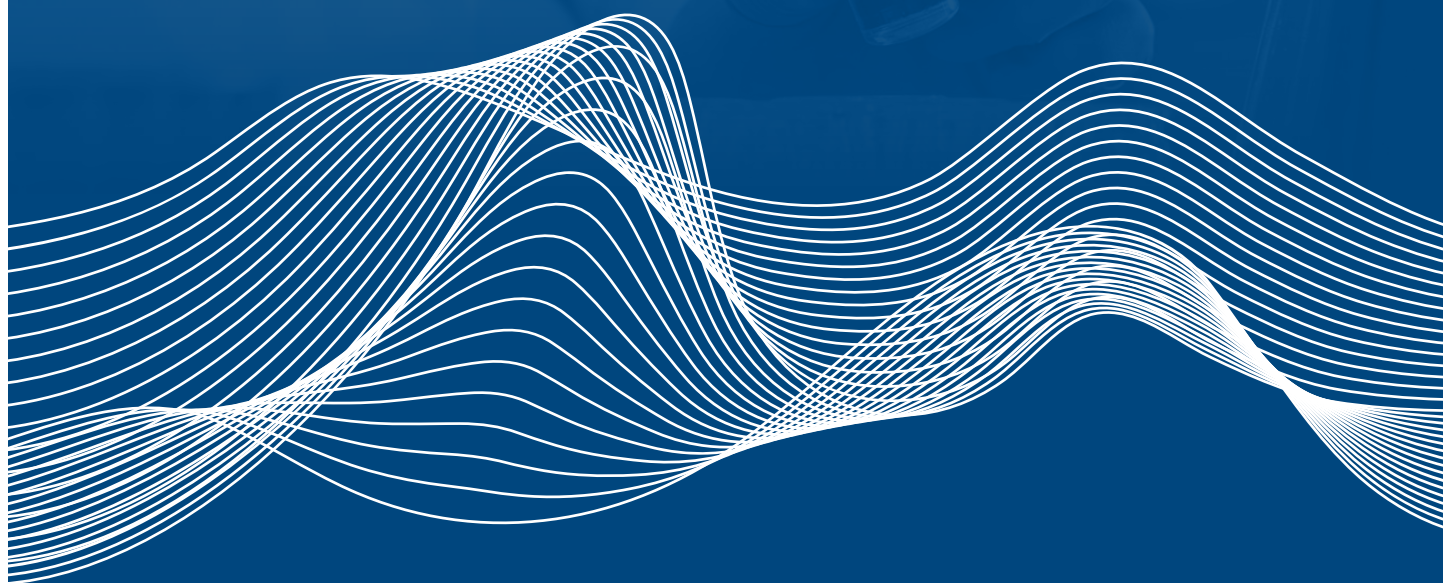
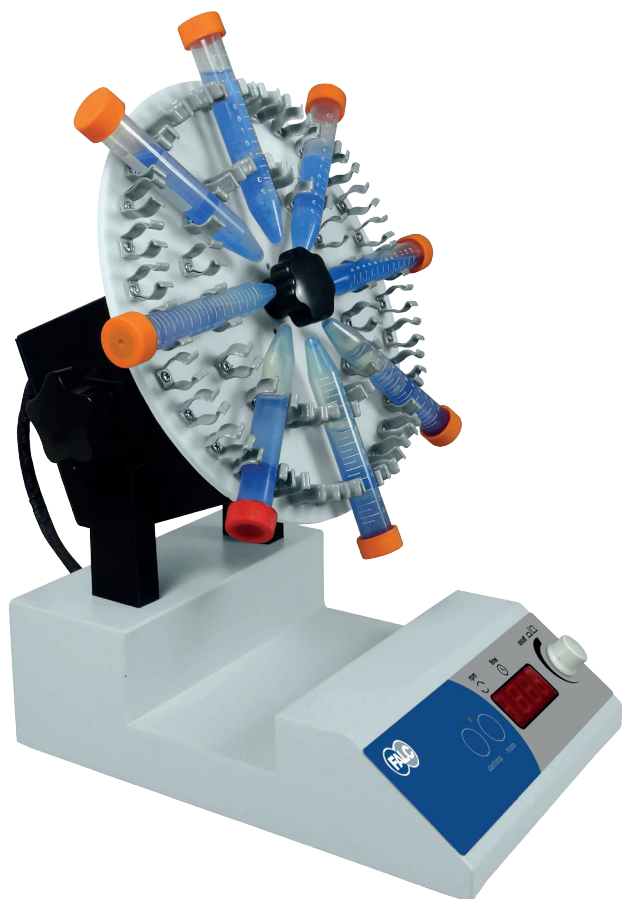




