

EVAPORATION MADE



HEI-VAP

Hei-VAP Rotary Evaporators represent a cutting-edge solution for efficient solvent evaporation in laboratory and industrial settings. These versatile devices are designed to simplify the separation of solvents from sample compounds while maintaining precise temperature control and vacuum levels. The Hei-VAP excels in a wide range of applications, from routine distillations to more complex processes like reflux reactions, crystallization, and concentration of solutions.

Key features of Hei-VAP rotary evaporators include digital displays for easy monitoring and control of essential parameters, such as rotation speed and heating bath temperature. They offer robust construction and safety features, including adjustable safety stops and overheat protection, ensuring user confidence and reliable operation. With various models and accessories available, Hei-VAP rotary evaporators cater to diverse laboratory needs, offering the flexibility and performance required for efficient solvent removal and concentration in scientific research and industrial applications.

ELEVATE YOUR EVAPO-RATOR

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MAXIMUM TIGHTNESS

Highly resistant and durable PTFE vacuum seals for many years of continuous operation.

SOLVENT LIBRARY

Integrated solvent library with pre-loaded settings to optimize your process.

PARAMETER CONTROL

Option to upgrade to control parameters on touch screen including chiller & vacuum pump.

UNIQUE EASY-CLIP

Our Easy-Clip is made of highly resistant synthetic material, which ensures a long life.

NO STUCK GLASSWARE

The patented clamping sleeve allows easy removal and eliminates the risk of becoming stuck or broken.

SAFETY FEATURES

The universal heating bath is isolated and doublewalled to prevent heat loss and burns, and two independent safety circuits avoid an overheating situation of your bath

	HEI-VAP CORE	HEI-VAP EXPERT	HEI-VAP ULTIMATE	HEI-VAP EXPERT CONTROL	HEI-V ULTIM CONTF
	Designed for the Essentials	The Precise Classic	Leveled Up Evaporation	Control at Your Fingertips	The Ultimate
Display Type	3.5" LCD Display	5" LCD Color Display	7" LCD Color Display	5" LCD Color Display	7" LCD Color
Solvent Library	N/A	\checkmark	\checkmark	✓	 Image: A start of the start of
Dynamic Auto Accurate (DAA)	N/A	\checkmark	\checkmark	\checkmark	~
Ramp Programming	N/A	\checkmark	\checkmark	\checkmark	 ✓
Vacuum & Chiller Control	N/A	N/A	N/A	\checkmark	 ✓
Vapor Temperature Settings Display	N/A	\checkmark	\checkmark	\checkmark	~
Residual Heat Indicator	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Data Logging	N/A	N/A	N/A	\checkmark	~
Software Connectivity	N/A	N/A	\checkmark	N/A	\checkmark
lassware Pictured	G3 Vertical - Standard/Coated	G5 Dry Ice - Standard/Coated	G3XL Vertical - Standard/Coated	G1 Diagonal - Standard/Coated	G6 Reflux - Stand





TECHNICAL PROPERTIES



ROTATION SPEED

10 to 280 RPM

HEATING CAPACITY

Up to 1,300 Watts

HEATING BATH

4.5 Liter Stainless Steel AISI 316L

SUPPLY POWER

1,400 Watts

PROTECTION CLASS

Unit: IP20 | Heating Bath Connection IP67 Other Cables: IP42

SAFETY CERTIFIED

Certified by OSHA's National Recognized Testing Laboratory (NRTL) Program.

DRIVE

DC motor with electronic speed control

THE HEI-VAP CONTROL PRINCIPLE

Hei-VAP Expert Control and Hei-VAP Ultimate Control allow central control of all process parameters, including vacuum, cooling temperature, rotation, and heating bath temperature.

Customizable solvent library with the ability to save processes as favorites easily. \checkmark

Automatically find boiling points with Dynamic AUTOaccurate



Hei-VAP Expert Control or Hei-VAP Ultimate Control

* A subsequent upgrade is possible: simply connect the "plug and play" control box and enjoy all benefits.

