



Thermo Scientific Variomag Magnetic Stirrers

Wear-free operation for peace of mind

Reliability, safety and performance
for stirring applications

Thermo Scientific Variomag Stirrers Perform in Extraordinary Environments



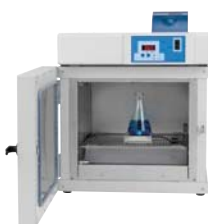
Stir Tiny Cuvettes
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Submersible in 95°C Bath
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Submersible in 50°C Bath
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Used in General
Purpose Incubator
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Built-in Controller Convenience
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Stir 60 Positions Simultaneously
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Used in CO₂ Incubator
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Used in Sterilizers
at 121°C 2 bar Pressure
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Stir 600 L Carboys
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Reliable, No-Compromise Stirring Performance

Thermo Scientific Variomag magnetic stirrers are designed to provide unmatched reliability, safety and performance.

Renowned for their outstanding quality and durability, Thermo Scientific Variomag stirrers are available in a range of sizes, with drive systems to match the application or process need.

Powerful magnetic couplings ensure precise, reproducible stirring performance for both general and specialty applications.

Variomag® stirrers are available with convenient built-in controllers or with versatile external controllers. All offer safe,

low voltage operation. Many models feature hermetically-sealed drive housings that allow operation in challenging laboratory environments and facilitate cleaning.

Units with adjustable power settings, allow users to adjust the power to the lowest level necessary to maintain the desired speed, resulting in an environmentally friendly solution that decreases power consumption and lowers heat output.



Variomag Magnetic Stirrers – Safe, Dependable Operation

Maintenance-free, inductive-drive stirrers

Inductive-drive stirrers operate without moving parts, making them uniquely wear-free and maintenance-free.

- Hermetically-sealed drives for safe operation in demanding environments, easier cleaning and contamination prevention
- Single-point and multi-point stirring configurations



Variomag Multipoint 15

Inductive-drive stirrers
Pages 2 to 9

Heat-free operation for valuable cell and tissue cultures

Stepper-drive stirrers offer heatless operation and slow mixing speeds to protect valuable cell and tissue cultures from damage.

- Sealed stainless steel housings for safe operation under high humidity conditions and impermeability to microorganisms
- Single-point and multi-point stirring configurations



Variomag Biosystem 4

Stepper-drive stirrer
Page 10

Power for the largest volumes

Disc motor-drive stirrers provide the power to mix media volumes up to 600 L, or stir highly viscous liquids.

- Sealed stainless steel housings for safe operation under high humidity conditions
- Ideally suited for system integration with process equipment



Variomag Mobil Direct

Disc motor-drive stirrers
Pages 11 to 13

Thermo Scientific Variomag Mini Stirrers

Mini stirrers are designed to work in the tiniest of places

- No larger than a thumbnail, perfect for stirring cuvettes
- Stir speeds up to 1400 rpm
- Stir volumes up to 5 mL
- Choose from two different control units (your choice included)



Variomag Mini

Model	Part Number	Voltage/Plug Type	Speed (rpm)	Protection Class	Power Settings (W)	Dimensions WxDxH (mm)	Weight (kg)
Mini w/ Telemodul	50088130	230 V Euro	130-1000	IP68 (stirrer only)	0.1	12 x 12 x 5	0.02
Mini w/ Telemodul	50088132	230 V UK	130-1000	IP68 (stirrer only)	0.1	12 x 12 x 5	0.02
Mini w/ Telemodul	50088126	100 V Japan	130-1000	IP68 (stirrer only)	0.1	12 x 12 x 5	0.02
Mini w/ Telemodul	50088118	115 V USA	130-1000	IP68 (stirrer only)	0.1	12 x 12 x 5	0.02
Mini w/ Telemodul 20 C	50088120	100-240 V	130-1400	IP68 (stirrer only)	0.5/0.1/0.15/0.2	12 x 12 x 5	0.02

Operating conditions are -10 to +56°C at 95% rH
100-240 V units contain a cord set with various plugs

Optional Accessories

- Mini stirrer without controller 50088140
- 4-place distributor 50091720
- 8-place distributor 50091721

LINK & SYNC

See page 8.