stirrers

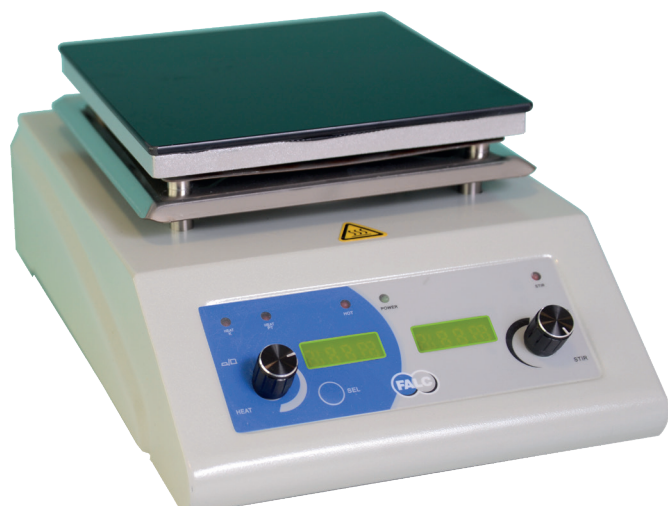
2021





STIRRERS

- 4 ■ **ELECTROMAGNETIC STIRRERS**
 - 4 | Stirrers without heating
 - 5 | Multi-position stirrers
 - 6 | Hotplate Stirrers-Alluminium Top
 - 7 | Hotplate Stirrers High Temperature - Ceramic glass Top
- 8 ■ **ACCESSORIES**
- 9 ■ **STIRRING HEATING MANTLES**
 - | Stirring Heating mantles for flasks
- 10 ■ **MAGNETIC STIRRING BARS**
- 11 ■ **OVERHEAD STIRRERS**
 - 11 | Overhead stirrers
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- 13 ■ **SHAKERS**
 - 13 | Mixing shakers for "micro plates"
 - 14 | Reciprocating and orbital shakers
- 15 ■ **SHAKING WATER BATHS**
 - | Dubnoff type shaking action
- 16 ■ **TUBES STIRRERS**
 - 16 | Rotator stirrer
 - 17 | Vortex mixer
 - 18 | Thermal mixing blocks
 - 18 | Roller stirrers



ELECTROMAGNETIC STIRRERS

Stirrers without heating



F20
SMALL VOLUMES



Useful in the microbiological and biochemical fields



The stainless steel plate facilitates cleaning and sterilization



Electronic speed control
DC motor

Technical data		F20
Stainless steel working surface LxD	mm	110x110
Max stirring capacity with H ₂ O	lt	2
Variable speed	Rpm	100-1100
Hole for rod	M 8	No
Motor power	W	10
Dimensions LxWxH	mm	110x115x60
Weight	kg	0,7
Stirring bar suggested Ø	mm	6x20
Code		601.0101.20

V/HZ 220/240-50/60

SAFETY CLASS 0

PROTECTION CLASS IP 41

ELECTROMAGNETIC STIRRERS

Multi-position stirrers



Digital timer



Plate in stainless steel (304). The stainless steel plate facilitates cleaning and sterilization.



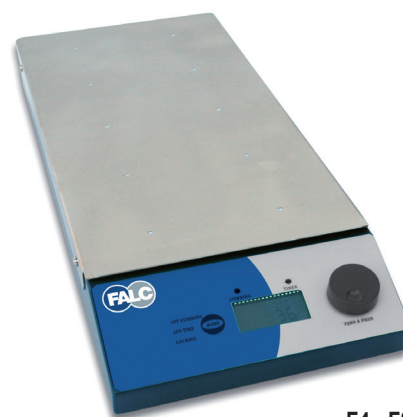
Case in stainless steel coated, painted in oven with epoxy powder antacid



Displays simultaneous three function: speed, time and countdown



Digital speed control
DC motor



F4 - F8
WITHOUT HEATING

Technical data		F4	F8
Working plate	mm	205x205	205x410
Distance from stirring points	mm	100	100
Max stirring capacity with H ₂ O	lt	1x4	1x8
Timer	hh:mm	∞ o 99:59	∞ o 99:59
Variable speed	rpm	80÷1200	80÷1200
Motor Power	W	25	25
External dimensions LxWxH	mm	205x280x70	205x485x70
Weight	kg	2,0	4,0
Stirring bar suggested Ø	mm	6x20	6x20
Code		601.0101.44	601.0101.49

