





Automatic 24/7 Evaporation

Save time by distilling large volumes in a continuous and unattended manner overnight and during the weekend

General

- Automatic refill of the evaporation flask with the solvent mixture according to your settings.
 Continuous automatic discharge of condensate
- The worldwide unique automatic residue drainage offers unattended distillation for days
- The automatic module is compatible with all bench-top and large-scale evaporators from Heidolph
- The storage and the collecting tank can be replaced during the process

Leading Safety Standards

- The complete system is sensorcontrolled and turns off the automatic module as well as all connected equipment completely in case of an emergency
- The system can be placed under a fume hood which ensures the highest safety level for the operator
- An easy accessible emergencybutton allows to stop the process immediately by the operator

Superior Ease of Use

- Take advantage of the wide range of possibilities to adjust the settings according to your individual needs
- The worldwide unique automatic residue drainage offers a wide range of new possibilities for automatic, continuous and unattended distillation
- The process can be terminated automatically after evaporation is completed or manually at any time by the operator
- Integrated plug connectors enable you to connect and to control also the connected equipment from a central point

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Reduced Cost of Ownership

- Affordable alternative to common 50 or 100 liter evaporators
- Reduce your investments by using your existing equipment - the automatic module is compatible to all rotary evaporators from Heidolph
- Increase your efficiency the fully automatic process avoids the need of visual control and gives you time to focus on other tasks
- The unattended and continuous reconditioning of solvent avoids any bottlenecks of availability of solvents and reduce your investments in this way

The smart way to process large quantities automatically

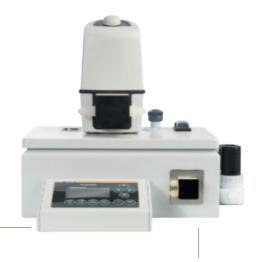
- The system is available for bench-top evaporators up to 5 liter flask size and industrial evaporators up to 20 liter flask
- Bumping is eliminated by continuously feeding small volumes
- For distillation select between these two modes:
- Sensor-Mode: Refill and drainage are automatically sensor-controlled
- Time-Mode: All parameters controlled by individually pre-programmed automatic time intervals

- Process rates with bench-top evaporators for the most common solvents are:
- Water: 1.4 l/h · Acetone: 6.o l/h Toluene: 6.5 l/h • Ethanol: 2.5 l/h
- Increased process rates with Hei-VAP Industrial large-scale evaporators, for example:
 - Water: 4.5 l/h · Acetone: 25.0 l/h

- Both modes are completed in an automated and unattended process
- Degree of concentration for final product can be determined to rule out dehydration, cristallisation and formation of powder

of solvent separations of nearly 100 %

For distillation select between these two modes:



Sensor-Mode:

Refill and drainage are automatically sensor-controlled

- A sensor detects the fill-level inside the evaporation flask
- The desired/requested fill-level can be set individually
- Flask refill is achieved via valve control and under system pressure
- A sensor monitors the quantity of the solvent mixture and powers off the unit once it is completely processed

Time-Mode:

All parameters controlled by individually pre-programmed automatic time intervals

- The desired/requested fill-level can be set individually
- Flask refill is achieved via valve control and under system pressure according to pre-programmed cycles
- The process is powered off once the pre-programmed number of cycles have expired

