Heidolph Benchtop Chemistry Solutions



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Hei-VAP Expert Hand Lift (HL) G5 Hei-VAP Expert Hand Lift (HL) G6 036041004 Hei-VAP Expert Hand Lift (HL) G1B 036041005 Hei-VAP Expert Hand Lift (HL) G3B	Hei-VAP Expert Hand Lift (HL) G3	036041001
Hei-VAP Expert Hand Lift (HL) G6 Hei-VAP Expert Hand Lift (HL) G1B O36041005 Hei-VAP Expert Hand Lift (HL) G3B O36041006	Hei-VAP Expert Hand Lift (HL) G3 XL	036041002
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Hei-VAP Expert Hand Lift (HL) G3B	Hei-VAP Expert Hand Lift (HL) G6	036041004
	Hei-VAP Expert Hand Lift (HL) G1B	036041005
Hei-VAP Expert Hand Lift (HL) G3B XL 036041007	Hei-VAP Expert Hand Lift (HL) G3B	036041006
	Hei-VAP Expert Hand Lift (HL) G3B XL	036041007
Hei-VAP Expert Hand Lift (HL) G5B	Hei-VAP Expert Hand Lift (HL) G5B	036041008
Hei-VAP Expert Hand Lift (HL) G6B	Hei-VAP Expert Hand Lift (HL) G6B	036041009
Hei-VAP Expert Motor Lift (ML) G1	Hei-VAP Expert Motor Lift (ML) G1	036041010
Hei-VAP Expert Motor Lift (ML) G3	Hei-VAP Expert Motor Lift (ML) G3	036041011
Hei-VAP Expert Motor Lift (ML) G3 XL 036041012	Hei-VAP Expert Motor Lift (ML) G3 XL	036041012

Product	P/N
lei-VAP Expert Motor Lift (ML) G5	036041013
Hei-VAP Expert Motor Lift (ML) G6	036041014
lei-VAP Expert Motor Lift (ML) G1B	036041015
Hei-VAP Expert Motor Lift (ML) G3B	036041016
lei-VAP Expert Motor Lift (ML) G3B XL	036041017
lei-VAP Expert Motor Lift (ML) G5B	036041018
lei-VAP Expert Motor Lift (ML) G6B	036041019
lei-VAP Expert Control Hand Lift (HL) G1	036041020
Hei-VAP Expert Control Hand Lift (HL) G3	036041021
lei-VAP Expert Control Hand Lift (HL) G3 XL	036041022
Hei-VAP Expert Control Hand Lift (HL) G5	036041023
Hei-VAP Expert Control Hand Lift (HL) G6	036041024
lei-VAP Expert Control Hand Lift (HL) G1B	036041025
Hei-VAP Expert Control Hand Lift (HL) G3B	036041026
lei-VAP Expert Control Hand Lift (HL) G3B XL	036041027
Hei-VAP Expert Control Hand Lift (HL) G5B	036041028
lei-VAP Expert Control Hand Lift (HL) G6B	036041029
lei-VAP Expert Control Motor Lift (ML) G1	036041030
lei-VAP Expert Control Motor Lift (ML) G3	036041031
lei-VAP Expert Control Motor Lift (ML) G3 XL	036041032
lei-VAP Expert Control Motor Lift (ML) G5	036041033
lei-VAP Expert Control Motor Lift (ML) G6	036041034
lei-VAP Expert Control Motor Lift (ML) G1B	036041035
lei-VAP Expert Control Motor Lift (ML) G3B	036041036
lei-VAP Expert Control Motor Lift (ML) G3B XL	036041037
lei-VAP Expert Control Motor Lift (ML) G5B	036041038
lei-VAP Expert Control Motor Lift (ML) G6B	036041039
Hei-VAP Ultimate Hand Lift (HL) G1	036041040
Hei-VAP Ultimate Hand Lift (HL) G3	036041041
Hei-VAP Ultimate Hand Lift (HL) G3 XL	036041042
Hei-VAP Ultimate Hand Lift (HL) G5	036041043
Hei-VAP Ultimate Hand Lift (HL) G6	036041044
Hei-VAP Ultimate Hand Lift (HL) G1B	036041045





PREMIUM EQUIPMENT | INSTALLATION & TRAINING | 3 YEAR WARRANTY

Heidolph North America's goal is to give our customers the ability to focus on their research. Accomplishing this is done largely in part by providing best in class service and support for solution oriented equipment. Heidolph specializes in both benchtop and industrial rotary evaporation, making distillation more efficient, and in turn allowing the researcher's focus to be their research.

Heidolph's product lineup includes a full range of chemistry and biology tools designed to increase lab productivity, including but not limited to overhead stirrers, magnetic stirring hotplates and shakers. Quality without compromise is Heidolph's commitment to you. All Heidolph equipment is designed and made in Germany, backed by a 3 year warranty, and carries an average 10 year lifespan; making it a worth while investment.



HEI-VAP

ROTARY EVAPORATORS

The rotary evaporators of our Hei-VAP series create new milestones within vacuum evaporation - a well-designed concept, unmatched tightness and uncompromising high quality.

A variety of additional options make the Heidolph rotary evaporator the best solution for your individual requirements. You can reach up to 40% higher evaporation rates with our new XL condensers and achieve the purest results through our innovative seal system, which enables a stable evaporation process and therefore overcomes any pharmaceutical or chemical challenge.

HEI-VAP

The Hei-VAP Series of rotary evaporators was developed with an emphasis on the essentials: well thought-out details with a focus on features and functions to facilitate everyday laboratory work.



POWERFUL GERMAN ENGINEERING

Benefits at a Glance



The Hei-VAP Series has been tested and certified by OSHA's National Recognized Testing Laboratory (NRTL) Program. The certification states that the product complies with the requirements of one or more appropriate product safety test standards.

The Hei-VAP Series – One Concept for all Requirements

STANDARD MODELS

Without vacuum control. For intergration into an exisiting vacuum system or for configuration with optional vacuum controler.







Hei-VAP Core

- Digital display
- Direct access to rotation and heating bath temperature
- Lock function
- Standby button
- Residual heat warning

Hei-VAP Expert

- 5" touch display
- Clear display of all values (Basic/Advanced modes)
- Timer
- Max. temperature limitation
- Multilingual menu with text warnings
- Optional display of vapor temperature
- USB and Micro SD interfaces

Hei-VAP Ultimate

- 7" touch display
- Clear display of all values (Basic/Advanced modes)
- Timer
- Max. temperature limitation
- Multilingual menu with text alerts
- Optional display of vapor temperature
- USB and Micro SD plus LAN/RS 232 interfaces (Lab 4.0 ready)

CONTROL MODELS

Including the smart Control-Box. For controlling any connected vacuum sources and the Heidolph chillers directly via the rotary evaporator's operating panel.





Hei-VAP Expert Control

Extends the functions of the Hei-VAP Expert by:

- Control of any vacuum sources and Heidolph recirculation chillers
- Solvent library
- Favorites memory
- Dynamic AUTOaccurate (DAA)
- Ramp programming

Hei-VAP Ultimate Control

Extends the functions of the Hei-VAP Ultimate by:

- Control of any vacuum sources and Heidolph recirculation chillers
- Solvent library
- Favorites memory
- Dynamic AUTOaccurate (DAA)
- Ramp programming

The Hei-VAP Control Principle

Hei-VAP Expert Control and Ultimate Control allow to centrally control all process parameters: vacuum, cooling temperature, rotation and heating bath temperature.



Evaporation at Your Fingers:

- Customizable Solvent Library
- Automatically find boiling points with Dynamic AUTOaccurate
- Simply save processes as favorites

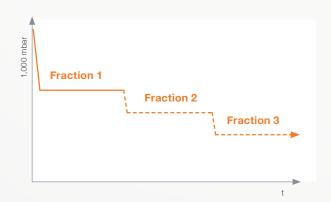
Hei-VAP Expert Control
Hei-VAP Ultimate Control

* A subsequent upgrade is possible: simply connect the "plug-and-play" Control-Box and enjoy all the benefits.