V/HZ 220/240-50/60

SAFETY CLASS 0

PROTECTION CLASS IP 40



Independent digital heating and stirring control



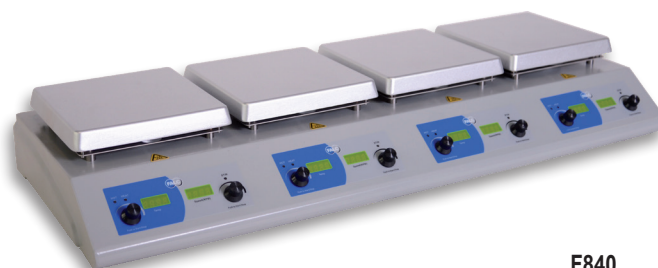
Aluminium plates for excellent temperature with anti-acid epoxy powder coating
Metal structure painted with anti-acid epoxy powder coating



Digital speed control
DC motor



Excellent for multi-use and wide range of sample testing
Internal cooling fan to avoid overheating



F840
WITH HEATING

ACCESSORIES

18/8 Stainless steel rod Ø10x400 mm
Code 601.0125.01

Kit for external probe
4 kit needed for F840
Code 601.0125.10 (Look at pag. 8)

Technical data		F840
Working plate	mm	(160x160)x4
Max stirring capacity with H ₂ O	lt	5 × 4
Variable speed	rpm	150-1500
Hole for rod		Yes
Plate temperature from	±°C	+5 amb to +400
Precision on the plate	±°C	±3
Precision with probe inserted	±°C	±1
Motor Power	W	12x4
Heating resistance power	W	750x4
Dimensions LxWxH	mm	770x310x160
Weight	kg	10
Stirring bar suggested Ø	mm	6x30
Code		601.0122.95

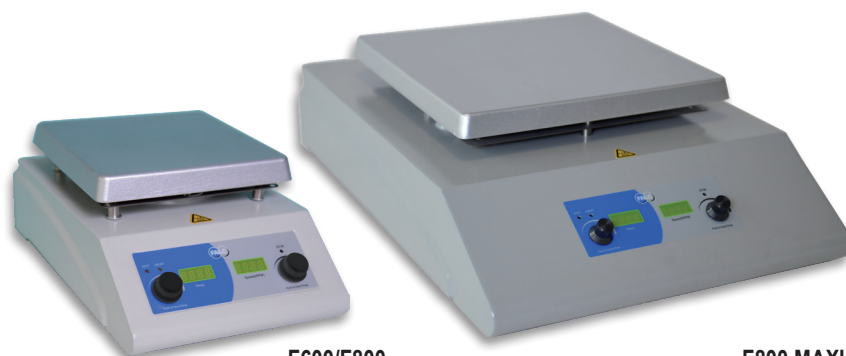
V/HZ 220/240-50/60

SAFETY CLASS 1

PROTECTION CLASS IP 41

ELECTROMAGNETIC STIRRERS

Hotplate Stirrers-Alluminium Top



F600/F800

F800 MAXI

-  Digital temperature regulation by PT100 probe
-  Aluminium plates for excellent temperature with anti-acid epoxy powder coating
Metal structure painted with anti-acid epoxy powder coating
-  Digital speed control
DC motor
-  Internal cooling fan to avoid overheating
External probe port

ACCESSORIES

Kit for external probe

Code 601.0125.08 for F800

Code 601.0125.11 for F800 MAXI (Look at pag. 8)

Stainless steel 18/8 rod Ø10x400 mm

Code 601.0125.01 for F600

Technical data		F600	F800	F800 MAXI
Working plate	mm	160x160	160x160	250x250
Max stirring capacity with H ₂ O	lt	20	20	30
Variable speed	rpm	150-1500	150-1500	150-1500
Hole for rod	M8	yes	yes	yes
Thermometer connector		no	yes	yes
Plate temperature from	°C	+5 amb to +400	+5 amb to +400	+5 amb to +400
Precision on the plate	°C	±3	±3	±3
Precision with probe inserted	°C	-	±1	±1
Motor Power	W	12	12	20
Heating resistance power	W	750	750	1500
Dimensions LxWxH	mm	310x200x120	310x200x120	335x470x140
Weight	kg	4	4	12
Stirring bar suggested Ø	mm	6x30	6x30	6x30
Code		601.0122.61	601.0122.81	601.0122.98