Controller Choices

The Variomag Micro and Mini series stirrers come standard with your choice of controller. Choose the standard Telemodul controller with its space saving design or the Telemodul 20 C with microprocessor controls, adjustable power setting and programmability. Detailed specifications can be found on page 9.



Standard Telemodul Controller

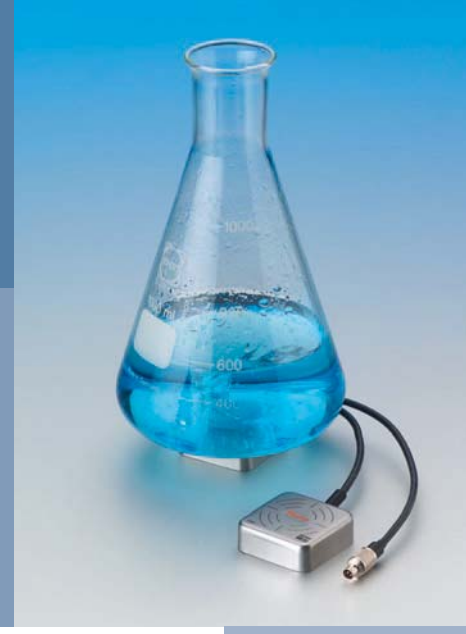


Programmable Telemodul 20 C

Thermo Scientific Variomag Micro Stirrers

Hermetically sealed IP68 protection class stirrers can be submerged in water

- Hermetically sealed housing resists dust and microorganisms
- Suitable for use in high humidity conditions, and can be fully submerged in water baths up to 95°C
- Up to eight stirrers can be controlled with a single controller
- Stainless steel housing has excellent chemical resistance
- Stir speeds up to 1400 rpm
- Stir volumes up to 1 L
- Choose from two different control units (your choice included)



Variomag Micro

Model	Part Number	Voltage/Plug Type	Speed (rpm)	Protection Class	Power Settings (W)	Dimensions WxDxH (mm)	Weight (kg)
Micro w/ Telemodul	50088162	230 V Euro	130-1000	IP68 (stirrer only)	3	48 x 48 x 15	0.2
Micro w/ Telemodul	50088151	230 V UK	130-1000	IP68 (stirrer only)	3	48 x 48 x 15	0.2
Micro w/ Telemodul	50088155	230 V Australia	130-1000	IP68 (stirrer only)	3	48 x 48 x 15	0.2
Micro w/ Telemodul	50088150	115 V USA	130-1000	IP68 (stirrer only)	3	48 x 48 x 15	0.2
Micro w/ Telemodul	50088149	100 V Japan	130-1000	IP68 (stirrer only)	3	48 x 48 x 15	0.2
Micro w/ Telemodul 20 C	50088148	100-240 V	130-1400	IP68 (stirrer only)	2/4/6/8	48 x 48 x 15	0.2

Operating conditions are -10 to 120°C at 95% rH or 0-95°C submerged in water
100-240 V units contain a cord set with various plugs

Optional Accessories

- Micro stirrer without controller 50088139
- 4-place distributor 50091720
- 8-place distributor 50091721

LINK & SYNC

See page 8.

Thermo Scientific Variomag Mono Direct and Maxi Direct Stirrers

Space saving, general purpose stirrers that are 100% maintenance and wear-free

With powerful magnets and no moving parts, these inductive-drive stirrers are the perfect choice for your general lab needs.

