





Do you demand the highest safety standards, perfectly engineered ease of use and reduced cost of ownership?

Intelligent Evaporation...

... stands for an overheat protection design that prevents water baths running dry, provides a detachable panel for superior ease of use from outside closed fume hoods and offers a proven vacuum seal and vapor tube system guaranteed for years of operation!



Leading Safety Standards

- Two independent safety circuits avoid an overheat situation of your heating bath: If bath temperature overshoots by 5 °C and if your water bath runs dry, heating will be switched off automatically
- To avoid an overtemperature situation and potential thermal damage to your sample, you can individually pre-program a maximum temperature on the Hei-VAP Precision, at which the bath powers off
- In case of a power cut, all motor lift models will remove the flask from the heating bath preventing safety hazards and potential thermal damage to your sample
- To protect you from splashes and scalding, the Hei-VAP heating bath features an integrated pour spout to remove bath fluid safely

- Heating bath is constructed with a double wall for your protection against burns and scalding
- The guard hood covers the bath even if the heating bath is adjusted horizontally to its most extreme limit
- A metal support between the heating bath and the base unit prevents bath instability
- To protect your heating bath against short-circuits and systematic corrosion, the cable coupling complies with the protection class IP 67
- For your protection, the operating panel is located near the base so as to keep your hands out of the dangerous zone of rotating flasks, steam and splashing bath fluids

Hei-VAP heating bath



- All heating baths feature non-slip handles with safety grip to protect you from scalding bath liquids and allow for easy installation/removal of the bath
- A separate on/off switch for heating prevents unintentional heat-up. The button is illuminated for visual control
- In case of an overshoot of any parameter setting, all models will show a warning on the operating panel
- Glassware assemblies are optionally available with transparent plastic safety coating ensuring ultimate protection while allowing visual control at all times
- IQ-OQ documentation is available for Hei-VAP models on request

YOUR ADVANTAGES

- The Hei-VAP heating bath reaches a temperature of 210 °C
- The universal heating bath can even accommodate 5-liter flasks
- The heating bath can be adjusted horizontally up to 200 mm
- To prevent short circuits and corrosion, the cable coupling complies with the protection class IP 67
- Non-slip handles for safe transportation eliminate the risk of scalding
- An integrated pour spout to remove bath fluid safely

Superior Ease of Use

- The detachable operating panel enables convenient handling from **outside** closed fume hoods
- The patented evaporating flask clamp Easy-Clip cannot be lost due to a connection to the vapor tube coupling ring
- The integrated screwed ring allows you to remove sticking evaporating flasks from the vapor tube just in seconds in a safe manner
- The universal heating bath can be adjusted horizontally up to 200 mm and offers efficient space to **accommodate** even 5-liter flasks
- The innovative ventilation and replenishment valves no longer have ground joints, which enables maximum tightness and grease-free operation
- For your convenience, the **height** of 160 mm and the angle of the evaporating flask can be **adjusted** easily from 20° to 80°
- The optional automatic module Distimatic Bench-top allows for continuous and unattended automatic operations
- All components in direct or indirect contact with the medium are equipped with FDA-compliant materials for an extended application range





Reduced Cost of Ownership

- Achieve up to 40% higher evaporation rates due to unique tightness and industryleading condensing surface with the XL condenser
- The high resistant and durable FKM vacuum seal achieves maximum tightness and reduces spare part budgets
- The patented clamping sleeve ensures a long life performance of the vapor tube
- Increase your range of applications by using 5-liter flasks in the universal bath at no additional cost
- Maintenance-free and non-sparking motors reduce repairs and down times significantly to ensure years of continuous operation
- The flange on the condenser side of the drive is made of PPS (Polyphenylene sulfide), a robust industrial-designed resin with superior chemical resistance which provides more chemical resistance than stainless steel or welded aluminum. This reduces corrosion to a minimum which results in additional savings on maintenance and replacement components
- Spend your working hours more effectively on other challenges which require your attention and **evaporate** large quantities continuously with the automatic module Distimatic Bench-top

- Maximize your initial investment significantly: the automatic module Distimatic Bench-top is an **affordable** and more flexible alternative to largescale rotary evaporators
- Reduce your maintenance costs. The sealed housing protects your rotary evaporator from aggressive fumes, liquids and vapors to prevent internal corrosion. This results in an increased lifespan of 10 years on average at a reduced maintenance and repair cost

Vapor tube with patented clamping sleeve



YOUR ADVANTAGES

- The patented clamping sleeve system allows easy removal of the vapor tube from the drive
- Years of performance life reduce your spare parts budget up to 75 %
- The Hei-VAP vapor tube does not get stuck in the drive, thus eliminating the risk of broken glass
- Immediate removal of the vapor tube from the drive facilitates your work

