



# Product Overview

Leading Safety Standards

Superior Ease of Use

Reduced Cost of Ownership

# Excellent Research Requires Exceptional Partners

Heidolph develops innovative solutions for your laboratory, allowing you to focus purely on your research – for your company and for millions of people throughout the world. Our premium laboratory devices are used in over 80 countries in pharmaceutical research, the cosmetic industry and in the biological and chemical sectors – with an average operational lifespan of 10 years or more. Our contribution to improving quality of life around the globe can be summed up succinctly in one promise of quality: **“research made easy”**.

## “Made in Germany” – for Successful Research Worldwide

For us, “Made in Germany” is far more than just a marketing strategy. It is part of our company philosophy.

Our location in Germany allows us to develop and manufacture reliable laboratory equipment for years of operation.

All Heidolph products are developed and manufactured at our Schwabach headquarters in Nuremberg. We also specify high standards for the parts we purchase: maintenance-free motors “Made in Germany” prevent downtime and costly repairs.

## Our Performance Promise:

- A **3-year warranty** and an average **operational lifespan of 10 years** make your purchase a worthwhile investment in the future
- **Multi-stage quality checks** in development and production as well as **powerful, maintenance-free motors** ensure consistent results and low downtime – even in continuous operation
- Premium service with **cost-free installation and induction, the shortest possible repair and delivery times** and **competent expert advice** are all part of our standard practice



## Test Our Devices before Making a Decision

A 14-day trial allows you to really put our devices to the test and ensure that all your needs are met 100%.

Find the premium lab equipment that will provide you with optimal support in your research and contact us at **sales@heidolph.de** or by phone at **+49 9122 9920-19**.

Further information on all Heidolph equipment, accessories and our on-service offerings is available on our website at **www.heidolph.com**



# Hei-VAP Rotary Evaporators



The Hei-VAP series rotary evaporators combine the highest safety requirements with maximum reliability. Well thought-out details, such as a detachable operator panel with protection class IP 42, make everyday work easier. The intelligent evaporator concepts offer the right solution for every requirement and budget.

## Hei-VAP Core

Focused on the essentials: clear digital display and, due to separate knobs, direct access to the basic parameters rotation speed and heating bath temperature at any time.

## Hei-VAP Expert / Ultimate

Precise setting of rotation speed and heating bath temperature on the clear 5" and 7" digital touch display or – for quick access during an active process – directly via the knobs on the operating panel. With timer, limitation of max. temperature, multilingual menu and text display for error messages.

## Perfect system

Hei-VAC Control, Rotovac vacuum pumps, and Hei-CHILL recirculating chillers optionally expand the Hei-VAP Core to a perfect evaporation system.

## Hei-VAP Expert Control / Ultimate Control

Central control panel with 5" or 7" touch display for direct regulation of any vacuum source – in conjunction with a Hei-CHILL recirculation chiller also the cooling temperature. With solvent library, favorites, individual ramps and smart program automations for uncompromising precision.

## Hei-CHILL Recirculating Chillers

The perfect add on available with cooling capacities of 250, 350, 600 or 1,200 W.



Max. evaporator flask size: 5 L

# Hei-VAP Industrial Large-Scale Rotary Evaporator



The Hei-VAP Industrial large-scale rotary evaporators distill large volumes – even unattended. The automatic water bath feed and the level sensor ensure a sufficient amount of fluid in the heating bath at any given time.

Via the intuitive touch panel, all of the parameters can be set individually and the programs can be used for process control. Intelligent details, such as drain valves on the heating bath and receiving flask, the unique EASY-LOCK flask fixing system and the optional mobile base, ensure that the premium devices can also be operated by a single person. In addition to this, the large-scale rotary evaporators have vacuum controllers and boiling temperature sensors.

## Hei-VAP Industrial

A large-scale rotary evaporator for the most demanding situations and safety requirements. Combines superior ease of use with sustainable cost reduction by means of intelligent technology.

## Hei-VAP Industrial B

Ideal for smaller budgets. All the benefits of the Hei-VAP industrial, but without additional safety equipment, such as the protective hood and screen.

## Hei-CHILL Recirculating Chillers for Industrial models

Maximum performance with systems that perfectly complement each other. Discover the Hei-CHILL models 3,000 and 5,000 W.



