



LABORATORY
EQUIPMENT

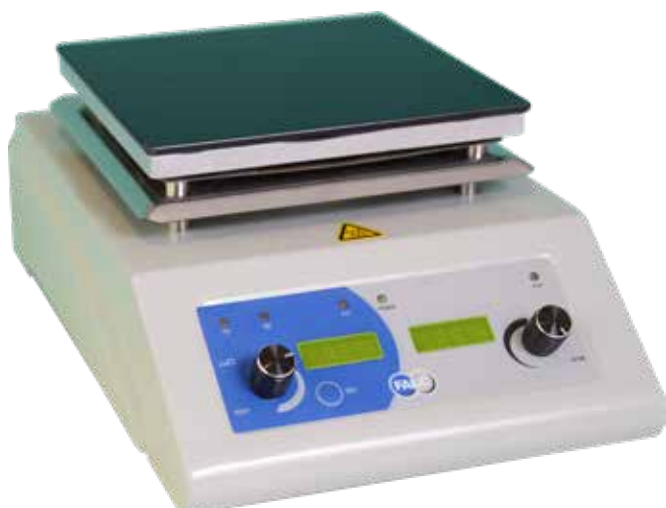
stirrers

WWW.FALCINSTRUMENTS.IT



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
 - 12 | Accessories
- 13 ■ **SHAKERS**
 - 13 | Mixing shakers for "micro plates"
 - 14 | Shakers with a maximum load of 2 kg
 - 15 | Shakers with a maximum load of 10 kg
- 16 ■ **SHAKING WATER BATHS**
 - | Dubnoff type shaking action
- 17 ■ **TUBES STIRRERS**
 - 17 | Rotator stirrer
 - 18 | Roller stirrers
 - 19 | Vortex mixer
 - 20 | Thermal mixing blocks



ELECTROMAGNETIC STIRRERS

Small volume magnetic stirrers without heating



F20



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 LxW	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

High volume magnetic stirrers without heating



F50K



F90K



Ideal during pre-production process and on a vast scale



Stainless steel plate and metal structure painted with anti-acid epoxy powder coating



Digital speed control
DC motor



Digital timer

Technical specifications

F50K

F90K

Stainless steel working surface LxW	mm	300x300	400x400
Max stirring capacity with H ₂ O	lt	50	90
Variable speed	Rpm	150-1500	150-1200
Timer		Up to 9 hours	Up to 9 hours
Max stirring bar lenght	mm	110	155
Stirring bar suggested		601.0125.71	601.0125.72
Motor power	W	15	20
Dimensions LxWxH	mm	300x410x70	400x510x110
Weight	kg	6	10

Code

601.0101.55

601.0101.56

V/HZ 110-230/50-60

SAFETY CLASS 0

PROTECTION CLASS IP 42

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 anticid



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 601.0125.10 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



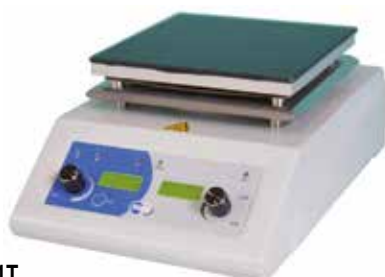
Digital temperature regulation
by PT100 probe



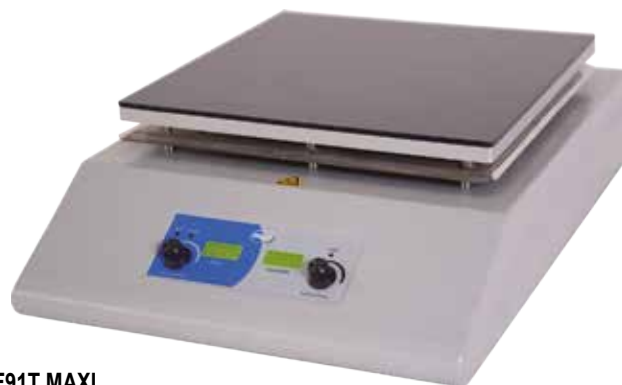
Metal structure painted
with anti-acid epoxy powder coating



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

ACCESSORIES

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

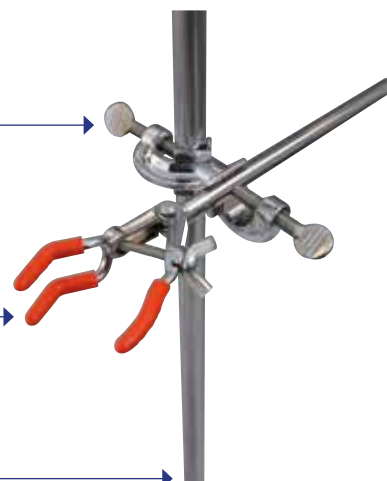
PROTECTION CLASS IP 32

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
601.0125.71	27	110
601.0125.72	27	155



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

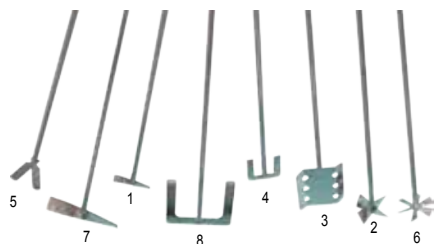
V/Hz 220/240-50/60

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



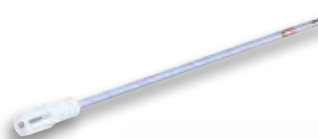
Stainless steel U-shaped stirrer shafts - PTFE