Intelligent Evaporation

Leading Safety Standards

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



Patented flask clamp Easy-Clip



YOUR ADVANTAGES

- Easy-Clip can't get lost due to a direct connection to the drive
- The integrated screw thread allows an easy removal of sticking flasks
- The Easy-Clip is made of highly resistant synthetic material which ensures a long life performance

Operating panel



YOUR ADVANTAGES

- Changing all parameters from outside closed fume hoods guarantees the highest safety level
- Standard for all models is a panel with 1 m cable connection. Thus data security is guaranteed at any time
- Immediate access to the panel ensures ultimate control of the process while increasing your ease of use
- A separate on/off switch for heating prevents unintentional heat-up – the button is illuminated for visual control

and automated distilling in 24/7 operation. An alternative to large rotary evaporators



Achieve up to 40 % higher evaporation rates due to tightness and industry-leading **2200 cm²** condensing surface with the XL condenser

> The new highly resistant vacuum seals allow for long lasting constant application and reduce spare parts budgets. Also available as FFKM version for application with extremely aggressive solutions

> > 5 heidolp

Superior ease of use due to the patented Easy-Clip, which provides an easy removal of sticking flasks and non-sticking vapor tube with patented clamping sleeve that eliminates broken glass and reduces spare parts cost significantly

> 210 °C Safety heating bath with handles and pour spout will power off if temperature overshoots by 5 °C or runs dry

> > Bath power cable coupling complies with protection class IP 67 to prevent corrosion and short circuits

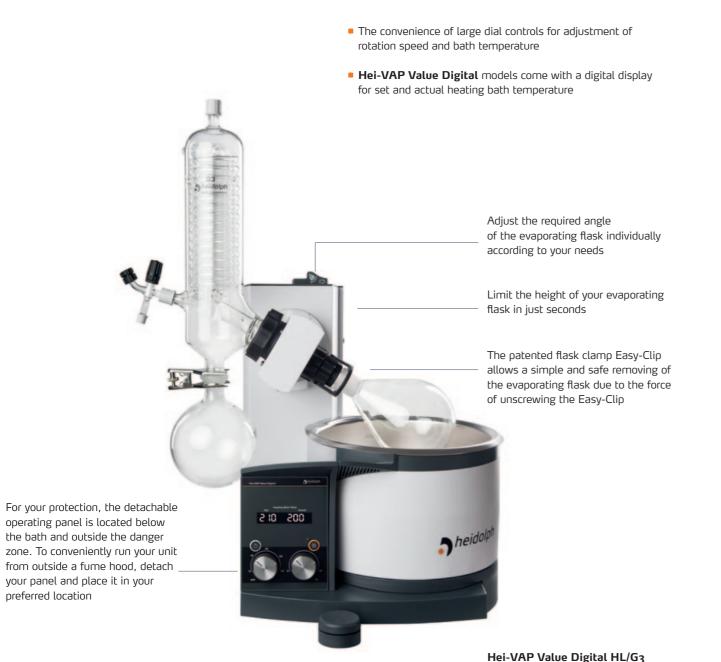
heating prevents unintentional illuminated for visual control

A metal support between the heating bath and the base unit **prevents** bath instability

Hei-VAP Value / Hei-VAP Value Digital

Superior ease of use due to direct control

The Hei-VAP devices with hand lift are optimally suited for all standard applications. Controlling parameters is done so with the simple turn of a knob



P/N 560-01302-00

Model	Hei-VAP Value hand lift (HL)		Hei-VAP Value Digital hand lift (HL)	
Glassware	standard	coated	standard	coated
G1 Diagonal	560-01100-00	560-01110-00	560-01102-00	560-01112-00
G3 Vertical	560-01300-00	560-01310-00	560-01302-00	560-01312-00
G3 XL Vertical	560-01305-00	560-01315-00	560-01307-00	560-01317-00
G5 Dry Ice Condenser	560-01500-00	560-01510-00	560-01502-00	560-01512-00
G6 Vertical for Reflux	560-01600-00	560-01610-00	560-01602-00	560-01612-00

Hei-VAP Advantage

Wide range of possibilities for reproducible results With the Hei-VAP Advantage you have a direct view on all parameter settings and are able to expand your application range

Large digital LCD display which allows you to monitor all parameters even from a distance

Convenient motor lift adjusts height by the press of a button

250 - 038× 169 - 210×

Hei-VAP Advantage ML/G₃ P/N 562-01300-00

Model	Hei-VAP Advantage hand lift (HL)		Hei-VAP Advantage motor lift (ML)	
Glassware	standard	coated	standard	coated
G1 Diagonal	561-01100-00	561-01110-00	562-01100-00	562-01110-00
G3 Vertical	561-01300-00	561-01310-00	562-01300-00	562-01310-00
G ₃ XL Vertical	561-01305-00	561-01315-00	562-01305-00	562-01315-00
G5 Dry Ice Condenser	561-01500-00	561-01510-00	562-01500-00	562-01510-00
G6 Vertical for Reflux	561-01600-00	561-01610-00	562-01600-00	562-01610-00