- Large, flat, easy to clean work surfaces
- Compact space saving design
- Gradual start acceleration is gentle and ensures optimum magnetic coupling
- Adjustable power settings are separate from the speed control
 - Decreases power consumption
 - Lowers heat output



Variomag Maxi Direct

Variomag Mono Direct Stirrer

- Easy-to-use rotary knob design
- Rugged powder coated stainless steel housing
- Stir speeds up to 1000 rpm
- Stir volumes up to 3 L

Variomag Maxi Direct Digital Stirrer

- IP64 protection rated; easily cleaned with running water
- Precise microprocessor control with bright digital display
- Easy to clean, chemical resistant, sealed stainless steel housing
- Easily recall last used settings
- Smooth and even stirring as low as 80 rpm
- Stir speeds up to 2000 rpm
- Stirring volumes up to 5 L

Model	Part Number	Voltage/Plug Type	Speed (rpm)	Protection Class	Power Settings (W)	Dimensions WxDxH (mm)	Weight (kg)
Mono Direct	50094711	230 V Euro	130-1200	IP32	1/5	180 x 215 x 35	1.4
Mono Direct	50096203	230 V UK	130-1200	IP32	1/5	180 x 215 x 35	1.4
Mono Direct	50097289	230 V Australia	130-1200	IP32	1/5	180 x 215 x 35	1.4
Mono Direct	50095601	115 V USA	130-1200	IP32	1/5	180 x 215 x 35	1.4
Mono Direct	50095921	100 V Japan	130-1200	IP32	1/5	180 x 215 x 35	1.4
Maxi Direct	50094713	100-240 V	80-2000	IP64	5/10/15/20	180 x 215 x 35	2.5

Operating conditions are -10 to +40°C at 95% rH
100-240 V units contain a cord set with various plugs



Variomag Mono Direct

Thermo Scientific Variomag Compact and Maxi Stirrers

100% maintenance and wear-free, hermetically sealed units designed for challenging stirring environments

With powerful magnets and no moving parts, these inductive-drive stirrers are designed to go into water baths and incubators.

- Outstanding mechanical, physical, thermal and chemical resistance
- Large, flat, easy to clean work surfaces
- Hermetically sealed housing resists dust and micro-organisms
- Easy to clean, chemical resistant stainless steel housing
- All models submersible for use in water baths up to 50°C
- Choose from three different control units (your choice included)



Variomag Maxi with Telemodul 20 C

Variomag Maxi Stirrer with External Control

- IP68 protection rated
- Stir speeds up to 2000 rpm
- Stir volumes up to 5 L
- Available with Telemodul 40 C for data transfer and PC control
- Adjustable power settings available on the Telemodul 20 C and Telemodul 40 C
 - Decreases power consumption
 - Lowers heat output

Variomag Compact Stirrer with External Control

- IP68 protection rated
- Stir speeds up to 1400 rpm
- Stirring volumes up to 1.5 L
- Adjustable power settings available on the Telemodul 20 C
 - Decreases power consumption
 - Lowers heat output

Optional Accessories

- Compact stirrer without controller 50088137
- Maxi stirrer without controllers 50088127
- 4-place distributor 50091720
- 8-place distributor 50091721

LINK & SYNC
See page 8.

Model	Part Number	Voltage/Plug Type	Speed (rpm)	Protection Class	Power Settings (W)	Dimensions WxDxH (mm)	Weight (kg)
Maxi w/ Telemodul	50088143	230 V Euro	130-1000	IP68	6	180 x 180 x 35	2.3
Maxi w/ Telemodul	50088145	230 V UK	130-1000	IP68	6	180 x 180 x 35	2.3
Maxi w/ Telemodul	50088147	115 V USA	130-1000	IP68	6	180 x 180 x 35	2.3
Maxi w/ Telemodul	50088146	100 V Japan	130-1000	IP68	6	180 x 180 x 35	2.3
Maxi w/ Telemodul 20 C	50088135	100-240 V	130-1400	IP68	4.5/9/13.5/18	180 x 180 x 35	2.3
Maxi w/ Telemodul 40 C	50088122	100-240 V	100-2000	IP68	3/36	180 x 180 x 35	2.3
Compact w/ Telemodul	50088152	230 V Euro	130-1000	IP68	5	120 x 120 x 35	1
Compact w/ Telemodul	50088153	230 V UK	130-1000	IP68	5	120 x 120 x 35	1
Compact w/ Telemodul	50094111	230 V Australia	130-1000	IP68	5	120 x 120 x 35	1
Compact w/ Telemodul	50088142	115 V USA	130-1000	IP68	5	120 x 120 x 35	1
Compact w/ Telemodul	50088154	100 V Japan	130-1000	IP68	5	120 x 120 x 35	1
Compact w/ Telemodul 20 C	50088133	100-240 V	130-1400	IP68	3/6/9/12	120 x 120 x 35	1