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



SHAKERS

Mixing shakers for “micro plates”



Ideal for 4 micro-plates



Digital speed control



F320

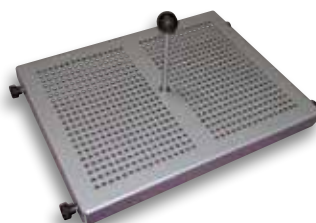
Technical data		F320
Orbit diameter	mm	3
Variable speed	rpm	300÷1600
Capacity		4
Number of plate positions		96
Test tubes of 1,5 ml		25
Timer	hh:min	99:59
Power	W	25
Dimensions LxWxH	mm	290x330x141
Weight	kg	6
Code		603.0130.50

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

Shakers with a maximum load of 2 kg



F310



Ideal for laboratories and research, used in biology, medicine and industry for high-precision scientific applications.



Digital timer hh:mm:ss or infinite



The applied electronics allow for maintaining a constant preset speed even with loads of varying weight.



LCD display allows an excellent view and a speedy consultation



Universal support included

Technical data

F310

Plate movement		Circular orbit
Plate dimensions	mm	250x250x50
Orbit diameter	mm	20
Speed range	rpm	40-200
Timer range		1 min - 23h 59min
Maximum load	kg	2
Power	W	30
Dimensions LxWxH	mm	355x260x135
Weight	kg	5
Code		603.0130.18

V/HZ100/240-50/60

SAFETY CLASS 0

PROTECTION CLASS IP 30

SHAKERS

Shakers with a maximum load of 10 kg



F340
F350
F355
F365



Ideal for laboratories and research, used in biology, medicine and industry for high-precision scientific applications.



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



Digital timer hh:mm:ss or infinite



The applied electronics allow for maintaining a constant preset speed even with loads of varying weight.



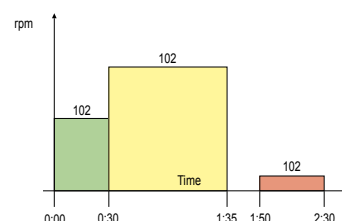
LCD display allows an excellent view and a speedy consultation



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

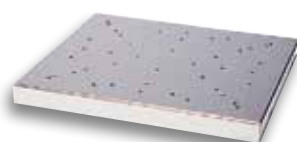
Technical data		F340	F350	F355	F365
Plate movement		reciprocating	orbital	reciprocating	orbital
Plate dimensions	mm	350x350	350x350	350x350	350x350
Orbit diameter	mm	10	10	25	25
Programs	n/step	6/10	6/10	6/10	6/10
Speed range	rpm	10-300	10-300	10-300	10-300
Timer range	hh:min	00:00 (∞) - 99:59	00:00 (∞) - 99:59	00:00 (∞) - 99:59	00:00 (∞) - 99:59
Maximum load	kg	10	10	10	10
Power	W	25	25	25	25
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



Fixing clips for flasks and beakers



General purpose container
LxW 325x235x60 mm
Code 610.1007.81

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

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

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

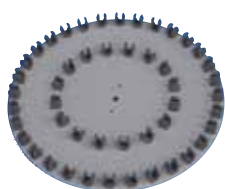
Technical data		F205	F205 G
Speed	rpm	tra 2 e 40	tra 2 e 40
Timer	min	0 ÷ 540 o ∞	0 ÷ 540 o ∞
Display		digital	digital
Rotation control		digital	digital
Working temperature	°C	from +4 to +60	from +4 to +60
Movement		clockwise	clockwise anti-clockwise adjustable angle rotation: 120° 180° 240° 300° 360°
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

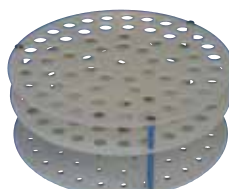
ACCESSORIES



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

TUBE STIRRERS

Roller stirrers



Ideal for molecular biology, virology, microbiology, for sample preparation, microscopy analysis, tissue processing and homogenization of blood and plasma



Rocking and rolling motion action for test tubes (Rocking/Rolling)



Digital speed control



Digital timer



F460 - F480

Dati tecnici		F460	F480
Number of PVC rollers		6	8
Maximum number of test tubes	ml	12 da 50 ml	12 da 50 ml
Maximum capacity	g	600	800
Control mode		digital	digital
Roller speed	rpm	20-80	20-80
Timer range		1 min - 23h 59min	1 min - 23h 59min
Power	W	25	25
Dimensions LxWxH	mm	430x320x100	440x255x105
Weight	kg	2,5	3
Code		603.0129.84	603.0129.85

V/HZ 110/240-50/60

SAFETY CLASS 0

PROTECTION CLASS IP 40

TUBES STIRRERS

Vortex mixer



MIX 20

-  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

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



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



THERMO MIXER

Technical data		Mix
Temperature range	°C	0 - 105
Temperature control from	°C	from -14 to 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

[illegible]

Notes

[illegible]

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