- Available in hand lift or motor lift configurations
- Experience the advantages of our large digital 3.5" LCD display which indicates rotation speed, heating bath and vapor temperature
- Experience the advantages of the automatic process timer which turns off your evaporator at a preprogrammed time and removes evaporating flasks from bath on motor lift models
- Upgrade your Hei-VAP Advantage to a Hei-VAP Precision:



Upgrade-KIT Advantage Precision-HL P/N 569-30009-00

Upgrade-KIT Advantage Precision-ML P/N 569-40009-00

Hei-VAP Precision

Maximum capabilities due to integrated vacuum control

The Hei-VAP Precision provides you with the maximum range of parameters, including but not limited to, reproducible applications and fully automated processes. Even solutions with different boiling points can be identified and distilled

- Available in hand lift or motor lift configurations
- Experience the advantages of our large 4.3" color graphic display which features all parameters, integrated vacuum controller and includes programs for automated distillations
- Make your life easier by utilizing the integrated software support which leads you through the capabilities of the evaporator
- For data management Hei-VAP Precision models feature a USB interface
- Save time by configuring the unit all connected devices will be recognized by the evaporator, which eliminates the need to configure the unit manually

For increased safety all bath temperature adjustments can be limited

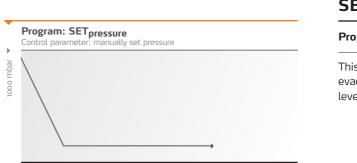
Even from a distance you will be able to monitor the numbers on the display easily

Large color graphic display for all parameters and automated programs

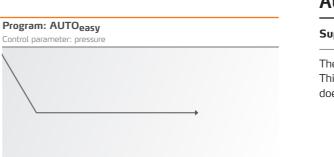
- Now you can manage even the most demanding applications easily and prevent foaming, excessive bubbling or bumping
- Save time with your individualized pre-programmed parameter settings for your 30 most common applications used on a daily basis by saving them in a "Favorites" section
- Each ramp offers 20 separate steps for demanding applications
- Apply an individual name to those ramps to avoid a mix-up
- Experience the advantages of the automatic process timer which turns off your evaporator at a pre-programmed time by raising the flask on motor lift models and releasing vacuum
- Control your process individually by preprogramming vacuum gradients
- Hei-VAP Precision models feature a built-in vacuum controller as a standard



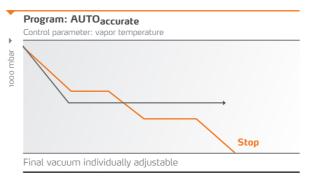
For automated distillation choose between these three programm opportunities:



Manually set vacuum

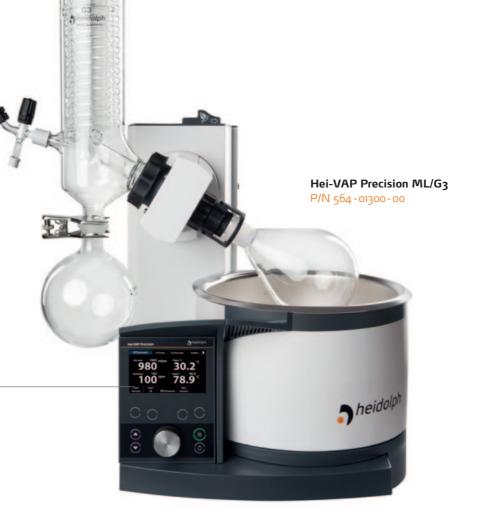


Finds boiling point automatically and holds vacuum constant



Finds multiple boiling points automatically

Model	Hei-VAP Precision hand lift (HL)		Hei-VAP Precision motor lift (ML)	
Glassware	standard	coated	standard	coated
G1 Diagonal	563-01100-00	563-01110-00	564-01100-00	564-01110-00
G3 Vertical	563-01300-00	563-01310-00	564-01300-00	564-01310-00
G ₃ XL Vertical	563-01305-00	563-01315-00	564-01305-00	564-01315-00
G5 Dry Ice Condenser	563-01500-00	563-01510-00	564-01500-00	564-01510-00
G6 Vertical for Reflux	563-01600-00	563-01610-00	564-01600-00	564-01610-00



SETpressure

Program for solvent separations

This program holds a pre-set vacuum constant. During the evacuation you have the full flexibility to choose another level of vacuum by the press of a button