Max. evaporator flask size: 20 L

**Our "research made easy" gift to you: more time for those important tasks thanks to equipment that can be operated on a fully automated basis. With the Distimatic automatic module, you can distill unlimited quantities without any issues and in continuous operation.**



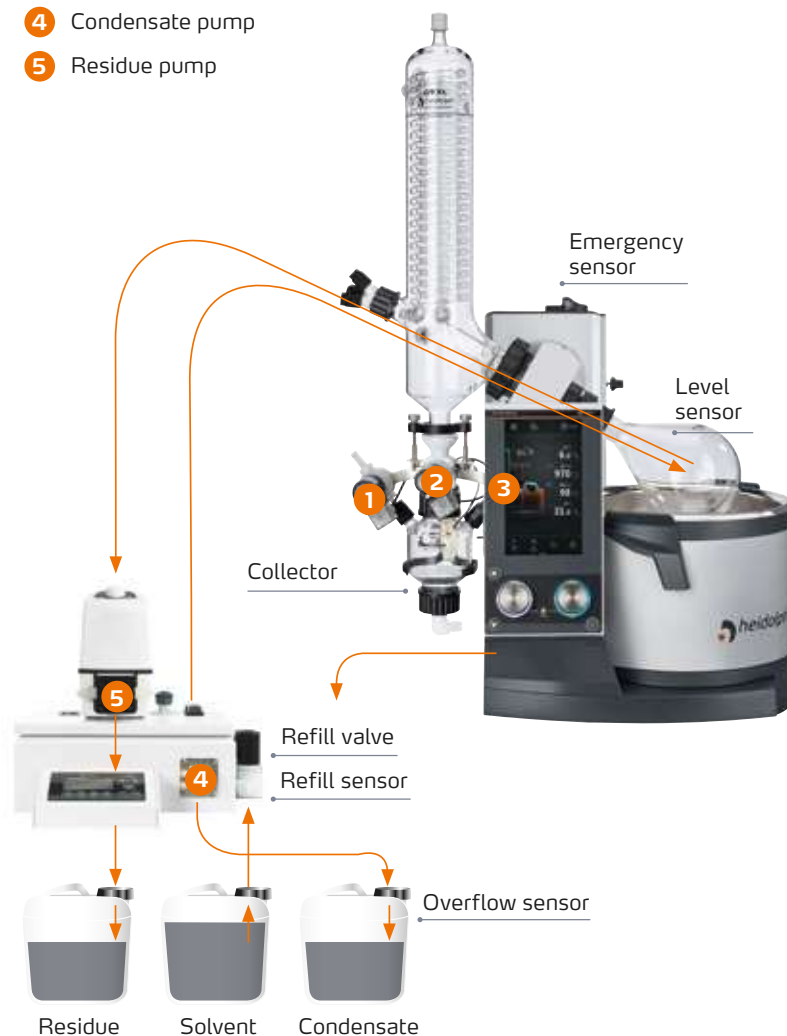
# Hei-VOLUME Distimatic Automatic Module



With the unique automatic residue drainage of the Distimatic automatic module, unlimited quantities can be automatically distilled in unattended, continuous operation. 24 hours a day, 7 days a week – turning rotary evaporators into automated stations.

- Simple process optimization in terms of efficiency and precision:
- Automatic supply and removal of solvent mixture and condensate
- Almost one hundred percent solvent separation in automated unattended and continuous operation
- Individual determination of the concentration of the final product in order to prevent drying-out, crystallization and powder formation
- Automated supply of small volumes to avoid foaming
- Exchange of the storage and collecting tank also possible during the ongoing process
- Permanent process monitoring via sensors, including full system shutdown in case of an emergency

- 1 Vacuum valve
- 2 Collector valve
- 3 Ventilation valve
- 4 Condensate pump
- 5 Residue pump



The Distimatic automatic module is compatible with all Heidolph rotary evaporators and large-scale rotary evaporators.

## IQ-OQ Certification

We offer IQ-OQ certification, bookable on a modular basis, for all Hei-VAP rotary evaporators, large-scale rotary evaporators and the automatic module Distimatic. The individual blocks are bookable as documentation or implementation.

## Application Consultation

Our application specialists perform feasibility tests of the application and will advise you on the configuration and the individual process analysis.