Hei-VAP Rotary Evaporator Control

Description	Hei-VAP Expert (Hei-VAP Expert Control		Hei-VAP Ultimate Control	
	Hand-Lift	Motor-Lift	Hand-Lift	Motor-Lift	
G1 Diagonal - Standard	036041020	036041030	036041060	036041070	
G3 Vertical - Standard	036041021	036041031	036041061	036041071	
G3 XL Vertical - Standard	036041022	036041032	036041062	036041072	
G5 Dry Ice - Standard	036041023	036041033	036041063	036041073	
G6 Vertical for Reflux - Standard	036041024	036041034	036041064	036041074	
G1B Diagonal - Coated	036041025	036041035	036041065	036041075	
G3B Vertical - Coated	036041026	036041036	036041066	036041076	
G3B XL Vertical - Coated	036041027	036041037	036041067	036041077	
G5B Dry Ice - Coated	036041028	036041038	036041068	036041078	
G6B Vertical for Reflux - Coated	036041029	036041039	036041069	036041079	

Hei-VAP Rotary Evaporator

Description	Hei-VAP Core		Hei-VAP Expert		Hei-VAP Ultima	te
	Hand-Lift	Motor-Lift	Hand-Lift	Motor-Lift	Hand-Lift	Motor-Lift
G1 Diagonal - Standard	036040050	036040060	036041000	036041010	036041040	036041050
G3 Vertical - Standard	036040051	036040061	036041001	036041011	036041041	036041051
G3 XL Vertical - Standard	036040052	036040062	036041002	036041012	036041042	036041052
G5 Dry Ice - Standard	036040053	036040063	036041003	036041013	036041043	036041053
G6 Vertical for Reflux - Standard	036040054	036040064	036041004	036041014	036041044	036041054
G1B Diagonal - Coated	036040055	036040065	036041005	036041015	036041045	036041055
G3B Vertical - Coated	036040056	036040066	036041006	036041016	036041046	036041056
G3B XL Vertical - Coated	036040057	036040067	036041007	036041017	036041047	036041057
G5B Dry Ice - Coated	036040058	036040068	036041008	036041018	036041048	036041058
G6B Vertical for Reflux - Coated	036040059	036040069	036041009	036041019	036041049	036041059

AUTOMATIC EVAPORATION

With Dynamic Auto Accurate (DAA)

- The boiling points of one or more fractions are identified through the steam temperature gradation of the mixture during continuous automatic pressure control.
- Freely set whether one or more fractions will be distilled and if the vacuum control is fully automated.
- Control the evaporation speed by adjusting the ratio of steam temperature to the cooling temperature.

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

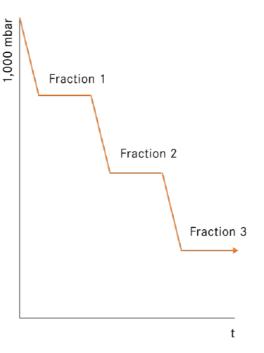
System Requirements: The automatic process control requires a Hei-VAP Expert Control or Hei-VAP Ultimate Control with the AutoAccurate-sensor as well as the configuration with compatible glassware (G3, G3 XL, G6)

FAVORITES & RAMPS

- Solvent library with pre-set, customizable processes and solvents. It can be saved as a favorite anytime and directly on the smart screen.
- Evaporate with a tap: the Smart DAA Program.

Individual Settings: adjust hysteresis (from gentle to highest performance), limit maximum pressure or temperature, multilingual menu with format settings, various calibrations, and assign heating temperature or vacuum to the right knob.





APPLICATIONS

SOLVENT RECOVERY

Many chemistry and industrial processes, from chromatography to transistor cleaning, use solvents that can be difficult or costly to source in large quantities. The Hei-VAP and Hei-VAP industrial provide an in or post-process method of recovering this solvent and purifying it for reuse thanks to the ability to separate by boiling point efficiently. This can be taken a step further and completely automated thanks to the Distimatic Pro, where all external factors of filling and emptying of the evaporator can be controlled via the system.

PRODUCT DRYING

The Hei-VAP provides a tight system and multiple glassware configurations for optimal product drying. Ultimate system tightness allows efficient solvent removal from the product to ensure purity. At the same time, Evaporation Cylinders and Powder flasks provide increased speed and ease of use by removing solvent from solids and powders.

CULINARY

Molecular cooking uses rotary evaporators that evaporate liquids with minimal to no heat, particularly with a dry ice condenser or low-temperature chiller. This process helps retain the volatile aromatics in foods usually lost through heating.