AUTO_{easy}

Supports the automatic pressure control for solvent separations

The pressure level for the first boiling point is found automatically. This program can be used with all Heidolph glassware assemblies and does not require any accessories

AUTO_{accurate}

Supports very precise automatic pressure control for solvent separations

This program works similar to AUTO_{easy} but in addition is able to identify multiple boiling points automatically by reducing vacuum accordingly. Also the AUTO_{accurate} program delivers the finest and most precise vacuum control. To take advantage of this program, the optional AUTO_{accurate}-sensor is required. This program cannot be used on Heidolph G1 and G5 glassware assemblies. Leading parameter of this program is the vapor temperature



- Glassware set includes one 1,000-ml evaporating flask and one 1,000-ml receiving flask
- All glassware sets are also available with transparent plastic coating for added safety

For maximum evaporation performance

rates. Available in G3 XL and G9* XL versions

The new XL condenser with industry-leading condensing

surface of 2100 cm2 achieve up to 40% higher evaporation

- Evaporating flasks and vapor tubes which come with a standard NS 29/32 joint size are also available with NS 24/29 ground joints
- Also available upon request: glassware sets for Soxhlet extraction and descending condenser system

 All glassware sets feature GL 10 thread; the inlet tube can be connected with a threaded fitting

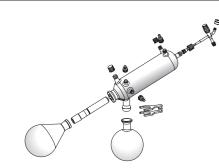
Glassware sets G₃ and G6 allow for the automated distillation program AUTOaccurate on Hei-VAP Precision models



Glassware set G1

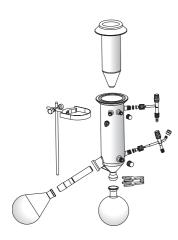
XL Condenser

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



Glassware set G₅

Dry Ice condenser for low-boiling solvents

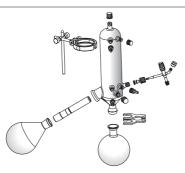


* For use with distimatic bench-top

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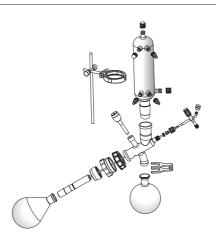
Glassware set G₃

 Vertical condenser for all standard destillations; the option with the smallest space requirements, also available as XL version



Glassware set G6

 Vertical condenser; centerpiece with valve for reflux distillation



Accessories





Evaporating flask 100 ml Evaporating flask 250 ml Evaporating flask 500 ml Evaporating flask 1,000 ml Evaporating flask 2,000 ml Evaporating flask 3,000 ml Evaporating flask 5,000 ml

* Evaporating flask NS 14.5 incl. adaptor (NS 29 or NS 24)

Receiving flasks

Receiving flask - NS 35/20 Receiving flask - NS 35/20



Powder flasks Powder flask 500 ml

Powder flask 1,000 ml Powder flask 2,000 ml



Spider Spider with 6 distillation s Spider with 12 distillation sl



Spider Spider with 5 flasks NS 2 Spider with 5 flasks NS 2



Evaporating cylinder Evaporating cylinder 500 m Evaporating cylinder 1,500



Foam brake

Foam brake with flask clarr

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NS	29/	32

514-70000-00
514-71000-00
514-72000-00
514-73000-00
514-74000-00
514-75000-00
514-76300-00
514-78000-00

NS 24/29

514-70000-01
514-71000-01
514-72000-01
514-73000-01
514-74000-01
514-75000-01
514-76300-01
514-78000-03

0 100 ml
250 ml
9 500 ml
0 1,000 ml
0 2,000 Ml
9 3,000 ml

514-81000-00
514-82000-00
514-83000-00

514-84000-00

514-85000-00

514-87000-00

standard

coated

514-81000-02
514-82000-02
514-83000-02
514-84000-02
514-85000-02
514-87000-02

NS	29/32

J.4 /J200 00	
514-74200-00	
514-75300-00	

NS	24/	29	
51/1 -	7320	<u> </u>	1

_		15			
51	4.	7420	00-	01	
51	4.	7530	00-	01	

Spider with 6 distillation sleeves NS 14,5 20 ml	
Spider with 12 distillation sleeves NS 14,5 20 ml	
Spider with 20 distillation sleeves NS 14,5 20 ml	

NS 29/32
15-300-005-09
15-300-005-10
15-300-005-11

NS 24/29
15-300-005-12
15-300-005-13
15-300-005-06

	NS 29/32	NS 24/29
24 50 ml	15-300-005-04	15-300-00
24 100 ml	15-300-005-07	15-300-005

	NS 29/32	NS 24/29
ml	514-00070-00	514-00070-01
) ml	514 - 00071 - 00	514-00071-01

