

Further Accessories



Guard hood

Consists of resistant, highly transparent plastic, for protection against implosions, easy and fast access to the flask and the heating bath, up to max. 130° C

P/N 569-00010-00



Guard shield

Consists of resistant, highly transparent plastic, is fixed onto the edge of the heating bath

P/N 569-00020-00



Aqua-Stop

Closes the water supply automatically, as soon as the rotary evaporator is switched off. Prevents unnecessary water consumption and water damage, and lowers costs

P/N 569-00500-00



Replenishment valve

Polished, for precise dosing while the process is running, with venting function

P/N 514-51100-00



Extension cable

Required for operation outside closed fume hoods, length 1.5 m

P/N 14-300-020-12



Panel bracket

For positioning next to the device or on the wall – for all Hei-VAP operating panels

P/N 569-01000-00



Spare vapor tube

Standard joint size is NS 29/32, NS 24/29 ground joints are also available on request

P/N 514-00000-01

Vapor tube with powder filter

P/N 514-00000-06

Spare clamping sleeve

P/N 23-30-01-05-31



Tubing set

Tube for connection to vacuum and water. Set with 12 m tube and tube clamps

P/N 591-35000-00

Individual length, sold by the meter

P/N 591-33000-01



PTFE/FFKM vacuum seal

Special PTFE seal with FFKM ring seal, maximum chemical resistance, long running period without abrasion, maximum tightness, FDA compliant

P/N 23-30-01-06-70

Standard PTFE/FFKM spare seal

P/N 23-30-01-01-30



Woulff bottle

For separating condensate to protect the vacuum valves, for use with standard vacuum laboratory bottles. Screw connection for easy draining and cleaning, compatible with all Hei-VAP Benchtop configurations, volume 200 ml

P/N 569-00071-00



Vacuum valve

Required for vacuum regulation for Hei-VAP Control models with valve-controlled vacuum pump, easily accessible and easy to clean due to positioning. Is not required for manual vacuum regulation

P/N 569-00065-00



Switchbox

Connects three evaporators to a vacuum pump
Switches the vacuum pump off automatically, if a vacuum is not required or on reaching the set vacuum. This avoids increased energy consumption. In applications with different pressure settings, a vacuum and a non-return valve are necessary for each evaporator. Scope of delivery with three non-return valves.

Only suitable for use with Hei-VAP Control models

Weight 0.6 kg,
W/D/H 80×160×45 mm

P/N 569-00400-00



Heating bath liquid

Heating bath liquid up to 170 °C (5 l)

P/N 515-31000-0

Up to 220 °C (5 l)

P/N 569-00600-0



AUTO_{accurate} sensor

For Hei-VAP Expert Control and Hei-VAP Ultimate Control. Only compatible in combination with glassware G3, G3 XL or G6

P/N 569-00040-00



Vapor temperature sensor

For Hei-VAP Expert and Hei-VAP Ultimate as well as the Control models

P/N 569-00030-00

UPGRADE



Control-Box

For Hei-VAP Expert and Hei-VAP Ultimate for easy retrofitting of the control function and control of the peripheral devices (vacuum and Hei-CHILL recirculation chillers)

P/N 569-00200-00

Vacuum Controller

Manual Vacuum Controller

The cost-effective variant for vacuum regulation

- For control of existing diaphragm vacuum pumps or in-house vacuum
- Scale 0 to 1,000 mbar, divided into 50mbar steps
- The connection is designed for tubes with 8mm inside diameter
- Mounting on the evaporator itself is possible, a universal stand is included in the scope of delivery
- No vacuum valve required
- W/D/H 80×80×150 mm

P/N 591-26000-00



Hei-VAC Vacuum Pumps

Diaphragm vacuum pumps

- All parts in contact with the media have excellent chemical resistance thanks to the use of fluoropolymers throughout, from the vacuum to the discharge side
- The proven PTFE sandwich design leads to an above-average diaphragm life
- The head cover and spring washer have an additional stable core made of metal; this ensures excellent long-term stability
- The belt-free direct drive is free from wear parts and runs extremely quietly and with low-vibration
- The physically optimized gas ballast valve prevents condensation from forming in the pumps

The Buyer's Guide helps to identify the right vacuum source for the required application.