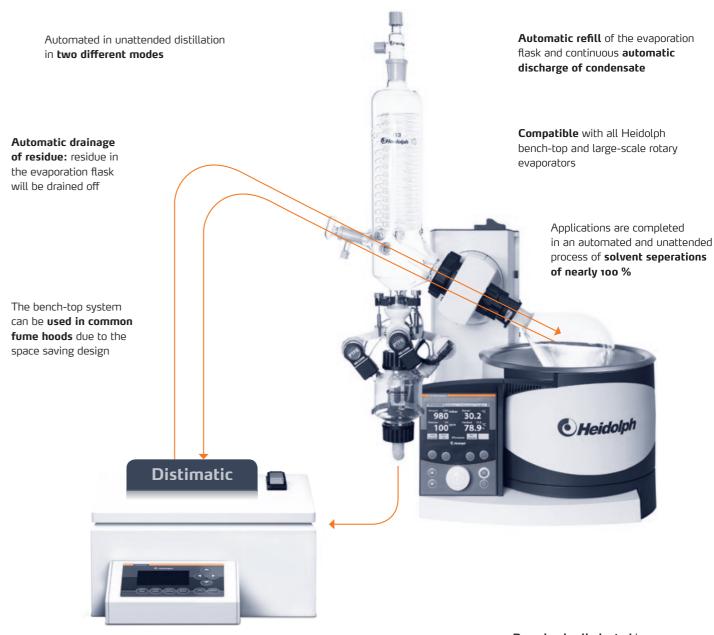
Automated 24/7 Evaporation



Leading Safety Standards

Superior Ease of Use

The average operational lifespan of 10 years is backed by a 3 year warranty and makes your purchase a worthwhile investment.



Wide range of possibilities to adjust settings according to your individual needs

In case of an emergency **the** complete system will power off entirely

Bumping is eliminated by continuously feeding small volumes

Functional Principle

For unattended and continuous use – including automatic drainage of residue

Save time by distilling large volumes in a continuous and unattended manner overnight and during the weekend

Automatic solvent supply of the evaporating flask

- Refilling with the Sensor-Mode runs automatically and is based on the desired level in the evaporation flask
- Refilling with the Time-Mode is done according to individual time parameters

Automatic discharge of condensate

 A valve matrix controls the continuous discharge of the condensate from the system into a temporary storage flask. Afterwards the collected condensate will be discharged into the collecting tank by a diaphragm pump

End of distillation process

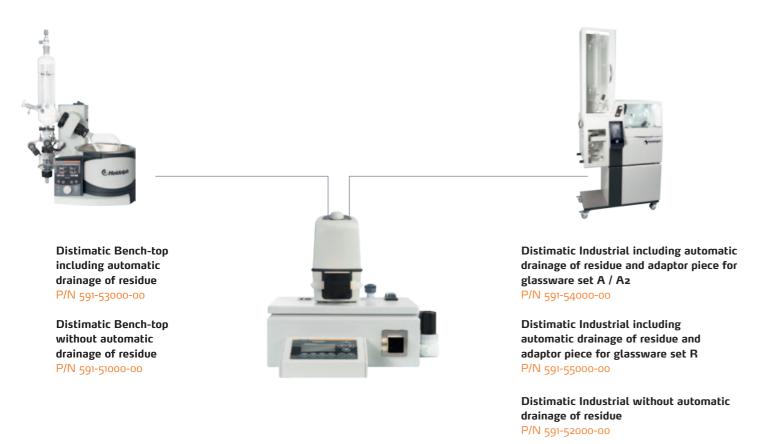
 The process can be terminated automatically after evaporation is completed or manually at any time by the operator

Automatic drainage of residue

• The residue in the evaporating flask will be drained into a collecting tank. Afterwards the process starts again automatically by refilling the evaporating flask