	NS 29/32	NS 24/29
mp	514-00004-00	514-00005-00

Accessories



Guard hood P/N 569-00010-00

- Strong and transparent guard hood to protect you from implosions
- Provides easy and immediate access to flask and bath



Guard shield P/N 569-00020-00

Strong and transparent guard shield for your protection while changing flasks Attached at the edge of the bath



Vapor temperature sensor P/N 569-00030-00

For Hei-VAP Advantage and Hei-VAP Precision



AUTO_{accurate}-sensor P/N 569-00040-00

- For Hei-VAP Precision
- Only in combination with glassware set G3 and G6



Tubing P/N 591-35000-00 (Package 12 m) P/N 591-33000-01 (by the meter)

Tubing for vacuum and water connection. Available as package (12 meter piece) or in individual length (by the meter)



Vacuum seal P/N 23-30-01-01-30 (FKM) P/N 23-30-01-06-70 (FFKM)

Standard FKM spare seal Ultra resistant FFKM seal for applications with highly abrasive solutions





Heating bath liquid P/N 569-00600-00

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

Vacuum Pumps

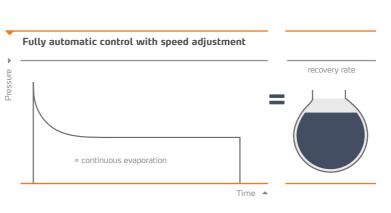
Advantages of all chemical-resistant diaphragm vacuum pumps



- All components which come in contact with media are built from chemically resistant fluoropolymer
- The durable PTFE design guarantees an superior diaphragm lifespan
- The head cover and clamping disc have a stable core made of metal which offers unsurpassed long-term performance of your operational parameters

RPM-Regulated Vacuum Pumps

- 10 Highest distillation rates possible and reducing process time by 30 %
- **Stable distillation conditions account for solvent recovery up to 99 %**



RPM regulated pumps adjust their speed individually when the required vacuum level is reached



Aqua-Stop P/N 569-00500-00

The integrated valve closes automatically by turning off the evaporator. The system saves money by reducing your consumption of cooling tap water. Moreover the safety mechanism avoids flouding in your laboratory. (Only for Hei-VAP Advantage and Hei-VAP Precision)



Spare clamping sleeve P/N 23-30-01-05-31

Spare vapor tube NS 29/32 P/N 514-00000-01

- The direct pump drive (without belt) is exceptionally quiet, creates a very low vibrational environment and reduces the need of wear and tear parts to a minimum
- The gas ballast valve has been optimized to prevent media condensing in the pump



- Speed adjustment stops completely if vacuum is reached and runs intermittently at very low speed to hold vacuum constant
- Increased diaphragm performance life due to periods of nonoperation
- Low energy consumption due to intermittent operation
- Significant noise and vibration reduction due to periods of nonoperation
- Operates without vacuum valve
- Most precise vacuum level at all times

• Valve-Regulated Vacuum Pumps

Standard vacuum pumps can be controlled manually or via valve operated vacuum controllers

• RPM-Regulated Vacuum Pumps

Controllable vacuum pumps for digital regulation of the vacuum via operation panel or directly at the unit (depending on version - see below)

Rotavac Valve Tec	Rotavac Valve Control	Rotavac Vario Tec	Rotavac Vario Con	
		heidolph	heidolph	
Rotavac Valve Tec P/N 591-00160-00 Condenser P/N 591-00083-00	Rotavac Valve Control P/N 591-00130-00 Condenser P/N 591-00083-00	Rotavac Vario Tec P/N 591-00171-00 Condenser P/N 591-00084-00	Rotavac Vario Control P/N 591-00141-00 Condenser P/N 591-00084-00	
For all Hei-VAP models	For all Hei-VAP models	For Hei-VAP Precision	For Hei-VAP Precision	
Two-stage	Two-stage	Two-stage	Three-stage	
0.75	2.0	1.0	1.7	
12	7	12	2	
yes	yes	yes	yes	
80	180	160	160	
6.0	12.8	4-3	5.4	
145 / 315 / 169	195 / 245 / 310	156 / 236 / 196	167 / 236 / 196	
Recommended for solvents with low or medium boiling points	Suction capacity for up to three rotary evaporators at the same time	Recommended for solvents with low or medium boiling points	Even if the gas ballast valve is open an ultimate vacuum is reached when work	
	Vacuum can be controlled manually or via valve operated vacuum controllers		condensable vapors. This makes distillir point solvents such as DMF or DMSO p bath temperatures	
Vacuum can be controlled manually or via valve operated vacuum controllers	Vacuum cumuliers		1	