Operating conditions are -10 to +56°C in air; 0 to 50°C submerged in water
100-240 V units contain a cord set with various plugs

Controller Choices

The Variomag Maxi and Compact series stirrers come standard with your choice of controller. Choose the standard Telemodul controller with its space saving design, the Telemodul 20 C with microprocessor controls, adjustable power setting and programmability or the Telemodul 40 C with higher speeds, more power settings and PC control. Detailed specifications can be found on page 9.



Standard Telemodul Controller



Programmable Telemodul 20 C



Programmable Telemodul 40 C

Thermo Scientific Variomag Poly 15 and Multipoint Stirrers

100% maintenance and wear-free stirrers available in platforms with up to 15 positions

These Variomag inductive drive stirrers offer our renowned maintenance and wear-free features in a fully synchronized multipoint platform.

- Ideal for mass screening applications and other applications requiring multiple stirring points
- Large, flat, easy to clean work surfaces
- Gradual start acceleration is gentle and ensures good magnetic coupling
- Inductive-drive ensures completely synchronized stirring at all positions



Variomag Multipoint 15

Variomag Poly 15 Multipoint Stirrer

- Precise microprocessor control with bright digital display
- Easily recall last used settings
- Rugged powder coated stainless steel housing
- Stir speeds up to 990 rpm
- Suitable for 15 x 250 mL beakers or 6 x 1 L flasks

Variomag Advanced Multipoint 6/15 Stirrer

- P64 protection rated; easily cleaned with running water
- Precise microprocessor control with bright digital display
- Easy to clean, chemical resistant, sealed stainless steel housing
- Easily recall last used settings
- Adjustable power settings are separate from the speed control
 - Decreases power consumption
 - Lowers heat output
- Smooth and even stirring as low as 80 rpm
- Stir speeds up to 2000 rpm
- Stirring volumes up to 3 L per multipoint

Model	Stir Positions	Part Number	Voltage/Plug Type	Speed (rpm)	Protection Class	Power Settings (W)	Dimensions WxDxH (mm)	Weight (kg)
Poly 15	15	50094596	100-240 V	130-990	IP32	10	240 x 420 x 35	6
Multipoint 6	6	50093557	100-240 V	80-2000	IP64	5/10/15/20	240 x 420 x 35	7.5
Multipoint 15	15	50093538	100-240 V	80-2000	IP64	5/10/15/20	240 x 420 x 35	7.5

Operating conditions are -10 to +40°C at 95% rH
100-240 V units contain a cord set with various plugs

Thermo Scientific Variomag Telesystems

Designed for use with aggressive media, in high humidity environments, our Telesystems are perfect for integration with incubators and controlled climate chambers

- 100% maintenance and wear-free inductive drives
- All models submersible for use in water baths up to 50°C
- Inductive-drive ensures completely synchronized stirring at all positions
- Choose from 6, 15 or 60 position stirrers
- Choose from two external controllers with adjustable power settings (your choice included)
 - Decreases power consumption
 - Lowers heat output
- Available with Telemodul 40 C for data transfer and PC control



Variomag Telesystem 15

Telesystem Multipoint Stirrer with External Control

- IP68 protection rated; easily cleaned with running water
- Chemical resistant, sealed stainless steel housing
- Easily recall last used settings
- Adjustable power settings are separate from the speed control
 - Decreases power consumption
 - Lowers heat output
- Smooth and even stirring as low as 100 rpm
- Stir speeds up to 2000 rpm
- Stirring volumes up to 2 L per multipoint

