

Heidolph Sterilization & Life Science Solutions





Polymer 2040

008

Act Speed

rpm

Set Speed

4
5
6
7
8
9
10

40
60
80
100
120

min

0 1
0 0
Timer

heidolph



PREMIUM EQUIPMENT | SOLUTION SUPPORT | INSTALLATION & TRAINING

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'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, and carries an average 10 year lifespan; making it a worthwhile investment.

For support, feel free to reach out to your local Regional Specialist. Our seasoned professionals will help get you the correct products based on your application, budget, and timeline.

We are available to you 24/7.



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1000
800
600
400
approx. vol.
1000 ml
SIMAX
PUBLIC

1000
75
25
APPROXIMATE VOLUME



AUTOCLAVES

STERILIZATION UNITS

Now more than ever, it is critical to sterilize your laboratory's equipment, materials and hazardous waste. That's what the Heidolph Tuttnauer Autoclave series is all about.

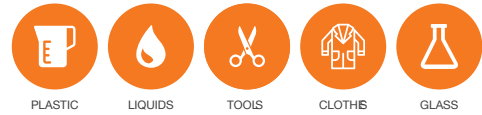
Our benchtop sterilizers provide a fast, safe, dependable and convenient means of sterilizing liquids, media, instruments, glassware, clothing and waste. The line includes a wide range of models from our manually controlled analog models to our electronically controlled models with built-in printers for GLP-compliant documentation.



LAB LINE “EL” BENCHTOP AUTOCLAVES

Designed to autoclave everything in your lab, including liquids.

- No water utility connections needed, just plug in and add water
- Two integrated temperature probes for complete sterilization of liquids
- Four validated cycles (glass, plastic, liquid A and liquid B-waste)
- Stores up to 200 past cycles you can open on your PC
- Create up to 16 custom cycles
- Trays Included
- Optional Biohazard filter (BH) prevents contaminated air from exhausting into the lab



Options that are available on all “EL” models include: Warming (95° to 104°C), Isothermal (80° to 94°C), F₀, 21 CFR with R.P.C.R software, Biohazard filter and Over Pressure Cycle to ensure sealed bags and containers do not break during the sterilization cycle.

	2840ELP	3850ELP	3870ELP	5075ELP
Chamber Volume (L)	28	65	85	160
Max Available Height (in)	9"	12.1"	12.1"	17"
Chamber Dimension (Øxd)	11" x 18"	15" x 19.7"	15" x 27.2"	19.7" x 29.5"
External Dimensions (WxHxD)	20.9" x 17.3" x 24.8"	28.3" x 21.3" x 30.1"	28.3" x 21.3" x 37"	33.9" x 29.1" x 44"
Power	230V, 1 phase (60 Hz) NEMA 6-15	230V, 1 phase (60 Hz) NEMA 6-15	230V, 3 phase (60 Hz) NEMA L15-30	230V, 3 phase (60 Hz) NEMA L15-30
Utilities	No plumbing required			
P/N	023210671	023210681	023210672	023210675
Autoclave Stand (PN 023212609)	NA	Free with Autoclave	Free with Autoclave	NA
Table with SS Top & Castors	023212601	023212601	023212601	NA
Table - SS Top (36" x 48") Castors & Lower Shelf	NA	023212600	023212600	023212600

Erlenmeyer Flask (ml) Loading Capacity

Model	250	500	1000	2000	3000	5000
2840	1 x 9	1 x 4	3	0	0	0
3850	1 x 17	1 x 11	1 x 6	1 x 3	0	0
3870	1 x 23	1 x 17	1 x 10	1 x 5	0	0
5075	1 x 50 1 x 18	1 x 18 1 x 18	1 x 15	1 x 7	1 x 4	1 x 3

Schott-Duran Flasks (ml) Loading Capacity

Model	250	500	1000	2000	3000	5000
2840	1 x 12	1 x 9	1 x 5	0	-	0
3850	1 x 27	1 x 16	1 x 11	1 x 6	-	0
3870	1 x 36	1 x 23	1 x 18	1 x 9	-	0
5075	1 x 55 1 x 39	1 x 32 1 x 27	1 x 20	1 x 10	-	1 x 5

2 YEAR WARRANTY | FREE INTERNAL PRINTER

LAB LINE VERTICAL AUTOCLAVES



Designed to autoclave everything in your lab, including liquids.

- No utility connections needed (models 2840 ELV-WR and 3870ELV-WR) just plug in and add water
- Two integrated temp. probes to ensure the liquid is completely sterilized
- Four validated cycles (glass, plastic, liquid A and liquid B-waste) and two liquid cooling cycles included with 5075ELVC
- Stores up to 200 past cycles you can open on your PC
- Create up to 16 custom cycles
- Two baskets included
- Optional biohazard filter (BH) prevents contaminated air from exhausting into the lab

Options that are available on all “EL” models include: Warming (95° to 104°C), Isothermal (80° to 94°C), F₀, 21 CFR with R.P.C.R software, Biohazard filter and Over Pressure Cycle to ensure sealed bags and containers do not break during the sterilization cycle.

	2840ELV Mobile	3870ELV Mobile	5075ELVC
Chamber Volume (L)	28	85	160
Max Available Height (in)	15.5"	25"	27"
Chamber Dimensions (Øxd)	11" x 18"	15" x 27.2"	19.7" x 29.5"
External Dimensions (WxHxD)	21.3" x 38.6" x 17.3"	28.7" x 39.4" x 21.3"	34.3" x 42.9" x 30.3"
Power	230V, 1 phase (60 Hz) NEMA 6-15	230V, 3 phase (60 Hz) NEMA L15-30	230V, 3 phase (60 Hz) NEMA L15-30
Utilities	No plumbing required		Treated Water, Tap Water, Compressed Air and Floor Sink
P/N	023210744	023210745	023210990
Quiet Air Compressor for models with cooling			023250023



Erlenmeyer Flask (ml) Loading Capacity

	250	500	1000	2000	3000	5000
2840	2 x 5	2 x 3	1	1	1	1
3870	3 x 12	3 x 8	2 x 5	2 x 2	2 x 1	1
5075	3 x 21	3 x 14	3 x 8	2 x 5	2 x 4	1 x 2

Schott-Duran Flasks (ml) Loading Capacity

	250	500	1000	2000	3000	5000
2840	2 x 8	2 x 3	1	1	1	1
3870	3 x 19	3 x 12	2 x 8	2 x 2	2 x 1	1
5075	3 x 21	3 x 14	3 x 8	2 x 5	2 x 4	1 x 2

VIRUS DEFENDER

2 YEAR WARRANTY | FREE INTERNAL PRINTER

VIRUS DEFENDER

MODEL 3870HSG - WS

Independent from Utilities

- Plug & Play with internal reservoirs - No need to connect the autoclave to the building utilities for distilled water, tap water and drain
- Pre & Post Vacuum for faster more efficient air removal (tubing, glassware, pouches, wrapped tools and garments)
- Built-in steam generator and vacuum pump for complete drying
- Water Saving System - Use only 5 liters of water a day
- Free standing with built-in swivel wheels for mobility
- Optional Biohazard filter (BH) prevents contaminated air from exhausting into the lab



Options that are available on all “HSG” models include: Warming (95° to 104°), Isothermal (80° to 94°), F₀, 21 CFR with R.P.C.R software, Biohazard filter and Over Pressure Cycle to ensure sealed bags and containers do not break during the sterilization cycle.

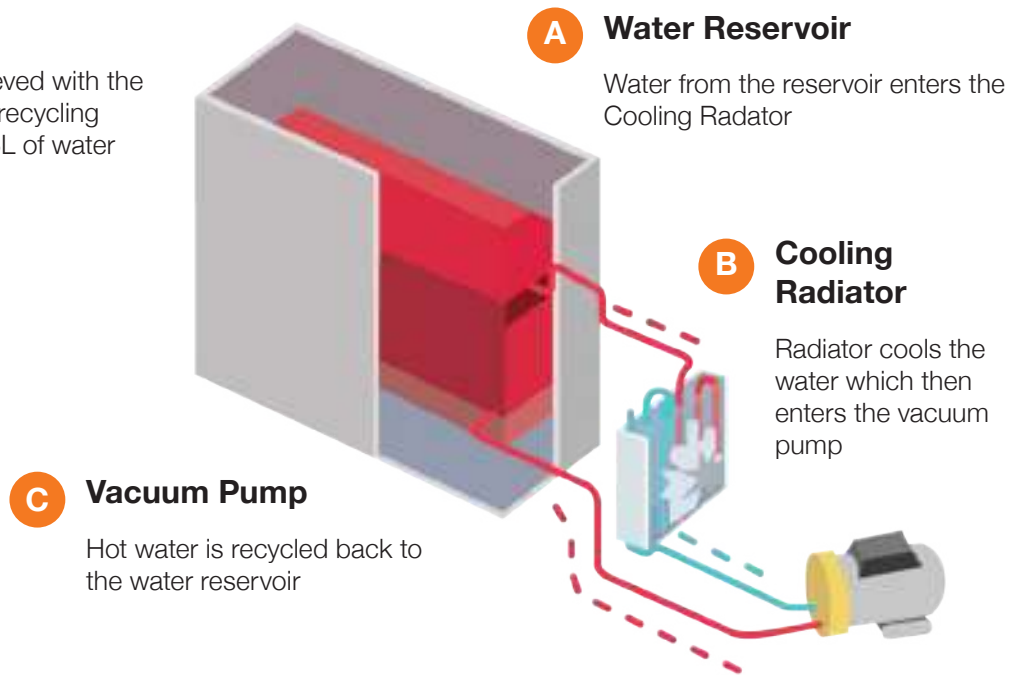
3870HSG - WS

Chamber Volume (L)	85
Max Available Height (in)	12.1"
Chamber Dimension (Øxd)	15" x 27.2"
External Dimension (WxHxD)	28.3" x 53.7" x 46.5"
Power	230V, 3 phase (60 Hz)
Utilities	No plumbing required
Printer PN (included)	023250015
P/N	023210680

2 YEAR WARRANTY | FREE INTERNAL PRINTER

WATER SAVING SYSTEM

Huge water savings are achieved with the optimal highly efficient water recycling system that consumes only 5L of water per day.



