

# STIRRERS LINE

.....THE RESPONSE TO A MODERN LABORATORY NEEDS



# MAGNETIC STIRRERS

## WITHOUT HEATING

Falc electromagnetic stirrers without heating. Models F20 and F40 are entirely made of sheet metal coated with acid-resistant epoxy powder, model F30 is made of painted cast aluminium alloy.

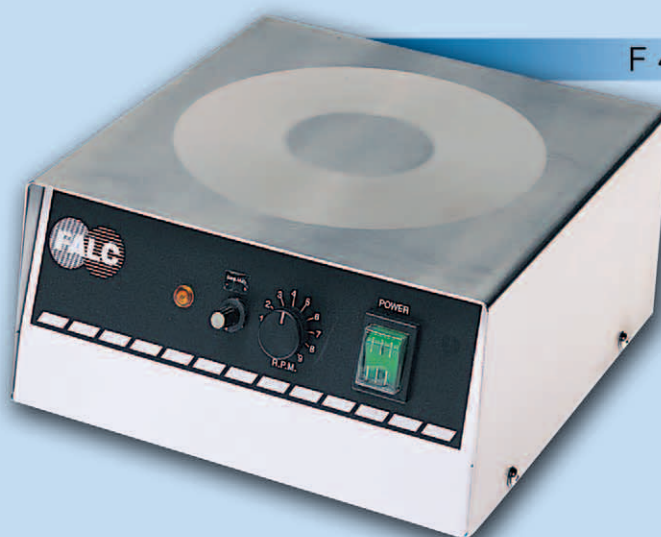
F 20 MINI



F 30



F 40 MAXI



Technical specification		F 20	F 30	F 40
Stainless steel working surface LxD	mm	110 x 110	Ø 140	260 x 260
Max stirring capacity with H <sub>2</sub> O	lt	0,800	20	40
Variable speed	Rpm	100 - 1100	100 -2500	100 -1400
Hole for rod	M 8	No	Yes	No
Power consumption	W	10	20	70
Dimensions LxWxH	mm	110 x 115 x 60	190 x 250 x 90	260 x 270 x 125
Weight	Kg	0,7	2,0	4,8
Item		601.0101.20	601.0101.30	601.0101.40