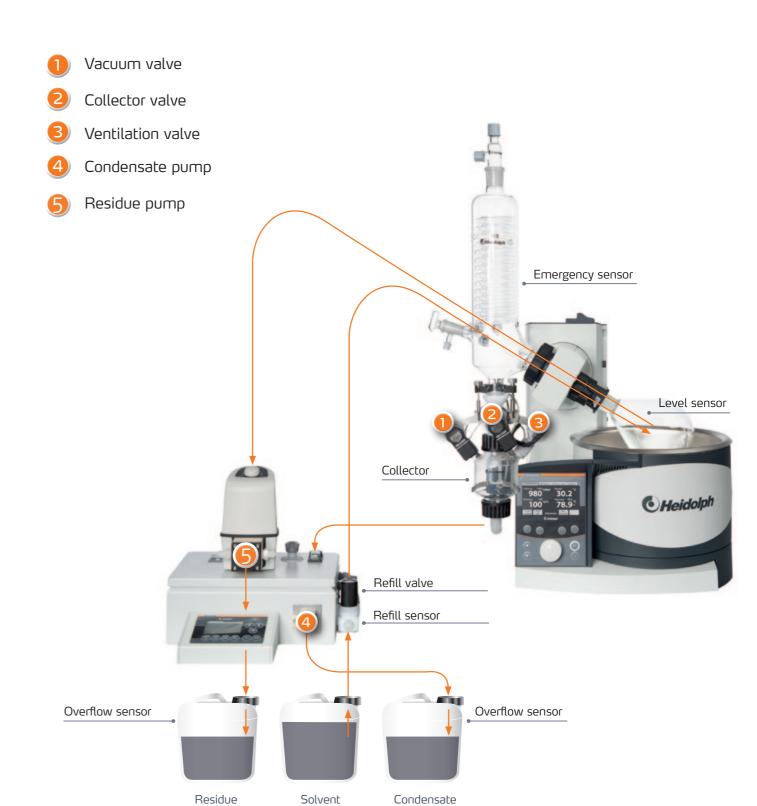
Distimatic Bench-top / Distimatic Industrial

The automatic module Hei-VAP Distimatic is compatible with all bench-top and large-scale evaporators from Heidolph



Functional Principle

Distimatic Bench-top including automatic drainage of residue



Rate of evaporation at continuous operation

 Reach outstanding evaporation rates of up to 6.5 l/h with the Distimatic Bench-top and up to 25.0 l/h with the Distimatic Industrial

Distimatic Bench-top Packages

| Distimatic Bench-top Silver Packages | P/N |
|--|--------------|
| Distimatic Bench-top Silver 1 Package Distimatic Bench-top including automatic drainage of residue, Hei-VAP Value Rotary Evaporator with coated, vertical glassware GgB | 560-01914-00 |
| Distimatic Bench-top Silver 2 Package Distimatic Bench-top including automatic drainage of residue, Hei-VAP Value Digital Rotary Evaporator with coated, vertical glassware set G9B | 560-01914-20 |
| Distimatic Bench-top Silver 3 Package Distimatic Bench-top without automatic drainage of residue, Hei-VAP Value Rotary Evaporator with coated, vertical glassware set G ₃ B | 560-01313-00 |
| Distimatic Bench-top Silver 4 Package Distimatic Bench-top without automatic drainage of residue, Hei-VAP Value Digital Rotary Evaporator with coated, vertical glassware set G ₃ B | 560-01313-20 |
| Distimatic Bench-top Gold Packages | P/N |
| Distimatic Bench-top Gold 1 Package Distimatic Bench-top including automatic drainage of residue, Hei-VAP Advantage Rotary Evaporator with hand lift and coated, vertical glassware set G9B | 561-01914-00 |
| Distimatic Bench-top Gold 2 Package Distimatic Bench-top including automatic drainage of residue, Hei-VAP Advantage Rotary Evaporator with motor lift and coated, vertical glassware set G9B | 562-01914-00 |
| Distimatic Bench-top Gold 3 Package Distimatic Bench-top without automatic drainage of residue, Hei-VAP Advantage Rotary Evaporator with hand lift and coated, vertical glassware set G ₃ B | 561-01313-00 |
| Distimatic Bench-top Gold 4 Package Distimatic Bench-top without automatic drainage of residue, Hei-VAP Advantage Rotary Evaporator with motor lift and coated, vertical glassware set G ₃ B | 562-01313-00 |
| Distimatic Bench-top Platinum Packages | P/N |
| Distimatic Bench-top Platinum 1 Package Distimatic Bench-top including automatic drainage of residue, Hei-VAP Precision Rotary Evaporator with hand lift and coated, vertical glassware set G9B | 563-01914-00 |
| Distimatic Bench-top Platinum 2 Package Distimatic Bench-top including automatic drainage of residue, Hei-VAP Precision Rotary Evaporator with motor lift and coated, vertical glassware set G9B | 564-01914-00 |
| Distimatic Bench-top Platinum 3 Package Distimatic Bench-top without automatic drainage of residue, Hei-VAP Precision Rotary Evaporator with hand lift and coated, vertical glassware set G3B | 563-01313-00 |
| Distimatic Bench-top Platinum 4 Package Distimatic Bench-top without automatic drainage of residue, Hei-VAP Precision Rotary Evaporator with motor lift and coated, vertical glassware set G ₃ B | 564-01313-00 |