Save time with the automated process control

Automatic evaporation with Dynamic AUTO_{accurate} (DAA)

- The boiling points of one or more fractions are identified through the steam temperature gradation of the mixture during continuous automatic pressure control
- You can freely set whether one or more fractions are to be distilled. The vacuum control is fully automated for each fraction
- You can control the evaporation speed by adjusting the ratio of steam temperature to cooling temperature



The DAA allows you to start a fully automated distillation process already during the heat-up phase of the heating bath. The system vacuum is dynamically adjusted to the changing heating bath temperatures until the heating bath has reached its defined temperature.

- Samples are distilled precisely
- Automation with sensors ensures noticeably higher precision
- To protect your sample, motor lift models automatically remove the evaporating flask from the heating bath at the end of the process

System requirements:

The automatic process control requires a Hei-VAP Expert Control or Hei-VAP Ultimate Control model with the AUTOaccurate-sensor as well as the configuration with compatible glassware (G3, G3 XL or G6).





FAVORITES & RAMPS

- Solvent library with pre-set, customizable processes and solvents. Can be saved as a favorite at any time, also directly on the start screen
- Evaporate with a tap: the smart DAA program
- Individual settings: adjust hysteresis (from gentle to highest performance), limit max. pressure or temperature, multilingual menu with format settings, various calibrations, assign heating temperature or vacuum to right knob

TECHNICAL SPECIFICATIONS

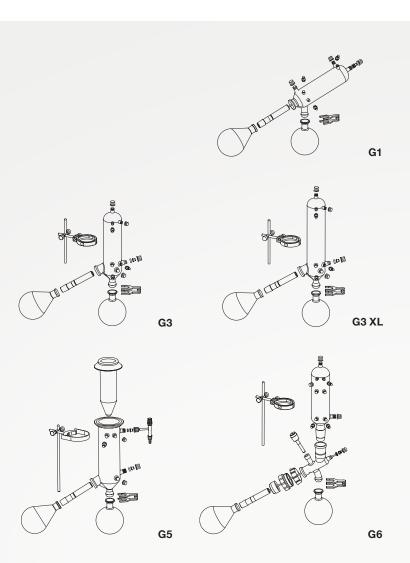
Rotary Evaporators

Model	Hei-VAP Core (HL)	Hei-VAP Core (ML)	
Lift	hand lift	motor lift	
Height adjustment speed	manual	30 mm/s	
Height adjustment	155 mm	155 mm	
Rotation speed	10-280 rpm	10–280 rpm	
Rotation speed setting	3.5" LCD display	3.5" LCD display	
Drive	brushless DC motor with electronic speed control		
Heating capacity	1,300 W	1,300 W	
Temp. range heating bath	20-210 °C	20-210 °C	
Temperature accuracy bath	±1 °C	±1 °C	
Overheat protection bath	cut-off at 5 °C over	set temperature via separate Pt 1000	
Secondary overtemp. cut-off	250 °C	250 °C	
Bath temperature setting	3.5" LCD display	3.5" LCD display	
Heating bath temperature control	electronic/digital	electronic/digital	
Material heating bath	stainless steel AISI 316 L	stainless steel AISI 316 L	
Diameter heating bath	255 mm	255 mm	
Volume heating bath	4.5	4.5	
Max. size evaporating flask	51	51	
Display vapor temperature required accessories	-	-	
Integrated vacuum controller		-	
Integrated Hei-CHILL controller			
Timer		<u> </u>	
Vacuum program DAA mode requires AUTO _{accurate} -Sensor	_		
Programmable ramps		<u> </u>	
Supply power	1,400 W	1,400 W	
Weight w/o glassware assembly	16 kg	16 kg	
Dimensions with glassware set G3 max. w/d/h	739×477×845 mm	739×477×845 mm	
Dimensions with glassware set G3 XL max. w/d/h	739×477×920 mm	739×477×920 mm	
Condensing surface	1,400 cm2	1,400 cm2	
Condensing surface XL condenser	2,200 cm2	2,200 cm2	
Permissible ambient conditions	5-31 °C at 80 % rel. humidity, 32-40 °C decreasing linearly up to max. 50 % rel. humidity	5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity	
Protection class1 DIN EN 60529	IP 20	IP 20	

Hei-VAP Expert (HL/ML)	Hei-VAP Ultimate (HL/ML)	Hei-VAP Expert Control (HL/ML)	Hei-VAP Ultimate Control (HL/ML)
hand lift/motor lift	hand lift/motor lift	hand lift/motor lift	hand lift/motor lift
manual /30 mm/s	manual /30 mm/s	manual /30 mm/s	manual /30 mm/s
155 mm	155 mm	155 mm	155 mm
10-280 rpm	10-280 rpm	10–280 rpm	10-280 rpm
5" LCD color graphic display	7" LCD color graphic display	5" LCD color graphic display	7" LCD color graphic display
	brushless DC moto	r with electronic speed control	
1,300 W	1,300 W	1,300 W	1,300 W
20–210 °C	20-210 °C	20–210 °C	20-210 °C
±1 °C	±1 °C	±1 °C	±1 °C
	cut-off at 5 °C over set	temperature via separate Pt 1000	
250 °C	250 °C	250 °C	250 °C
5" LCD color graphic display	7" LCD color graphic display	5" LCD color graphic display	7" LCD color graphic display
electronic/digital	electronic/digital	electronic/digital	electronic/digital
stainless steel AISI 316 L			
255 mm	255 mm	255 mm	255 mm
1.5	4.5	4.5	4.5
51	51	51	51
yes vapor temperature sensor	yes vapor temperature sensor	yes vapor temperature sensor	yes vapor temperature sensor
-		yes	yes
-		yes	yes
/es	yes	yes	yes
-		yes 	yes
/es	yes	yes	yes
1,400 W	1,400 W	1,400 W	1,400 W
16 kg	16 kg	16 kg	16 kg
739×477×845 mm	739×477×845 mm	739×477×845 mm	739×477×845 mm
739×477×920 mm	739×477×920 mm	739×477×920 mm	739 × 477 × 920 mm
1,400 cm2	1,400 cm2	1,400 cm2	1,400 cm2
2,200 cm2	2,200 cm2	2,200 cm2	2,200 cm2
5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity	5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity	5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity	5-31 °C at 80 % rel. humidity, 32-40 °C decreasing linearly up to max. 50 % rel. humidity
IP 20	IP 20	IP 20	IP 20
		_	

GLASSWARE

- Glassware set includes one 1,000ml evaporating flask and one 1,000ml receiving flask
- Evaporating flasks and vapor tube come standard with 29/32 joint size and are also available with 24/29 ground joints
- Ventilation cap without ground joints for easy handling and grease-free operation included
- A venting valve with refill function is optionally available
- G3/G3 XL or G6 glassware required for using DAA on Hei-VAP Expert/Ultimate Control models
- All glassware also available with transparent plastic coating (for temperature ranges up to max. 80 °C)



Glassware set G1

Diagonal condenser for all standard distillations; the option with the most affordable price

Glassware set G3

Vertical condenser for all standard distillations; the option with the smallest space requirements

Glassware set G3 XL

Up to 40 % higher evaporation rate thanks to 2,200 cm² of cooling surface

Glassware set G5

Dry ice condenser for low-boiling solvents

Glassware set G6

Vertical condenser; centerpiece with valve for reflux distillation

Evaporation rate ¹	Toluene	Acetone	Ethanol	Isopropanol	Water
G3 Vertical	6.5 l/h	6.0 l/h	2.5 l/h	4.0 l/h	1.4 l/h
G3 XL-Vertical	8.5 l/h	7.5 l/h	3.5 l/h	4.9 l/h	1.4 l/h
Improvement with XL-Condenser	31 %	25 %	40 %	23 %	system limit reached with 1.4 l/h

ACCESSORIES















Evaporating flask

	NS 24/40
50 ml	036302270
100 ml	036302290
250 ml	036302310
500 ml	036302330
1,000 ml	036301160
2,000 ml	036302370
3,000 ml	036302390
5,000 ml	036305000

Powder flask

	NS 24/40
500 ml	036302210
1,000 ml	036302230
2,000 ml	036302250

Spider NS 14.5

	143 24/40
With 6 distillation sleeves 20 ml	036302610
With 12 distillation sleeves 20 ml	036302630
With 20 distillation sleeves 20 ml	036302650