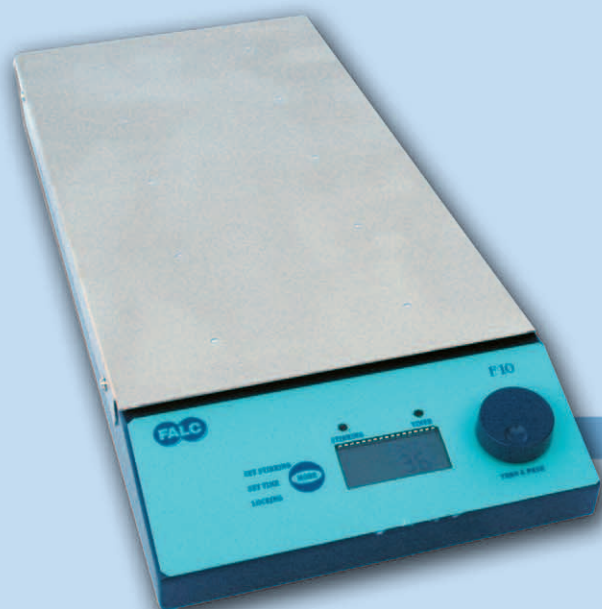
V/Hz  
230/50-60

SAFETY  
CLASS  
0

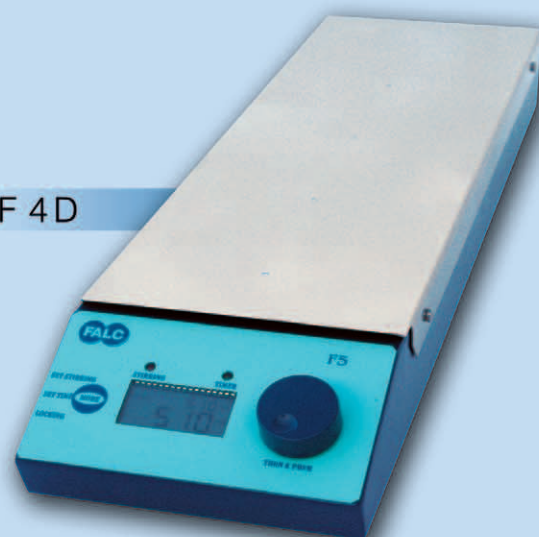
Stirring bar suggested: Ø 6x20 mm

## MULTIPLE

Falc electromagnetic stirrers with digital setting of speed and timer.



F 4 D



F 8 D



Technical specification		F 4 D	F 8 D
Stainless steel working surface LxD	mm	145 x 530	190 x 530
Distance from stirring points	mm	100	100
Max stirring capacity with H <sub>2</sub> O	lt	1x4	1x8
Variable speed on all position	Rpm	80 - 1200	80 - 1200
Power consumption	W 25	Supplied W 9	Supplied W 9
Dimensions LxWxH	mm	145 x 530 x 63	190 x 530 x 63
Weight	kg	2,0	4,0
Item		601.0101.44	601.0101.49

V/Hz  
230/50-60

Stirring bar suggested: Ø 6x20 mm

Cylindrical magnetic stirring bars  
PTFE coated



Item	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

Cylindrical magnetic stirring bars  
with ring - PTFE coated



Item	Ø mm	Length mm
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



# MAGNETIC STIRRERS

## WITH HEATING

- F60 model without thermometer connector
- F70 model with connector for coupling digital thermometer
- F80 model with built-in digital thermometer and PT100 probe for which provide more accurate temperature and on the back it is mounted a jack plug switch for connecting the external PT 100 probe.
- F100 model for large capacities made of stainless steel coated and timer

Cast aluminium alloy structure oven coated with acid resistant epoxy paint.

The stirring group is composed of a electronic system for a better regulation of the runs.

The heating plate completely in aluminium guarantees a better heat diffusion.

**N.B. The maximum indicated temperatures refer to the plate**



F 60



F 70



F 80 DIGITALE



F 100 MAXI

Technical specification		F 60	F 70	F 80	F 100 MAXI
Working plate Ø	mm	150	150	150	210
Max stirring capacity with H <sub>2</sub> O	lt	20	20	20	30
Variable speed	Rpm	100 - 1800	100 - 1800	100 - 1800	100 - 1400
Hole for rod	M 8	Yes	Yes	Yes	Yes
Thermometer connector		No	Yes	Yes	No
Plate temperature from	°C	+ 50 to +350	+ 50 to +350	+ 50 to + 350	+ 50 to + 350
Precision on the plate	°C	± 3	± 3	± 3	± 3
Precision with probe inserted	°C	-	± 2	± 1	-
Power consumption	W	20	20	20	70
Heating resistance power	W	400	400	400	650
Dimensions LxWxH	mm	190 x 250 x 115	190 x 245 x 115	190 x 245 x 115	360 x 270 x 150
Weight	Kg	2,5	2,5	2,5	7,5
Item		<b>601.0122.60</b>	<b>601.0122.70</b>	<b>601.0122.80</b>	<b>601.0122.99</b>

V/Hz  
230/50-60

PROTECTION  
RATING  
IP 41

Stirring bar suggested: Ø 6x30 mm (F60/F70/F80). F100 Ø 9x60 mm

## CERAMIC-GLASS PLATE

Ceramic-glass plate prevents corrosive agents and acids from attacking this stirrer.