Diaphragm pump

Suction capacity

Ultimate vacuum

with a condensor

Dimensions L/W/H

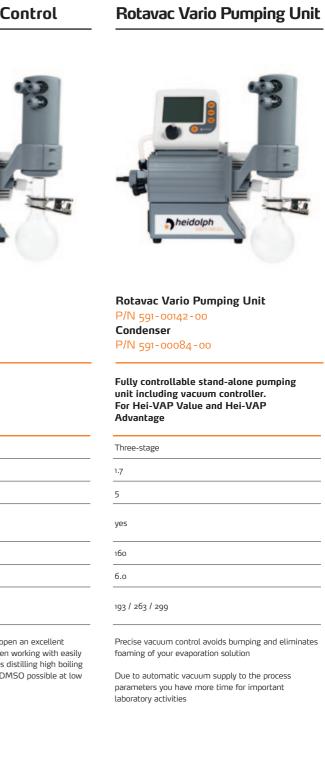
(without condenser)

Specifications per unit

Combinable

Power input

Weight



• Vacuum Accessories

Switchbox

Connect up to three rotary evaporators to one vacuum pump

Manual vacuum controller

For Hei-VAP Value and Hei-VAP Advantage

Manual vacuum controller

other vacuum source

Control your house vacuum or any

Pressure range from o to 1,020 mbar

Scaling on display in steps of 50 mbar

Connection for tubes with 8 mm inner

P/N 591-26000-00

diameter

Support rod included

A vacuum valve is not required

Dimensions: L8o / W8o / H150 mm

Vacuum valve

Required to control vacuum for Hei-VAP Precision models with valve-regulated pumps



Vacuum valve P/N 569 - 00060 - 00

- External attachment design for easy cleaning
 - Can be combined with the Woulff Bottle to one unit
 - Not required if you utilize a Manual vacuum controller

Woulff bottle

P/N 569-00070-00

- Additional recovery of solvent to protect vacuum valve and vacuum pump
- Compatible with all Hei-VAP configurations
- Direct connection to the vacuum valve is possible
- Features connection to vacuum controller
- Volume of 250 ml

O Chillers

RotaChill Large

Highest cooling capacity

Rotacool Mini

Ideal for standard applications



Switchbox P/N 569-00400-00

- Connect up to to three rotary evaporators to one pump and control vacuum individually
- Pump switches off automatically at required vacuum
- Reduces energy consumption of pump
- Increases performance life of the pump due to a complete switch-off if vacuum is reached
- Vacuum valve and non-return valve are required for every evaporator if you work with different pressures at the same time
- Delivery includes three non-return valves
- Designed for Hei-VAP Precision
- Weight: o.6 kg
- Dimensions: L8o / W16o / H45 mm



RotaChill Large

application

+40 °C

of ±0.1 °C

Footprint of chiller:

L607 / W254 / H483 mm

P/N 591-00240-00

Highest cooling capacity for any

Temperature range from -20 °C to

Cooling capacity at +20 °C: 1,290 W

Temperature control accuracy

Rotacool Mini P/N 591-00210-00

- Chiller for all standard applications
- Temperature range from -10 °C to +40 °C
- Temperature control accuracy of ±1 °C
- Digital display for temperature settings
- Digital display for temperature setting and reading out actual temperature Cooling capacity at +20 °C: 580 W
 - Footprint of chiller: L360 / W310 / H520 mm
 - Temperature range Coolant volume Cooling capacity* at:

* at 20 °C ambient temperature

RotaChill Small

The affordable model



- and reading out actual temperature



RotaChill Small

P/N 591-00220-00

- Temperature range from o °C to +100 °C
- Precise temperature control accuracy of ±0.2 °C
- The RotaChill should be placed directly besides the evaporator to ensure a sufficient pump performance
- Footprint of chiller: L450 / W210 / H570 mm

		RotaChill Large	Rotacool Mini	RotaChill Small
	[°C]	-20 to +40	-10 to +40	o to +100
	[L]	2.7	3	6
+20 °C	[W]	1,290	580	200
o °C		750	370	140
-10 °C		-	80	-
-20 °C		260	-	-

Equipment Combinations

With the Hei-VAP series you can easily assemble your individual laboratory equipment exactly to your requirements.

Please refer to the overview by Hei-VAP units for the possible configurations or contact us - we are happy to be at your service and will advise you in detail.

• Example configuration

Vacuum valve

Rotary Evaporator



not required due to rpm regulation

As an aid to decision-making we have created different packages for you, from basic equipment up to automatic destillation with RPM-regulated vacuum pumps - for details see the following pages.