Spider NS 24

	NS 24/40
With 5 flasks à 50 ml	036302750
With 5 flasks à 100 ml	036302770

Evaporating Cylinder

NS 24/40
036302410
036302430

Foam Brake

	NS 24/40
Foam brake with flask clamp	036302470

Receiving flask

	standard	coated
100 ml	036302480	036302490
250 ml	036302500	036302510
500 ml	036302520	036302530
1,000 ml	036301170	036301180
2,000 ml	036302570	036302580
3,000 ml	036302590	036302600

ACCESSORIES



Guard Hood

Strong and transparent guard hood to protect from implosions; provides easy and immediate access to flask and bath; application range up to 130 °C

PN 036305040



Guard Shield

Strong and transparent guard shield to protect from implosions; provides easy and immediate access to flask and bath

PN 036305050



Aqua-Stop

Automatically stops the water supply as soon as the rotary evaporator is switched off. Prevents excessive water consumption and water damage and also reduces costs

PN 036302969



Spare Vapor Tube

Standard joint size: NS 24/40

PN 036301110

Spare clamping sleeve PN 036308030



Tubing

Tubing set with 12 m tube and hose clamp for vacuum and water connection

PN 036302180

Tubing by meter (individual length) PN 036294800



Vacuum Seal PTFE/FFKM

Special PTFE seal (with FFKM sealing ring), highest chemical resistance, long lifespan without abrasion, highest density, FDA-compliant

PN 036210032

Standard PTFE/FKM spare seal PN 036210033



Heating Bath Liquid

Heating bath liquid up to 220 °C (5 l)

PN 036300941



AUTO_{accurate}-Sensor

For Hei-VAP Expert Control and Hei-VAP Ultimate Control. Only in combination with glassware set G3, G3 XL or G6

PN 036308020



Vapor Temperature Sensor

For Hei-VAP Expert and Hei-VAP Ultimate as well as Control models

PN 036308010



Ventilation and Replenishment Valve

Ground-free, for precise refilling during the process. With ventilation function

PN 036210761

Replacement Cap PN 036210497



Woulff Bottle

For separating condensate to protect the valves of the vacuum pump, standard vacuum laboratory bottles can be used. Screw connection for easy emptying and cleaning, compatible with all Hei-VAP configurations, volume of 200 ml

PN036302940



Extension Cable

Allows quick and easy operation even outside closed fume hoods, length 1.5 m

PN 036210769



Holding Device

For all Hei-VAP operating panels: can be positioned next to the device or on the wall. Extension cable required

PN 036210771



Vacuum Valve

Required for Hei-VAP Control models with valve-controlled vacuum pump. Can be positioned for easy access and cleaning. Not required for manual vacuum control

PN 036308071



Switchbox

Connect up to three rotary evaporators to one vacuum pump

If no vacuum is required or when the required vacuum has been reached, the pump is switched off automatically. Prevents excess energy consumption. For applications with different pressure settings, each evaporator must be equipped with vacuum valve and non-return valve. Delivery includes three non-return valves. Suitable only for Hei-VAP Control models

Weight 0.6 kg, $w/d/h 80 \times 45 \times 160 \text{ mm}$

PN 036308080

Non-Return Valve PN 036308002

UPGRADE



Control-Box

Subsequent upgrade for Hei-VAP Expert and Hei-VAP Ultimate models with Control function and the ability to control peripheral devices (vacuum and Hei-CHILL recirculation chiller)

PN 036000026

VACUUM CONTROLLER

Manual Vacuum Controller

The cost-effective variant for vacuum control

- Control the house vacuum or any other vacuum source manually
- Pressure range from 0 to 1,020 mbar in 50 mbar increments
- Connection for tubes with 8 mm inner diameter
- Support rod for mounting of the controller on the evaporator included
- A vacuum valve is not required
- W/d/h 80×80×150 mm

P/N 036308000





Hei-VAC Control

For accurate vacuum control of house vacuum systems or valve-regulated vacuum pumps

- Entry-level model for digital vacuum control
- Easy installation on the evaporator's condenser shaft or as stand-alone device with base next to the evaporator unit
- Manual vent button to prevent foaming
- Graphs to display the entire vacuum process
- RS 232 interface
- Multilingual menu navigation
- Compatible with all Hei-VAP Evaporators which do not have an integrated vacuum control
- Vacuum controller complete with integrated ceramic diaphragm vacuum sensor, regulation valve and venting valve (control valve included in delivery). Ready for use, with wall power supply and user manual

P/N 036308001

VACUUM PUMPS

Valve-Regulated Vacuum Pumps

- All components that come in contact with media are made from chemically resistant fluoropolymer
- The durable PTFE design guarantees a superior diaphragm lifespan
- Head cover and clamping disc have a stable core made from metal that offers unsurpassed long-term performance
- The direct pump drive (without belt) has no wear parts, is exceptionally quiet and creates a very low vibration environment
- The physically optimized gas ballast valve prevents from condensate collecting in the pump



Fully automatic control with speed adjustment - continuous evaporation time •

RPM-Regulated Vacuum Pumps

- Highest distillation rates possible and reducing process time by 30 %
- Solvent recovery of up to 99 %
- Once the required vacuum is reached, the pump automatically stops and reliably keeps the vacuum at the desired level
- Minimized runtime saves energy and significantly increases the lifespan of the diaphragm
- These pumps guarantee minimum noise and vibrations during operation
- Rpm-regulated pumps achieve the most precise vacuum

VALVE-REGULATED VACUUM PUMPS





Rotavac Valve Tec

For all Hei-VAP models

- Recommended for solvents with low or medium boiling points
- Vacuum can be controlled through valves or manual vacuum controllers
- A vacuum valve is necessary if you wish to combine this vacuum pump with Hei-VAP Expert Control/Ultimate Control rotary evaporators

P/N 036304780

Rotavac Valve Control

For all Hei-VAP models

- Suction capacity for up to three rotary evaporators at the same time
- Vacuum can be controlled through valves or manual vacuum controllers
- Depending on your application, you can use the Switchbox to turn the vacuum pump on and off
- A vacuum valve is required to combine this vacuum pump with Hei-VAP Expert Control/Ultimate Control rotary evaporators

P/N 036302830

Condenser

P/N 036304900

	Rotavac Valve Tec	Rotavac Valve Control
Diaphragm pump	two-stage	two-stage
Suction capacity	0.75 m³/h	2.0 m³/h
Ultimate vacuum	12 mbar	7 mbar
Combinable with condensor	yes	yes
Power input	80 W	180 W
Weight	6.0 kg	12.8 kg
Dimensions without condenser w/d/h	145×315×185 mm	195×245×310 mm

RPM-REGULATED VACUUM PUMPS







Rotavac Vario Tec

For Hei-VAP Expert Control/ Ultimate Control models (direct control via rotary evaporator)

 Recommended for solvents with low or medium boiling points

P/N 036308100

Rotavac Vario Control

For Hei-VAP Expert Control/ Ultimate Control models (direct control via rotary evaporator)

- Even if the gas ballast valve is open, an excellent ultimate vacuum is reached when working with easily condensable vapors
- This makes distilling high boiling point solvents such as DMF or DMSO possible at low heating bath temperatures

P/N 036308090

Rotavac Vario Pumping Unit

For Hei-VAP Core models

- Fully adjustable, stand-alone pumping unit including vacuum pump and vacuum controller
- Precise vacuum control prevents bumping and loss of your samples
- Thanks to the automatic vacuum supply to the process parameters, you have more time for important laboratory activities

P/N 036308310

Condenser

P/N 036308110

Rotavac Vario Tec	Rotavac Vario Control	Rotavac Vario Pumping Unit
two-stage	three-stage	three-stage
1.0 m³/h	1.7 m³/h	1.7 m³/h
12 mbar	2 mbar	5 mbar
yes	yes	yes
160 W	160 W	160 W
4.3 kg	5.4 kg	6.0 kg
156×236×196 mm	167 × 236 × 196 mm	193×299×299 mm
	two-stage 1.0 m³/h 12 mbar yes 160 W 4.3 kg	two-stage three-stage 1.0 m³/h 1.7 m³/h 12 mbar 2 mbar yes yes 160 W 160 W 4.3 kg 5.4 kg

RECIRCULATING CHILLERS

The Hei-CHILL models with cooling capacities from 250 to 1,200 W are specifically designed for reliable continuous operation in the laboratory. The magnetic coupling of the pump and the electric motor prevents leakages.



Hei-CHILL 250

The compact design fits effortlessly on a laboratory bench, cooling capacity at 250 W. Suitable for ambient temps.