ASPHALT RECYCLING

Recycling of asphalt requires testing of the material to ensure it is high enough quality for reuse. This particularly pertains to the binding agent known as bitumen. Testing the bitumen requires specialized equipment to clean the asphalt, remove the gravel, and extract the bitumen directly. After this process, rotary evaporation separates the solvent used for extraction so the pure bitumen can be analyzed.

CHROMATOGRAPHY

Substance separations in the pharmaceutical, biochemistry, and agrochemical industries are typically done through chromatography. After the separation process, the chromatographic fractions are present at very high dilution. Due to the high dilution, solvent removal could take multiple days or require various pieces of equipment. When lab space is limited, a large-scale evaporator may also not be feasible. The Distimatic Pro allows us to fully automate and run our benchtop Hei-VAP continuously, completing our process over one day instead of multiple.











GLASSWARE

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

See page XX for glassware options.

Sheidolph MADE IN GERMANY
Standard St

RECEIVING FLASK

NS 24/40		
Flask Size		
100 ml		
250 ml		
500 ml		
1,000 ml		
2,000 ml		
3,000 ml		

Evaporation Rate	Toluene	Acetone	Ethanol	Isopropanol	Water
G3 Vertical	6.5 Liters/Hour	6.0 Liters/Hour	2.5 Liters/Hour	4.0 Liters/Hour	1.4 Liters/Hour
G3 XL Vertical	8.5 Liters/Hour	7.5 Liters/Hour	3.5 Liters/Hour	4.9 Liters/Hour	1.4 Liters/Hour
Improvement with XL Condenser	31%	25%	40%	23%	System Limit Reached with 1.4 Liters/Hour



EVAPORATING FLASK

NS 24/40

Flask Size	PN		
50 ml	036302270	1,000 ml	036301160
100 ml	036302290	2,000 ml	036302370
250 ml	036302310	3,000 ml	036302390
500 ml	036302330	5,000 ml	036305000



POWDER FLASK NS 24/40

PN 500 ML: 036302210 PN 1,000 ML: 036302230 PN 2,000 ML: 036302250



SPIDER NS 14.5 NS 24/40 | 20 ML **Distillation Sleeves** PN 6 Sleeves: 036302610 PN 12 Sleeves: 036302630 PN 20 Sleeves: 036302650



SPIDER NS 24 NS 24/40

PN Five 50 ML Flasks: 036302750 PN Five 100 ML Flasks: 036302770

FOAM BRAKE

Foam brake with flask clamp NS 24/40 PN: 036302470





Standard	Coated
036302480	036302490
036302500	036302510
036302520	036302530
036301170	036301180
036302570	036302580
036302590	036302600

ACCESSORIES



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

PN 036305040

TUBING

water connection

PN 036302180



GUARD SHIELD Strong and transparent quart shield to protect from implosions; provides easy and immediate access to flask and bath.

PN 036305050



VACUUM SEAL Special PTFE seal, with FKM seal ring, highest chemical resistance, long lifespan, highest density, FDA-Complaint

PN 036210032



Tubing set with 12 meter tubing

and hose clamp for vacuum and

By the meter: 036294800

VAPOR TEMP SENSOR For Hei-VAP Expert & Ultimate as wells as the control models

PN 036308010



EXTENSION CABLE Allows quick and easy operation even outside closed fume hoods, 1.5 meters in length PN 036210769



SPARE VAPOR TUBE & SLEEVE Standard joint size: NS 24/40

Vapor Tube: 036301110 Clamping Sleeve: 036308030



AUTOACCURATE SENSOR For Hei-VAP Expert & Ultimate Control only, and in combination with glassware sets G3, G3 XL or G6

PN 036308020



HOLDING DEVICE For all Hei-VAP operating panels: can be positioned next to the device or on the wall. PN 036210771



VENTILATION & REPLENISHMENT VALVE Ground-free for precise refilling during the process. With ventilation function.