Distimatic Industrial Packages

| Distimatic Industrial Platinum Packages | P/N |
|--|--------------|
| Distimatic Industrial Platinum 1 Package Distimatic Industrial including automatic drainage of residue and Hei-VAP Industrial with glassware set R | 518-11155-00 |
| Distimatic Industrial Platinum 2 Package Distimatic Industrial including automatic drainage of residue and Hei-VAP Industrial with glassware set A | 518-13154-00 |
| Distimatic Industrial Platinum 3 Package Distimatic Industrial including automatic drainage of residue and Hei-VAP Industrial with glassware set A2 | 518-14154-00 |
| Distimatic Industrial Platinum 4 Package Distimatic Industrial without automatic drainage of residue and Hei-VAP Industrial with glassware set A2 | 518-14152-00 |
| Distimatic Industrial Platinum 5 Package Distimatic Industrial without automatic drainage of residue and Hei-VAP Industrial with glassware set A | 518-13152-00 |
| Distimatic Industrial Platinum 6 Package Distimatic Industrial without automatic drainage of residue and Hei-VAP Industrial with glassware set R | 518-11152-00 |

Technical Specifications - Automatic Module Distimatic

| Model | | Distimatic Bench-top without drainage of residue | Distimatic Bench-topc including drainage of residue |
|---|-----------|--|--|
| P/N | (230 V) | 591-51000-00 | 591-53000-00 |
| Compatibility (Rotary Eva | porators) | Hei-VAP and Laborota 4000 series * | Hei-VAP and Laborota 4000 series |
| Separate control panel | | yes | yes |
| Display | | digital | digital |
| Automatic refill of sample | | yes | yes |
| Automatic discharge of condensate | | yes | yes |
| Automatic drainage of residue | | по | yes |
| Power input control box | (VA) | 50 | 50 |
| Noise level | (dB(A)) | < 80 | < 80 |
| Total power multiple switched socket | (W) | 3,500 | 3,500 |
| Weight | (kg) | 5 | 5 |
| Measurements without mounted components (W x D x H) | (mm) | 300 X 200 X 120 | 300 X 200 X 120 |
| Permissible ambient temperature | | 5 – 31 °C at 80 % rel. humidity 32 – 40 °C linearly declining to max. 50 % rel. humidity 0 - 2000 m a.s.l., Contamination level 2 Overvoltage category II | 5 – 31 °C at 80 % rel. humidity 32 – 40 °C linearly declining to max. 50 % rel. humidity 0 - 2000 m a.s.l., Contamination level 2 Overvoltage category II |
| Protection class (DIN E | N 60529) | IP 54 | IP 54 |
| | | | |