P/N 036306516

Hei-CHILL 350

The compact design fits effortlessly on a laboratory bench, cooling capacity at 350 W. Suitable for all applications.

P/N 036306517

Hei-CHILL 600

With rollers for placement under a lab bench, cooling capacity at 600 W. Suitable for XL and water.

P/N 036306518

Hei-CHILL 1200

With rollers for placement under a lab bench, cooling capacity at 1,200 W. Suitable for 2 to 3 evaporators.

P/N 036306519





ACCESSORIES



Kryo 30 Liquid

Non-flammable thermal fluid for Hei-CHILL recirculating chillers, 10 I

P/N 036306513

20 I

P/N 036306507



RS 232 Cable

To connect a Hei-CHILL to a Hei-VAP Expert Control/Ultimate Control

P/N 036306010



Enforced cooling tube

For cooling, inside Ø 9 mm, sold by the meter, for operating temps of -20 to +60 °C

P/N 036306512

TECHNICAL SPECIFICATIONS

Chillers

	Hei-CHILL 250	Hei-CHILL 350	Hei-CHILL 600	Hei-CHILL 1200
Weight	 28 kg	36 kg	52 kg	64 kg
Display	7-segment, LED	7-segment, LED	7-segment, LED	7-segment, LED
Temperature range	-10 - +40 °C			
Thermal fluid fill volume	2–41	4–7	4–81	7–14
Cooling capacity at +20 °C (20 °C ambient temp.)	250 W	350 W	600 W	1,200 W
Cooling capacity at 0 °C (20 °C ambient temp.)	150 W	200 W	360 W	750 W
Cooling capacity at –10 °C (20 °C ambient temp.)	90 W	120 W	150 W	400 W
Temperature accuracy	±0.5K	±0.5K	±0.5K	±0.5K
Digital interface	RS 232	RS 232	RS 232	RS 232
Noise level	< 70 dB(A)	< 70 dB(A)	< 70 dB(A)	< 70 dB(A)
Ambient temperature range (storage)	5–40 °C	5–40 °C	5–40°C	5–40 °C
Pump pressure max.	0.35 bar	0.35 bar	1.3 bar	1.3 bar
Pump flow max.	91/min	91/min	201/min	201/min
Overvoltage category	II	II	II	II
Alarm output connection	max. 30 V DC, 0.2 A			
Contamination level	2	2	2	2
Distance to surroundings (front and rear)	40 cm	40 cm	40 cm	40 cm
Classification according to DIN 12876-1	I/NFL	I/NFL	I/NFL	I/NFL
Refrigerant	R-134a	R-134a	R-134a	R-134a
GWP (100a) according to IPCC IV	1430	1430	1430	1430
Transportation temperature range	-20 − +60 °C	-20 - +60 °C	-20 - +60 °C	−20 − +60 °C
Cooling	Air-cooled	Air-cooled	Air-cooled	Air-cooled
Standard supply voltage	115 V (60 Hz)			
Rated power intake (115 V)	230 W	500 W	750 W	1,150 W
Cooling output	250 W	350 W	600 W	1,200 W
Dimensions w/d/h	200×375×465 mm	240 × 430 × 500 mm	350×515×590 mm	450×585×640 mm
Permissible ambient conditions	5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity	5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity	5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity	5-31 °C at 80 % rel. humidity, 32-40 °C decreasing linearly up to max. 50 % rel. humidity
Protection class DIN EN 60529	IP 32	IP 32	IP 32	IP 32

DESIGNED FOR YOU



Packages	Reccomended Products	
Basic & Academic	Hei-VAP, Rotavac Valve Tec, Manual Vacuum Controller & Tubing Set	
All Around	Hei-VAP, Hei-VAC Control, Rotavac Valve Tec & Tubing Set	
Reaction & Extraction	Hei-VAP, Rotavac Vario Tec, Vapor Temperature Sensor & Tubing Set	
Automatic Evaporation	Hei-VAP, Rotavac Vario Tec, Condenser, Tubing Set, Woulff Bottle & AUTOaccurate Sensor	
University Research	Hei-VAP, Rotavac Vario Control & Tubing Set	
All Around Chill	Hei-VAP, Hei-VAC Control, Rotavac Valve Tec, Hei-CHILL, Tubing Set & Kryo 30	
Academic Chill	Hei-VAP, Rotavac Valve Tec, Manual Vacuum Controller, Hei-CHILL, Tubing Set & Kryo 30	
University Research Chill	Hei-VAP, Rotavac Vario Control, Hei-CHILL, RS 232 Cable, Tubing Set & Kryo 30	

HEI-PLATE

MAGNETIC STIRRERS

Even the smallest daily helper should inspire and accompany you for many years. That is the reason for our Magnetic Stirrers to be uncompromising when it comes to quality and reliability. The Hei-PLATE magnetic stirrers impress through a sealed and fireproof housing and an unique Kera-Disk® hotplate coating, which stands for chemical resistance and faster heat-up times.

The powerful and extended heating capacity of 600 W reduces process times noticeably. Intelligent functions such as dynamic residual heat indicator, a separate way to activate the heat-function and an independent second safety circuit make the Heidolph Magnetic Stirrer the safest in terms of heating and mixing in your lab.



MR Hel-Coppert









min , min ,



HEI-PLATE

The premium devices of the Hei-PLATE Series offer the highest operating safety and comfort standards. 600 W heating capacity and the special Kera-Disk® hotplate with aluminum core allow for minimum heat-up phases that result in cost reductions.



UNCOMPROMISING QUALITY

Benefits at a Glance





The Hei-PLATE Series has been tested and certified by OSHA's National Recognized Testing Laboratory (NRTL) Program. The certification states that the product complies with the requirements of one or more appropriate product safety test standards.

The Hei-PLATE Series – When Power Meets Safety

STANDARD MODELS

The premium devices of the Hei-PLATE Series are ideal for decomposing organic and inorganic substances from smooth to intense.



MR Hei-Standard

The Hei-Standard is for all standard applications. The two separate control knobs give direct access to parameters making it simple to use.

145mm: 036110519 135mm: 036110521



MR Hei-Tec

The Hei-Tec has precise control options and device parameter monitoring on the digital display. It can also be connected to a temperature sensor.

145mm: 036110550 135mm: 036110620

145mm with PT1000: 036110582 135mm with PT1000: 036110583



MR Hei-Connect

The Hei-Connect is for precise process documentation. The digital display provides precise control options and device monitoring with the compatibility with the PT 1000 temperature sensor. Inclues Hei-Control Software.

145mm: 036110601 135mm: 036110602

145mm with PT1000: 036110603 135mm with PT1000: 036110604

NON-HEATING MODELS

The non-heating models of the Hei-PLATE Series are ideal for gentle stirring in biology and microbiology applications.



MR Hei-MIX L

The Hei-MIX L includes a 145 mm Kera-Disk® top plate and the powerful stirring magnet allows stirring with the volume up to 20 liters. The speed range is from 100 to 1,400 rpm.

PN 036110465



MR Hei-MIX S

The Hei-MIX S has a space saving polyamide housing. The white PVDF top plate is perfect for titration and comes with a diameter of 104 mm. The speed range of up to 2,200 rpm is sufficient for applications up to 5 liters.

PN 036110460

ACCESSORIES



Findenser - Air Condenser

The Findenser is comprised of an internal glass condenser and an external, finned aluminum jacket, with a small amount of water permanently sealed inside. The award winning condenser is designed to replace the need for water cooled condensers.



Heat-On Blocks

Heat-On Blocks allow you quick and safe personal heating and stirring of your round bottom flasks, without the risks of fire or personal injury and the messy clean up associated with using oil. Sizes up to 5 liters.



Multi-Well Holders

Multi-Well Holders are designed to hold either one or two inserts for flasks. Inserts are available in sizes 10ml, 25ml, 50ml, 100ml and 150ml.



Wide Neck Flasks

Choice of flask sizes and styles with a wide neck option. Wide neck flasks allow easier removal of viscous and solid samples an the use of larger stirrer blades.



Regular Flasks

Various flask sizes available with dropping funnel, a zeotropic, side arm, etc.



Stir Bars

Rare earth stirring bars in various sizes and shapes provide powerful stirring and a deep vortex.