PN 036210761 Replacement Cap: 036210497



UPGRADE & HAVE COM Subsequent upgrade for Hei-V/

LIQUID

220°C (5 Liters)

PN 036300941

PN 036000026







HEATING BATH

Heating bath liquid for up to

WOULFF BOTTOLE

For separating condensate to protect the valves of the vacuum pump. Screw connection for easy emptying and cleaning PN 036302940

UPGRADE & HAVE COMPLETE CONTROL AT YOUR FINGERTIPS

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



HEI-VAP INDUSTRIAL

The Heidolph Hei-VAP Industrial large-scale evaporators are versatile and suitable for various distillation processes, ranging from standard evaporation without vacuum control to complex distillation processes with vacuum control. These evaporators prioritize safety, convenience, and cost-effectiveness in their design, resulting in several unique advantages.

By choosing Heidolph evaporators, you can distill solvents safely and efficiently, and optional automatic modules enable continuous operation for solvent distillation, even overnight and on weekends. With the Hei-VAP Industrial series, you can trust in a smooth and secure automated distillation process, significantly reducing the time spent on solvent evaporation tasks.

SCALE UP ON DISTILL-ATION

HIGH IMPACT DOORS

High-impact transparent PMMA doors protect the condenser and receiving flasks.

WATER LEVEL SENSORS

The water level regulation system prevents water from spilling over the bath and potentially flooding the lab.

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ILLUMINATED GUARD

An illuminated guard hood with a glass window provides clear and visible monitoring.

EASY LOCK FLASK ATTACHMENT

Easy-Lock flask attachment and self-aligning flask support system allow single users to exchange the flask safely.

ENERGY SAVING

Achieve increased throughput at reduced energy consumption due to an industry-leading leak-proof vacuum.

NRTL CERTIFIED

The Hei-VAP Industrial Large-Scale Evaporator has been tested and certified by OSHA's National Recognized Testing Laboratory (NRTL) Program.

TECHNICAL PROPERTIES



ROTATION SPEED

6 to 180 RPM

HEATING CAPACITY

Up to 4,000 Watts

TEMPERATURE RANGE 20° TO 180°C

HEATING BATH

18 Liter (for water)/14 Liter for oil Stainless Steel AISI 316L

MAX FLASK SIZE 20 Liters (expandable with automation)

SUPPLY POWER 4,600 Watts - 230V Single Phase

PROTECTION CLASS

Unit: IP20 | Panel: IP67

SAFETY CERTIFIED

Certified by OSHA's National Recognized Testing Laboratory (NRTL) Program.

DRIVE

EC Motor

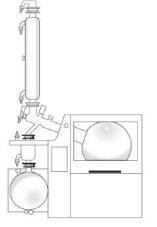
Display	7" Touch Display
Temperature Accuracy	±1°C
Overheat Cut-off Protection	110 (H ₂ O)/210(Oil)
Automatic Heating Bath Control	Micro Processor
Indicating Range Vapor Sensor	0 to 200°C (accuracy 0.1°C
Integrated Vacuum Control	~
Timer	\checkmark
Vacuum Control Program SETpressure ²	~
Vacuum Control Program AUTOaccurate ²	\checkmark
Programmable Ramps	~
Dimensions (W x H x D)	998 x 2,225 x 694 mm
Glassware R - Single Shorty R - Single Glassware R - Dual Shorty R - Dual	036072000 036072010 036072005 036072015
Glassware A - Single Glassware AC - Dual	036072020 036072025
Glassware A1 - Single Glassware A1C - Dual	036072400 036072402
Glassware A2 - Single Glassware A2C - Dual	036072030 036072035
Glassware K - Single Glassware KC - Dual	036072040 036072045

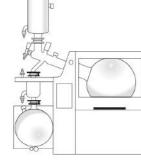


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GLASSWARE

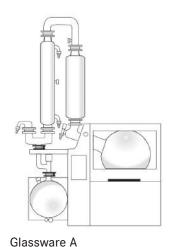
ACCESSORIES

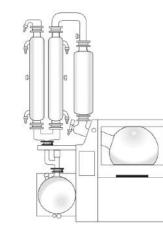




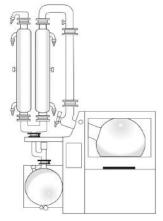
Glassware R

Glassware Shorty R





Glassware A2



Glassware A1

Glassware K

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GLASSWARE R

This glassware assembly includes one ascending condenser, on 20 liter evaporating flask and is recommended for all standard distillations.