Model	Part Number	Voltage/Plug Type	Speed (rpm)	Protection Class	Power Settings (W)	Dimensions WxDxH (mm)	Weight (kg)	Stir Volume per point (ml)
Telesystem 6 Position w/ Telemodul 20 C	50088077	100-240 V	130-1400	IP68	5/10/15/20	240 x 420 x 35	7.5	1-1500
Telesystem 6 Position w/ Telemodul 40 C	50088078	100-240 V	100-2000	IP68	4-40	240 x 420 x 35	8	1-2000
Telesystem 15 Position w/ Telemodul 20 C	50088034	100-240 V	130-1400	IP68	5/10/15/20	240 x 420 x 35	7.5	1-1000
Telesystem 15 Position w/ Telemodul 40 C	50088036	100-240 V	100-2000	IP68	4-40	240 x 420 x 35	8	1-1200
Telesystem 60 Position w/ Telemodul 20 C	50088009	100-240 V	130-1400	IP68	5/10/15/20	240 x 420 x 35	7.5	0.1-50
Telesystem 60 Position w/ Telemodul 40 C	50088011	100-240 V	100-2000	IP68	4-40	240 x 420 x 35	8	0.1-100

Operating conditions are -10 to 56°C at 100% rH in air; 0-50°C submerged in water
100-240 V units contain a cord set with various plugs

Controller Choices

The Telesystem multipoint stirrers come standard with your choice of controller. Choose the Telemodul 20 C with microprocessor controls, adjustable power setting, and programmability or the Telemodul 40 C with higher speeds, more power settings, and PC control. Detailed specifications can be found on page 9.



**Programmable
Telemodul 20 C**



**Programmable
Telemodul 40 C**

Thermo Scientific Distributors, Mounts, Racks, Thermostats and Extension Cables

For Mini, Micro, Compact and Maxi Series Stirrers

Benchtop Distributors (Link & Sync)

Benchtop distributors ensure identical operating conditions for multiple stirrer installations.

- Simultaneous control of 2, 4, 6 or 8 Mini, Micro or Compact series stirrers using a single Telemodul 20 C or Telemodul 40 C external controller
- Simultaneous control of 2 or 4 Maxi series stirrers using a single Telemodul 20 C or Telemodul 40 C external controller
- Even power distribution for synchronized stirring



Model	Part Number
4-Place Distributor	50091720
8-Place Distributor	50091721

For Telesystem Series Stirrers

Bath Mounts

Model	Part Number	Bath Volume (L)	Operating Temp. (°C)	Dimensions WxDxH (mm)
Transparent Acrylic Bath Mount	50087880	15	0 to +60	330 x 610 x 185
Stainless Steel Bath Mount	50087882	15	-10 to +200	315 x 520 x 160



Test Tube Racks

Stainless steel test tube racks ensure that test tubes are precisely centered over stirring points.

Model	Part Number
Rack for 20 mm Ø Tubes	50087960
Rack for 16 mm Ø Tubes	50087955



Thermostats

Our thermostats are equipped with a circulation pump and digital temperature display.

Model	Part Number
Thermostat 60°C, 230 V	50087884
Thermostat 95°C, 230 V	50087875
Thermostat 60°C, 115 V	50087876
Thermostat 95°C, 115 V	50087867



Extension Cables

Model	Part Number	Dimensions L (m)	Controller Compatibility
4-Pin Extension Cable	50088016	3	Telemodul 20 C, 40 C & 10 M
6-Pin Extension Cable	50088021	3	Biomodul 40 B
8-Pin Extension Cable	50088102	3	Telemodul 40 M & 80 M

Thermo Scientific Controllers for Inductive Drive Stirrers

Stirrers are included with the Micro, Mini (pages 2 to 3), Compact, Maxi (page 5) and Telesystems (page 7)



Standard Telemodul

The space-saving Telemodul controller provides stirring power for small to medium volumes of low-viscosity fluids.

Recommended for single point stirring up to 250 mL.



Telemodul 20 C

The versatile Telemodul 20 C controller features user-friendly, menu-driven microprocessor controls.