Starfish Workstation

The Starfish Multi-Experiment Workstation will save you the time and reduce clutter on your lab bench by performing multiple experiments at the same time.



MonoBlocks

Monoblocks are single blocks with multiple wells of the same size. Vial sizes up to 500ml.



PolyBlocks

Polyblocks are small segments which can be mixed to accommodate any combination of vessels, vials, tubes and flasks.



Manifolds

Allows for coolant, gas or vacuum to be evenly distrubuted to up to five condensers or vessels. Water-Distrubtuion and Gas/Vacuum Distribution Manifolds avaliable.



Carousel 12 Plus

The unique patented Carousel simultaneously heats, cools, stirs and reflux multiple samples under an inert atmosphere. Accomodates vessels up to 20 ml.



Carousel 6 Plus

The Carousel 6 Plus Reaction Station simultaneously heats and stirs up to 6 round bottom flasks. Flexibility is inherent in its design: choose any combination of flask sizes with different side arm combinations and accessories. Accomodates vessels up to 250ml.



Cooled Carousel 12 Plus

The innovative cooled Carousel 12 Plus reservoir is designed to accept the removable reflux/inerting head from the Carousel 12 Plus allowing for the reaction tubes to be easily and rapidly transferred between heating and cooling bases.



Cooled Carousel 6 Plus

Simultaneously stir and cool reaction from ambient down to -70°C using up to 6 round bottom flasks. As with the Carousel 6 Plus, you can use any combination of flask sizes.



Cool-It Cooling Bowls

Cool-It is designed to fit on a stirring hotplate, for controlled stirring through a magnetic stirring bar in the reaction flask. Cooling is obtained by using an appropriate cooling mixture such as dry ice and acetone.



Storm Heating & Cooling Workstation

Combined with a suitable heating/cooling ciculatory, the powerful Storm can provide controlled heating and cooling.



Breeze Heating & Cooling Workstation

The compact Breeze provides rapid controlled heating and cooling from -30° to +165°C; ideal for control by solution temperature.



Tornado Plus Overhead Stirring Station

The Tornado is a modular add-on for the Carousel 6 Plus, replacing the magnetic stirring of the stirring hotplate with direct stirring from a single overhead stirrer.

TECHNICAL SPECIFICATIONS

Magnetic Stirrers

Model	Hei-Mix S	Hei-Mix L
Speed Range	0 - 2,200 rpm	100 - 1400 rpm
Speed Accuracy	±5%	±2%
Drive	Shaded Pole Motor	EC-Motor
Operating Mode	Continuous	Continuous
Display	<u> </u>	<u> </u>
Analog/Digital Interface		-
Heating Power		
Hotplate Temperature	-	-
Medium Temperature Max		
Accuracy Temperature Setting		
External Temperature Sensor	-	-
Temperature Accuracy with External Temperature Sensor	-	-
Sensor Breakage Protection	-	_
Temperature Control	-	-
Temperature Accuracy Hotplate	-	_
Residual Heat Indicator	-	-
Safety Circuit Hotplate	-	-
Time	-	-
Stirring Capacity Max (H ₂ O)	5L	20L
Load Max	6 kg	25 kg
Power Consumption	7 W	20 W
Plate Diameter	104 mm	145 mm
Plate Material	PVDF	Kera-Disk® - Aluminum alloy coated
Weight	1.1 kg	2.9 kg
Dimensions (w/d/h)	140 x 126 x 80 mm	173 x 277 x 94 mm
Permissible Ambient Conditions	5 - 31°C at 80% rel. humidity, 32 - 40°C decreasing linearly up max. 50% rel.humidity	5 - 31°C at 80 % rel. humidity 32 - 40°C decreasing linearly up to max. 50% rel. humidity
Protection Class	IP 21	IP 32

Hei-Standard	Hei-Tec	Hei-Connect
100 - 1,400 rpm	100 - 1,400 rpm	100 - 1,400 rpm
±2%	±2%	±2%
EC-Motor	EC-Motor	EC-Motor
Continuous	Continuous	Continuous
_	Digital	Digital
_	-	Digital (RS 232)
600 W*	600 W*	600 W*
20 - 300°C	20 - 300°C	20 - 300°C
250° C	250° C	250°C
	±1°C	±1°C
Pt 1000	Pt 1000	Pt 1000
-	±1°C	±1°C
with Pt 1000	with Pt 1000	with Pt 1000
Micro Controller	r Micro Controller	Micro Controller
±5°C	±5°C	±5°C
Yes	Yes	Yes
25°C - over hotplate temperature	25°C - over hotplate temperature	25°C - over hotplate temperature
-	-	Yes
20 L	20 L	20 L
25 kg	25 kg	25 Kg
600 W	600 W	600 W
135mm & 145mm	135mm & 145mm	135mm & 145mm
Kera-Disk® - Aluminum alloy coated	Kera-Disk® - Aluminium alloy coated	Kera-Disk® - alloy coated
2.9 kg	2.9 kg	2.9 kg
173 x 277 x 94 mm	173 x 277 x 94 mm	173 x 277 x 94 mm
5 - 31°C at 80 % rel. humidity 32 - 40°C decreasing linearly up to max. 50% rel. humidity	5 - 31°C at 80 % rel. humidity 32 - 40°C decreasing linearly up to max. 50% rel. humidity	5 - 31°C at 80 % rel. humidity 32 - 40°C decreasing linearly up to max. 50% rel. humidity
IP 32	IP 32	IP 32



MYA 4

REACTION STATION

The Mya 4 Reaction Station is a 4-zone reaction station offering safe and precise heating, active cooling, software control, automatic reporting and data-logging for 24/7 unattended chemistry.

- 4 different temperature zones, each with heating and active cooling
- Use one compact system for a range of experiments
- Accepts a wide range of vessel sizes and styles
- Control your experiments and log results automatically
- Up to 200°C difference between adjacent positions
- Choose to control block by block or solution temperature
- Magnetic and overhead stirring (100 1,000 rpm)
- Temperature range: -30°C to 180°C



PACKAGES

Process Package

Choose the manifold head for use with glass condensers; overhead stirrers and process vessels; ideal for mimicking jacketed reactions.

Discovery Package

Choose the reflux head for integrated reflux cooling; combines well with magnetic stirring; ideal for use with round bottom flasks.

VESSEL STYLES & VOLUMES

- Vials and tubes range from 2 ml to 50 ml.
- Round bottom flasks 25 ml, 50 ml, 100 ml, and 250 ml
- Process reaction vessels: 50 ml, 100 ml, 150 ml, 250 ml and 400 ml
- 3 or 5 Multi-neck glass lids
- Additional glassware includes condensers, dropping funnels, solid addition funnels, stoppers, etc.



Ask your local specialist for a no obligation consultation and demo.

Learn more on our YouTube channel https://youtu.be/n5HjVpUlsxM



HEI-TORQUE

OVERHEAD STIRRERS

Our overhead stirrers enrich your lab with enhanced performance, reliability and powerful stirring for years. The Hei-TORQUE laboratory stirrers are equipped with the latest drive technology and the sealed housing protects the inside from vapor and dust.

Your lab agitator should not just be robust, but also practical. With its unique Quick-Chuck, you can change impellers fast and easy without any additional tools.

The Hei-TORQUE Series provides a suitable stirring tool for every application.

HEI-TORQUE

The Hei-TORQUE models are suitable for all requirements, including small and light equipment, easy operation with high torque, precise adjustment options and an interface for documentation.



HEI ON POWER

Benefits at a Glance





The Hei-TORQUE Series has been tested and certified by OSHA's National Recognized Testing Laboratory (NRTL) Program. The certification states that the product complies with the requirements of one or more appropriate product safety test standards.

The Hei-TORQUE Series – Infinite Stirring Capabilities

The Hei-TORQUE Series has a suitabe solution for all requirements, including small and light equipment, easy operation with high torque, precise adjustment options and an interface for documentation.



Hei-TORQUE Core

The Hei-TORQUE Core is lightweight for big tasks and has a compact design with enough power for large volumes. The smallest of the devices can mix up to 25L at low viscosity with ease.

PN 036090005



Hei-TORQUE Value

The Hei-TORQUE Value is ideal for standard stirring tasks. They are designed to mix and disperse medias that require non-reproducible results in high-viscosity applications.

