETY
CLASS
0

PROTECTION
RATING
IP 41

ACCESSORIES



Threaded rod M8 in stainless steel Ø 10 x 400 mm.

Item	601.0125.01
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Universal clip for matras

Item	180.4300.56
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Clamp

Item	146.2900.05
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FLASK HEATERS

SERIES BE & BE - S

Multiposition BE heaters feature the same reliability as MA heaters. Their housing is in stainless steel 18/8; the thermoregulation of each position is carried out by biometallic graduated different temperatures or one position only. Each nest cavity is fitted with safety aluminium calotte and relevant cover. Produced in fiberglass cloth to avoid inside liquid penetration in case of flask breaking. The series features a further replaced. Provided with steel rods \varnothing 10 x 500 mm.

N.B. The max indicated temperatures refer to the nest

Technical Specifications		BE2	BE2	BE4	BE4
Position No	n°	2	2	4	4
Flask capacity	ml	250	500	250	500
Nest temperature	°C	+350	+350	+350	+350
Precision	°C	± 5	± 5	± 5	± 5
Heating res. Capacity	W	360	500	720	1000
Overall dim. WxDxH	mm	360 x 300 x 120	360 x 300 x 120	710x300x120	710 x 300 x 120
Weight	Kg	4,8	4,8	7,2	7,2
Item		625.0502.02	625.0502.05	625.0504.02	625.0504.05

Identical to BE series models but with increased power heating resistance

Technical Specifications		BE - S2	BE - S2	BE - S4	BE - S4
Nest temperature	°C	+450	+450	+450	+450
Heating res. Capacity	W	500	900	1000	1800
Item		625.0502.03	625.0502.06	625.0504.03	625.0504.06

V/Hz
230/50-60

SAFETY
CLASS
0

PROTECTION
RATING
IP 42

ACCESSORIES: for BE models

Cork rings		Item
Flask capacity ml	10 - 50	262.2206.02
Flask capacity ml	50 - 100	262.2206.04
Flask capacity ml	250 - 500	262.2206.06
Flask capacity ml	1000 - 3000	262.2206.09
Flask capacity ml	5000 - 6000	262.2206.12
Clip with clamp		180.4304.39



SPARE PARTS

Rod, stainless steel \varnothing 10 x 500

Item	263.7120.05
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SERIES KLH - Kjeldahl

Independent positions for distillation and oxidation, with easy change from one function to the other: gently press flask from distillation to oxidation and vice versa. Temperature regulation through bimetallic step thermoregulators; max. ideal for oxidation; as to distillation, simply rotate thermoregulator knob on the required temperature value. Our for spherical joints, clips for pipes, flask holders and two pipes for cooling water.

N.B. The max indicated temperatures refer to the nest

Technical Specifications		KLH2	KLH2	KLH2	KLH4
Position No	n°	2	2	2	4
Flask capacity	ml	250	500	800	250
Nest temperature	°C	+450	+450	+450	+450
Precision	°C	± 5	± 5	± 5	± 5
Heating res. Capacity	W	500	900	900	1000
Overall dim. WxDxH	mm	460 x 390 x 175	460 x 390 x 175	460 x 390 x 175	930 x 390 x 175
Weight	Kg	8,5	8,5	8,5	16,0
Item		625.0552.02	625.0552.05	625.0552.08	625.0554.02

V/Hz
230/50-60

SAFETY
CLASS
0

PROTECTION
RATING
IP 42

thermostates, so that it is possible to operate many positions at
 advantage : it is not only safe, but its heating units can be easily

BE6	BE6
6	6
250	500
+350	+350
± 5	± 5
1080	1500
1060 x 300 x 120	1060x300x120
9,2	9,2
625.0506.02	625.0506.05

BE - S6	BE - S6
+450	+450
1500	2700
625.0506.03	625.0506.06



downwards for rapid changing
 temperature allowed :450°C,
 devices are supplied with clips

KLH4	KLH4
4	4
500	800
+450	+450
± 5	± 5
1800	1800
930 x 390 x 175	930 x 390 x 175
16,0	16,0
625.0554.05	625.0554.08



FLASK HEATERS

SERIES MF - with stirring

FALC developed these compact stirring / heating mantles on the ground of many years of experience, in order to heat and stir matrasses simultaneously or separately.

These heating mantles comply with the European Safety Standards and feature a cylindrical body in steel, painted with acidproof epoxy paint; resistances are built in a ceramic fiber block and the body is fitted with an aluminium calotte, covered with glass fiber cloth, which insulate the item very well, even in case of matrass casual breaking.

Heating mantles are completed by an ON / OFF switch with green light, with a graduated thermoregulator for temperature adjusting and control with yellow light and with a step electronic converter for RPM regulation with green light indicator of the stirring function.

Moreover the instrument is fitted with a rod clamp on the back.

N.B. The max indicated temperatures refer to the nest



V/Hz 230/50-60	SAFETY CLASS 0	PROTECTION RATING IP 32
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Technical Specifications						
Flask capacity	ml	100	250	500	1000	2000
Temperature range	°C	+350	+350	+350	+350	+350
Precision	°C	± 5	± 5	± 5	± 5	± 5
Heating res. Capacity	W	130	180	250	450	600
Dimensioni Ø x H	mm	185 x 175	205 x 190	245 x 210	245 x 210	310 x 230
Variable speed	Rpm	100-2500	100-2500	100-2500	100-2500	100-2500
Motor power	W	20	20	20	20	20
Weight	Kg	2,6	2,8	3,3	3,7	6,6
Item		625.0510.01	625.0510.02	625.0510.05	625.0510.10	625.0510.20

ACCESSORIES	Item
Steel rod Ø 10 x 500 mm.	263.7120.05
Universal clip for matrasses	180.4300.56
Clamp	146.2900.05



FIBERGLASS HEATING TAPE

Heating tapes in glassfibre, soft and flexible. They can be fitted around small diameter tubes. Plug and cord from 0.5 m. are included.

P.S. Minimum winding tube Ø 20 mm.



V/Hz 230/50-60	SAFETY CLASS 0	PROTECTION RATING IP 0
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Technical Specifications						
Tape length	mt	1	1,5	2	2,5	3
Max Temperature	°C	+400	+400	+400	+400	+400
Heating res. Capacity	W	190	400	520	650	780
Tape width	mm	40	40	40	40	40
Item		627.0626.10	627.0626.15	627.0626.20	627.0626.25	627.0626.30

N.B. In order to avoid resistance overheating, connect them with a Biometallic, Electronic or a Head Control thermoregulator. See page 78.