GLASSWARE SHORTY R

- Identical to glassware R, but features a condenser that is 320mm shorter.
- Distillation capacity remains the same. This assembly is ideal in laboratories for hood applications or where height is restricted.

GLASSWARE A

This glassware assembly includes one descending condenser, one expansion vessel, one 20 liter evaporating flask, on 10 liter receiving flask and is recommended for solvents that tend to splash and foam.

GLASSWARE A2

- This glassware assembly includes one ascending, one descending condenser and one expansion vessel, one 20 liter evaporating flask , and one 10 liter receiving flask.
- For low boiling solvents and highest recovery rates

GLASSWARE A1

- This glassware assembly includes one ascending, one descending condenser, one 20 liter evaporating flask, and one 10 liter receiving flask.
- For low boiling solvents and highest recovery rates.

GLASSWARE K

- Condensate trap fro low boiling solvents; cooling by dry ice
- Comes with 20 liter evaporating flask and one 10 liter receiving flask.



EVAPORATING FLASK 6 Liter: 036303015 10 Liter: 036303005 20 Liter: 036302995



POWDER FLASK 10 Liter: 036303035 20 Liter: 036303025



AMBER EVAPORATING FLASK

Protect your light-sensitive media with the dark color of this 20 liter evaporator flask PN 036302996



HEATING BATH LIQUID Heating bath liquid for up to 220°C (5 liters)

PN 036300941



TUBING

16 Meters: 036303100

By Meter: 036294800



BASE CART Tubing set with 6 meter of vacuum and 10 meter of enforced cooling tube incl. hose clamps

PN 036303090



For all Hei-VAP Industrial models



RECEIVING FLASK With drain valves, 10 liter (standard for all Industrial models) PN 036303040



APPLICATIONS

MINING

Many mining techniques involve using solvents to extract precious metals from mined rocks. This will involve Hydrochloric acid, Nitric Acid, and, in the end, stage aqua regia. The process of further refining the precious metals out of solvent extraction can require shipment to refining operations, leading to large hazardous shipping costs. Hei-VAP Industrial and distimatic provide a solvent-resistant, high throughput, and safe method of concentrating the precious metals within the solvent, whether to fully crash out the precious metals or to create a more reasonable volume for shipping.

CHROMATOGRAPHY

Substance separations in the pharmaceutical, biochemistry, and agrochemical industries are typically done through chromatography. After the separation process, the chromatographic fractions are present at very high dilution. With the help of large-scale rotary evaporators, the solvent mixture is separated from the synthetic intermediates and active ingredients contained within. Hei-VAP industrial and distimatic allow for fully automating the process and thoroughly refining the solvent back to HPLC grade in cases such as methanol.

SOLVENT RECOVERY

Many industrial-scale processes use solvents to clean, prepare, or finish products. Many of these solvents can vary in scale from standard grade to high-grade purity. The Semiconductor industry may use IPA for cleaning their printed boards, the auto industry has cleaning fluids that can be refined, and the pharmaceutical has leftover material from chromatography or equipment cleaning that can be recycled. These materials can be purified within the Hei-VAP industrial and distimatic to make large quantities of solvents and fluids reusable. This reduces waste and allows for less expenditure on new solvents.

PLANT EXTRACTION

When extracting plant substances, large volumes of extraction solution are produced. If the end product is to be suitable for consumption later on, ethanol is often the solvent of choice. This is used in many industries, from food and beverage to essential oils, pharmaceuticals, and cannabis. To efficiently remove the solvent in a manner that also makes the solvent reusable, rotary evaporation is the most effective choice. The Hei-VAP industrial paired with the Distimatic Pro enables continuous evaporation to fit extract concentration into your workflow.





HEI-VOLUME DISTIMATIC

Saves time. Increases throughput. Reduces costs. Dealing with large volumes does not have to be timeconsuming: The Hei-VOLUME Distimatic module allows you to fully automate the filling and emptying of your Hei-VAP Benchtop or Industrial large-scale rotary evaporator.

Whether you are tight on lab space or need to increase throughput without purchasing additional rotary evaporators, the Distimatic Pro module can be added to a new or existing Hei-VAP or Hei-VAP industrial rotary evaporator. Automating your process so your chemists can focus on their chemistry and pushing your workflow into 24 hours, seven days a week.