Value 100: 036093030 Value 200: 036093050 Value 400: 036093070



Hei-TORQUE Precision

The Hei-TORQUE Precision is ideal for demanding tasks which have to be reproducible and documentable. The huge number of additional features and operation modes allows for a perfect adjustment to your individual application.

Precision 100: 036093090
Precision 200: 036093110
Precision 400: 036093150

IMPELLERS

Precise working with an overhead stirrer depends on the right choice of the stirrer tool. When choosing a stirrer tool you have to consider its different characteristics and their effects.







Blade & Half Moon Impellers					
Туре	Blade Size (mm)	Material	Length (mm)	Max rpm	PN
BR 10 Cross-Blade Impeller	50 x 12	Stainless Steel AISI 316Ti	400	2,000	036304390
BR 11 Straight- Blade Impeller	50 x 12	Stainless Steel AISI 316Ti	400	2,000	036300340
BR 12 Pivoting- Blade Impeller	60 x 15	Stainless Steel AISI 316Ti	400	2,000	036300350
BR 13 Square- Blade Impeller	70 x 70	Stainless Steel AISI 316Ti	450	800	036300360
BR 14 Collapsible- Blade Impeller	90 x 10	Stainless Steel AISI 316Ti	400	800	036300370
HR 18 Half-Moon Impeller	65 x 18 x 3	PTFE	350	800	036300460
Radial-Flow In	npellers				
Туре	Ø Turbine Size (mm)	Material	Length (mm)	Max rpm	PN
TR 20 Radial-Flow Impeller	28	Stainless Steel AISI 316Ti	400	2,000	036040052
TR 21 Radial-Flow Impeller	50	Stainless Steel AISI 316Ti	400	2,000	036300390
Anchor-Type II	mpellers				
Туре	Blade Size (mm)	Material	Length (mm)	Max rpm	PN
AR 19 Anchor-Type Impeller	60 x 45 x5	PTFE	350	800	036300450

Propeller-Type Impellers

These impellers are recommended for applications which require average or high speed and mixing tasks with medium or high viscosity.

Туре	Prop Size (mm)	Material	Length (mm)	Max rpm	PN	
PR 39 Pitched- Blade Impeller	75	PTFE	350	800	036300440	
PR 30 Pitched- Blade Impeller	58	Stainless Steel AISI 316Ti	400	2,000	036300400	
PR 31 Ringed Propeller	33	Stainless Steel AISI 316Ti	400	2,000	036300410	
PR 32 Ringed Propeller	45	Stainless Steel AISI 316Ti	400	2,000	036300420	
PR 33 Ringed Propeller	66	Stainless Steel AISI 316Ti	400	800	036300430	



VISCO JET®

VISCO JET® Impellers are an all-rounder for low to high viscosity medias. These impellers can reduce your process times while preforming the best mixing results.



VISCO JET® 60 mm

Material: Stainless Steel

Ø (mm): 60

Speed Range (rpm): 200 - 800 Vessel dia. (mm): 80 -150

PN 036300470



VISCO JET® 80 mm

Material: Stainless Steel/Plastic

Ø (mm): 80

Speed Range (rpm): 200 - 700 Vessel dia. (mm): 115 - 200

PN 036300480 Plastic PN 036300490



VISCO JET® 120 mm

Material: Stainless Steel/Plastic

Ø (mm): 120

Speed Range (rpm): 120-500 Vessel dia. (mm): 170 - 300

PN 036300500 Plastic PN 036300510

	Ø (mm)	Material	Speed Range	Vessel Dia. (mm)	PN
VISCO JET® Crack 80	80	Stainless Steel AISI 316Ti	200 -700	115 - 200	036300505
VISCO JET® Crack 120	120	Stainless Steel AISI 316Ti	120 - 500	170 - 300	036300506

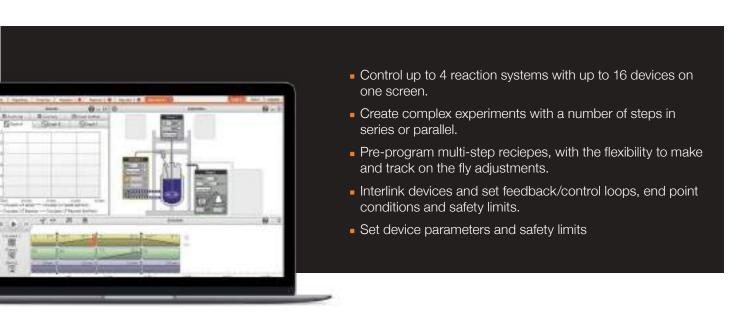
HEI-CONTROL SOFTWARE

For automated and reproducible processes, the simultaneous operation of multiple devices and applications with high viscosities in conjunction with required heat output (e.g. cosmetics). Combine the fastest heat-up times of the Hei-PLATE magnetic stirrers with the power and precision of the Hei-TORQUE Precision.



AVA™ SOFTWARE

AVA™ allows you to take control of your multi-device jacketed reaction systems by automatically logging your process data and allowing for unattended chemistry.



TECHNICAL SPECIFICATIONS

Overhead Stirrers

Model	Hei-TORQUE Core	Hei-TORQUE Value 100	Hei-TORQUE Value 200
Power Rating, Motor Input/Output	105/75 W	90/50 W	120/80 W
Number of Speed Gears	1	1	1
Speed Range	20 - 2,000 rpm	10 - 2,000 rpm	10 - 2,000 rpm
Direction of Rotation	<u> </u>		-
Speed Indicator	Digital	Digital	Digital
Operating Panel	Monochrome 2"	Monochrome 2.4"	Monochrome 2.4"
Speed Control	Electronic	Electronic	Electronic
Torque Max	40 Ncm*	100 Ncm*	200 Ncm
Torque Indicator	Symbol	Symbol	Symbol
Overheat Protection	Automatic Cut-Out	Automatic Cut-Out	Automatic Cut-Out
Motor Protection	Temperature Control Software	Temperature Control Software	Temperature Control Software
Viscoisty Max.	10,000 mPas	60,000 mPas	100,000 mPas
Stirring Cap Max	25 L	50 L	50 L
Analog/Digital Interface	<u> </u>		-
Admissible Session	Continuous Operation	Continuous Operation	Continuous Operation
Counter/Timer	Yes		-
Shaft Diameter Max	10.5 mm	10.5 mm	10.5 mm
Dimensions	70 x 195 x 281.5 mm	86 x 247 x 350 mm	86 x 247 x 350 mm
Stay Bar Size (Ø x w)	10.5 mm	10.5 mm	13 x 160 mm
Weight	2.3 kg	4.4	5.1 kg
Permissible Ambient Conditions	5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity	5-31 °C at 80 % rel. humidity, 32-40 °C decreasing linearly up to max. 50 % rel. humidity	5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity
Protection Class	IP 42	IP 54	IP 54

Standard supply voltage: 115 V. Other voltags upon request, please specify for order.

^{*} temporary overload 65 Ncm

Hei-Torque Value 400	Hei-TORQUE Precision 100	Hei-TORQUE Precision 200	Hei-TORQUE Precision 400
150/90 W	90/50 W	120/180 W	150/90 W
2	1	1	2
10 - 400 rpm 20 - 2,000 rpm	10 - 2,000 rpm	10 - 2,000 rpm	10 - 400 rpm 20 - 2,000 rpm
_	Yes	Yes	-
Digital	Digital	Digital	Digital
Monochrome 2.4"	Color 3.2"	Color 3.2"	Color 3.2"
Electronic	Electronic	Electronic	Electronic
400 Ncm	100 Ncm	200 Ncm	400 Ncm
Symbol	Precise Value	Precise Value	Precise Value
Automatic Cut-Out	Automatic Cut-Out	Automatic Cut-Out	Automatic Cut-Out
Temperature Control Software	Temperature Control Software	Temperature Control Software	Temperature Control Software
250,000 mPas	60,000 mPas	100,000 mPas	250,000 mPas
100 L	50 L	50 L	100 L
_	USB and RS 232	USB and RS 232	USB and RS 232
Continuous Operation	Continuous Operation	Countinuous Operation	Continuous Operation
-	Yes	Yes	Yes
10.5 mm	10.5 mm	10.5 mm	10.5 mm
93 x 247 x 350 mm	86 x 247 x 350 mm	86 x 247 x 350 mm	93 x 247 x 350 mm
13 x 160 mm	13 x 160 mm	10.5 mm	10.5 mm
5.3 kg	4.4 kg	5.1 kg	5.3 kg
5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity	5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity	5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity	5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity
IP 54	IP 54	IP 54	IP 54



HYDROGEN GENERATOR

The H-Genie™ is a compact high pressure hydrogen gas generator designed to be the safest and most powerful gas generator in the world specifically for chemists. As the only generator capable of generating up to 1,450psi of hydrogen gas from water at up to 1 NL/min, the Genie is designed to be the true smart gas cylinder replacement for any chemistry laboratory. It utilizes patented pressure cell technology to produce 4.0 purity from water pressure up to 100 bar (145.5 - 1450 psi) at flow rates up to 1 NL/min. The H-Genie will then monitor hydrogen consumption and notify you when the reaction has stopped. The new H-Genie: Generating Chemistry Safely!