Overview of Hei-VAP unit



condense

condense

5		
		Accessories
	included	Vacuum controller
	not required	Vacuum valve
	optional	Manual vacuum
		controller
	included	Vacuum controller
_	optional	Vapor temperature sensor (all glassware sets)
	not required	(all glassware sets) Vacuum valve
-	optional	Manual vacuum controller Vapor temperature sensor _(all glassware sets)
	included 🔊	Vacuum controller
	required 🕖	Vacuum valve
	optional 🕥	Auto _{accurate} -sensor (glassware G3/G6 only) Vapor temperature sensor (all glassware sets)
	included	Vacuum controller
	not required	Vacuum valve
	optional 🕥	Auto _{accurate} -sensor (glassware G3/G6 only) Vapor temperature sensor (all glassware sets)
-01	_	$\bigcap \bigcirc$

Manual vacuum controller

condense



Vacuum valve with Woulff bottle



AUTO_{accurate} sensor



Vapor temperature senso

Hei-VAP Packages



Hei-VAP Silver 3 Package P/N 560-91309-00

Hei-VAP Silver Packages

Standard equipment for your lab

Hei-VAP Silver 1 Package

P/N 560-91300-00

- Hei-VAP Value with hand lift and vertical glassware set G₃
- Vacuum pump Rotavac Valve Tec
- Manual vacuum controller
- Tube set

Hei-VAP Silver 2 Package

P/N 560-81310-00

- Hei-VAP Value with hand lift and coated vertical glassware set G₃B
- Vacuum pump Rotavac Valve Control
- Manual vacuum controller
- Tube set

Hei-VAP Silver 3 Package

P/N 560-91309-00

- Hei-VAP Value with hand lift and vertical glassware set G₃
- Vacuum pump Rotavac Valve Tec
- Manual vacuum controller
- Chiller RotaChill Small
- Tube set

Hei-VAP Silver 4 Package

P/N 560-91302-00

 Similar to "Hei-VAP Silver 1 Package" but comes with Hei-VAP Value Digital

Hei-VAP Silver 5 Package

P/N 560-81312-00

 Similar to "Hei-VAP Silver 2 Package" but comes with Hei-VAP Value Digital

Hei-VAP Silver 6 Package

P/N 560-91309-20

 Similar to "Hei-VAP Silver 3 Package" but comes with Hei-VAP Value Digital



Hei-VAP Gold 3 Package P/N 562-91307-00

Hei-VAP Gold Packages

For standard distillations with vacuum control

Hei-VAP Gold 1 Package

P/N 561-41300-00

- Hei-VAP Advantage with hand lift and vertical glassware set G₃
- Vapor temperature sensor
- Vacuum pump Rotavac Valve Tec
- Manual vacuum controller
- Tube set

Hei-VAP Gold 2 Package

P/N 562-11310-00

- Hei-VAP Advantage with motor lift and coated vertical glassware set G₃B
- Vapor temperature sensor
- Vacuum pump Rotavac Vario Pumping Unit
- Tube set

Hei-VAP Gold 3 Package

P/N 562-91307-00

- Hei-VAP Advantage with motor lift and vertical glassware set G3
- Vacuum pump Rotavac Valve Tec
- Manual vacuum controller
- Chiller Rotacool Mini
- Tube set



Hei-VAP Platinum 2 Package P/N 563-51310-00

Hei-VAP Platinum Packages

Automatic distillations with Hei-VAP Precision hand lift models and valve-regulated vacuum pumps

Hei-VAP Platinum 1 Package

P/N 563-61300-00

- Hei-VAP Precision with hand lift and vertical glassware set G₃
- Vapor temperature sensor
- Vacuum valve
- Vacuum pump Rotavac Valve Tec with condenser
- Tube set

Hei-VAP Platinum 2 Package

P/N 563-51310-00

- Hei-VAP Precision with hand lift and coated vertical glassware set G₃B
- AUTO_{accurate}-sensor
- Vacuum valve
- Vacuum pump Rotavac Valve Control with condenser
- Tube set

Hei-VAP Safety Upgrade

For highest safety

Hei-VAP Safety Upgrade

P/N 569-00311-00 Additional guard hood and coating of glassware for your Hei-VAP Package





Hei-VAP Platinum 5 Package P/N 564-31318-00

Hei-VAP Platinum Packages

Automatic distillations with Hei-VAP Precision motor lift models and RPM-regulated vacuum pumps

Hei-VAP Platinum 3 Package

P/N 564-21300-00

- Hei-VAP Precision with motor lift and vertical glassware set G₃
- AUTO_{accurate}-sensor
- Vacuum pump Rotavac Vario Tec with condenser
- Woulff bottle
- Tube set

Hei-VAP Platinum 4 Package

P/N 564-31310-00

- Hei-VAP Precision with motor lift and coated vertical glassware set G₃B
- AUTO_{accurate}-sensor
- Vacuum pump Rotavac Vario Control with condenser
- Woulff bottle
- Tube set