24/7 NO HANDS EVAPO-RATION

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SENSOR CONTROLLED AUTOMATION

Program to begin your evaporation automation with minimal input.

24-HOUR AUTOMATION

Designed to work unattended, even overnight.

TIMER CONTROLLER AUTOMATION

This an option for those who wish to fine-tune every aspect of their process.

AUTOMATED CLEANING

A rinse cycle to enable cleaning in place

7-INCH TOUCH SCREEN PANEL

Easy-to-use interface to influence every aspect of your automation.

AUTOMATIC CUTOUT

Safety Cutouts to protect equipment, operator, and chemistry.

DISTIMATIC PROCESS

The Distimatic Pro operates through a series of sensors, valves, overpressure, and vacuum pressure to facilitate automated liquid transfer and continuously run your evaporation process.

Internal Vacuum pulls product/ solvent mix into the evaporation.

The evaporation flask fills until the mixture reaches the sensor.

Evaporation begins

- Mixture refills when the level drops below the sensor
- Evaporated solvent gets collected in the valve matrix below the condenser.

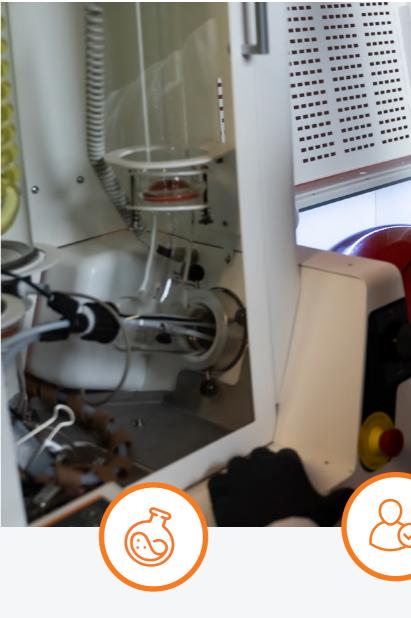
When the valve matrix fills, overpressure transfers solvent into a container.

The process repeats until all solvent is removed from the product at a predetermined amount, until we have no more material to feed, or until the product level without solvent reaches the level sensor.

The overpressure process begins inside the evaporator to remove residual product from the evaporator into a container of your choice.

Process Repeats.





REDUCED WORK LOAD THROUGH AUTOMATION

The Hei-VOLUME Distimatic automates critical tasks, such as flask filling, distillate drainage, and residue overpressure handling. They also provide safety with an automatic shutdown and an automatic cleaning program for hassle-free maintenance, making lab work more efficient and convenient.

USER-FRIENDLY INTERFACE & PROGRAMING

The Distimatic excels in user-friendliness. featuring an intuitive interface with push rotary knobs, a 7" touchscreen, and guided menu navigation for easy parameter setup and storage. The process flow display uses pictograms and colors for precise progress tracking, and a removable control panel allows remote adjustments.



EFFICIENCY & SAFETY THROUGH **SMART SENSORS**

The Distimatic's smart sensors improve lab efficiency and safety. They maintain constant conditions for increased distillation rates, offer versatile operation modes, and allow unattended 24/7 use. These systems are spacesaving and cost-effective compared to more significant alternatives.

	Distimatic Industrial Without Drainage of Residue	Distimatic Industrial Including Drainage of Residue
Compatibility Rotary Evaporators	Hei-VAP Industrial	Hei-VAP Industrial
Separate Control Panel	\checkmark	\checkmark
Display	Digital	Digital
Automatic Refill of Sample	\checkmark	✓
Automatic Discharge of Condensate	\checkmark	\checkmark
Automatic Discharge of Residue	N/A	✓
Power Input Control Box	50 VA	50 VA
Noise Level	< 80 dB (A)	< 80 dB (A)
Total Power Multiple Switched Socket	3,500 W	3,500 W
Permissible Ambient Conditions	5 - 31° C at 80% rel. humidity 32 - 40° C decreasing linearly up to max of 50% rel. humidity 0 - 2,000 m a.s.l., Contamination level 2, Over-voltage Category 2	5 - 31° C at 80% rel. humidity 32 - 40° C decreasing linearly up to max of 50% rel. humidity 0 - 2,000 m a.s.l., Contamination level 2, Over-voltage Category 2
Protection Class	IP 54	IP 54
A Glassware R Glassware	036064400 036064200	036064500 036064300