The system is designed to be simple to use with any reactor system. The H-Genie will fill the vessel until the pressure or required volume is reached and automatically maintain the pressure of hydrogen in the vessel as it is continuously consumed by the reaction.

SAFETY & FEATURES



ON-DEMAND GENERATING

Hydrogen is generated on demand from water electrolysis and 3 liters of deionized water. No hydrogen cylinders necessary.



NO HYDROGEN CYLINDERS

No Hydrogen cylinders means the H-Genie can be used in any fume hood freeing up additional space.



PATENTED PRESSURE CELL TECHNOLOGY

The H-Genie utilizes patented pressure cell technology to produce 4.0 purity from water at pressures up to 100 bar (145.5 - 1450 pxi) at flow rates up to 1 NL/min.



SAFETY DETECTION

The system includes hydrogen detectors to automatically detect if there is a gas leak, pressure drop, or the concentration of hydrogen gas has risen above a safe level.



NO STORAGE OF HYDROGEN

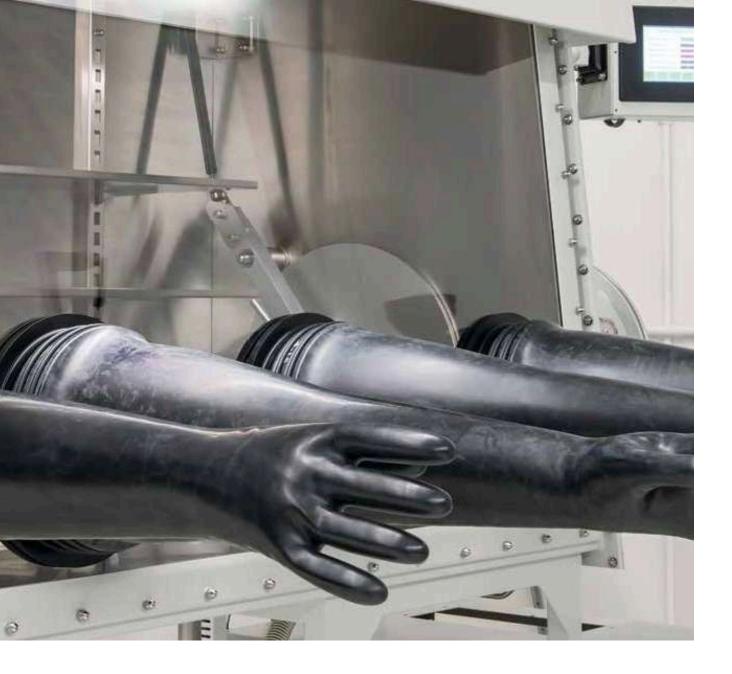
The H-Genie does not store hydrogen but generates it on-demand. If there is an earthquake there is no hydrogen internally to cause a risk and a power cut would stop production of hydrogen automatically.

WATER GOES IN

OXYGEN REMOVED

HYDROGEN IS LEFT

	H-Genie
Pressure Range (bar)	1 - 100
Purity (%)	99.99
Gas Flow Range (NL/min)	0.1 to 1.0
Hydrogen Production Rate (NL/min)	110V
Water Consumption Rate (ml/hr)	200
Water Reservoir Capacity (L)	3
Water Requirement	Deionized Water
Recommended Environment	Ventilated Fume Hood
PN	06500000



AIR SENSITIVE

GLOVE BOXES & AIR PURIFICATION

With our Glove Boxes and Solvent Purfication Systems, we are here to ensure your laboratory environment is free of oxygen, moisture with integration of any OEM equipment. Also we understand that time management and maximum efficiency are crucial in your research, so our line is fully automated and flexible, allowing you to create an environment for air-free development of air-sensitive materials simply.



ACRYLIC GLOVEBOXES

These hermetically sealed enclosures provide reliable yet economical ways to conduct your air sensitive reactions under inert conditions. Your Heidolph PureLab Acrylic Glovebox can be built to order or you can choose from our standard configurations. You can also chose from other materials of construction to meet your compatibility.

- Economical Containment Solutions
- Variety of Configurations and sized systems
- Maintainable Inert Atmosphere
- Solvent Resistant
- Gas Purifier

P/N 2 GB: 062120005 P/N 4 GB: 062130004

P/N Acrylic 2 GB: 062130010

MICRO SOLVENT PURIFICATION SYSTEM

The Heidolph Pure Solve Line of Solvent Purification Systems offer the best in safety, quality components, operator interface and unsurpassed experience in drying and deoxygneating solvents.

The Micro Solvent Purification System is designed as both an economic and space friendly alternative to the larger more tradional free standing units. The system is perfect for the researcher with modest requirements for a single anhydrous solvent who prefers the convenience of having a dedicated solvent drying and dispensing station. No longer do you have to share; now you can have your own.

P/N 062100010



Product	P/N
Hei-VAP Ultimate Hand Lift (HL) G3B	036041046
Hei-VAP Ultimate Hand Lift (HL) G3B XL	036041047
Hei-VAP Ultimate Hand Lift (HL) G5B	036041048
Hei-VAP Ultimate Hand Lift (HL) G6B	036041049
Hei-VAP Ultimate Motor Lift (ML) G1	036041050
lei-VAP Ultimate Motor Lift (ML) G3	036041051
lei-VAP Ultimate Motor Lift (ML) G3 XL	036041052
lei-VAP Ultimate Motor Lift (ML) G5	036041053
lei-VAP Ultimate Motor Lift (ML) G6	036041054
lei-VAP Ultimate Motor Lift (ML) G1B	036041055
lei-VAP Ultimate Motor Lift (ML) G3B	036041056
lei-VAP Ultimate Motor Lift (ML) G3B XL	036041057
lei-VAP Ultimate Motor Lift (ML) G5B	036041058
lei-VAP Ultimate Motor Lift (ML) G6B	036041059
lei-VAP Ultimate Control Hand Lift (HL) G1	036041060
lei-VAP Ultimate Control Hand Lift (HL) G3	036041061
lei-VAP Ultimate Control Hand Lift (HL) G3 XL	036041062
lei-VAP Ultimate Control Hand Lift (HL) G5	036041063
lei-VAP Ultimate Control Hand Lift (HL) G6	036041064
lei-VAP Ultimate Control Hand Lift (HL) G1B	036041065
lei-VAP Ultimate Control Hand Lift (HL) G3B	036041066
lei-VAP Ultimate Control Hand Lift (HL) G3B XL	036041067
lei-VAP Ultimate Control Hand Lift (HL) G5B	036041068
lei-VAP Ultimate Control Hand Lift (HL) G6B	036041069
lei-VAP Ultimate Control Motor Lift (ML) G1	036041070
lei-VAP Ultimate Control Motor Lift (ML) G3	036041071
lei-VAP Ultimate Control Motor Lift (ML) G3 XL	036041072
lei-VAP Ultimate Control Motor Lift (ML) G5	036041073
lei-VAP Ultimate Control Motor Lift (ML) G6	036041074
lei-VAP Ultimate Control Motor Lift (ML) G1B	036041075
lei-VAP Ultimate Control Motor Lift (ML) G3B	036041076
lei-VAP Ultimate Control Motor Lift (ML) G3B XL	036041077
lei-VAP Ultimate Control Motor Lift (ML) G5B	036041078