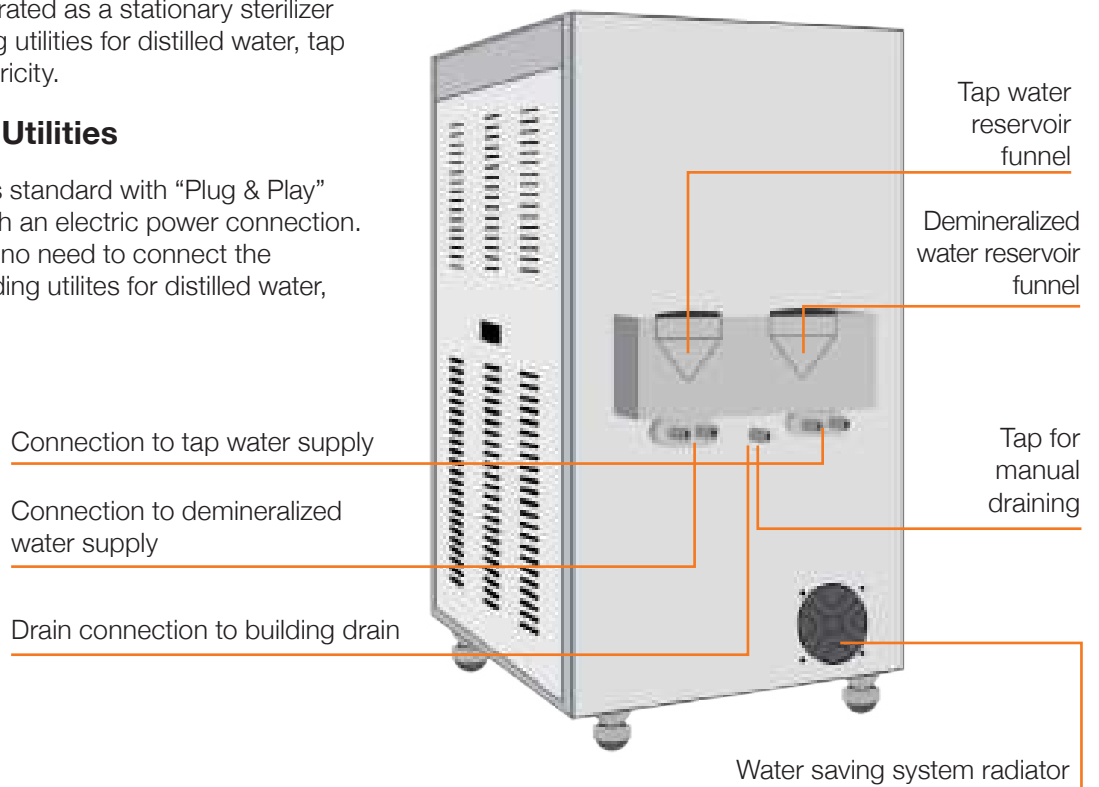
UTILITY CONNECTION FEATURES

Dependent on Utilities

The HSG can be operated as a stationary sterilizer connected to building utilities for distilled water, tap water, drain and electricity.

Independent of Utilities

The HSG-WS comes standard with "Plug & Play" option to operate with an electric power connection. In this mode there is no need to connect the autoclave to the building utilites for distilled water, tap water and drain.



VIRUS DEFENDER

LAB LINE “ELC-PV-G” FREE STANDING AUTOCLAVES



Lab Line Autoclaves with Cooling Coils "C", Vacuum Pump "PV" and an integrated steam generator "G"

- Steam generator for heat on demand and quicker heat up times.
- Pre & Post Vacuum for faster, more efficient air removal (tubing, glassware, pouches, wrapped tools or garments)
- Cooling Coils decreases cool down time by 75%
- Steam generator with post vacuum for complete drying
- Optional Biohazard filter (BH) prevents contaminated air from exhausting into the lab

Options that are available on all "EL" models include: Warming (95° to 104°C), Isothermal (80° to 94°C), Fo, 21 CFR with R.P.C.R software, Biohazard filter and Over Pressure Cycle to ensure sealed bags and containers do not break during the sterilization cycle.



	2840ELC-PVG-P Benchtop	3870ELC-PVG-P	5075ELC-PVG-P
Chamber Volume (L)	28	85	160
Max Available Height (in)	9"	12"	17"
Chamber Dimension (Øxd)	11" x 18"	15" x 27.2"	19.7" x 29.5"
External Dimension (WxHxD)	20.9"x 17.3" x 29.9"	28.7" x 53.8" x 46.0"	34.3" x 62.1" x 46.3"
Power	230V, 1 phase (60 Hz) NEMA 6-15	230V, 3 phase (60 Hz) NEMA L15-30	230V, 3 phase (60 Hz) NEMA L15-30
Utilities	Treated Water, Tap Water, Compressed Air and Floor Sink		
P/N	023210683	023210678	023260002
Quiet Air Compressor	023250023	023250023	023250023

Erlenmeyer Flask (ml) Loading Capacity

	250	500	1000	2000	3000	5000
2840	1 x 9	1 x 4	3	0	0	0
3870	1 x 23	1 x 17	1 x 10	1 x 5	0	0
5075	1 x 50 1 x 18	1 x 18 1 x 18	1 x 15	1 x 7	1 x 4	1 x 3

Schott-Duran Flasks (ml) Loading Capacity

	250	500	1000	2000	3000	5000
2840	1 x 12	1 x 9	1 x 5	0	-	0
3870	1 x 36	1 x 23	1 x 18	1 x 9	-	0
5075	1 x 55 1 x 39	1 x 32 1 x 27	1 x 20	1 x 10	-	1 x 5

2 YEAR WARRANTY | FREE INTERNAL PRINTER

LARGER CAPACITY AUTOCLAVES

- Sizes available are 120L to 540L
- The standard 5075HSG, 4472, and 5596 models are listed on the following page
- Optional Features include:
 - Electric vacuum pump
 - Recessing the autoclave through a wall opening
 - Double Door (Pass-Through) models
 - RO Water treatment systems
 - Loading Cart & Transfer Carriage
 - Clean Steam or Special Applications
- To get started and create the autoclave that meets your needs, contact your Regional Sterilization Specialist or call (224)265-9600 x 115, or email: AsktheExpert@heidolph.com



PLASTIC LIQUIDS TOOLS CLOTHS GLASS

Service

Installation & Training	Quoted with Autoclave
Yearly PM Service	Quoted with Autoclave
IQ/OQ Service - Large Autoclaves	080000852
IQ/OQ/PQ Service - Large Autoclaves	080000853

	5075 HSG	4472 ECP-V	5596 ECP-V	5596 ECP	66 Series
Chamber Volume (L)	160	120	250	250	430 or 540
Internal Chamber Dimension (in)	19.5" x 29.5"	16" x 16" x 28"	20" x 20" x 38"	20" x 20" x 38"	66C - 26" x 26" x 39" 66D - 26" x 26" x 49"
Door Configuration	Single Door, Manual Hinged (Swing Out)	Single Door, Automatic Vertical Sliding	Single Door, Automatic Vertical Sliding	Single Door, Manual Hinged (Swing Out)	Single Door, Automatic Vertical
Steam Supply *Customer to provide appropriate water quality or purchase optional Reverse Osmosis Water Treatment System PN 019200004	20 KW Integral Carbon Steel Steam Generator with Automatic Blow Down (3-phase Power Required, 208V or 480V)		30 KW Integral Carbon Steel Electric Steam Generator with Automatic Blow Down (3-phase Power Required, 208V or 480V)		36 KW Integral Carbon Steel Electric Steam Generator with Automatic Blow Down (3-phase Power Required, 208V or 480V)
Mounting	Free Standing with Stainless Steel Cabinet				Free Standing with Stainless Steel Cabinet or Recessed
Controls	BacSoft Microprocessor with Color Screen & Touch Pad		BacSoft Microprocessor with 7" Color Touch Screen		
Printer	Alphanumeric, Thermal				
USB Port	Included				
Ethernet Connection	Included				
Cycles	Gravity, Liquids in Unsealed/Vented Containers, Pre and Post Vacuum				
Test Cycles	Vacuum Leak Test, Bowie Dick Test				
Piping	Stainless Steel Threaded				
Components	Brass & Copper				
Valves	Electric Solenoid				Air Operated
Air Source	Not Required	Air Compressor Included			House Air, 90 PSIG min 3.5 SCFM or a compressor can be included
Vacuum Source	Vacuum Pump	Water Ejector			Water Ejector or Optional Vacuum Pump
Condensate Cooler	Effluent cooled to below 140°F				
Chamber	316 L Stainless Steel				
Jacket	Copper Coil				304L Stainless Steel
Loading Equipment	Rack & Two Shelves				
Parts & Labor Warranty	1 Year (Excludes Expendable & Consumable Items)				
Chamber Warranty	10 Year				15 Year
Freight, Installation, & Training	Included				Not Included
Installation Includes	Receiving, Un-loading, Uncrating (Removal or Crating Materials), Disassembly and Reassembly if necessary, Transporting to Final Install Site (Free and Clear Path Must be Provided), Set-in-Place, Leveling, Hook Up to Building Utility Connections (Within 3') including Installation of Seismic Tie-Down Kits where Applicable, Start Up & Customer Training. Non-Union Labor, Based on standard work hours, 8:00 AM to 5:00 PM, Monday through Friday, excluding holidays. If installed above ground level, an elevator must be available, capable of supporting equipment size and weight				Submit Required Checklist
Installation Excludes	Specialized Rigging, Wall Penetrations, Permits, Inspections, Building Utility Modifications				Submit Required Checklist
PN	019250756	019244728	019255968	019255960	Submit Required Checklist

[Download Installation Checklist](#)

ELECTRONIC BENCHTOP AUTOCLAVES

Designed to autoclave wrapped, unwrapped, glass and tools. Not suitable for liquids (see liquid autoclaves on pages 8 - 12).