* stirrer provided without the kit for external probe

V/Hz 220/240-50/60

SAFETY CLASS 1

PROTECTION CLASS IP 41

ELECTROMAGNETIC STIRRERS

Hotplate Stirrers High Temperature - Ceramic glass Top



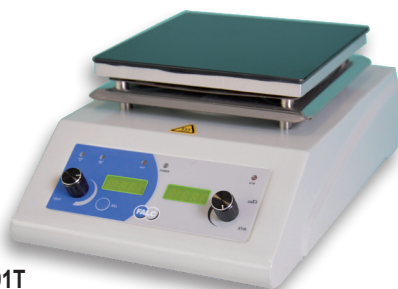
Digital temperature regulation
by PT100 probe



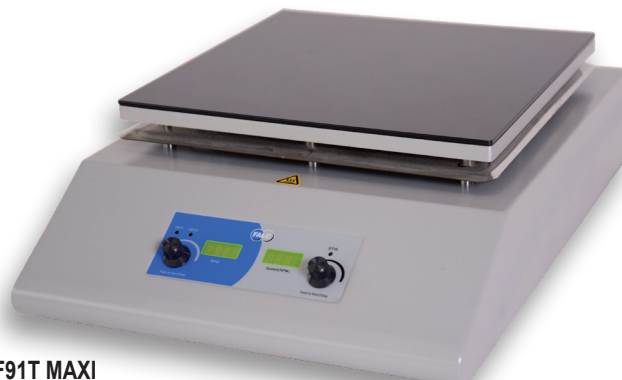
Metal structure painted
with anti-acid epoxy powder coating



Digital speed control
DC motor



F91T



F91T MAXI

ACCESSORIES

Kit for external probe

Code 601.0125.10 for F91T

Code 601.0125.11 for F91T MAXI (Look at pag. 8)

Technical data		F91T	F91T MAXI
Ceramic-glass plate	mm	160x160	300x300
Heating elements power	mm	120x120	250x250
Max stirring capacity	lt	15	20
Variable speed	rpm	150÷1500	150 ÷ 1500
Plate temperature	°C	+50 to +550	+50 to +550
Temperature controller		digital	digital
Resolution	°C	1	1
Precision with probe inserted	°C	± 1	± 1
External probe		yes*	yes*
Hole for rod	M8	yes	yes
Power	W	550	1500
External dimensions LxWxH	mm	220x240x145	335x470x145
Weight	kg	3,6	9,5
Stirring bar suggested Ø	mm	6x30	6x30
Code		601.0122.93	601.0122.89

* stirrer provided without the kit for external probe

V/HZ 220/240-50/60

SAFETY CLASS 0

PROTECTION CLASS IP 40

Kit F800 - F840 - F91T



Acoustic alarm
for low liquid



Kit for external probe
(clamp-rod-probe).
It allows you to direct control the
temperature in the liquid.
Display resolution: 0.1 °C
Code 601.0125.10
4 kit needed for F840

Kit F800 MAXI - F91T MAXI



Acoustic alarm
for low liquid



Kit for external probe for
(clamp-rod-probe).
It allows you to directly control
the temperature in the liquid.
• Maximum temperature: 200 °C
• Display Resolution: 0.1 °C

Codice 601.0125.11

STIRRING HEATING MANTLES

Stirring Heating mantles for flasks



Ideal to heat and stir the liquid in the flask, at the same time or separately



Heating elements are built in a single block of ceramic fiber



Electronic temperature controller



Electronic speed control
DC motor

N.B.
The maximum temperature values refer to the calotte



MF



Clamp included

Technical data		MF100	MF250	MF500	MF1000	MF2000
Flask	ml	100	250	500	1000	2000
Flask diameter	Ø mm	64	85	105	131	166
Temperature	°C	+350	+350	+350	+350	+350
Precision	°C	± 5	± 5	± 5	± 5	± 5
Heating res. capacity	W	130	180	250	450	600
External dimensions LxWxH	mm	185x175	205x190	245x210	245x210	310x230
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
Suggested stirring bar Ø	mm	6x20	6x20	6x20	6x20	6x20
Code		625.0510.01	625.0510.02	625.0510.05	625.0510.10	625.0510.20