		F 90	F 90 T
Working plate dimension	mm	250 x 250	250 x 250
Heating surface Ø	mm	150	150
Max stirring capacity with H <sub>2</sub> O	lt	15	15
Variable speed	Rpm	100 - 2500	100 - 2500
Hole for rod		No	Yes
Thermometer connector		No	Yes
Plate temperature from	°C	+50 to +600	+50 to +600
Precision on the plate	°C	± 5	± 5
Power consumption	W	20	20
Heating resistance power	W	700	700
Dimensions LxWxH	mm	250 x 305 x 110	250 x 305 x 110
Weight	Kg	5,7	5,7
Item		<b>601.0122.90</b>	<b>601.0122.92</b>

V/Hz 230/50-60	SAFETY CLASS 0	PROTECTION RATING IP 42
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## MULTIPLE

4 independent aluminium plates

		F64
Working plate Ø	mm	150 x 4
Max stirring capacity with H <sub>2</sub> O	lt	6 x 4 Position
Variable speed	Rpm	100 - 1800
Hole for rod	M8	Yes
Plate temperature from	°C	+50 to + 350
Precision on the plate	°C	± 3
Power consumption	W	20 x 4
Heating resistance power	W	400 x 4
Dimensions LxWxH	mm	715 x 255 x 125
Weight	kg	9
Item		<b>601.0122.95</b>

V/Hz 230/50-60	SAFETY CLASS 0	PROTECTION RATING IP 32
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Stirring bar suggested: Ø 6x30 mm

## ACCESSORIES FOR F70 - F90 T - F80

F70 - F90 T	Item
M 8 steel threaded rod Ø 10x400 mm	<b>601.0125.01</b>
Probe holding clip	<b>180.4702.70</b>
Digital thermometer	<b>601.0125.03</b>
Digital thermometer cable	<b>601.0125.04</b>
PT 100 steel Ø 6x230 mm probe	<b>601.0125.05</b>

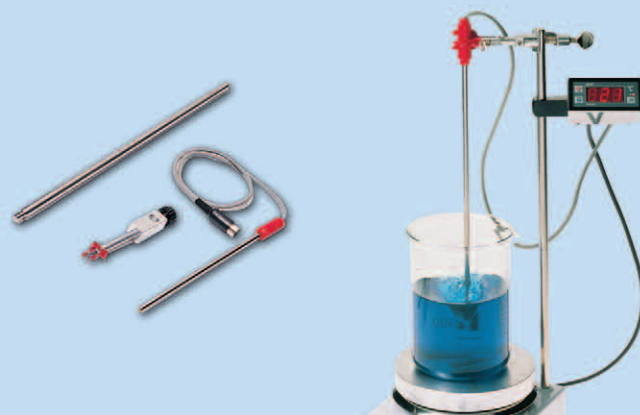
F80	Item
M 8 steel threaded rod Ø 10x400 mm	<b>601.0125.01</b>
Probe holding clamp	<b>180.4304.42</b>
Steel PT 100 probe Ø 6x230 mm	<b>601.0125.06</b>



F 90



F 90 T





# MECHANICAL ROD STIRRERS

## AT SERIES

Rod stirrers with continuous regulation of speed.  
Suitable for routine and continuous jobs. Internal motor predisposed against over temperatures.



AT - ANALOGICAL

AT - SEPARATE  
DIGITAL CONTROL



AT - DIGITAL

Technical data		AT-M 10	AT-M 20	AT-MD 10	AT-MD 20	AT-MCD 10
Set lecture values		Analogical	Analogical	Digital	Digital	Digital
Variable speed	Rpm	200 - 3000	200 -3000	200 - 3000	200 - 3000	200 - 3000
Max. couple torsion spindle	Ncm	85	145	85	145	30
Max Ø probe insertion	mm	10	10	10	10	10
Max stirring capacity with H <sub>2</sub> O	lt	10	20	10	20	10
Max Viscosity	mPas	10000	50000	10000	50000	10000
Absorbed power	W 83/120	Supplied W 75	Supplied W 120	Supplied W 75	Supplied W 120	Supplied W 30
Dimensions LxWxH	mm	90x145x180	90x145x180	90x145x180	90x145x180	90x100x180
Weight	Kg	4,5	5,3	4,5	5,0	3,5
Item		<b>605.0150.10</b>	<b>605.0150.12</b>	<b>605.0150.18</b>	<b>605.0150.20</b>	<b>605.0150.15</b>