- Sterilization time up to 99 minutes
- Temperature selection from 105° to 137°C (221° to 279°F)
- Includes trays
- EAP Models allow closed door drying
- In-line particle filter to protect valves
- Electronic pressure and temperature sensors
- Low Water Alarm - sounds when reservoir needs to be refilled.
- Standby Heating - keeps chamber warm for quicker cycles
- Built In Printer - Provides a printed summary at the end of each cycle, documenting temperature, elapsed sterilization and drying time, selected cycle number, real time and date, as well as any errors or interruptions that may occur during the cycle.



	2340EP	2540EAP
Chamber Volume (L)	19	23
Max Available Height (in)	6.75"	8.3"
Chamber Dimension (ØxD)	9" x 18"	10" x 18"
External Dimension (WxHxD)	20" x 15" x 20"	20" x 15" x 20"
Power	120V	120V
Utilities	No Plumbing Required	
P/N	023210215	023210380

	3545EP	3850EP	3870EAP
Chamber Volume (L)	34.4	65	85
Max Available Height (in)	10.1"	12.1"	12.1"
Chamber Dimension (ØxD)	12.2" x 18.5"	15" x 20"	15" x 27"
External Dimension (WxHxD)	23.5" x 18" x 21.5"	26" x 21" x 27"	26" x 21" x 34"
Power		230V, 1 phase (60 Hz) NEMA 6-15	
Utilities	No Plumbing Required		
P/N	023210690	023210495	023210673
Autoclave Stand (PN 023212609)	NA	Free with Autoclave	Free with Autoclave
Table with SS top (30" x 36") & Castors	023212601	023212601	023212601


2 YEAR WARRANTY

MANUAL ANALOG BENCHTOP AUTOCLAVES

Designed to autoclave glass, wrapped, and unwrapped tools.
Not suitable for liquids (see liquid autoclaves on pages 8 to 12).

- 60 minute cycle timer
- Temperature selection from 100° to 134°C (212° to 273°F)
- Combination pressure and temperature gauge
- Includes trays



	1730M	2340M	2540M	3870M
Chamber Volume (L)	7.5	19	23	85
Max Available Height (in)	5.25"	6.75"	8.3"	12.1"
Chamber Dimension (ØxD)	7" x 12"	9" x 18"	10" x 18"	15" x 27"
External Dimension (WxHxD)	17" x 12.5" x 16"	20" x 15" x 20"	20" x 15" x 20"	26" x 21" x 34"
Power	120V	120V	120V	230V, 1 phase (60 Hz) NEMA 6-15 
Utilities	No Plumbing Required			
P/N	023210002	023210100	023210304	023210550
Autoclave Stand (PN 023212609)				Free with Autoclave
Table with SS top (30" x 36") & Castors	023212601	023212601	023212601	023212601

2 YEAR WARRANTY

ACCESSORIES

Printer Paper		023212200
Chamber Brite		023212805
Mobile Lifting Device for 5075ELVC & 3870ELV-WR		023250016
Biohazard Air Filtration System - Factory Installed		023250011
5075ELVC Large SS Wire Basket	023211790	Model 3850 SS Tray Large with no holes 023213583
5075ELVC Small SS Wire Basket	023211795	Model 3850 SS Tray Small with holes 023213591
2840ELV -High SS Wire Basket	023211805	Model 3870 SS Tray Small with no holes 023213672
2840ELV -Lower SS Wire Basket	023211806	Model 3850 SS Tray Small with no holes 023213753
2840ELV -Lower SS Solid Basket	023211807	Model 2840ELP Solid Tray 023290011
3850/70ELV -Large SS Wire Basket	023211840	Pouch Rack for 2340, 2540, 3545 023212706
3850/70ELV -Small SS Wire Basket	023211850	Pouch Rack for 3870 023212805
3850/70ELV -Small SS Solid Basket	023211860	Model 2840ELP Wire SS Basket, Wire 400x180x160mm 023211809
3850/70ELV -Large SS Solid Basket	023211870	Model 5075ELP Wire SS Basket 715x380x250mm 023211891
3850/70ELP SS Wire Basket	023211871	Model 38xx Wire SS Basket 500x260x225mm 023211892
5075ELVC Large SS Solid Basket	023211890	Model 2840ELP SS Container 400x190x160mm 023211808
5075ELVC Small SS Solid Basket	023211895	

AUTOCLAVE SOFTWARE

EL Model Software	P/N
Warming Cycle (95° - 104°C)	023250018
Isothermal/Disinfection (Agar preparation 60° - 94°C)	023250019
F ₀ Control - Heat Sensitive Material and Optimal Sterilization Time	023250020
21 CFR & R.PC.R for Part 11 Compliance	023250025
Biohazard Filtration System (for EL models - Virus Protection)	023250011
Over Pressure Cycle - For sealed bags, syringes, and bottles (not available for Model 2840ELP)	023250022
Special Program to work with extended sterilization times	023250013
Special Program to have Multiple Cycle Sterilization	023250014
R.PC.R Software - Automatic Recording of Cycle Information to your PC	023212800

WATER DISTILLERS

Think Wise. Think Pure.

- Effectively removes most tap water impurities
- Easy to remove boiler for manual fill - no water hook-up
- Automatic shut-off after 1 gallon cycle
- Rust-proof stainless steel condenser
- Unique recessed heating base reduces scale buildup
- Includes collector & storage bottle
- Water system is 99% free of impurities



	9000	7000	7000-8	7000-12
Distillate Capacity	1 gal/3.8L in 4.5h; up to 5gal/18.9L in 24h	3.5 gal/13.3 L in 18h	8 gal/30.4L in 28h	12 gal/45.6L in 30h
Power Supply	115V/60Hz	115V/60 Hz	115V/60 Hz	115V/60 Hz
Dimension	9.5 x 15 x 16 in 24.1 x 38.1 x 40.6 cm	11 x 17 x 17 in 28 x 43 x 43 cm	11 x 36 x 17 in 28 x 91 x 43 cm	11 x 42 x 17 in 28 x 107 x 43 cm
External Dimension	17" x 12.5" x 16"	20" x 15" x 20"	20" x 15" x 20"	26" x 21" x 34"
Weight	10lb/4.5 kg	30lb/13.5 kg	37lb/16.5 kg	44lb/20 kg
P/N	023211150	023211160	023211170	023211180

Water Distillers Accessories	P/N
Carbon Filter Cartridge - Models 9000 (Change after 6 months of use)	023212040
Distiller Cleaner KSD - 40 oz	023212804
Replacement Container for Model 9000 Distiller	023211155

HEIDOLPH TUTTNAUER AUTOCLAVES - SERVICES



All Heidolph Tuttnauer sterilizers require general maintenance and cleaning. A sterilizer often requires regulatory compliance at some local or federal standard based on the application within the operation of the unit. Our factory trained technicians are here to provide basic product upkeep, and to support your sterilizer through a variety of services outlined below:

Preventive Maintenance (with or without calibration recommended yearly on-site or in-house)

- Replacement of Chamber BRITE, safety valve, safety valve holder, door bellow, door gasket, clean water electrode, strainer, and inspect the reservoir and piping
- Solenoid Valves are checked for proper operation
- Safety features are tested
- Preventative maintenance agreements come with discount on parts

IQ/OQ (recommended)

- Documented proof that utilities and equipment have been delivered and installed, in accordance with the requirements and safety regulations stipulated in the design qualifications
- Consists of:
 - IQ/OQ test plan and report
 - Temperature and pressure mapping

PM with calibration

- Everything included with the PM service, plus temperature and pressure calibration with empty chamber temperature mapping
- A total of three cycles with probes will be run

IQ/OQ/PQ

- Documented proof that utilities and equipment have been delivered and installed, in accordance with the requirements and safety regulations stipulated in the design qualifications
- Consists of:
 - IQ/OQ/PQ all testing and reports in the IQ/OQ plus a half and full load cycle tests
 - Please contact Heidolph to discuss your PQ needs to structure the load testing to meet your application

Services	P/N
Preventive Maintenance - On-Site for all Benchtop & Vertical Models	080000115
Preventive Maintenance/Calibration Service - On-site for all Benchtop & Vertical Models	080000116
On-Site Setup and Training	080000126
On-Site Calibration Service	080000301
In-House Calibration Service	080000401
IQ/OQ (Benchtop & Vertical Models)	080000850
IQ/OQ/PQ (Benchtop & Vertical Models)	080000851
Contact Heidolph Service for addition on-site and in-house service offerings	

HEIDOLPH SUPPORT CENTER



Customer Service: (866) 650-9604



Online Support service@heidolph.com

We respond in 24 hours or less **GUARANTEED!**

BIOLOGICAL INDICATORS & REAL TIME AUTOMATIC READER

Automatic reading and traceability system for sterilization

- 20 min or 1 hour process times
- Multiple process times can be used simultaneously
- Ease of use
- Thermal Printer
- USB Connection with free software download
- One Bi & reader can be used in both gravity and pre/post vacuum sterilizers



BioNova PN 023271000

Mini Bio PN 023271001



Gravity/Vacuum Rapid - 1 hour

PN 023271003



Gravity/Vacuum Ultra Rapid - 20 min

PN 023271004



Gravity/Vacuum - 1 hour

PN 023271005



Gravity Vacuum - 20 min

PN 023271006



Multi-Variable Indicator Type 4

PN 023271007

CHEMICAL INDICATOR



Integrators Type 5

PN 023271008



Self Adhesive Tape Type 1

PN 023271009



Thermometer

PN 023271002

Combine our Biological Indicators with your IQ/OQ, IQ/OQ/PQ, Calibration, PM, or PM with calibration service for additional cycle verification.

Contact your Regional Sterilization / Life Sci Solutions Specialist if you have any questions on the best Biological Indicator to meet your application needs.

CLEAN & SIMPLE ULTRASONIC BATHS

Clean & Simple Ultrasonic Baths feature 60kHz of quiet cleaning power, which is less aggressive to instruments, yet strong enough to remove all surface contamination. Systems are available in 1 and 3 gallon sizes for standard glassware and instruments. A full selection of optional accessories are available to meet your specific needs. For added samples processing and cleaning power, choose an "H" model, which features a built-in heating unit.