V/HZ 220/240-50/60

SAFETY CLASS 0

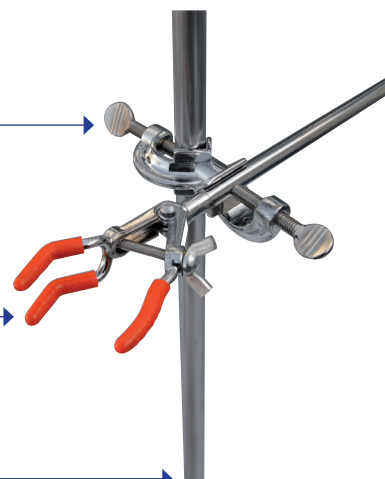
PROTECTION CLASS IP 32

ACCESSORIES

Support for rod and clamp
Code 146.2900.05

Clamp
Code 180.4300.56

Stainless steel rod
Ø12x500 mm
Code 262.7450.05



MAGNETIC STIRRING BARS



Cylindrical magnetic stirring bars - PTFE

Code	Ø mm	length mm
601.0125.23	3	8
601.0125.24	3	13
601.0125.25	3	20
601.0125.26	6	10
601.0125.14	6	20
601.0125.15	6	30
601.0125.19	7	40
601.0125.16	8	40
601.0125.17	8	50
601.0125.18	9	60
601.0125.20	12	55
601.0125.21	13	70



Magnetic stirring bars with pivot - PTFE

Code	Ø mm	length mm
601.0125.23	3	8
601.0125.40	3	8
601.0125.41	4,5	12
601.0125.42	6	20
601.0125.43	6	30
601.0125.44	8	40
601.0125.45	8	50
601.0125.46	9	60



Egg-shaped magnetic stirring bars - PTFE

Code	Ø mm	length mm
601.0125.50	10	20
601.0125.51	12	25
601.0125.52	15	30
601.0125.53	15	35



Magnetic stirring bar retrievers - PTFE

Code	Ø mm	length mm
601.0125.12	8-10	300



Glass magnetic stirring bars

Code	Ø mm	length mm
601.0125.30	8	15
601.0125.31	8	20
601.0125.32	8	25
601.0125.33	8	30
601.0125.34	8	40
601.0125.36	8	55



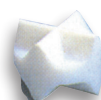
Triangular magnetic stirring bars - PTFE

Code	Ø mm	length mm
601.0125.30	8	15
601.0125.55	8	12
601.0125.56	8	20
601.0125.57	8	25
601.0125.58	10	35
601.0125.59	12	50



Dumbbell-shaped magnetic stirring bars - PTFE

Code	length mm
601.0125.62	37
601.0125.63	55



Star-shaped magnetic stirring bars - PTFE

Code	lHxØ mm
601.0125.66	8x10
601.0125.67	10x14
601.0125.68	13x17
601.0125.69	15x22

OVERHEAD STIRRERS

Overhead stirrers

-  Digital timer for AT-MD model
-  Suitable for routine and continuous works
-  Smooth start and change of the stirring speed
-  Overload protection and over-heat protection for motor
-  LCD backlit display for AT-MD model
-  Electronic/digital speed control DC motor



*rod, support, stirring shaft and clamp are not included. Look at page 14

Technical data		AT-M 10	AT-M 20	AT-MD 10	AT-MD 20
Set lecture values		analog	analog	digital	digital
Variable speed	rpm	200-3000	200-3000	200-3000	200-3000
Max couple torsion spindle	ncm	85	145	85	145
Max Ø probe insertion	mm	10	10	10	10
Max stirring capacity with H ₂ O	lt	10	20	10	20
Max viscosity	mPas	10000	50000	10000	50000
Motor rating input output	W	83/75	130/120	83/75	130/120
Dimensions LxWxH	mm	90x145x180	90x145x180	90x145x180	90x145x180
Weight	kg	4,5	5,3	4,5	5
Code		605.0150.10	605.0150.12	605.0150.18	605.0150.20