V/Hz  
230/50-60

SAFETY  
CLASS  
0

PROTECTION  
RATING  
IP 43

WHIT  
CAP

PROTECTION  
RATING  
IP 40

WHITOUT  
CAP

# ACCESSORIES FOR AT

## Stainless steel stirring rods



Item	Photo n°	Rotor mm Length x H mm	Ø Rod mm	Overall length mm
605.0152.02	1	50 x 10	7	300
605.0152.03	2	50 x 20	7	300
605.0152.04	3	70 x 50	7	300
605.0152.05	4	45 x 40	8	350
605.0152.06	5	100 x 10	7	300
605.0152.07	1	100 x 20	7	300
605.0152.08	6	50	7	300
605.0152.10	4	90 x 80	8	350

## Stainless steel stirrer shafts – PTFE coated

Item	Rotor mm Length x H mm	Ø Rod mm	PTFE Thickness mm	Overall length mm
605.0152.12	90 x 20	6,5	1,5	450
605.0152.13	90 x 20	6,5	1,5	600



## Stainless steel stirrer shafts with rigid paddle – PTFE coated

Item	Rotor mm Length x H mm	Ø Rod mm	PTFE Thickness mm	Overall length mm
605.0152.15	80 x 12	6,5	1,5	450
605.0152.16	80 x 12	6,5	1,5	600

## Stainless steel U-shaped stirrer shafts – PTFE coated

Item	Rotor mm Length x H mm	Ø Rod mm	PTFE Thickness mm	Overall length mm
605.0152.17	60 x 40	6,5	1,5	350
605.0152.18	60 x 40	6,5	1,5	450
605.0152.19	80 x 50	6,5	1,5	450

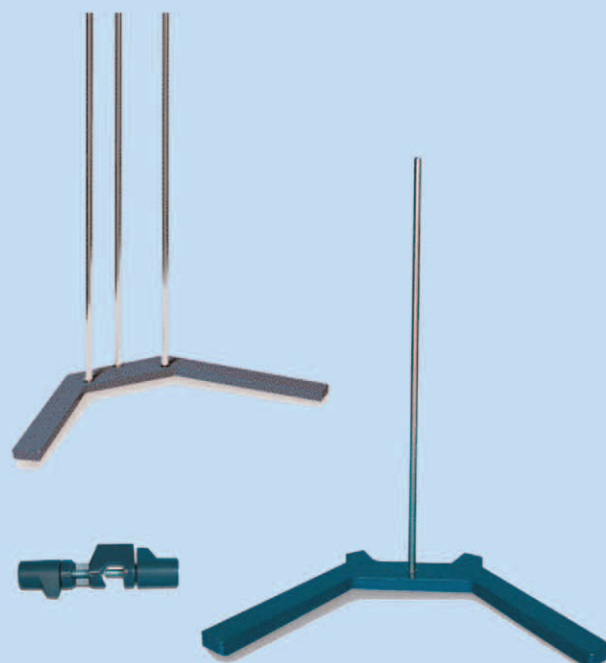


## Stainless steel fan shaped stirrer shafts – PTFE coated

Item	Rotor mm Length x H mm	Ø Rod mm	PTFE Thickness mm	Overall length mm
605.0152.23	38	6,5	1,5	300
605.0152.22	24	6,5	1,5	300

## Support e Clamp

ACCESORIES	
Support opening 130 x 280 mm with one rod Ø x H 12x 600 mm	
<b>Item</b>	<b>263.8350.20</b>
Support opening 180 x 460 mm with one rod Ø x H 12 x 800 mm	
<b>Item</b>	<b>263.8350.22</b>
Support opening 230 x 600 with three rods Ø x H 15 x 1000 mm	
<b>Item</b>	<b>263.8350.72</b>
Claw clamp with maximum opening Ø 18mm for rods	
<b>Item</b>	<b>146.2900.41</b>







INSTRUMENTS



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