| Model | Distimatic Industrial without drainage of residue | Distimatic Industrial including drainage of residue |
|--|---|---|
| P/N (230 | V) 591-52000-00 | 591-54000-00 Glassware A / A2 591-55000-00 Glassware R |
| Compatibility (Rotary Evaporato | Hei-VAP Industrial and Laborota 20 series | Hei-VAP Industrial and Laborota 20 series |
| Separate control panel | yes | yes |
| Display | digital | digital |
| Automatic refill of sample | yes | yes |
| Automatic discharge of condensate | yes | yes |
| Automatic drainage of residue | по | yes |
| Power input control box (V | A) 50 | 50 |
| Noise level (dB(| (N)) < 80 | < 80 |
| Fotal power multiple socket (1 | 3,500 | 3,500 |
| Weight (F | g) ₅ | 5 |
| Measurements without mounted components (W x D x H) (m | n) 300 x 200 x 120 | 300 X 200 X 120 |
| Permissible ambient temperature | 5 – 31 °C at 80 % rel. humidity 32 – 40 °C linearly declining to max. 50 % rel. humidity 0 - 2000 m a.s.l., Contamination level 2 Overvoltage category II | 5 – 31 °C at 80 % rel. humidity 32 – 40 °C linearly declining to max. 50 % rel. humidity 0 - 2000 m a.s.l., Contamination level 2 Overvoltage category II |
| Protection class (DIN EN 6052 | g) IP 54 | IP 54 |

All shown values relate on Automatic Module Disitmatic without any external accesory parts



Certificate

To confirm the ability for CONTINUOUS OPERATION of the Automatic Module Distimatic

The Automatic Module Distimatic features overtemperature safety circuits according to DIN EN 61010-1:2001 and DIN EN 61010-2-010:2003 and therefore is designed for continuous operation.

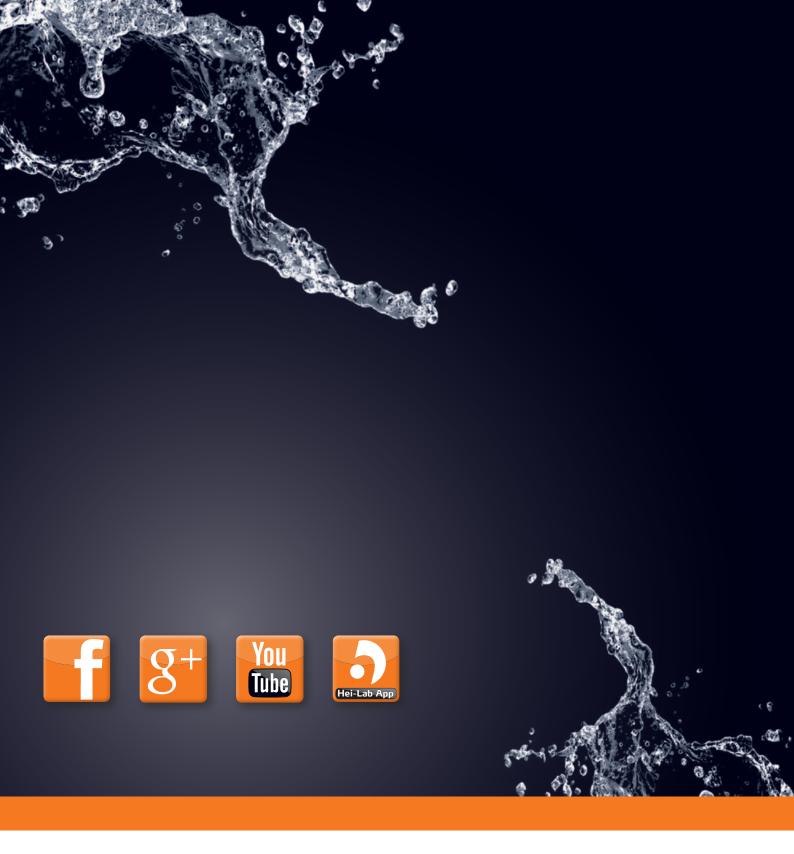
This statement is made under the precondition that all units are operated in accordance with the operation manual and in accordance with good practice standards for safety in laboratories, rules for accident preventions, and compliance with directions on hazardous materials.

Schwabach, January 2015

i. V. Kurt Jelinek Development & Production Manager i. V. Andrea Nißlbeck Quality Control Manager

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^{*} Also compatible to some models of other manufacturers. To check the compatibility please contact your dedicated Heidolph contact person





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