For more info visit www.heidolph.com/knowledgeblog



Hei-VAC Control

For precise vacuum regulation of the in-house vacuum or valve-controlled diaphragm vacuum pumps

- Affordable option for digital vacuum control
- Easy installation on the stay bar of the chiller or as a "standalone" device next to the evaporator
- Venting button to prevent foaming
- Graphic display of the vacuum process
- RS 232 interface
- Multi-lingual menu navigation
- Compatible with all Hei-VAP rotary evaporators, which do not have integrated vacuum control
- Complete with integrated ceramic diaphragm vacuum sensor, control and venting valve (control valve included in the scope of delivery), ready for use, with wall-plug power supply and manual

P/N 591-00360-00



Fully-automatic regulation with speed control



Speed-controlled vacuum pumps

- Maximum distillation rates while reducing the process times by 30 %
- Solvent recovery up to 99 %
- As soon as the required set vacuum is reached, the pump stops automatically and keeps the vacuum reliably constant
- The minimal running achieves significant energy savings and increases the life of the diaphragm decisively
- These pumps ensure low-noise and low-vibration running
- Speed-controlled pumps achieve a vacuum with maximum possible precision

Diaphragm Vacuum Pumps



Hei-VAC Valve Tec For all Hei-VAP models

- Recommended for solvents within the low to medium boiling temperature range
- The vacuum regulation can be valve controlled or take place via the manual vacuum controller
- A vacuum valve is necessary if the vacuum pump is to be combined with the Hei-VAP Expert Control/Hei-VAP Ultimate Control

P/N 591-00160-00

Rotavac Valve Control For all Hei-VAP models

- Sufficient intake capacity for three rotary evaporators simultaneously
- The vacuum regulation can be valve controlled or take place via the manual vacuum controller
- The vacuum pump can be switched on and off via the switchbox in line with needs
- A vacuum valve is necessary if the vacuum pump is to be combined with the Hei-VAP Expert Control/Hei-VAP Ultimate Control

P/N 591-00130-00

Condenser

P/N 591-00083-00

	Hei-VAC Valve Tec	Rotavac Valve Control
Diaphragm vacuum pump	Two-stage	Two-stage
Intake capacity	0.75 m ³ /h	2.0 m ³ /h
Minimum end pressure	12 mbar	7 mbar
Combinable with condenser	yes	yes
Power input	80 W	180 W
Weight	6.0 kg	12.8 kg
Dimensions without condenser	w/d/h 145×315×185 mm	195×245×310 mm

Speed-controlled Vacuum Pumps



Hei-VAC Vario Tec For Hei-VAP Expert Control/ Ultimate Control models (direct adjustment via rotary evaporator)

- Recommended for solvents within the low to medium boiling temperature range

P/N 591-00171-00

Hei-VAC Vario Control For Hei-VAP Expert Control/ Ultimate Control models (direct adjustment via rotary evaporator)

- Even if the gas ballast valve is open, a very good end vacuum is achieved when working with readily condensable vapors
- This enables the evaporation of high-boiling substances such as DMF or DMSO at low temperatures

P/N 591-00141-00

Hei-VAC Vario Station Suitable for Hei-VAP Core models

- Independently controllable pump stand, consisting of vacuum pump and vacuum controller
- The pinpoint vacuum regulation prevents boiling delays and avoids sample loss
- Due to the automatic adjustment of the vacuum to the process parameters, time is gained for more important tasks

P/N 591-00142-00

Condenser

P/N 591-00084-00

	Hei-VAC Vario Tec	Hei-VAC Vario Control	Hei-VAC Vario Station
Diaphragm vacuum pump	Two-stage	Three-stage	Three-stage
Intake capacity	1.0 m ³ /h	1.7 m ³ /h	1.7 m ³ /h
Minimum end pressure	12 mbar	2 mbar	5 mbar
Combinable with condenser	yes	yes	yes
Power input	160 W	160 W	160 W
Weight	4.3 kg	5.4 kg	6.0 kg
Dimensions without condenser	156×236×196 mm	167×236×196 mm	193×299×299 mm

Hei-CHILL Recirculation Chillers

The recirculation chillers of the Hei-CHILL series are especially designed for reliable, continuous operation in the laboratory and production with cooling capacities from 250 to 1,200 W. Sealing problems are prevented by the magnetic coupling of pump and electric motor.