# Hei-PLATE Magnetic Stirrers



The robust magnetic stirrers in the Hei-PLATE series were developed for the optimized mixing of low-viscosity liquids – ranging from gentle to intense. They are well-suited for homogenizing organic and inorganic materials.

These premium devices offer the highest levels of safety and optimum ease of use. The 800 W\* of heating power and the special Kera-Disk® heating plate with aluminum core allow for shortest heat-up times and thus reduced cost of ownership.



## Hei-Standard

Simple operation for all standard applications with direct access via two adjustment knobs.

## Hei-Tec

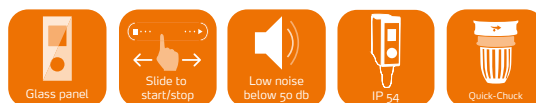
Precise working and monitoring featuring a digital display and a port for the optional temperature sensor.

## Hei-Connect

Ideal for complete process documentation and reproducible results. Comes with a digital display, timer and a RS 232 interface.

\*For 230 V models.

# Hei-TORQUE Overhead Stirrers



The Hei-TORQUE series offers a suitable solution for all requirements, including small and light equipment, easy operation with high torque, precise adjustment options, and an interface for documentation. Their powerful motors guarantee reliable results and shorten process times. Thanks to the safety equipment, the premium devices can also be operated while unattended.

The Hei-TORQUE Value and Hei-TORQUE Precision models are each available in three performance classes: 100 Ncm, 200 Ncm and 400 Ncm.

## Hei-TORQUE Core

Compact design with enough power for large volumes up to 25 l at low viscosity.

## Hei-TORQUE Value\*\*

Ideal for quick and reliable stirring tasks for standard applications that do not need to be documented. With start/stop slider and clear display.

## Hei-TORQUE Precision\*\*

Optimized for demanding applications thanks to a torque display, additional flexible functions and individual settings options. The USB and RS 232 interfaces allow exact documentation and reproducibility of all processes.



\*\* All 400 models offer two-stage operation for various torque ranges, each according to the viscosity of the material.

**Hei-CONTROL** is the freeware solution for automated and reproducible processes. It is compatible with the Hei-Control magnetic stirrer and Hei-TORQUE Precision overhead stirrers.

In brief:

- define and store process parameters
- secure and select process operations
- program ramps and create ramp profiles

- set timers or countdowns
- control up to four devices at once

# Hei-MIX Shakers & Mixers



Shake reliably and achieve the best results with this product range. All Hei-MIX series can be operated spark and maintenance-free, and are suited for many years of continuous operation. The overtemperature protection and a low center of gravity ensure safe application. A temperature-insulating drive prevents warming of the platform and resulting thermal damage to the sample.

## Test Tube Shakers

Ideal for fast as lightning shaking of test tubes, Eppendorf cups and similar vessels in various diameters and lengths. The strong shaking movement guarantees mixing results for up to 26 test tubes at the same time.

## Overhead Shakers

Reliability for various applications with practical quick clamp system and space for complex constructions of 4, 8 or 12

vessels. With additional accessories, the system can be expanded for up to 20 test tubes.

## Platform Shakers\*

Allows for vigorous or gentle mixing of small samples on microtiter plates or in test tubes. Thanks to its possible combinations, the intelligent overall concept offers a wide range of individual solutions.



\* All 1,000 models can be combined with an incubator hood and heating module to create a space-saving incubation system.

# Hei-FLOW Peristaltic Pumps



Even beyond the range of standard applications the reliable overall concept offers individual solutions for the supply and dosing of aggressive, corrosive and sterile media. With its powerful drive, the Hei-FLOW series offers all options to supply volumes from 0.005 to 4,151 ml per minute – without limitations in terms of precision.

## Hei-FLOW Value

For simple liquid transfer tasks, without display or interfaces.

## Hei-FLOW Advantage\*\*

For precise liquid transfer tasks, with electronic rotational speed regulation and analogue interface for the control of rotational speed and direction.

## Hei-FLOW Precision\*\*

For reproducibility, precise pumping and dosing. With digital display and RS 232 interface and with individual calibration options for the supply amounts.



\*\* With an optional footswitch, these models can also be controlled in an enclosed extraction hood.

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