Product	P/N
-L Heating Bath	036110440
2-L Heating Bath	036110420
-L Heating Bath	036110400
Concave Block Adapter	036110450
-L Heating Bath for Oil	036110430
-L Heating Bath for Oil	036110410
-L Heating Bath for Oil	036110390
Holding Device MR	036306060
PT 1000 Clamping System	036300883
PT 1000 Clamping System for 3 - 5 L	036300884
PT 1000 Temperature Sensor Stainless Steel	036110350
PT 1000 Temperature Sensor Glass-coated	036110360
RS 232 Cable	036306014
Silicone Proactive Cover	036306050
Stirring Bars - Cylindrical Shape	036300930
Stirring Bars - Cross Shape	015880270
Stirring Bars - Evaluation Kit	015882570
Stirring Bars - Oval Shape (15x6 mm)	036111260
Stirring Bars - Oval Shape (25x10 mm)	036111270
Stirring Bars - Oval Shape (30x10 mm)	036111280
Findenser B24 Cone B24 Socket	015610000
Findenser B29 Cone B24 Socket	015610001
indenser B19 Cone B19 Socket	015610002
indenser Mini B24 Cone B24 Socket	015610003
Findenser Mini B19 Cone B24 Socket	015610004
Findenser Mini B14 Cone B14 Socket	015610005
leat-On Multi-Well Block System	015852000
leat-On Multi-Well Block Basic	015822010
leat-On Multi-Well System Polymer	015852015
leat-On Multi-Well Block Basic Polymer	015852025
leat-On Multi-Well Holder	015882000
leat-On Safety Lifting Handles	015882140
leat-On 10ml Insert	015882010

Product	P/N
Hei-VAP Ultimate Control Motor Lift (ML) G6B	036041078
Glassware Set G1 Standard 24/40	036301230
Glassware Set G1 Coated 24/40	036301250
Glassware Set G3 Standard 24/40	036301410
Glassware Set G3 Coated 24/40	036301430
Glassware Set G5 Standard 24/40	036301800
Glassware Set G5 Coated 24/40	036301820
Glassware Set G6 Standard 24/40	036302040
Glassware Set G6 Coated 24/40	036302060
Glassware Set G3 XL Standard	036301421
Glassware Set G3 XL Coated	036301422
Heat-On 25ml Insert	015882020
Heat-On 50ml Insert	015882030
Heat-On 100ml Insert	015882040
Heat-On 150ml Insert	015882050
Heat-On 100ml Block Polymer	015882055
Heat-On 250ml Block Polymer	015882060
Heat-On 500ml Block Polymer	015882070
Heat-On 1 Liter Block Polymer	015882080
Heat-On 2 Liter Block Polymer	015882090
Heat-On 3 Liter Block Polymer	015882100
Heat-On 4 Liter Block Polymer	015882105
Heat-On Insert for 8x16mm Tube	015882110
Heat-On Insert for 6x17mm Biot	015882115
Heat-On Insert for 2x20mm Tube	015882120
Heat-On Insert for 2x24mm Tube	015882130
Heat-On 2x1 in Tube	015882135
Heat-On Insert for 3x28 Biogate	015882136
Heat-On Safety Lift Handles	015882140
Heat-On Multi-Well Holder PTFE	015882161
Heat-On Insert for 4x20mm Tube	015882270
Heat-On Insert for 4x24mm Tube	015882290
Heat-On 5 Liter Block	015882300

Product	P/N
Heat-On 2L Florentine Block	015882350
Heat-On 1L Florentine Block	015882360
Heat-On 500ml Florentine Block	015882370
Heat-On 200ml Pear Block	015882380
Heat-On 300ml Pear Block	015882390
Heat-On Adaptor Plate F Square	015882490
Heat-On Insert Upgrade Kit	015882491
Heat-On 200ml Block with Flask Cutout	015882580
Heat-On 250ml Block with Flask Cutout	015882590
Heat-On Mtp Holder	015882610
Heat-On Mtp Insert 24x16mm	015882620
Heat-On Mtp Insert 48x12mm	015882620
Support Rod for Bath Attachments from 3 to 5 L	036306030
Retort Clamp	015882540
Boss Head	015882550
Flask Stand and Clamp Kit	015882510
Starfish Base Plate (135mm)	015890010
Starfish Base Plate (145mm)	015890020
Starfish Base Plate Handles (Pair)	015890060
150ml Flask Insert	015890250
100ml Flask Insert	015890260
50ml Flask Insert	015890270
10ml Flask Insert	015890280
5ml Flask Insert	015890290
Monoblock for 16x25mm Tubes	015890080
Monoblock for 16x24mm Tubes	015890090
Monoblock for 40x12mm Tubes	015890110
Monoblock for 16x28mm Vials	015892040
Monoblock for 20x21mm Vials	015900120
Monoblock for 40x17mm Vials	015890130
Monoblock for 40x15mm Vials	015890140
Monoblock for 40x12mm Vials	015890150
Polyblock for 1 x 250ml Flask	015890160

Product	P/N
Polyblock for 3 x 25mm Tubes	015890170
Polyblock for 3 x 24mm Tubes	015890180
Polyblock for 9 x 16mm Tubes	015890190
Polyblock for 9 x 12mm Tubes	015892000
Polyblock for 3 x 28mm Vials	015892050
Polyblock for 3 x 21mm Vials	015890210
Polyblock for 7 x 17mm Vials	015890220
Polyblock for 9 x 15mm Vials	015890230
Polyblock for 9 x 12mm Vials	015890240
5 Way Clamp - Velcro	015890310
5 Way Clamp - Silicone	015892140
Water Manifold	015890340
Gas/Vacuum Manifold	015890350
Replacement Self Adhesive Velcro Pads (200mm, 10 pack)	015890320
Replacement Velcro Loop Strips (200mm, 5 pack)	015890330
Replacement Silicone Straps (200mm, 5 pack)	015892170
650mm Support Rod	015890410
650mm Support Split Rod	015890420
Carousel 12 Reaction System	015862450
Quick Thread Glass Reaction Tube (6 pack)	015862540
Quick Thread Glass Reaction Tube (12 pack)	015862550
Easy-On Fluoropolymer Cap (6 pack)	015862520
Octagonal Stirring Bar 16.5mm RE (20 pack)	015880240
Cross Shape Stirring Bar 13mm (20 pack)	015880270
PTFE Magnetic Stirring Bar Retriever 350mm	015880280
PTFE Magnetic Stirring Bar Evaluation Kit (30 pack)	015880290
Silicone Seals for all Caps (100 pack)	015880430
Zinc Plated Wire Rack for 36x24mm Tubes	015860430
Carousel 12 Plus Stand	015862500
Carousel Stirring Hotplate 115V US Plug	015750024
Carousel Temperature Controller	015750003
Carousel 12 Plus Cooling Reservoir & Lid	015862460
Digital Thermometer (-250°C to +400°C)	015860140

Product	P/N
Dry Ice Scoop	015860170
Silicone Septa for PTFE Caps	015880430
250ml Reaction Flask, Reflux Tube and Connecting Set	015861962
B24/29 Rodaviss Sealing Cap	015880500
Rotary Evaporator Adapters Ordinary B29 Socket to B24 Cone	015880530
100ml Reaction Flask	015880610
2 x 250ml Azeotropic Reaction Flask (3 pack)	015881552
Insert for 100ml Reaction Flask (6 pack)	015860480
Reaction Flask Support Ring (6 pack)	015860500
Elliptical Stirring Bar 25mm RE (10 pack)	015880330
Tubing for inert Gas or Reflux Cooling (2 meters)	015860550
250ml Reaction Flask with B24/29 Sidearm & Septa Port (6 pack)	015880670
2x B24/29 Liquid Additions Dropping Funnel & Pressure Equalizing Arm (3 pack)	015880680
B24/29 Solid Additions Funnel (3 pack)	015880690
PTFE/Silicone Septa 29mm - B24/29 (50 pack)	015880720
Cooled Carousel 6 Plus (Reservoir, Head, Stand & Cover)	015850410
Protective Cold Temperature Gloves	015860830
Cold Temperature Apron 1060mm Long Waterproof	015860180
Protective Face Shield	015860190
Cool-It Small Bowl & Lid	015882420
Cool-It Large Bowl & Lid	015882460
Adapter Plate for 135mm Hotplate	015882450
Silicone Seals for All Caps (100 pack)	015880430
Zinc Plated Wire Rack for 36x24mm Tubes	015860430



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