Hei-VAP Platinum 5 Package

P/N 564-31318-00

- Hei-VAP Precision with motor lift and coated vertical glassware set G₃B
- AUTO_{accurate}-sensor
- Vacuum pump Rotavac Vario Control with condenser
- Woulff bottle
- Chiller RotaChill Large
- Tube set

Technical Specifications - Rotary Evaporators

Model	Hei-VAP Value (HL) / Value Digital (HL)	Hei-VAP Advantage (HL)	Hei-VAP Advantage (ML)	Hei-VAP Precision (HL)	Hei-VAP Precision (ML)
Hand / Motor lift	hand lift	hand lift	motor lift	hand lift	motor lift
Height adjustment speed	manual	manual	30 mm/s	manual	30 mm/s
Height adjustment (mm)	155	155	155	155	155
Rotation speed (rpm)	10 – 280	10 – 280	10 - 280	10 - 280	10 - 280
Rotation speed setting	scale	3.5" LCD display	3.5" LCD display	4.3" LCD color graphic display	4.3" LCD color graphic display
Drive		brushless	DC motor with electronic sp	eed control	
Heating capacity (W)	1,300	1,300	1,300	1,300	1,300
Temp. range heating bath (°C)	20 - 210	20 - 210	20 - 210	20 - 210	20 - 210
Temperature accuracy bath (°C)	±1	±1	±1	±1	±1
Overheat protection bath (°C)		cut-off at 5 °C	over set temperature via se	eparate Pt 1000	
Bath temperature setting* * * *	scale / digital	3.5" LCD display	3.5" LCD display	4.3" LCD color graphic display	4.3" LCD color graphic display
Heating bath temperature control	electronic / digital	electronic / digital	electronic / digital	electronic / digital	electronic / digital
Secondary overtemp. cut-off (°C)	250	250	250	250	250
Material heating bath	stainless steel AISI 316L	stainless steel AISI 316L	stainless steel AISI 316L	stainless steel AISI 316L	stainless steel AISI 316L
Diameter heating bath (mm)	255	255	255	255	255
Volume heating bath (L)	4.5	4.5	4.5	4.5	4.5
Display vapor temperature	no	yes	yes	yes	yes
required accessories		vapor temperature sensor	vapor temperature sensor	vapor temperature sensor	vapor temperature sensor
Integrated vacuum controller	no	no	no	yes	yes
Timer	no	yes	yes	yes	yes
Vacuum program SET **	no	no	no	yes	yes
Vacuum program AUTO _{easy} **	по	no	no	yes	yes
Vacuum program AUTO accurate ** requires AUTO accurate -sensor	ПО	по	по	yes	yes
Remote control function					
- Lift	по	no	yes	no	yes
- Start rotation	yes	yes	yes	yes	yes
- Start vacuum	no	no	NO	yes	yes
- Start heating bath	yes	yes	yes	yes	yes
Programmable ramps	no	no	no	yes	yes
Supply power (W)	1,400	1,400	1,400	1,400	1,400
Weight (w/o glassware assembly) (kg)	16	16	16	17	17
Dimensions with glassware set G3 (l x w x h) (mm)	739 x 490 x 887	739 x 490 x 887	739 x 420 x 887	739 x 490 x 887	739 x 420 x 887
Protection class*** (DIN EN 60529)	IP 20	IP 20	IP 20	IP 20	IP 20
Operating conditions (°C)	o - 4o at 8o %	o - 4o at 8o %	o - 4o at 8o %	o - 4o at 8o %	o - 4o at 8o %
	rel. humidity	rel. humidity	rel. humidity	rel. humidity	rel. humidity
Condensing surface (cm ²)	1,400	1,400	1,400	1,400	1,400
Condensing surface XL Condenser (cm ²)	2,200	2,200	2,200	2,200	2,200

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To confirm the ability for continuous operation

Hei-VAP series Rotary Evaporators feature 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 2016

Stefan Peters Research and Development Manager

Rate of evaporation (L/h) Toluene Acetone Ethanol Isopropanol (IPA) Water G₃ Vertical 6.5 б.о 2.5 4.0 1.4 G₃ XL Vertical 8.5 7.5 3.5 4.9 1.4 Improvement with XL condenser (%) 31 40 system limit reached 25 23 with 1.4 L/h

 ΔT of 40 °C between heating bath temperature and boiling temperature ** Only in combination with vacuum systems

*** IP 67 cable connection on heating bath **** Hei-VAP Value Digital: digital display

Standard supply voltage: 230 V - other voltages upon request, please specify for order



ficate

- of the Hei-VAP series Rotary Evaporators

Marcell Sarré Quality Manager





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