Easy to use

- Clear control elements, large LED display and membrane keyboard as well as sight glass for checking the level of the coolant
- With a large refrigerant reservoir to compensate for performance peaks during the evaporation process



The Buyer's Guide helps to find the right cooling method for every need.
For more info visit www.heidolph.com/knowledgeblog

Hei-CHILL 250

Compact design for positioning on the laboratory bench, cooling capacity 250 W

P/N 591-01600-00

Hei-CHILL 350

Compact design for positioning on the laboratory bench, cooling capacity 350 W

P/N 591-01610-00

Hei-CHILL 600

With casters for placing the chiller under the laboratory bench, cooling capacity 600 W

P/N 591-01620-00

Hei-CHILL 1200

With casters for placing the chiller under the laboratory bench, cooling capacity 1,200 W

P/N 591-01630-00



Accessories

Kryo 30 liquid

Non-flammable coolant for Hei-CHILL recirculation chiller, 10 l

P/N 569-00611-00

20 l

P/N 569-00610-00



RS 232 cable

For connecting a Hei-CHILL with a Hei-VAP Expert Control / Ultimate Control

P/N 14-007-040-72



Enforced cooling tube

For cooling, inside Ø 9 mm, sold by the meter, for temperatures from -20 to +60 °C

P/N 591-38000-00

Technical Specifications

Recirculation chiller

Model	Hei-CHILL 250	Hei-CHILL 350	Hei-CHILL 600	Hei-CHILL 1200
Weight	28 kg	36 kg	52 kg	64 kg
Display	7-segment, LED	7-segment, LED	7-segment, LED	7-segment, LED
Temperature range	-10 – +40 °C			
Coolant filling volume	2– 4 l	4– 7 l	4– 8 l	7– 14 l
Cooling capacity at +20 °C (20 °C ambient temperature)	250 W	350 W	600 W	1,200 W
Cooling capacity at 0 °C (20 °C ambient temperature)	150 W	200 W	360 W	750 W
Cooling capacity at -10 °C (20 °C ambient temperature)	90 W	120 W	150 W	400 W
Temperature constancy	±0.5 K	±0.5 K	±0.5 K	±0.5 K
Digital interface	RS 232	RS 232	RS 232	RS 232
Noise level	< 70 dB(A)	< 70 dB(A)	< 70 dB(A)	< 70 dB(A)
Reliable ambient temperature range storage	5–40 °C	5–40 °C	5–40 °C	5–40 °C
Max. delivery pressure	0.35 bar	0.35 bar	1.3 bar	1.3 bar
Max. flow rate	9 L/min	9 L/min	20 l / min	20 l / min
Overvoltage category	II	II	II	II
Alarm output connection	max. 30 V DC, 0.2 A			
Degree of pollution	2	2	2	2
Distance from surroundings (front and back)	40 cm	40 cm	40 cm	40 cm
Classification to DIN 12876-1	I/NFL	I/NFL	I/NFL	I/NFL
Refrigerant	R-134a	R-134a	R-134a	R-134a
GWP (100a) to IPCC IV	1430	1430	1430	1430
Transport temperature range	-20 – +60 °C			
Cooling	Air cooled device	Air cooled device	Air cooled device	Air cooled device
Standard supply voltage	230 V (50 Hz) or 115 V (60 Hz)	230 V (50 Hz) or 115 V (60 Hz)	230 V (50 Hz) or 115 V (60 Hz)	230 V (50 Hz) or 115 V (60 Hz)
Rated power input (230 V/115 V)	230 W/230 W	500 W/ 500 W	700 W/750 W	1,100 W/1,150 W
Cooling capacity	250 W	350 W	600 W	1,200 W
Dimensions w/d/h	200×350×465 mm	240×400×500 mm	350×480×595 mm	450×550×650 mm
Admissible permissible ambient conditions	5–31 °C at 80% rel. humidity, 32–40 °C decreasing linearly to max. 50% rel. humidity	5–31 °C at 80% rel. humidity, 32–40 °C decreasing linearly to max. 50% rel. humidity	5–31 °C at 80% rel. humidity, 32–40 °C decreasing linearly to max. 50% rel. humidity	5–31 °C at 80% rel. humidity, 32–40 °C decreasing linearly to max. 50% rel. humidity
Degree of protection EN 60529	IP 32	IP 32	IP 32	IP 32