DISTIMATIC BENCH-TOP INCLUDING DRAINAGE OF RESIDUE

Compatibility Rotary Evaporators	Hei-VAP	Power Input Control Box	50 VA
Separate Control Panel	 Image: A set of the set of the	Noise Level	< 80 dB (A)
Display	Digital	Total Power Multiple Switched Socket	3,500 W
Automatic Refill of Sample	 	Permissible Ambient Conditions	See Above
Automatic Discharge of Condensate	\checkmark	Protection Class	IP54
Automatic Discharge of Residue	 Image: A second s	PN	036294902



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With Heidolph you can tell that it's a premium product with it's quality. With the features, with how user-friendly it is.

VACUUM PUMPS

VALVE-REGULATED VS. **RPM-REGULATED**

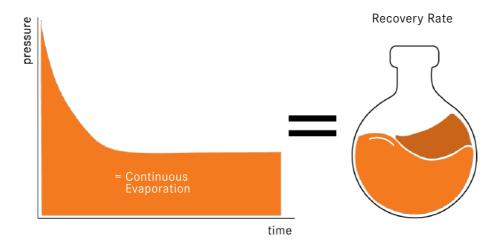
Valve-Regulated Vacuum Pumps

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

RPM-Regulated Vacuum Pumps

- Highest distillation rates possible and reducing process time by 30% and \checkmark solvent recovery of up to 99%.
- Minimized runtime saves energy and significantly increases the lifespan of the \checkmark diaphragm.
- Guarantees minimum noise and vibrations during operation
- Achieve the most precise vacuum \checkmark
- Once the required vacuum is reached, the pump automatically stops and \checkmark reliably keeps the vacuum at the desired level.

Fully Automatic Control with Speed Adjustment







ROTAVAC VALVE TEC

Ideal for low to medium boiling point solvents, offering precise vacuum control via valves or manual controllers. Essential with Hei-VAP Control models for enhanced performance, it's a musthave for researchers working with volatile solvents.

Diaphragm Pump	Two-Stage
Suction Capacity	0.75 m³/h
Ultimate Vacuum	12 mbar
Combinable with Condenser	\checkmark
Power Input	80 Watts
Weight	6.0 kg
Dimensions with no condenser	145 x 315 x 185 mm
PN	036394780



ROTAVAC VALVE CONTROL

Efficiently handles multiple rotary evaporators with flexible vacuum control via valves or manual controllers. Enhance compatibility and efficiency with Hei-VAP Control models using a vacuum valve. Ideal for labs needing precise vacuum control.

Two-Stage 2.0 m³/h

7 mbar

 \checkmark

180 Watts

12.8 kg

195 x 245 x 310 mm

036302830

RPM-REGULATED



ROTAVAC

VARIO TEC

Tailored for Hei-VAP Control models,

enabling direct control through the

rotary evaporator. It's an ideal choice

for solvents with low to medium boiling

points, simplifying and enhancing

processes.

laboratory

efficiency in various

) heidolan

ROTAVAC VARIO CONTROL

For Hei-VAP Control models, it enables efficient distillation of high boiling point solvents at lower heating bath temperatures, even with the gas ballast valve open. Ideal for precise and efficient distillation.



ROTAVAC VARIO

PUMPING UNIT

A versatile standalone unit with a

vacuum pump and controller for

precise vacuum control, preventing

sample loss. It automates vacuum

supply based on process parameters,

freeing up time for critical lab tasks.

FOR

ROTAVAC 20

This vacuum system can be applied in many fields to evacuate, evaporate, and pump out gases and vapors. Thanks to the emission condenser, it is possible to achieve a chemical recovery of almost 100%.

Diaphragm Pump	Two-Stage	Three-Stage	Three-Stage
Suction Capacity	1.0 m³/h	1.7 m³/h	1.7 m³/h
Ultimate Vacuum	12 mbar	2 mbar	5 mbar
Combinable with Condenser	\checkmark	 Image: A second s	\checkmark
Power Input	160 Watts	160 Watts	160 Watts
Weight	4.3 kg	5.4 kg	6.0 kg
Dimensions with no condenser	156 x 236 x 196 mm	167 x 236 x 196 mm	193 x 299 x 299 mm
PN	036308100	036308090	036308310

INDUSTRIAL



Stage

n³/h

bar



Vatts

kg

x 495 mm

)4775



VACUUM VALVE

It is required for Hei-VAP Control models with valvecontrolled vacuum pumps. It can be positioned for easy access and cleaning, not required for a manual vacuum pump.