- Single handed operation with straightforward turn and press adjustment wheel
- Three individual program store and recall keys for rapid start up
- Last used settings stored in memory
- Rocking/shake mode reverses stir bar direction for a gentle back and forth stirring motion
- Four power settings to decrease power consumption and lower heat output



Telemodul 40 C

The Telemodul 40 C controller offers all the functionality of the Telemodul 20 C controller. Additional features include:

- Power output booster to 40 W for more demanding stirring tasks
- 10 power settings to decrease power consumption and lower heat output
- RS-232 interface for data transfer and PC control

Telemodul External Control Units

Description	Telemodul	Telemodul 20 C	Telemodul 40 C
Speed Control Range (rpm)	130-1000	130-1400	100-2000
Speed Control Accuracy (%)	±3	±1	±1
Rated Power (W)	7	20	40
Stirring Power Relative to Rated Power (%)	100	25/50/75/100 (4 Levels)	10-100 (10 Levels)
Starting Times	–	5 s to 60 min	5 s to 60 min
Pause Times	–	5 s to 60 min	5 s to 60 min
Starting Times	–	–	–
Output Voltage (VDC)	12	20	36
Supply Voltage (VAC)	115 or 230	100-240	100-240
Ambient Temperature Range (°C)	0 to +40 @ 80% rH	0 to +40 @ 80% rH	0 to +40 @ 80% rH
Dimensions WxDxH (mm)	63 x 96 x 50	155 x 165 x 95	155 x 165 x 95
Weight (kg)	0.4	0.6	0.7

Thermo Scientific Variomag Biosystem Stirrers for Cell Culture

Gentle stirring and low heat output protect sensitive cell cultures. Stir microcarrier cultures, culture broths and cell suspensions inside your CO₂ incubator.

- Hermetical sealed housing resists microorganisms
 - Separate external controller ensures that only the hermetically sealed stirrer is exposed to the CO₂ environment
- Heatless operation
 - Protects thermal sensitive cell culture
 - Will not compromise the incubator chamber conditions
- Stainless steel housing is easy to clean, and resists aggressive media
- Gradual low-shear acceleration on start up
- Controller has adjustable power settings
 - Decreases power consumption
 - Lowers heat output
- Smooth and even stirring as low as 5 rpm
- Single position stirrers have the power to stir up to 20 L
- Four-position stirrers can stir up to 5 L per position

Required: Biomodul 40 B control unit

Controller has high visibility display, adjustable stirring and pause times with rotation sense inversion.

Enables synchronized operation of two Biosystem stirrers.

- 50118915 – 230 V Germany
- 50118918 – 230 V UK
- 50118921 – 230 V China
- 50118916 – 230 V Italy
- 50118919 – 230 V Switzerland
- 50087904 – 115 V US
- 50118917 – 230 V Denmark
- 50118920 – 230 V Australia



Model	Part Number	Voltage/Plug Type	Speed (rpm)	Protection Class	Power Settings (W)	Dimensions WxDxH (mm)	Weight (kg)
Biosystem w/o Controller	50119113	n/a	5-120	IP68	0.4-4	180 x 180 x 60	3.4
Biosystem 4 Position w/o Controller	50119114	n/a	5-120	IP68	0.4-4	330 x 330 x 60	9.4

Operating conditions are -10 to +56°C at 100% rH

Thermo Scientific Variomag Biosystem Direct Stirrers for Cell Culture

- Can be used for gentle stirring outside of a CO₂ incubator
- Built-in controller
- Heatless operation
 - Protects heat sensitive cell culture
- Stainless steel housing is easy to clean, and resists aggressive media
- Gradual low-shear acceleration on start up
- Smooth and even stirring as low as 5 rpm
- Single position stirrers can stir up to 5 L
- Four-position stirrers can stir up to 2 L per position



Variomag Biosystem Direct

Model	Part Number	Voltage/Plug Type	Speed (rpm)	Protection Class	Power Settings (W)	Dimensions WxDxH (mm)	Weight (kg)
Variomag Biosystem Direct	50088071	230 V Euro	5-120	IP64	1	180 x 180 x 60	3.4
Variomag Biosystem Direct	50088057	230 V UK	5-120	IP64	1	180 x 180 x 60	3.4
Variomag Biosystem Direct	50088064	230 V Australia	5-120	IP64	1	180 x 180 x 60	3.4
Variomag Biosystem Direct	50088058	115 V USA	5-120	IP64	1	180 x 180 x 60	3.4
Variomag Biosystem Direct	50101524	100 V Japan	5-120	IP64	1	180 x 180 x 60	3.4
Variomag Biosystem 4 Direct	50088061	100-240 V	5-120	IP64	0.05 (x4)	330 x 330 x 60	11