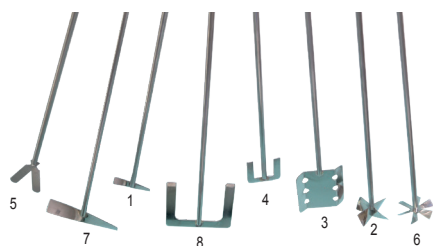
V/HZ 220/240-50/60

SAFETY CLASS 0

PROTECTION CLASS IP 40

OVERHEAD STIRRERS

Accessories

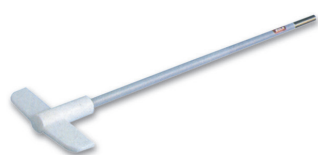


Stainless steel stirring shafts

Code	Photo n°	Rotor mm length x H mm	Ø rod mm	Overall length mm
605.0152.02	1	50x10	7	300
605.0152.03	2	50x20	7	300
605.0152.04	3	70x50	7	300
605.0152.05	4	45x40	7	350
605.0152.06	5	100x10	7	300
605.0152.07	7	100x20	7	300
605.0152.08	6	50	7	300
605.0152.10	8	90x80	7	350

Stainless steel stirring shafts with blade - PTFE

Code	Rotor mm length x H mm	Ø rod mm	PTFE thickness	Overall length mm
605.0152.12	90x20	6,5	1,5	450
605.0152.13	90x20	6,5	1,5	600



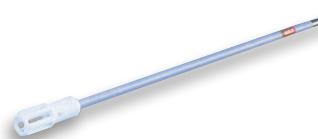
Stainless steel stirring shafts with one paddle - PTFE

Code	Rotor mm length x H mm	Ø rod mm	PTFE thickness	Overall length mm
605.0152.15	80x12	6,5	1,5	450
605.0152.16	80x12	6,5	1,5	600



Stainless steel U-shaped stirrer shafts - PTFE

Code	Rotor mm length x H mm	Ø rod mm	PTFE thickness	Overall length mm
605.0152.17	60x40	6,5	1,5	350
605.0152.18	60x40	6,5	1,5	450
605.0152.19	80x50	6,5	1,5	450



Stainless steel fan shaped stirrer shafts - PTFE

Code	Rotor mm length x H mm	Ø rod mm	PTFE thickness	Overall length mm
605.0152.23	38	6,5	1,5	300
605.0152.22	24	6,5	1,5	300



Supports e clamps

Code	Description
263.8350.20	Support opening 130x280mm with one rod ØxH12x600 for 10 lt AT-M/AT-MD
263.8350.22	Support opening 180x460mm with one rod ØxH15x750 for 20 lt AT-M/AT-MD
263.8350.72	Support opening 230x600mm with three rods ØxH 15x1000mm
146.2900.41	Claw clamp with maximum Ø18mm for rods





Ideal for 4 micro-plates



Digital speed control



F320

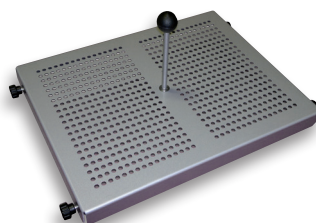
Technical data		F320
Orbit diameter	mm	3
Variable speed	rpm	300÷1600
Capacity		4
Number of plate positions		96
Test tubes of 1,5 ml		25
Timer	hh:min	99:59
Power	W	25
Dimensions LxWxH	mm	290x330x141
Weight	kg	6
Code		603.0130.50

V/Hz 220/240-50/60

SAFETY CLASS 0

PROTECTION CLASS IP 30

ACCESSORIES



Supporting plate without fixing clips

	LxP 280x220 mm
Code	603.0131.80

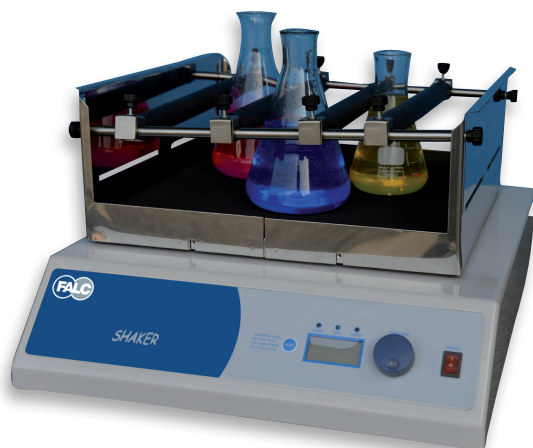


Fixing clips

Capacity ml	Code
100	603.0131.75
250	603.0131.76
500/1000	603.0131.77
2000	603.0131.78

SHAKERS

Reciprocating and orbital shakers



F340
F350
F355
F365



The movement is provided by a motor inductance (therefore maintenance-free), very quiet