Fill your Ultrasonic Bath with water and drop in two cleaning tablets. Watch them dissolve and clean in about a minute. The tablets create a non-ionic cleaning solution that is non-corrosive, nontoxic, non-caustic and biodegradable.

- Built-in heater ("H" models) for added sample processing and cleaning power
- High efficiency 60kHz of cavitation for thorough and quiet cleaning
- Durable vinyl-clad steel housing is easy to clean and resists scratching
- Stainless steel tank with cover included
- Full line of accessories



Cleaning Tablet Features

- Eliminates handling of heavy 1 gallon premixed cleaning solution containers
- Enzymatic solution effectively breaks down protein

	CSU 1	CSU 1H	CSU 3	CSU 3H
Tank Dimensions (WxHxD)	9.4" x 4" x 5.4"	9.4" x 4" x 5.4"	15.5" x 6" x 9"	15.5" x 6" x 9"
External Dimensions (WxHxD)	12.6" x 8.8" x 9.9"	12.6" x 8.8" x 9.9"	19" x 13.5" x 16"	19" x 13.5" x 16"
Tank Capacity	0.8 gal/3.4L	0.8 gal/3.4L	3.0 gal/12.7L	3.0 gal/12.7L
External Dimension	17" x 12.5" x 16"	20" x 15" x 20"	20" x 15" x 20"	26" x 21" x 34"
PN	023211055	023211075	023211065	023211085

Accessories

CSU 1 Spare Parts Kit - beaker holder, 2 glass beakers, bands and beaker labels

P/N

023212010

CSU 3 Spare Parts Kit - beaker holder, 2 glass beakers, bands and beaker labels

023212020

CSU 1 Sample Basket

023212050

CSU 3 Sample Basket

023212060

Carbon Filter Cartridge , pkg of 6

023212040

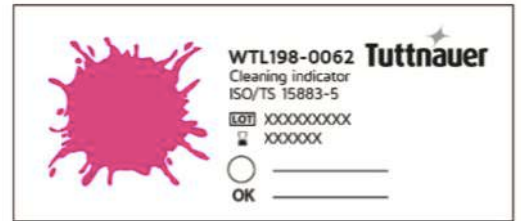
Clean & Simple Ultrasonic Cleansing Tablets, box of 144 tablets

023212030

ULTRASONIC CLEANERS INDICATORS FOR CLEANING EFFICIENCY TESTS

Characteristics:

- Synthetic substrate, thermostable
- Test soil of organic components (proteins, carbohydrates, fatty acids and colorants) according to ISO/TS 15883:2005. Splat formulation allows detection of all factors that affect the cleaning/washing process outcome. PN 023271012
- Should be used for routine monitoring in an ultrasonic washer
- Specific metallic holder: PN 023271011



ULTRASONIC CLEANERS INDICATORS FOR CAVITATION PERFORMANCE TEST

Characteristics:

- For ultrasonic washing machines operating at frequencies >35 kHz, between 18-70°C
- Challenge level: High
- Especially designed to monitor the ultrasonic machine without load, in order to detect strong and weak spots of cavitation



Unprocessed



Processed with High Cavitation Energy

	P/N
Ultrasonic Vials (6 ct box)	023271010
Cleaning Indicator Holder	023271011
Cleaning Indicator (High Level) (200 ct bag)	023271012



Multi Reax

Act Time
min
008

Act Speed
rpm

Start
Stop

Time
Select

Speed

▶

▶

Set Time

heidolph

1 2 3 4 5 6 7 8 9 10
Set Speed



HEI-MIX

SHAKERS, MIXERS & VORTEXERS

The Hei-MIX Series has the power to complete any shaking or mixing tasks reliably and efficiently. With a wide range of attachments and extensions, each shaker can be configured to your specific application.

Our shakers have been designed with a low center of gravity, which prevents gliding at a high speed, even on a damp surface. The series also includes a temperature isolated drive that will stop any fluctuation of the temperature.

Whatever you're shaking and mixing requirements may be, the Hei-MIX Series Shakers are a robust partner and will be on your side for many years.

HEI-MIX

Choose from size specific motions - from one to three dimensional movements, from three different load capacities and optional upgrade to an incubator shaker.

- A large range of shakers and load capacities - from test tube shakers to large multitier platform shakers.
- Accessories and attachments specific to each model that best matches your application needs.
- Choose from six different motions, shaking orbits and angles.
- Choose from three different load capacities of 2, 5 or 10 kg depending on model to save bench space or for high sample throughput.



ALL THE MOVES

Benefits at a Glance



Non-skid rubber mats that prevent vessels from sliding.



No spills: Select from a wide range of secure flask attachments.



All models have been designed with a low center of gravity which prevents gliding at high speed.



An over temperature sensor preventively shuts off the unit in a dangerous heat-up situation.



An insulated drive system prevents any heat build-up from the motor and consequently thermal damage to your sample.



Vibrating/Vortexing



Orbital



Rocking



Reciprocating



Wave



Overhead

TEST TUBE SHAKERS – VORTEXER

Fast and Powerful

Ideal for quickly mixing the contents of test tubes, centrifuge tubes, and similar vessels with various diameters and lengths. Without exception, the powerful shaking motion guarantees excellent mixing results.

Vibrating/Vortexing



Multi Reax – The Allrounder

For mixing 12 or 26 samples simultaneously

- Package includes two attachments:
Device for 26 test tubes with
10 to 16 mm Ø, and for 12 test tubes with
16 to 32 mm Ø
- The vibration orbit of 3 mm
delivers excellent mixing results even for
large liquid samples with suspended solids
- Digital, stepless speed control with speeds
from 150 to 2,000 rpm
- Process timer up to 999 minutes for
automatically ending the shaking function
- Virus Defense Tool

PN -036130040



VIRUS DEFENDER

Reax top

The standard model

Fast and dependable dispersion even
for media with suspended solid or high
viscosity – perfect for temporary operation.

PN 036130000



Reax Control

The precision model

The electronic speed governor keeps
speeds consistent even at low speeds
and changing loads.

PN 036130020

3 YEAR WARRANTY

OVERHEAD SHAKERS

For Small To Large Tasks

The work horse for different vessels and volumes – even water, wastewater, and silt tests pursuant to DIN 38414 part 4.

Overhead

With quick-clamping system for easily swapping and using different vessels.



- Stepless speed control
- Quick-clamping system for easy swapping
- Can be used with different vessels



Reax 20 for 4, 8, or 12 flasks

In accordance with DIN 38414 part 4. Also suitable for graduated cylinders or wide-neck bottles with a height up to 270 mm and a diameter up to 136 mm.

PN 036130400 | 036130420 | 036130440

3 YEAR WARRANTY

PLATFORM SHAKERS

Multifunctional and All-Purpose

This product range has the right solution for all vessels and applications – from fast and powerful to slow and gentle. Even highly sensitive samples for cell research can be processed: The motor is insulated to prevent the platform from heating up and causing thermal damage to the sample.

Vibrating

From powerful to gentle, even for liquid samples with suspended solids: achieve the best mixing results thanks to different amplitudes and load capacities.



VIRUS DEFENDER

Titramax 100/101/1000

Compact, powerful and temperature-controlled

Excellent mixing results the powerful or gentle way with microtiter plates – even for liquid samples with suspended solids.

PN 036130060 | 036130080 | 036130100

Vibramax 100/110

For gentle to powerful mixing

Varied options possible through combining tension rollers, clamps, or attachment for up to 49 test tubes.

PN 036130120 | 036130140

3 YEAR WARRANTY

- Powerful or gentle mixing even for liquid samples with suspended solids
- Consistency and time – move cell cultures evenly and constantly
- Versatile attachments for use with different vessels

Orbital

The slow and even orbital movement of the Rotamax and Unimax models keeps your samples in continuous motion.



Rocking

The tilting motion provides excellent results, whether dyeing, washing or cell rearing.



Rotamax 120

The compact one

The 20 mm orbit keeps samples in optimal motion. Especially suited for culture plates.

PN 036130160

Unimax 1010/2010

Perfect for Erlenmeyer flasks in different sizes

Combine model 1010 with the Incubator 1000 for additional tempering options, or with the Unimax 2010 for an increased load capacity of up to 10 kg.

PN 036130180 | 036130200

Duomax 1030

The temperature controllable

Two different tilt angles to choose from and compatible with the Incubator 1000 for gentle tempering.

5° PN 036130260

10° PN 036130280

3 YEAR WARRANTY

PLATFORM SHAKERS

Strong and Customizable

For applications such as phase separations or staining electrophoresis gels, you need specialists: Temperature control, high load capacity, two different tilt angles, and attachments for use with separatory funnels, Erlenmeyer flasks, bottles, or culture plates.

Reciprocating

For the correct shaking intensity during phase separation: the Promax models are perfect for use with separatory funnels.



Wave

Three-dimensional movement and two tilt angles for best results, such as when staining electrophoretic gels.



Promax 1020

The temperature controllable

Compatible with the Incubator 1000 for tempering. The 32 mm stroke is perfect for separating funnels.

PN 036130220

Promax 2020

The sturdy one

Large model with 10 kg load capacity and 20 mm stroke for larger amounts.

PN 036130240

Polymax 1040

The temperature controllable

Models with 5° or 10° tilt angles for gentle or more powerful movement amplitude. Compatible with the Incubator 1000.

5° PN 036130300

10° PN 036130320

Polymax 2040

The large scale model

Comes with a large usable area of 39×34 cm for increased sample throughput and with stepless speed control.

5° PN 036130340

10° PN 036130360

3 YEAR WARRANTY

INCUBATOR 1000

Make More of Your Platform Shaker

The unique, modular system lets you do it all: mixing, shaking, and tempering – all without the need for an additional steaming cabinet. Suitable for the 1000-series models of the platform shakers Duomax 1030, Polymax 1040, Titramax 1000, Unimax 1010, and Promax 1020.

VIRUS DEFENDER



Platform shakers

Select a compatible 1000-series model.

