



## Stirring on multiple stirring points

### Vorteile

- +** Virtually indestructible
- +** 4 power levels
- +** May be cleaned in water

### MULTIPOINT 6

e.g. for

6 x 1000 ml  
Erlenmeyer flasks

### MULTIPOINT 15

e.g. for

15 x 250 ml /  
**Bechergläser**  
or 6 x 1.000 ml  
Erlenmeyer flasks  
or 15 x 400 ml  
Erlenmeyer flasks

## MULTIPOINT - New Technology - New Look - New Generation

VARIOMAG MULTIPOINT - for many years a reliable assistant for chemical, biotechnical and medical applications, presents itself with a new look and with new technology.

No matter if it is equipped with 6 or 15 stirring points, due to 100% synchronous rotation speeds on each stirring point MULTIPOINT is ideal for reproducible mass screenings.

The proven features are:

- VARIOMAG stirring drive i.e. no movable parts and thus a 100% wear- and maintenance-free drive system
- Almost 20 years of experience in the conception of inductive stirring drives



The new features are:

- Improved VARIOMAG stirring drive with increased efficiency
- Stainless steel housing, hermetically sealed, hence a watertight and dustproof, easy to clean and easy-care housing without cracks, gaps, and edges
- Extraordinarily wide rotation speed range from 80 rpm to 2000 rpm
- Rotation free of jerking, even at low rotation speeds
- Automatic start-up for secure acceleration of the stirring bar
- Rotation power adjustable in 4-steps (5/10/15/20 Watt); higher power for large and viscous stirring volumes, reduced power for long-term operation without heating
- 4-digit LED display for precise indication of the preset rotation speed as well as the power setting
- Memory function stores the last settings used, even after longer periods of mains disconnection

## MULTIPLY STIRRED - SIMPLY FANTASTIC

### Technical specifications

Type	MULTIPOINT 6	MULTIPOINT 15
Stirring points	6	15
Stirring point distance	130	65
Stirring volume per point (ml)	1 - 2.000 (3.000)	1 - 1.500
Stirring power (W)		5 / 10 / 15 / 20
Speed (1/min)	80 - 2.000	
Dimensions W x D x H (mm)		240 x 420 x 35
Weight (stirring drive) (kg)		approx.. 7,5
Operating voltage (VDC)		18
<b>Construction</b>		
Housing material	Stainless steel	
Protection (DIN 40050)	IP 66	
<b>Environment</b>		
Ambient temperature (°C)	-10° up to +56° at 100% air humidity	
<b>Power supply unit / Control unit</b>		
incl. power supply unit (VDE approved)	Power supply unit 18 VDC	
Mains voltage/frequency	115 oder 230 VAC / 50 - 60 Hz	
Order No.	30625	31525



VARIOMAG®

# VARIOMAG Magnetic stirrers and Reaktion blocks



## The never ending story

For nearly 20 years H+P Labortechnik GmbH has been developing, producing and selling VARIOMAG magnetic stirrers, that have become world-famous in the meantime.

## A successful concept

The secret of our patented VARIOMAG magnetic stirrers lies in their solid and intelligent driving mechanism. Conventional magnetic stirrers use an electrical motor spinning a permanent magnet, thus exerting a force on the magnetic stirring bar within the stirring vessel. In VARIOMAG magnetic stirrers, electrical motors and permanent magnets have been replaced by stationary coils through which variable currents flow, producing a rotating electromagnetic field.



## Unmatchable application advantages

The inductive drive of VARIOMAG magnetic stirrers does not contain any moving parts, enabling the following features:

- + No wear and tear
- + No maintenance works
- + Water-proof and dust-sealed, suited for submersible use
- + Ultra-flat design up to miniaturization
- + Constant rotation speed, even in the case of changing viscosity
- + Temperature resistancy possible up to 200 °C
- + Directly and remotely controllable, also via RS 232 (V.24) interface
- + Individual configurations of the stirrer upon request

Thanks to the inductive driving mechanism, up to 96 stirring points featuring the mentioned advantages can be integrated reliably into a minimum of space.

- + Absolutely synchronized rotation speeds, thus enabling to compare samples with an accuracy of 100 %
- + Almost every configuration of multi-stirring systems is possible upon request



## VARIOMAG reaction blocks

### The dynamic new member of the VARIOMAG family

Stirring - heating - cooling in reaction blocks with 6 up to 96 stirring points

3 frame sizes and 4 bore diameters are available as a standard

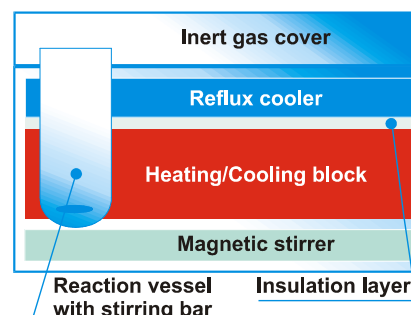
Compact and efficient reflux cooler

Inert gas protection against ice

Modular construction

Manufacturing according to individual requirements

## MULTIPLY STIRRED - SIMPLY THE BEST



Reaction block for combinatorial chemistry and parallel organic synthesis (scheme)