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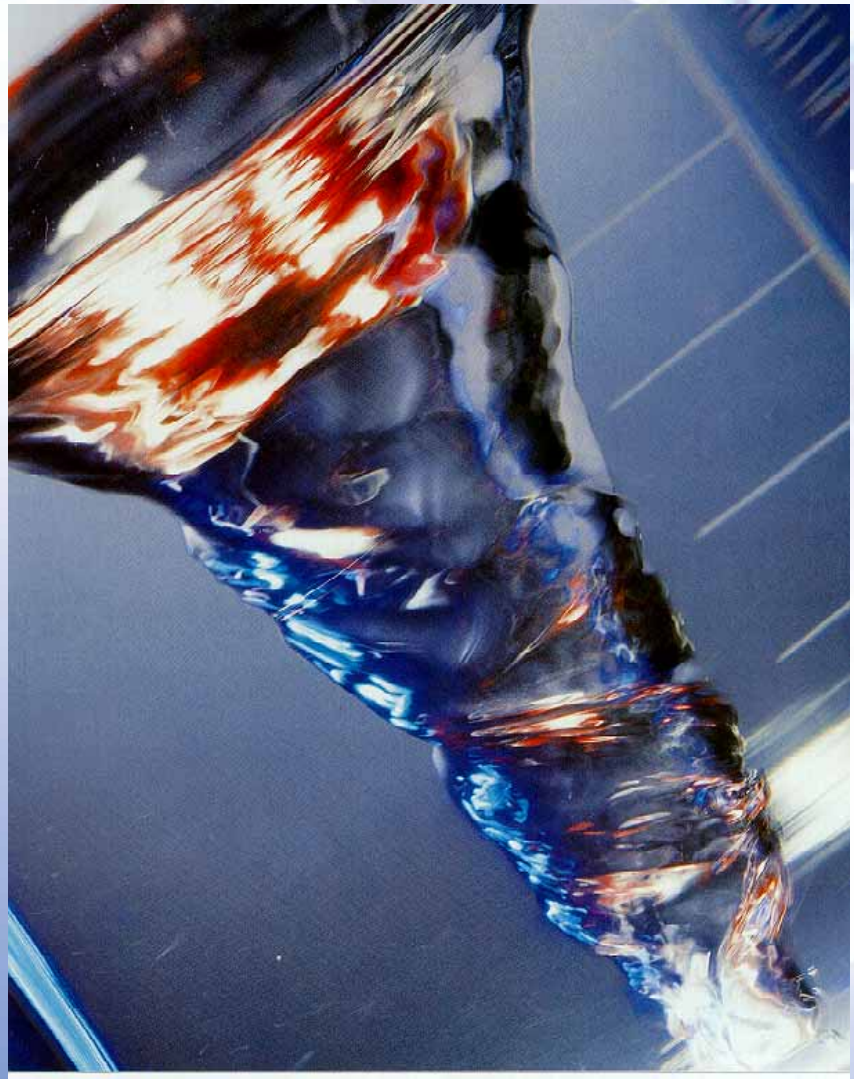
NEW Magnetic Stirrers



Magnetic Stirrers

Magnetic Stirrers

Magnetic Hotplate Stirrers

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NEW Magnetic Stirrers

Preferred use of Heidolph Magnetic Stirrers includes smooth to intense mixing and heating of low-viscosity fluids. Your first choice for decomposing organic and inorganic substances.