Heating module

The heating module gently warms the circulating air to up to 65 °C. The integrated low-noise blower ensures silent and even heat distribution within the incubator hood.

PN 036130460

Transparent hood

Stepless adjustment, non-fogging construction (PETG).



This is your space-saving incubation system.



Incubator hood in three sizes

Flat: 163 mm height for small vessels ranging from 25 ml to 100 ml

High: 267 mm height for medium-sized vessels and 500 ml Erlenmeyer flasks

XL: 428 mm height for large vessels and 2,000 ml Erlenmeyer flasks

PN 036130480 | 036130490 | 036130540

Customizable or as a package (Unimax/Titramax) – find out more at www.heidolph.com

3 YEAR WARRANTY

ACCESSORIES



A - Test Tube Tray

For test tube trays and flasks up to 50ml

PN 036303160



A - Test Tube Holding Device

Attachment to hold one test tube safely for continuous shaking

PN 036303190



A - Attachment for 10 Test Tubes

For up to 10 test tubes with Ø 10mm, length up to 60mm

PN 036303180



A - Test Tube Stand

For up to 6 Eppendorf vessels (1.5ml)

PN 036303200



B - Tension Roller Attachment

Attachment with 2 tension rollers

PN 036303210



B - Spare Tension Roller

1 tension roller for attachment

PN 036303230



B - Perforated Platform 100

Universal perforated platform allows for individual arrangement of vessels

PN 036303220



C - Test Tube Attachment

For up to 36 or 49 test tubes

PN 036303250
PN 036303240



D - 25ml Erlenmeyer Attachment

Attachment for up to 22 Erlenmeyer flasks

PN 036303260



D - 50ml Erlenmeyer Attachment

Attachment for up to 14 Erlenmeyer flasks

PN 036303270



D - 100ml Erlenmeyer Attachment

Attachment for up to 9 Erlenmeyer flasks

PN 036303280



D - 250ml Erlenmeyer Attachment

Attachment for up to 5 Erlenmeyer flasks

PN 036303290



D - 500ml Erlenmeyer Attachment

Attachment for up to 4 Erlenmeyer flasks

PN 036303300



D - 1000ml Erlenmeyer Attachment

Attachment for up to 2 Erlenmeyer flasks

PN 036303310



D - Perforated Platform 1000

Universal perforated platform allows for individual arrangement

PN 036303350



D - Separatory Funnel Attachment

Attachment for 4 separatory funnels

PN 036303340



D - Frame with Tension Roller

Attachment with 2 tension rollers

PN 036303320



D - Spare Tension Roller

1 tension roller as accessory for attachment

PN 036303330



E - Perforated Platform 2000

Universal perforated platform allows for individual arrangement

PN 036303380



E - Frame Tension Roller

Frame without tension roller

PN 036303360



E - Tension Roller

1 tension roller for the frame

PN 036303370



E - Multi-Tier Attachment

Includes perforated platform 2000 and 4 supporting rods

PN 036303470



F - Adaptor for 20 Test Tubes

Allows for simultaneously mixing 20 test tubes with one shaker

PN 036303480



G - Tension Plate for Caps

Allows for use of common bottles with Ø 94cm

PN 036303520



G - Attachment for 0.5 Liter Bottles

(Set of 4) Allows for the use of four bottles

PN 036303510



G - Attachment for 1 Liter Bottles

(Set of 4) Allows for the use of four bottles

PN 036303500



S - Separatory Funnel Clamp

(250ml, 500ml, 1000ml) For perforated platform 2000, space for 3 or 4 clamps.

PN 036303450



S - Separatory Funnel Clamp (2000ml)

For perforated platform 2000, space for 2 clamps

PN 036303460

S Clamps

Size 1 - 036303390

Size 2 - 036303400

Size 3 - 036303410

Size 4 - 036303420

Size 5 - 036303430

Size 6 - 036303440

Size 7 - 036303445

Accessories for:

A - Reax Top & Control

B - Vibramax 100 & Rotamax 120

C - Vibramax 110

D - Unimax 1010, Duomax 1030, Polymax 1040, Promax 1020

E - Unimax 2010, Promax 2020 & Polymax 2040

F - Reax 2

G - Reax 20/4 · 20/8 · 20/12

S - Additional Accessories for Shakers and Mixers

TECHNICAL SPECIFICATIONS

Shakers & Mixers

Model	Reax Top	Reax Control	Multi Reax
Motion	Vibrating	Vibrating	Vibrating
Rotation Speed (rpm)	0 - 2,500	0 - 2,500	150 - 2,000
Rotation Speed Setting	Analog	Analog	Digital
Orbit/Stroke (mm)	5	5	3
Operating Mode	Automatic or Continuous	Automatic or Continuous	Timer or Continuous
Input Power (W)	51	51	50
Weight (kg)	2.8	2.8	9.8
Dimensions (w x h x d)(mm)	134 x 105 x 172	134 x 105 x 172	270 x 172 x 410
Platform Size (mm)	-	-	-
Accessories Included	-	-	2 Carousel Attachments
Load Capacity (kg)	-	-	1.5
Overheat Protection	Self-Resetting	Self-Resetting	Self-Resetting
Permissible Ambient Conditions	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity
Protection Class (DIN EN 60529)	IP 22	IP 22	IP 30

Model	Titramax 100	Titramax 101	Titramax 1000
Motion	Vibrating	Vibrating	Vibrating
Rotation Speed (rpm)	150 - 1,350	150 - 1,350	150 - 1,350
Rotation Speed Setting	Electronic Control	Electronic Control	Electronic Control
Orbit/Stroke (mm)	1.5	3	1.5
Operating Mode	Timer or Continuous	Timer or Continuous	Timer or Continuous
Input Power (W)	31	31	31
Weight (kg)	2	2	5
Dimensions (w x h x d)(mm)	245 x 125 x 310	245 x 125 x 310	320 x 125 x 375
Platform Size (mm)	220 x 220	220 x 220	290 x 258
Accessories Included	Space for 4 Microtiter Plates	Space for 4 Microtiter Plates	Space for 6 Microtiter Plates
Load Capacity (kg)	2	2	5
Overheat Protection	Self-Resetting	Self-Resetting	Self-Resetting
Permissible Ambient Conditions	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity
Protection Class (DIN EN 60529)	IP 30	IP 30	IP 30

* Standard supply voltage 115V

Model	Vibramax 100	Vibramax 110	Rotamax 120	Unimax 1010	Unimax 2010
Motion	Vibrating	Vibrating	Orbital	Orbital	Orbital
Rotation Speed (rpm)	150 - 1,350	150 - 2,500	20 - 300	30 - 500	20 - 400
Rotation Speed Setting	Electronic Control	Electronic Control	Electronic Control	Digital	Digital
Orbit/Stroke (mm)	3	1.5	20	10	20
Operating Mode	Timer or Continuous	Timer or Continuous	Timer or Continuous	Timer or Continuous	Timer or Continuous
Input Power (W)	31	46	33	50	115
Weight (kg)	5.5	12.2	5.5	8.0	16
Dimensions (w x h x d) (mm)	245 x 125 x 310	245 x 146 x 310	245 x 125 x 310	320 x 125 x 375	426 x 135 x 435
Platform Size (mm)	220 x 220	140 x 140	220 x 220	290 x 258	390 x 340
Accessories Included	Non-skid Rubber Mat	Non-skid Rubber Mat	Non-skid Rubber Mat	Non-skid Rubber Mat	Non-skid Rubber Mat
Load Capacity (kg)	2	2	2	5	10
Overheat Protection	Self-Resetting	Self-Resetting	Self-Resetting	Self-Resetting	Self-Resetting
Permissible Ambient Conditions	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity

Model	Promax 1020	Promax 2020	Duomax 1030	Polymax 1040	Polymax 2040
Motion	Reciprocating	Reciprocating	Rocking	Wave	Wave
Rotation Speed (rpm)	30 - 250	20 - 400	2 - 50	2 - 50	2.5 - 50
Rotation Speed Setting	Digital	Digital	Electronic Control	Electronic Control	Digital
Orbit/Stroke (mm)	32	20	-	-	-
Operating Mode	Timer or Continuous	Timer or Continuous	Timer or Continuous	Timer or Continuous	Timer or Continuous
Input Power (W)	50	115	115	115	115
Weight (kg)	8.0	16	8.0	8.0	16
Dimensions (w x h x d) (mm)	320 x 125 x 375	426x 135 x 435	320 x 185 x 375	320 x 195 x 375	426 x 208 x 435
Platform Size (mm)	290 x 258	390 x 340	290 x 258	290 x 258	390 x 340
Accessories Included	Non-skid Rubber Mat	Non-skid Rubber Mat	Non-skid Rubber Mat	Non-skid Rubber Mat	Non-skid Rubber Mat
Load Capacity (kg)	5	10	5	5	10
Overheat Protection	Self-Resetting	Self-Resetting	Self-Resetting	Self-Resetting	Self-Resetting
Permissible Ambient Conditions	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity	5 - 31°C at 80% humidity 32 - 40°C decreasing linearly up to max 50% rel. humidity
Protection Class (DIN EN 60529)	IP 40	IP 20	IP 40	IP 40	IP 20

HEI-FLOW

PERISTALTIC PUMPS

The Heidolph Peristaltic Pumps of the Hei-FLOW Series are perfectly designed for precise dosing and dispensing of aggressive, corrosive or even sterile media.

Our dosing pumps guarantee a high degree of safety, convenience and cost savings. The motor of our metering pumps will be switched off if a high thermal load situation occurs to avoid accidents.

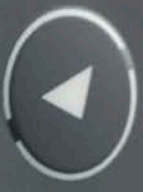
You are able to achieve high precision with our hose pump, even for flow rates starting at 0.005 ml/min. The sealed housing protects your dosing pump for aggressive fumes, liquids and vapors to prevent internal corrosion and thus reduces the maintenance costs of your laboratory pump.