Operating conditions are -10 to +40°C at 95% rH
100-240 V units contain a cord set with various plugs

Thermo Scientific Variomag Mobil 10 and Mobil 25 Large Volume Stirrers

The power to stir up to 10 L and mix viscous liquids



- “Quick Stop” function stops the drive within two seconds minimizing after runs and reducing the risk of vessel breakage

Required: Telemodul 10 M controller

- 50119120 – 230 V
- 50119121 – 115 V US

Variomag Mobil 10 Stirrers

- Compact space saving design
- Gradual low-shear acceleration on start up
- Stir speeds from 100-1000 rpm

Variomag Mobil 25 Stirrers

- Ideal for high temperatures up to 121°C and high pressure applications up to 2 bars (29 psi)
- Can be used in autoclaves, water baths and climatic chambers
- Perfect for use on sterilized media ensuring even heating and cooling
- IP68 protection rated; easily cleaned with running water
- Easy to clean, chemical resistant, sealed stainless steel housing
- Gradual low-shear acceleration on start up
- Stir speeds from 100-1000 rpm

Model	Part Number	Voltage/Plug Type	Speed (rpm)	Protection Class	Power Settings (W)	Dimensions ØxH (mm)	Weight (kg)
Mobil 10 w/o Controller	50119111	n/a	100-1000	IP66	10	128 x 32	0.7
Mobil 25 w/o Controller	50119112	n/a	100-1000	IP68	10	128 x 32	1.7

Operating conditions of Mobil 10 are -10 to 56°C
 Operating conditions of Mobil 25 are -10 to 121°C

Thermo Scientific Variomag Power Direct

High capacity stirring of up to 40 L with its own integrated controller

- “Quick Stop” function stops the drive within two seconds minimizing after runs and reducing the risk of vessel breakage
- IP22 protection rated; easily cleaned with running water
- Sealed stainless steel housing is easy to clean and chemical resistant
- Integrated controller has adjustable power setting
 - Decreases power consumption
 - Lowers heat output
- Stir speeds from 100-2000 rpm



Variomag Power Direct

Model	Part Number	Voltage/Plug Type	Speed (rpm)	Protection Class	Power Settings (W)	Dimensions WxDxH (mm)	Weight (kg)
Power Direct	50098760	100-240 V	100-2000	IP22	5/10/15/20	240 x 295 x 35	2.5

Operating conditions are -10 to 40°C
 100-240 V units contain a cord set with various plugs

Thermo Scientific Variomag Mobil Direct, Mobil 200 and Mobil 600 Large Volume Stirrers

Unmatched stirring power for high volume applications

- For use in pilot plant or integrated with process equipment
- “Quick Stop” function stops the drive within three seconds minimizing after runs and risk of vessel breakage
- IP64/65 protection rated; easily cleaned with running water
- Easy to clean, chemical resistant, sealed stainless steel housing
- Stir speeds from 100-1000 rpm
- Mobil direct can stir up to 150 L and features an integrated controller with adjustable power settings
- Mobil 200 can stir up to 200 L
- Mobil 600 can stir up to 600 L
- The maximum shaft torque is 30 Ncm for the Mobil Direct and 50 Ncm for the Mobil 200 and Mobil 600
- Mobil 200 and Mobil 600 require either the Telmodul 40 M or the Telemodul 80 M control unit



Mobil Direct

Model	Part Number	Voltage/Plug Type	Speed (rpm)	Protection Class	Power Settings (W)	Dimensions WxDxH (mm)	Weight (kg)
Mobil Direct	50088128	230 V Euro	100-1000	IP64	40	330 x 330 x 80	16
Mobil Direct	50088131	115 V USA	100-1000	IP64	40	330 x 330 x 80	16
Mobil Direct	50088129	100 V Japan	100-1000	IP64	40	330 x 330 x 80	16
Mobil Direct	50100547	230 V UK	100-1000	IP64	40	330 x 330 x 80	16