The mail application allows you to maintain a constant speed set even with loads of different weight



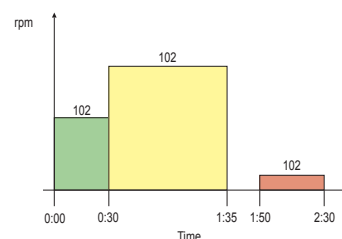
LCD display allows an excellent view and a speedy consultation



Programming options: you can store the instrument up to 6 programs with 10 steps each

SAMPLE PROGRAM

step	rpm	time
0	102	00:30
1	178	01:05
2	0	00:15
3	20	00:40



*Universal support is not included with instrument

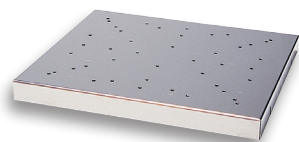
Technical data		F340	F350	F355	F365
Movement		reciprocating	orbital	reciprocating	orbital
Plate	mm	350x350	350x350	350x350	350x350
Orbit diameter	mm	10	10	25	25
Programs	n/step	6/10	6/10	6/10	6/10
Variable speed	rpm	10-300	10-300	10-300	10-300
Digital timer	hh:min	00:00 (∞) - 99:59	00:00 (∞) - 99:59	00:00 (∞) - 99:59	00:00 (∞) - 99:59
Maximum load	kg	10	10	10	10
Dimensions LxWxH	mm	410x490x140	410x490x140	410x490x140	410x490x140
Weight	kg	20,5	20,5	20,5	20,5
Code		603.0130.35	603.0130.30	603.0130.25	603.0130.20

V/Hz 220/240-50/60

SAFETY CLASS 0

PROTECTION CLASS IP 30

ACCESSORIES



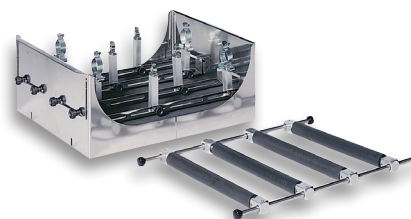
Supporting plate without fixing clips

Capacity ml	LxP 340x290 places n°	LXP 600x310 places n°
100	20	36
250	12	21
500	6	15
1000	4	8
2000	2	5
Code	603.0131.01	603.0131.02



Fixing clips

Capacity ml	Code
100	603.0131.75
250	603.0131.76
500/1000	603.0131.77
2000	603.0131.78



Universal support for containers

N. places	Funnels of ml
4	250
3	500
2	1000
Code	603.0131.00

Dimensions 340x290x110

The bars are adjustable in height and total length

SHAKING WATER BATHS

Dubnoff type shaking action

-  Ideal for temperature control of samples, incubations, cell cultivation, food and beverage testing
-  PID microprocessor control
PT 100 sensor
-  Case in stainless steel 18/8
Internal tank in a single block of stainless steel
-  Digital speed control
-  Safety thermostat with manual reset



WB-MF

Technical data		WB-MF
Capacity	lt	20
Shaking stroke	mm	15
Frequency shaking	Rpm	0-200
Heating power	W	2100
Precision	°C	±0.5
Temperature	amb.	da +5 a +200
External dimensions LxWxH	mm	670x400x290
Internal dimensions LxWxH	mm	440x240x200
Weight	kg	16
Code		610.1007.74

V/HZ 220/240-50/60

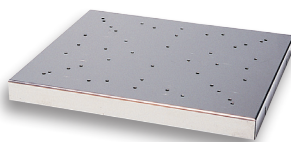
SAFETY CLASS 1

PROTECTION CLASS IP 42

ACCESSORIES



Polycarbonate gable lid
Code 610.1007.76



Supporting plate without clips
for flasks and beakers

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
Code	610.1007.83



Fixing clips for flasks and beakers

Capacity ml	Code
100	603.0131.75
250	603.0131.76
500/1000	603.0131.77
2000	603.0131.78



General purpose container
LxW 325x235x60 mm
Code 610.1007.81

TUBES STIRRERS

Rotator stirrer



F205

-  Ideal in laboratories for protocols preparations
-  Suitable for using with incubators, even refrigerated
-  Adjustable angle rotation
-  Digital speed control
Digital timer 0÷540 min or ∞
-  Anti-Clockwise movement and alternating with 5 different angles (MODEL F205 G)