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NEW Magnetic Stirrers

Magnetic Stirrers without heating

MR Hei-Mix S
MR Hei-Mix L
MR Hei-Mix D

Magnetic Hotplate Stirrers

MR Hei-Standard
MR Hei-Tec
MR Hei-Tec [ ]
MR Hei-End

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NEW Magnetic Stirrers

Magnetic Stirrers without heating

shown here: MR Hei-Mix D

MR Hei-Mix S:
will replace MR 1000

MR Hei-Mix L:
will replace MR 3000

MR Hei-Mix D:
will replace MR 3000D

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NEW Magnetic Stirrers

Magnetic Hotplate Stirrers

shown here: MR Hei-Standard

MR Hei-Standard:
will replace MR 3001,
MR 3001 K, MR 3001 K8

MR Hei-Tec:
will replace MR 3002 S, MR 3002 S8, MR 3002 C, MR 3002 G

MR Hei-Tec [ ]:
new model

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NEW Magnetic Stirrers

Magnetic Hotplate Stirrers

MR Hei-End:
will replace MR 3004 safety S/C/G
available end of June 2006

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NEW Magnetic Stirrers

General Advantages

- New, flat design with plates in different sizes and shapes
- Corrosion-proof aluminium die-cast housing, hermetically sealed, made of chemically resistant Polyamide material
- Enhanced heavy-duty stirring magnet device stirring bars with ease
- Models with constant speed, even under changing loads, temperature and voltage peaks
- High accuracy temperature setting of ±1K
- With additional safety temperature sensor for electronic safety cut-out

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NEW Magnetic Stirrers

General Advantages

- Intuitive operation guidance and illuminated digital display
- Maintenance-free motors with smooth start feature
- High-efficiency motor with low power consumption
- All units come with a heating power of 800 W for fast heating-up
- Hot plate made of Silumin (aluminium alloys) with ceramic coating:
  - excellent heat conduction and distribution
  - extremely resistant against scratches and chemicals

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NEW Magnetic Stirrers

Magnetic Stirrers without heating

MR Hei-Mix S:

- Virtually no heat up of the stirrer plate
- Preferred use in cellular biology
- White, chemically resistant PVDF plate
- Especially recommended for titration
- Speed range up to 2,200 rpm
- Minimum space requirements
- Plate diameter: 105 mm

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NEW Magnetic Stirrers

Magnetic Stirrers without heating

MR Hei-Mix L:

- Recommended for use in cell biology laboratories
- Even after extended operation minor heat transfer to the top plate only
- Top plate made of corrosion-resistant stainless steel (V2A)
- Analogue control dials for speed setting from 100 – 1,400 rpm
- Plate diameter: 145 mm

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NEW Magnetic Stirrers

Magnetic Stirrers without heating

MR Hei-Mix D:

- Even after extended operation minor heat transfer to the top plate only
- Top plate made of corrosion-resistant stainless steel (V2A)
- Electronic speed control with digital display
- Analogue control dials for speed setting from 100 – 1,400 rpm
- Plate diameter: 145 mm

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NEW Magnetic Stirrers

Magnetic Hotplate Stirrers

MR Hei-Standard:

- Hot plate temperature range: 20 – 300°C
- Speed range: 100-1,400 rpm
- Speed accuracy ± 2%
- Triac guarantees long service life
- Hot plate made of Silumin with ceramic coating for excellent heat conduction and optimal resistance against scratches and chemicals
- Extra safety control circuit and hot plate cut-out by two independent temperature sensors
- Connector for electronic temperature control EKT Hei-Con (optional)

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NEW Magnetic Stirrers

Magnetic Hotplate Stirrers

MR Hei-Tec:

- Hot plate temperature range: 20 – 300°C
- Speed range: 100-1,400 rpm, accuracy ± 2%
- Digital display for nominal speed & temp.
- Illuminated switch for actual heating condition
- Triac guarantees long service life

- Hot plate made of Silumin with ceramic coating for excellent heat conduction and optimal resistance against scratches and chemicals
- Extra safety control circuit and hot plate cut-out by two independent temperature sensors
- Connector for electronic temperature control EKT Hei-Con (optional)

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NEW Magnetic Stirrers

Magnetic Hotplate Stirrers

MR Hei-Tec[ ]:

- Same specifications as MR Hei-Tec
- Comes with square-shaped hot plate
- Hot plate made of enameled Silumin
- Dimensions hot plate (W x D):
  132 x 132 mm

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NEW Magnetic Stirrers

Magnetic Hotplate Stirrers

MR Hei-End:

- Hot plate temperature range: 20 – 300°C
- Speed range: 30-1,400 rpm
- Superior speed accuracy ± 1%
- Digital display for speed & temperature (both nominal and actual)
- Illuminated switch for actual heating condition
- Triac guarantees long service life
- Hot plate made of Silumin with ceramic coating for excellent heat conduction and optimal resistance against scratches and chemicals

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NEW Magnetic Stirrers

Magnetic Hotplate Stirrers

MR Hei-End:

- Hot plate residual heat indicator in the digital display lights when unit is switched off but hot plate temp is still higher than 50°C
- No unintentional temperature setting
- Extra safety control circuit and hot plate cut-out by two independent temperature sensors
- An independent safety circuit switches off the heating if a prefixed temperature difference (ΔT) above set temperature is reached
- Serial interface RS 232 (for speed and temperature setting) and analog 0-10 V interface (read-out actual sample temperature)
- Medium temperature sensor (optional) using two independent PT 1000 double-checking each other (safety circuit); control accuracy ± 0.2 K

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NEW Magnetic Stirrers

Electronic Temperature Controller

EKT Hei-Con:
will replace EKT 3001
available end of June 2006

EKT Hei-Con G:
will replace EKT 3001 G
available end of June 2006

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NEW Magnetic Stirrers

Electronic Temperature Controller

EKT Hei-Con (G):

- Can be combined with stirrer models MR Hei-Tec, MR Hei-Tec [ ], MR Hei-Standard and also with MR 3001 K and MR 3002
- Electronic temperature controller with fuzzy logic control (fast heating, no temperature overshoots)
- With clear double-spaced digital display for nominal & actual temp.
- Control range: ambient temperature up to +300°C; accuracy: ± 1°C
- Sensor short-circuit and breakage protection
- Mercury free
- Two alternatives available: either with a stainless steel sensor (V2A) or for the use with strong acids with a glass coated sensor

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NEW Magnetic Stirrers

Accessories

Heating Baths

Temperature Sensor

Magnetic Stir Bars

Holding Device

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NEW Magnetic Stirrers

DrySyn Reaction Blocks

Convert your magnetic stirrer into a reaction block

- Inserts for round bottom flasks and cylindrical reaction vessels
- Up to 12 reactions at the same time
- Greater versatility; do any combination of reaction adaptors
- Powerful stirring in all configurations
- Controlled heating and temperature control
- Temperature sensor fits directly in insert for greater accuracy

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NEW Magnetic Stirrers

DrySyn Attachments

DrySyn Multi M with 3 x 250 ml flasks

Example of use:

- **1 reaction:**
  Use central position for optimal stirring and heating
- **3 reactions:**
  Do any combination of 10 ml, 25 ml, 50 ml, 100 ml and 250 ml round bottom flasks
- **12 reactions:**
  Use up to 3 reaction vial inserts for the following vessel dia.: 16.2 mm, 17.4 mm, 20.2 mm, 24.4 mm or 25.75 mm

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NEW Magnetic Stirrers

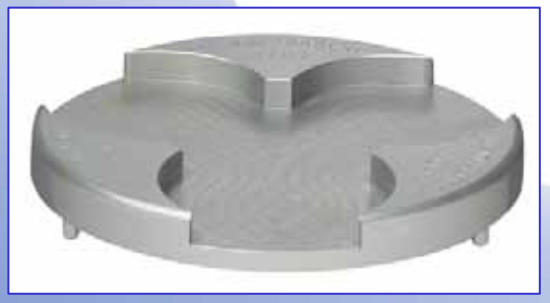
DrySyn Attachments

More DrySyn inserts for round bottom flasks (10 – 250 ml) and reaction vessels (Ø 16.2 – 25.75 mm) available

DrySyn inserts

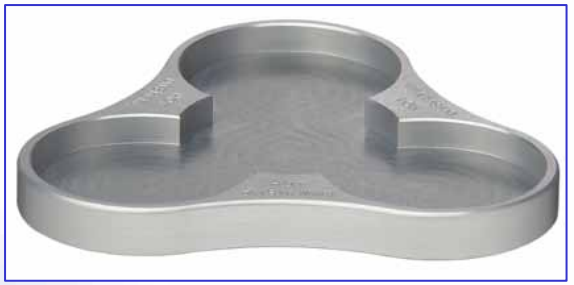
DrySyn insert vials

Set DrySyn MULTI



DrySyn MULTI Base

DrySyn MULTI M Base



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NEW Magnetic Stirrers

DrySyn MULTI Sets

Complete sets for round bottom flasks

DrySyn MULTI

Comes with following inserts:

3 x 25 ml
3 x 50 ml
3 x 100 ml

DrySyn MULTI M

Comes with following inserts:

3 x 100 ml
3 x 250 ml