Hei-FLOW Precision 01

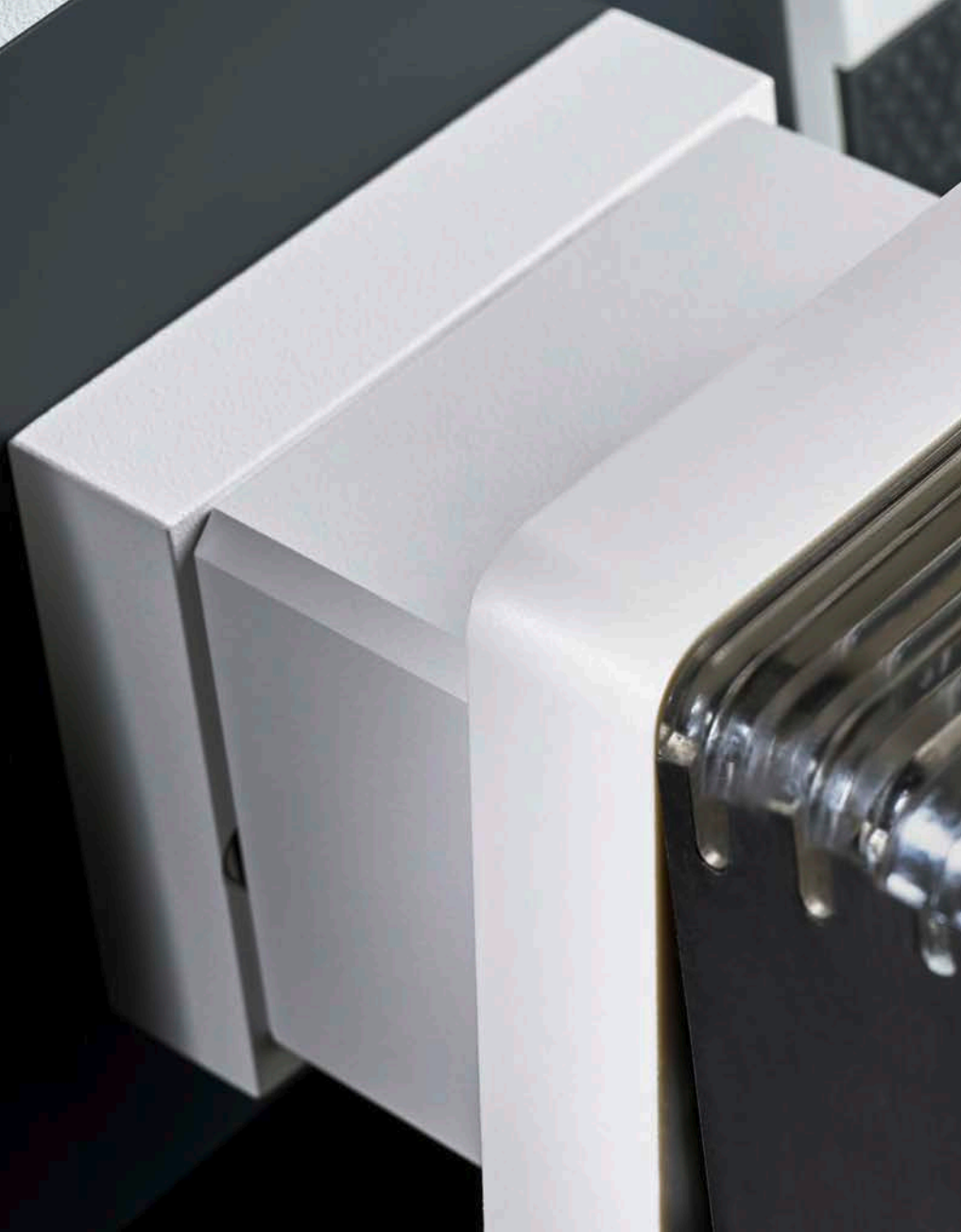
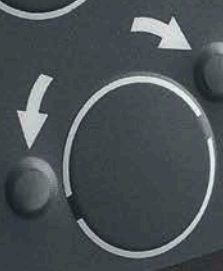
- Speed rpm
- Tube mm
- Flow ml/min
- Vol ml
- Pause sec/min/h

8888

Cal



max



HEI-FLOW

The versatile Hei-FLOW Series can offer you all these options with flow rates ranging from 0.005 to 4,151 ml per minute depending on configuration.

- All units are self-priming and comes without any valves, thus providing care-free operation.
- Accurate liquid delivery starting from 0.005 ml/min.
- Additional safety is provided by sparkless motors which reduce incidents
- Optional foot panel control via cable to start and stop your pump drive outside a closed fume hood increasing your personal safety.
- Complete packages including pump drive, head and compatible tubing reducing your selection process



PUMP UP THE VOLUME

Benefits at a Glance



Motor will automatically switch off if a high thermal load situation occurs.



Features a smooth start operation which prevents spilling and splashing.



Application media never comes in contact with the pump head, eliminating cross-contamination.



The pumped media remains in the tubing and never comes in contact with you.



Pump heads have convex rollers and does not squeeze the tubing.

The Hei-FLOW is standard for pumping and highly accurate interval dosing and interval operation allowing for standstills and filling of flasks. Flow rates range from 0.005 to 4,151 ml per minute depending on your configuration.

The Hei-FLOW Series – Precise Dosing and Dispensing

Complete with maintenance free motors and corrosion free protected house, the Hei-FLOW Series ensures a long life span, reliability and robustness while maintaining minimal maintenance and repair costs.



Hei-FLOW Value

The Hei-FLOW Value Peristaltic Pumps are ideal for standard applications and liquid transfer.

Value 01: 036150010

Value 06: 036150030

Value 01 Multi: 036150130

Hei-FLOW Advantage

The Hei-FLOW Advantage Peristaltic Pumps are ideal for reproducible results and liquid transfer

Advantage 01: 036150050

Advantage 06: 036150070

Advantage 01 Multi: 036150150

Hei-FLOW Precision

The Hei-FLOW Precision Peristaltic Pumps are ideal for reproducibility for pumping and dosing.

Precision 01: 036150090

Precision 06: 036150110

Precision 01 Multi: 036150110

* Multi Versions include an adapter for multi-channel pump heads.

3 YEAR WARRANTY

SINGLE-CHANNEL PUMP HEADS

Individually Customize Your Hei-FLOW Model

Pumping and dosing for all applications, even for specialized tasks such as pumping organic cell cultures. The sealed ball bearings protect against corrosion and ensure reliable continuous operation. The varied selection of pump drives for single-channel operation allows customization perfectly suited to individual applications:



SP Standard

All-purpose for regular pumping tasks

With rollers made of stainless steel and polyamide. Two models are available for tubes with a wall thickness of 1.6 mm or 2.5 mm. Depending on drive and tubing, the flow rate ranges from 2.0–4,151 ml/min. Convex rollers prevent damage to organic cell cultures.

wt 1.6mm PN 036150430

wt 2.5mm PN 036150440



SP Vario

Flexible for multi-purpose use

A rotor with adjustable roller distance allows for tubes with a wall thickness ranging from 1.6 to 2.5 mm. The rollers are made of stainless steel and coated aluminum. Depending on drive and tubing, the flow rate ranges from 2.0–4,151 ml/min. Convex rollers prevent damage to organic cell cultures.

wt 1.6mm PN 036150450

For cellular research, you should use a pump drive with convex rolls that squeeze the tube in an unconventional manner.



SP Quick

For when you need to change tubes quickly

The convenient lever allows tubes to be changed in seconds. The rollers are made of stainless steel. Two models are available for tubes with a wall thickness of 1.6 mm or 2.5 mm. Depending on drive and tubing, the flow rate ranges from 0.38–3,436 ml/min. Precise measuring: the five rollers ensure low pulsation.

wt 1.6mm PN 036150390

wt 2.5mm PN 036150400

TUBES & ACCESSORIES

Tygon® tube

For standard laboratory applications, food industry applications, or for hydrocarbons. Good resistance to acids, alkalis, and inorganic media – high durability. Thermoplastic and suitable for temperatures from -78 °C to +75 °C.

Tygon® standard

For standard laboratory applications. Non-toxic and non-oxidizing

Tygon® 2001 for food products

Ideal for products with a high fat content. Does not contain plasticizers or oils

Tygon® for hydrocarbons

Specially for hydrocarbons, mineral oil products and distillates. Ozone and UV resistant



Other tube types

PharMed®-, tubes made of silicone and Viton® for applications in pharmacy, medicine, biology, or at high temperatures of up to +205 °C.

PharMed®

Ideal for medical, lab and research uses

Silikon

Platinum-coated silicone hose for use in pharmaceuticals and biology

Viton®

Excellent acid resistance at high temperatures



Coupling

For tube sizes from 0.2–2.8 mm for connecting stop and extension tubes.

PN 036304360



You can find an overview of all our tubes online at www.heidolph.com.

MULTI-CHANNEL PUMP HEADS

Easy to Configure or Upgrade

Simply select the adapter and the multi-channel pump head for the compatible Hei-FLOW model (01 drive) and add compatible cassettes and tubes.



Precise Dosing

Thanks to the 8-roller system, you can use the multi-channel pump heads C4 and C12 for low pulsation pumping and, depending on the utilized tubes, high-precision dosing. The C12 model with integrated reduction gear is perfect for even the smallest volumes of flow rates from 0.005 to 37 ml/min. Use of two-stop tubing is required for the secure fastening of tubes.



Multi-Channel Pump Head C4

Assembly with 4 x cassette small

PN 036150480



Multi-Channel Pump Head C12

Assembly with 12 x cassette small

PN 036150460



Cassette Small

PN 036150490



Two-Stop Tubing

0.9mm 036303560
1.4mm 036303570
2.8mm 036304060

Customized Pumping

Choose your assembly depending on the desired flow rate: Medium Cassette for 0.24 to 27 ml/min or Large Cassette for 1 to 364 ml/min. The large and medium multi-channel cassettes are suitable for tubes of different diameters with a wall thickness of 1.6 mm.