*Rotating plate is not included with instrument

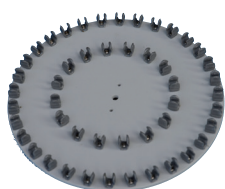
Technical data		F205	F205 G
Speed	rpm	tra 2 e 40	tra 2 e 40
Timer	min	0 ÷ 540 o ∞	0 ÷ 540 o ∞
Display		digital	digital
Rotation control		digital	digital
Working temperature	°C	from +4 to +60	from +4 to +60
Movement		clockwise	clockwise anti-clockwise adjustable angle rotation: 120° 180° 240° 300° 360°
Power	W	80	80
Dimensions LxWxH	mm	210 x270x240	210x270x240
Weight	kg	3,2	3,2
Code		603.0129.26	603.0129.28

V/HZ 220/240-50/60

SAFETY CLASS 0

PROTECTION CLASS IP 30

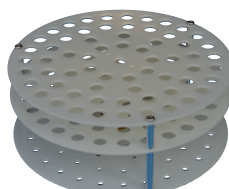
ACCESSORIES



Rotating plate tube holder

Code	n. tubes	for ml
603.0129.41	48	1,5 (Ø 10÷14)
603.0129.42	12	50 (Ø 21÷29)

Code	n. tubes	for ml
603.0129.43	20	15(Ø15÷20)



Rack tube holder for cell culture

Code	n. tube	Ø mm
603.0129.44	63	12
603.0129.45	63	16
603.0129.46	30	26

-  Touching mode or continuous mode
-  Adjustable rotation speed
-  Special rubber feet with shock-absorbent system
-  The mixer can be used for several kinds of tubes



MIX 20

Technical data		Mix
Rotary motion	mm	4
Capacity	ml	from 1.5 to 100
Variable speed	rpm	100-3000
Motor Power	W	30
Dimensions LxWxH	mm	145×175×140
Weight	Kg	1,9
Code		603.0129.02

V/HZ 220/240-50/60

SAFETY CLASS 0

PROTECTION CLASS IP 41

Touching mode



Continuous mode



Using Rubber platform mode (RP-70)



ACCESSORIES



Clamp
Code 603.0129.06



Spring
Code 603.0129.10



Rod
Code 601.0125.01

TUBES STIRRERS

Thermal mixing blocks



THERMO MIXER



It combines mixing and thermostating functions



Efficient and precise Mixing rotation.
5 interchangeable blocks

ACCESSORIES

Code	model	Blocks of
621.0625.43	c	96 places for 0,2 ml tubes
621.0625.44	b	54 places for 0,5 ml tubes
621.0625.45	a	40 places for 1,5 ml tubes
621.0625.46	h	40 places for 2,0 ml tubes
621.0625.47	d	24 places for tubes with ø of 15 mm
621.0625.53	e	Bowl LxPxH 115x73x38
621.0625.48	g	24 places for 1,5 ml tubes and 26 of 0,5 ml
621.0625.49	j	Elisa block for Mixer and Cell

Technical data

		Mix
Temperature range	°C	0 - 105
Temperature control from	°C	da -14 a 100
Rotary movement	mm	3
Heating Power	W	150
Timer	min	1min - 99h - 59min
Variable speed from	rpm	300 a 1.500
Temperature uniformity	°C	±0.5 / 0-60
Temperature accuracy	°C	0.5
Precision on display	°C	±0.5
From ambient temperature	min	100°C in 6 min
From ambient temperature	min	-10°C in 12 min
Dimensions LxWxH	mm	265 x 295 x 170
Weight	Kg	8.5

Code

621.0625.40

V/HZ 220/240-50/60

SAFETY CLASS 0

PROTECTION CLASS IP 40

Roller Stirrers



ROLLER



Provides a rocking and rolling motion to test tubes



Digital speed control with a resolution of 1 rpm



540 min digital timer



Audible and visual alarm for motor overload



It can be used with Bijoux, Universal containers, and bottles with diameters up to 135 mm

Technical data

		F406	F409
Speed	rpm	5-60	5-60
Power	W	50	50
Timer	min	540	540
Amplitude excursion	mm	16	16
Rollers	n	6	9
Maximum load	kg	10	10
Internal dimensions LxWxH	mm	340x30	340x30
External dimensions LxWxH	mm	565x240x110	565x360x110
Weight	kg	5,1	6,9
Item		603.0129.80	603.0129.82

V/HZ 220/240-50/60

SAFETY CLASS 0

PROTECTION CLASS IP 40



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