Operating conditions are -10 to +40°C at 95% rH

Model	Part Number	Voltage/Plug Type	Speed (rpm)	Protection Class	Power Settings (W)	Dimensions WxDxH (mm)	Weight (kg)
Mobil 200 w/o Controller	50119109	n/a	100-1000	IP65	80	180 x 180 x 80	6
Mobil 600 w/o Controller	50119110	n/a	100-1000	IP65	80	330 x 330 x 80	16

Operating conditions are -10 to +56°C at 100% rH



Variomag Mobil 200 with Telemodul 40 M

Variomag Mobil 200 and 600 stirrers require a control unit; choose either the Telemodul 40 M or Telemodul 80 M. The Telemodul 80 M has all the features of the Telemodul 40 M but boosted power available to 80 W.

Model	Part Number	Voltage/Plug Type
Telemodul 40 M Control Unit	50118901	230 V Germany
Telemodul 40 M Control Unit	50118902	230 V Italy
Telemodul 40 M Control Unit	50118903	230 V Denmark
Telemodul 40 M Control Unit	50118904	230 V UK
Telemodul 40 M Control Unit	50118905	230 V Swiss
Telemodul 40 M Control Unit	50118906	230 V Australia
Telemodul 40 M Control Unit	50118907	230 V China
Telemodul 40 M Control Unit	50119122	110 V Japan
Telemodul 40 M Control Unit	50119123	115 V US

Model	Part Number	Voltage/Plug Type
Telemodul 80 M Control Unit	50118908	230 V Germany
Telemodul 80 M Control Unit	50118909	230 V Italy
Telemodul 80 M Control Unit	50118910	230 V Denmark
Telemodul 80 M Control Unit	50118911	230 V UK
Telemodul 80 M Control Unit	50118912	230 V Swiss
Telemodul 80 M Control Unit	50118913	230 V Australia
Telemodul 80 M Control Unit	50118914	230 V China
Telemodul 80 M Control Unit	50119124	110 V Japan
Telemodul 80 M Control Unit	50119125	115 V US

Telemodul 40 M

The powerful Telemodul 40 M controller equips Mobil 200 and Mobil 600 stirrers for the most demanding mixing tasks.

- Adjustable speeds form 100 to 1000 rpm
- Constant speeds, even during viscosity changes
- High-visibility digital display
- Adjustable start-up times
- Thermal and electrical overload protection, with fault alert



Telemodul 80 M

The Telemodul 80 M controller offers all the functionality of the Telemodul 40 M, with power output boosted to 80 Watts for more demanding stirring tasks.

- Adjustable speeds from 100 to 1000 rpm
- Constant speeds, even during viscosity changes
- High-visibility digital display
- Adjustable start-up times
- Thermal and electrical overload protection, with fault alert



Accessories

Up to three times the torque of conventional stir bars!

Thermo Scientific Komet

Super-Strong Magnetic Stirring Bars

- High energy Samarium-Cobalt (SmCo) magnetic core
- Superior mixing action at high speeds, and with viscous media
- Evenly coated PTFE surface prevents residue deposits
- Steam sterilizable to 121°C
- Long-life stirring bars with wear-resistant glide ring
- Significantly enhanced stirrer performance and applications versatility

- Uniquely powerful
- Available in four different sizes
- Highest wear-resistance



Model	Part Number	Shape	Diameter (mm)	Length (mm)
Komet 90, 1 Pack	50087902	round	25	90
Komet 50, 1 Pack	50087909	round	21	50
Komet 30, 1 Pack	50087930	round	13	30
Komet 15, 1 Pack	50087924	round	9	15
Komet Glide-Ring 90, 1 Pack	50093336	round w/ glide ring	31	90
Komet Glide-Ring 50, 1 Pack	50093335	round w/ glide ring	26	50
Komet Glide-Ring 30, 1 Pack	50093334	round w/ glide ring	17	30

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