Multi-Channel Pump Head C8

Assembly with 8 x cassette medium or 4 x cassette large

PN 036150470



Cassette Medium

PN 036150500








Cassette Large

PN 036150510

TUBING SIZES FOR SINGLE-CHANNEL PUMPS

Tubing sizes

						
Inner diameter	(mm)	0.8	1.7	3.1	4.8	6.4
Outer diameter	(mm)	4	4.9	6.3	8	9.5
Wall thickness (wt)	(mm)	1.6	1.6	1.6	1.6	1.6
Max. pressure (continuous / short time)	(bar)	0.7 / 1.7	0.7 / 1.7	0.7 / 1.7	0.5 / 1.5	0.5 / 1.5
Suction height	(mH ₂ O)	8.8	8.8	8.8	8.8	6.7




Average flow rates in combination with pump head and pump drive:

SP quick		min.		max.		min.		max.		min.		max.	
Hei-FLOW Advantage 06 / Hei-FLOW Precision 06	(ml/min)	2	33	8	186	26	653	59	1,529	89	2,072		
Hei-FLOW Value 06	(ml/min)	4	35	17	197	57	695	123	1,494	186	1,765		
Hei-FLOW Advantage 01 / Hei-FLOW Precision 01	(ml/min)	0.38	9	2	40	5	126	12	233	17	409		
Hei-FLOW Value 01	(ml/min)	0.83	9	3	41	11	134	25	292	36	413		
SP standard / SP vario				min.	max.	min.	max.	min.	max.	min.	max.		
Hei-FLOW Advantage 06 / Hei-FLOW Precision 06	(ml/min)			11	257	43	1,017	105	2,549	167	4,056		
Hei-FLOW Value 06	(ml/min)			22	249	93	1,037	228	2,613	364	4,151		
Hei-FLOW Advantage 01 / Hei-FLOW Precision 01	(ml/min)			2	55	9	221	21	530	33	813		
Hei-FLOW Value 01	(ml/min)			5	61	19	223	44	519	75	861		

Tubing P/N (per meter):

Silicone	036303620	036303630	036303640	036303650	036303660
Viton®	036303760	036303770	036303780	036303790	036303800
PharMed®	036303940	036303950	036303960	036303970	036303980
Tygon® (standard)	036304120	036304130	036304140	036304150	036304160
Tygon® (hydrocarbon)	036304200	036304210	036304220	036304230	036304240
Tygon® 2001 (food)	036304280	036304290	036304300	036304310	036304320

Tubing sizes

				
Inner diameter	(mm)	4.8	6.4	7.9
Outer diameter	(mm)	9.8	11.3	12.9
Wall thickness (wt)	(mm)	2.5	2.5	2.5
Max. pressure (continuous / short time)	(bar)	0.8 / 1.8	0.8 / 1.8	0.8 / 1.8
Suction height	(mH ₂ O)	8.8	8.8	8.8

Average flow rates in combination with pump head and pump drive:

SP quick		min.		max.		min.		max.	
Hei-FLOW Advantage 06 / Hei-FLOW Precision 06	(ml/min)	58	1,527	85	2,248	113	3,171		
Hei-FLOW Value 06	(ml/min)	123	1,580	180	2,411	257	3,436		
Hei-FLOW Advantage 01 / Hei-FLOW Precision 01	(ml/min)	12	299	18	435	25	630		
Hei-FLOW Value 01	(ml/min)	26	299	38	454	50	636		
SP standard / SP vario		min.	max.	min.	max.				
Hei-FLOW Advantage 06 / Hei-FLOW Precision 06	(ml/min)	92	2,390	139	3,821				
Hei-FLOW Value 06	(ml/min)	203	2,426	313	3,782				
Hei-FLOW Advantage 01 / Hei-FLOW Precision 01	(ml/min)	15	491	28	769				
Hei-FLOW Value 01	(ml/min)	42	493	68	773				

Tubing P/N (per meter):

Silicone	036303670	036303680	036303690
Viton®	036303810	036303820	036303830
PharMed®	036303990	036304000	036304010
Tygon® (standard)	036304170	036304180	036304190
Tygon® (hydrocarbon)	036304250	036304260	036304270
Tygon® 2001 (food)	036304330	036304340	-

TUBING SIZES FOR MULTI-CHANNEL PUMPS

Tubing sizes		0.2	0.5	0.9	1.4	2.8
Inner diameter	(mm)	0.25	0.51	0.89	1.42	2.79
Outer diameter	(mm)	2.05	2.31	2.69	3.22	4.59
Wall thickness (wt)	(mm)	0.9	0.9	0.9	0.9	0.9
Max. pressure (continuous / short time)	(bar)	0.5 / 1.5	0.5 / 1.5	0.5 / 1.5	0.5 / 1.5	0.5 / 1.5
Suction height	(mH ₂ O)	7	7	7	7	7

Average flow rates in combination with cassette, pump head and pump drive:

Hei-FLOW Advantage 01 / Hei-FLOW Precision 01		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	max. #
Cassette small / pump head C 12	(ml/min)	0.005	0.11	0.01	0.54	0.03	1	0.10	3	0.29	9	12
Cassette small / pump head C 4	(ml/min)	0.02	0.49	0.08	2	0.24	6	0.60	14	2	36	4
Hei-FLOW Value 01		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
Cassette small / pump head C 12	(ml/min)	0.005	0.11	0.02	0.42	0.10	1	0.23	3	0.69	8	12
Cassette small / pump head C 4	(ml/min)	0.04	0.53	0.17	2	0.57	6	1	15	4	37	4

Tubing P/N:

Silicone	Two-Stop Tubing for cassette small			036303560	036303570	036303580
	Extension tube (per meter)			036303590	036303600	036303610
Viton®	Two-Stop Tubing for cassette small			036303700	036303710	036303720
	Extension tube (per meter)			036303730	036303740	036303750
PharMed®	Two-Stop Tubing for cassette small	036303840	036303850	036303860	036303870	036303880
	Extension tube (per meter)	036303890	036303900	036303910	036303920	036303930
Tygon® (standard)	Two-Stop Tubing for cassette small	036304020	036304030	036304040	036304050	036304060
	Extension tube (per meter)	036304070	036304080	036304090	036304100	036304110
Fittings for extension tubes (PTFE)		036304360	036304360	036304360	036304360	036304360

Tubing sizes		0.8	1.7	3.1	4.8	6.4
Inner diameter	(mm)	0.8	1.7	3.1	4.8	6.4
Outer diameter	(mm)	4	4.9	6.3	8	9.5
Wall thickness (wt)	(mm)	1.6	1.6	1.6	1.6	1.6
Max. pressure (continuous / short time)	(bar)	0.7 / 1.7	0.7 / 1.7	0.7 / 1.7	0.7 / 1.7	0.5 / 1.5
Suction height	(mH ₂ O)	8.8	8.8	8.8	8.8	6.7

Average flow rates in combination with cassette, pump head and pump drive:

Hei-FLOW Advantage 01 / Hei-FLOW Precision 01		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	max. #
Cassette medium / pump head C 8	(ml/min)	0.24	7	1	26							8
Cassette large / pump head C 8	(ml/min)			1	27	4	90	8	192	11	329	4
Hei-FLOW Value 01		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
Cassette medium / pump head C 8	(ml/min)	0.55	6.97	2.17	27							8
Cassette large / pump head C 8	(ml/min)			2	27	7	85	18	246	26	364	4

Tubing P/N (per meter):

Silicone	036303620	036303630	036303640	036303650	036303660
Viton®	036303760	036303770	036303780	036303790	036303800
PharMed®	036303940	036303950	036303960	036303970	036303980
Tygon® (standard)	036304120	036304130	036304140	036304150	036304160
Tygon® (hydrocarbon)	036304200	036304210	036304220	036304230	036304240
Tygon® 2001 (food)	036304280	036304290	036304300	036304310	036304320

TECHNICAL SPECIFICATIONS

Peristaltic Pumps

Model	Hei-FLOW Value 01	Hei-FLOW Value 06
PN Including Multi-Channel Adaptor	036150130	-
Flow Rates - Single Channel Pumps (ml/min)	0.85 - 861	4.0 - 4,151
Flow Rates - Multi-Channel Pumps (ml/min)	0.005 - 364	-
Flow Rate Accuracy* (%)	±5	±5
Speed Range (rpm)	10 - 210	50 - 600
Speed Setting	Scale	Scale
Electronic Speed Control	Analog	Analog
Control Accuracy Motor (%)	±2	±2
Select Direction of Rotation	CW/CCW	CW/CCW
Motor Power (W)	100	100
Supply Power (W)	100	100
Analog Interface	-	-
Digital Interface	-	-
Volume Dosing (ml)	-	-
Interval Dosing (ml)	-	-
Smooth Start	-	-
Electronic Brake	-	-
Foot-pedal Connection	-	-
Continuous Operation (hours/days)	24/7	24/7
Safety Feature	Overheat Protection	Overheat Protection
Weight (kg)	7.6	7.1
Protection Class (DIN EN 60529)	IP 55 ¹	IP 55
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
Dimensions (w x d x h)(mm)	166 x 256 x 225	166 x 256 x 225

* Flow rate accuracy pertains to water without counter pressure
Standard supply voltage: 115V