PN 036308071



MANUAL VACUUM CONTROLLER

Control the house vacuum or any other vacuum source manually with a pressure range of 0 to 1,020 mbar.

PN 036308000



HEI-VAC CONTROL

Creates accurate vacuum control with an integrated ceramic diaphragm, vacuum sensor, regulation valve, and venting valve. Ready for use with power supply and user manual.

PN 036308001

HEI-CHILL CHILLERS

	HEI-CHILL 250	HEI-CHILL 350	HEI-CHILL 600	HEI-CHILL 1200
Display	7-Segment, LED	7-Segment, LED	7-Segment, LCD	7-Segment, LCD
Temperature Range	-10° to +40°C	-10° to +40°C	-10° to +40°C	-10° to +40°C
Thermal Fluid Volume	2 to 4 Liters	4 to 7 Liters	4 to 8 Liters	7 to 14 Liters
Cooling Capacity at 20°C	250 Watts	350 Watts	600 Watts	1,200 Watts
Cooling Capacity at 0°C	150 Watts	200 Watts	360 Watts	750 Watts
Cooling Capacity at -10°C	90 Watts	120 Watts	150 Watts	400 Watts
Temperature Accuracy	±0.5K	±0.5K	±0.5K	±0.5K
Pump Pressure Maximum	0.35 mbar	0.35 mbar	1.3 mbar	1.3 mbar
Pump Flow Maximum	9 Liters/min	9 Liters/min	20 Liters/min	20 Liters/min
PN	036306516	036306517	0363006518	036306519



HEI-CHILL PELTIER

2.83" Touch Display

-10° to +70°C

5.5 Liters

600 Watts

200 Watts

100 Watts

±0.05K

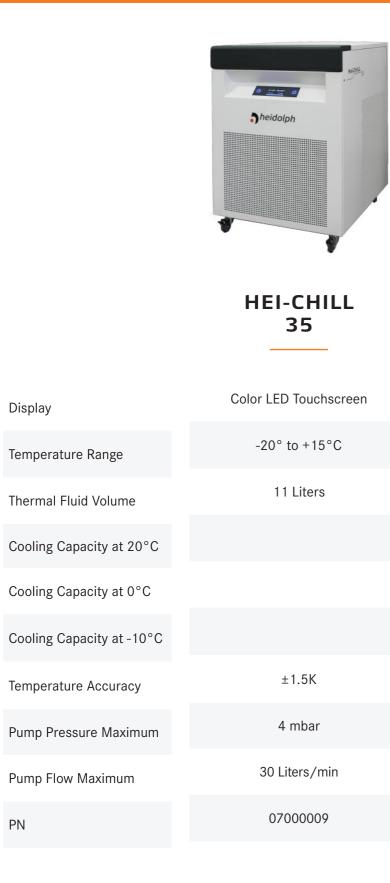
1.1 mbar

3 Liter/min

036306533

LARGE-SCALE EVAPORATION

NOTES



Display

ΡN



RS 232 CABLE To connect a Hei-CHILL to a Hei-VAP Control model PN 036306014



COOLING TUBE For cooling inside Ø 8 mm, sold by meter, for operating temps -20° to 60°C

PN 036306512



KRYO-30 LIQUID Non-flammable thermal fluid for Hei-CHILL recirculating chillers

10 Liters: 036306513 20 Liters: 036306507



INTERNATIONAL

Heidolph Instruments GmbH & Co. KG Walpersdorfer St. 12 | 91126 Schwaback, Germany Phone: +49 9122 9920-67 | Fax: +49 9122 9920-65 sales@heidolph.de | heidolph-instruments.com

NORTH AMERICA

Heidolph North America 1235 N. Mittel Blvd. Suite B | Wood Dale, IL 60191 (224) 265-9600 | hello@heidolph.com | heidolphna.com