Foot Pedal

Hei-FLOW Advantage 01,
Hei-FLOW Advatage 06, and
Hei-FLOW Precision 06 only

PN 036303550



Multi Channel Adaptor

To connect pump drive to
multi-channel pump head

PN 036304400

Model	Hei-FLOW Advantage 01	Hei-FLOW Advantage 06	Hei-FLOW Precision 01	Hei-FLOW Precision 06
PN Including Multi-Channel Adaptor	036150150	-	036150170	-
Flow Rates - Single Channel Pumps (ml/min)	0.38 - 813	2.0 - 4,056	0.35 - 813	2.0 - 4,056
Flow Rates - Multi-Channel Pumps (ml/min)	0.005 - 329	-	0.005 - 329	-
Flow Rate Accuracy* (%)	±3.5	±3.5	±1	±2
Speed Range (rpm)	5 - 120	24 - 600	5 - 120	24 - 600
Speed Setting	Scale	Scale	Digital	Digital
Electronic Speed Control	Digital	Digital	Digital	Digital
Select Direction of Rotation	±0.5	±0.5	±0.5	±0.5
Control Accuracy Motor (%)	CW/CCW	CW/CCW	CW/CCW	CW/CCW
Supply Power (W)	100	100	100	100
Supply Power (W)	100	100	100	100
Analog Interface	For Speed 0 - 10V/ 4 - 20 mA Direction of Rotation Start/Stop	For Speed 0 - 10V/ 4 - 20 mA Direction of Rotation Start/Stop	For Speed 0 - 10V/ 4 - 20 mA Direction of Rotation Start/Stop	For Speed 0 - 10V/ 4 - 20 mA Direction of Rotation Start/Stop
Digital Interface	-	-	RS 232	RS 232
Volume Dosing (ml)	-	-	0.001 - 9,999	0.001 - 9,999
Interval Dosing (ml)	-	-	0.001 - 9,999 in breaks 0.1 sec - 750 h	0.001 - 9,999 in breaks 0.1 sec - 750 h
Smooth Start	-	-	Yes	Yes
Electronic Brake	-	-	Yes	Yes
Foot-pedal Connection	Yes	Yes	Yes	Yes
Continuous Operation (hours/days)	24/7	24/7	24/7	24/7
Safety Feature	Electronic Current Limiter and Overheat Protection	Electronic Current Limiter and Overheat Protection	Electronic Current Limiter and Overheat Protection	Electronic Current Limiter and Overheat Protection
Weight (kg)	7.6	7.3	7.7	7.3
Protection Class (DIN EN 60529)	IP 55	IP 55	IP 55	IP 55
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
Dimensions (w x d x h)(mm)	166 x 256 x 225	166 x 256 x 225	166 x 256 x 225	166 x 256 x 225

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 Hei-Connect

rpm
1400

°C
92



rpm
min

°C
min

heidolph

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 times that result in cost reductions.

- All units with digital display allow for easy setting and monitoring values on the illuminated readout.
- The strong magnetic field allows for easy stirring of even high viscosity media.
- The unique Kera-Disk® coating is extremely chemical-resistant and scratch-proof, therefore the plate can be cleaned easily from solvents, oil and other contaminations.
- Unit will power off in case of a short circuit, damage to the temperature sensor, a motor failure or other incidences during operation.
- A separate on/off switch for heating prevents unintentional heat-up. If heating is switched on, the on/off button is illuminated for visual control.



UNCOMPROMISING QUALITY

Benefits at a Glance



Our Kera-Disk® plate provides:

- Aluminum top plate allows for immediate heat transfer
- Ceramic coating makes the top plate chemical-resistant and scratch-proof.



To protect you from splashes and burns, the rotation speed ramps up slowly.



Heating and hot surface light indicator.



To prevent laboratory fires, the Hei-PLATE includes two independent safety circuits which switch off heating in case of any overtemperature situation.



The Hei-PLATE's fire-resistant aluminum die-cast housing protects against fumes, liquids, vapors and internal corrosion.



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 for direct access to parameters make 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. Includes Hei-Control Software.

145mm: 036110601

135mm: 036110602

145mm with PT1000: 036110603

135mm with PT1000: 036110604

3 YEAR WARRANTY

NON-HEATING MODELS

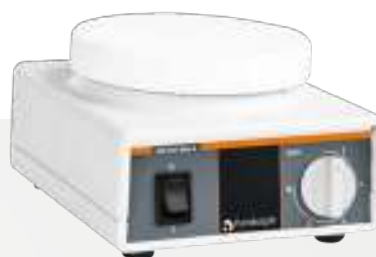
The non-heating models of the Hei-PLATE Series are ideal for gentle stirring in biology and microbiology applications.



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

3 YEAR WARRANTY

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	-	-
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

Model	Hei-Standard	Hei-Tec	Hei-Connect
Speed Range	100 - 1,400 rpm	100 - 1,400 rpm	100 - 1,400 rpm
Speed Accuracy	±2%	±2%	±2%
Drive	EC-Motor	EC-Motor	EC-Motor
Operating Mode	Continuous	Continuous	Continuous
Display	–	Digital	Digital
Analog/Digital Interface	–	–	Digital (RS 232)
Heating Power	600 W*	600 W*	600 W*
Hotplate Temperature	20 - 300°C	20 - 300°C	20 - 300°C
Medium Temperature Max	250°C	250°C	250°C
Accuracy Temperature Setting	–	±1°C	±1°C
External Temperature Sensor	Pt 1000	Pt 1000	Pt 1000
Temperature Accuracy with External Temperature Sensor	–	±1°C	±1°C
Sensor Breakage Protection	with Pt 1000	with Pt 1000	with Pt 1000
Temperature Control	Micro Controller	Micro Controller	Micro Controller
Temperature Accuracy Hotplate	±5°C	±5°C	±5°C
Residual Heat Indicator	Yes	Yes	Yes
Safety Circuit Hotplate	25°C - over hotplate temperature	25°C - over hotplate temperature	25°C - over hotplate temperature
Time	–	–	Yes
Stirring Capacity Max (H₂O)	20 L	20 L	20 L
Load Max	25 kg	25 kg	25 Kg
Power Consumption	600 W	600 W	600 W
Plate Diameter	135mm & 145 mm	135mm & 145 mm	135mm & 145mm
Plate Material	Kera-Disk® - Aluminum alloy coated	Kera-Disk® - Aluminium alloy coated	Kera-Disk® - alloy coated
Weight	2.9 kg	2.9 kg	2.9 kg
Dimensions (w/d/h)	173 x 277 x 94 mm	173 x 277 x 94 mm	173 x 277 x 94 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
Protection Class	IP 32	IP 32	IP 32



heidolph

Timer 01:20 h:m
01:15 :03
Speed 2000 rpm
Torque 0.0 Ncm
Menu Range II
Cal



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.


- All stirrers maintain exact speed under changing loads.
- A through-shaft design allows for adjusting the impeller position to make height adjustments more convenient to you.
- Reduce your work time and achieve excellent mixing results in challenging high-viscosity media.
- A single grip allows you to readjust the height of your stirrer on the optional telescopic stand.
- RS232 or USB interface to save all process data in a digital file.
- Unique impeller technology for demanding applications that mixes gels and other similar media in shorter times which reduces process cost and working hours.
- Intuitive touch panel made of glass designed for easy operation.
- All models are designed for continuous 24 hour operation - including challenging high viscosity applications in polymer research.





HEI ON POWER


Benefits at a Glance




 Non-sparking German made motors for additional safety.

 Minimum Noise level is below 50 db, even at maximum power.


 Sealed housing, which complies with high protection class IP 54.

 An overtemperature sensor prevents heat up situations, particularly valuable in unattended continuous operation.

 To prevent spills and splashing media the speed ramps up slowly until you set rpm has been achieved.

 Avoid unintended stirring with slide touch panel.

 The electronic stirrers feature a smooth start operation which prevents spills and splashing media.

 The Quick Chuck creates a fast and easy way to change your impeller with only one hand.



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 suitable 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

3 YEAR WARRANTY

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

Type	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 Impellers

Type	Ø Turbine Size (mm)	Material	Length (mm)	Max rpm	PN
TR 20 Radial-Flow Impeller	28	Stainless Steel AISI 316Ti	400	2,000	036300380
TR 21 Radial-Flow Impeller	50	Stainless Steel AISI 316Ti	400	2,000	036300390

Anchor-Type Impellers

Type	Blade Size (mm)	Material	Length (mm)	Max rpm	PN
AR 19 Anchor-Type Impeller	60 x 45 x 5	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.

Type	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 performing 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.

Use the free software to

- Program process parameters
- Read out and save processes in the software
- Load saved settings for reproducible results

Download the free software at
heidolphna.com



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.



- Control up to 4 reaction systems with up to 16 devices on one screen.
- Create complex experiments with a number of steps in series or parallel.
- Pre-program multi-step recipes, with the flexibility to make and track on the fly adjustments.
- Interlink devices and set feedback/control loops, end point conditions and safety limits.
- Set device parameters and safety limits

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	–	–	–
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	–	–	–
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 voltages upon request, please specify for order.

* temporary overload 65 Ncm

Model	Hei-Torque Value 400	Hei-TORQUE Precision 100	Hei-TORQUE Precision 200	Hei-TORQUE Precision 400
Power Rating, Motor Input/Output	150/90 W	90/50 W	120/180 W	150/90 W
Number of Speed Gears	2	1	1	2
Speed Range	10 - 400 rpm 20 - 2,000 rpm	10 - 2,000 rpm	10 - 2,000 rpm	10 - 400 rpm 20 - 2,000 rpm
Direction of Rotation	–	Yes	Yes	–
Speed Indicator	Digital	Digital	Digital	Digital
Operating Panel	Monochrome 2.4"	Color 3.2"	Color 3.2"	Color 3.2"
Speed Control	Electronic	Electronic	Electronic	Electronic
Torque Max	400 Ncm	100 Ncm	200 Ncm	400 Ncm
Torque Indicator	Symbol	Precise Value	Precise Value	Precise Value
Overheat Protection	Automatic Cut-Out	Automatic Cut-Out	Automatic Cut-Out	Automatic Cut-Out
Motor Protection	Temperature Control Software	Temperature Control Software	Temperature Control Software	Temperature Control Software
Viscoisty Max.	250,000 mPas	60,000 mPas	100,000 mPas	250,000 mPas
Stirring Cap Max	100 L	50 L	50 L	100 L
Analog/Digital Interface	–	USB and RS 232	USB and RS 232	USB and RS 232
Admissible Session	Continuous Operation	Continuous Operation	Countinuous Operation	Continuous Operation
Counter/Timer	–	Yes	Yes	Yes
Shaft Diameter Max	10.5 mm	10.5 mm	10.5 mm	10.5 mm
Dimensions	93 x 247 x 350 mm	86 x 247 x 350 mm	86 x 247 x 350 mm	93 x 247 x 350 mm
Stay Bar Size (Ø x w)	13 x 160 mm	13 x 160 mm	10.5 mm	10.5 mm
Weight	5.3 kg	4.4 kg	5.1 kg	5.3 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	5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity
Protection Class	IP 54	IP 54	IP 54	IP 54



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