## Hei-VAP Ultimate Control - motor lift model with coated G3 XL vertical glassware

P/N: 576-02315-00



Adds numerous smart features to the Hei-VAP Ultimate, as well as an overview of all parameters and the current process

- 7" touch display for controlling the entire system including the vacuum and the cooling temperature
- Motor lift model with transparent plastic coated G3 XL vertical glassware achieve higher evaporation rates due to expanded cooling surface of 2,200 cm<sup>2</sup>
- For precise monitoring, the pictogram on the display also symbolizes active functions
- Separate knobs for quick access: the right one for direct vacuum control, the left one for the rotation
- Setting of values either via the touch display or the separate guick access knobs
- Direct access to two favorites on the start screen
- Expandable solvent library. You can also transfer your own favorites to other devices using a USB stick
- Define and save own evaporation processes (ramps)
- Automatically evaporate with the Dynamic AUTOaccurate Program (DAA). Convenient and customizable: from foam avoidance to highly efficient evaporation

## Premium Laboratory Equipment

• USB and Micro SD plus LAN / RS 232 interfaces (Lab 4.0 ready)

## Hei-VAP Ultimate Control - Technical Data

Permissible ambient conditions  5 - 31 °C at 80 % rel. humidity 32 - 40 °C decreasing lineary up to max 50% rel. humidity  Protection class DIN EN 60529  IP 20  Lift  Motor lift  Height adjustment speed  25 mm/s  Height adjustment  Drive  brushless DC motor with electronic speed control  Heating capacity  1,300 W  Temp. range heating bath  20 - 210 °C  Temperature accuracy bath  ±1K  Overheat protection bath  cut-off at 5 °C over set temperature via separate PT 1000  Bath temperature setting  7" LCD color graphic display  Heating bath temperature control  electronic / digital  Secondary overtemp. cut off  250 °C  Material heating bath  255 mm  Volume heating bath  4.5 I  Display vapor temperature  Yes  Required accessories for display vapor temperature sensor  temperature  Integrated vacuum controller  Yes  Programmable ramps  Yes  Supply Power  1,400 W  Weight without glassware assembly  15 kg	Rotation speed indicator	7" LCD color graphic display
Lift Motor lift  Height adjustment speed 25 mm/s  Height adjustment 155 mm  Drive brushless DC motor with electronic speed control  Heating capacity 1,300 W  Temp. range heating bath 20 – 210 °C  Temperature accuracy bath ±1K  Overheat protection bath cut-off at 5 °C over set temperature via separate PT 1000  Bath temperature setting 7° LCD color graphic display  Heating bath temperature control electronic / digital  Secondary overtemp. cut off 250 °C  Material heating bath stainless steel AISI 316L  Diameter heating bath 2.55 mm  Volume heating bath 4.5 I  Display vapor temperature Yes  Required accessories for display vapor temperature  Integrated vacuum controller Yes  Timer Yes  Programmable ramps Yes  Supply Power 1,400 W	Permissible ambient conditions	32 – 40 °C decreasing lineary up to max 50%
Height adjustment speed  Height adjustment  Drive  brushless DC motor with electronic speed control  Heating capacity  1,300 W  Temp. range heating bath  20 - 210 °C  Temperature accuracy bath  ±1K  Overheat protection bath  cut-off at 5 °C over set temperature via separate PT 1000  Bath temperature setting  7" LCD color graphic display  Heating bath temperature control  electronic / digital  Secondary overtemp. cut off  250 °C  Material heating bath  biameter heating bath  255 mm  Volume heating bath  4.51  Display vapor temperature  Required accessories for display vapor temperature  Integrated vacuum controller  Yes  Programmable ramps  Yes  Supply Power  1,400 W	Protection class DIN EN 60529	IP 20
Height adjustment  Drive  brushless DC motor with electronic speed control  Heating capacity  1,300 W  Temp. range heating bath  20 - 210 °C  Temperature accuracy bath  £1K  Overheat protection bath  cut-off at 5 °C over set temperature via separate PT 1000  Bath temperature setting  7" LCD color graphic display  Heating bath temperature control  electronic / digital  Secondary overtemp. cut off  250 °C  Material heating bath  stainless steel AISI 316L  Diameter heating bath  Volume heating bath  4.51  Display vapor temperature  Required accessories for display vapor temperature  Integrated vacuum controller  Yes  Programmable ramps  Yes  Supply Power  1,400 W	Lift	Motor lift
Drive brushless DC motor with electronic speed control  Heating capacity 1,300 W  Temp. range heating bath 20 – 210 °C  Temperature accuracy bath ±1K  Overheat protection bath cut-off at 5 °C over set temperature via separate PT 1000  Bath temperature setting 7" LCD color graphic display  Heating bath temperature control electronic / digital  Secondary overtemp. cut off 250 °C  Material heating bath stainless steel AISI 316L  Diameter heating bath 255 mm  Volume heating bath 4.5 I  Display vapor temperature Yes  Required accessories for display vapor temperature sensor  Integrated vacuum controller Yes  Programmable ramps Yes  Supply Power 1,400 W	Height adjustment speed	25 mm/s
Heating capacity  Temp. range heating bath  20 – 210 °C  Temperature accuracy bath  £1K  Overheat protection bath  cut-off at 5 °C over set temperature via separate PT 1000  Bath temperature setting  7" LCD color graphic display  Heating bath temperature control  electronic / digital  Secondary overtemp. cut off  250 °C  Material heating bath  biameter heating bath  255 mm  Volume heating bath  4.5 I  Display vapor temperature  Yes  Required accessories for display vapor temperature  Integrated vacuum controller  Yes  Programmable ramps  Yes  Supply Power  1,400 W	Height adjustment	155 mm
Temp. range heating bath 20 – 210 °C  Temperature accuracy bath ±1K  Overheat protection bath cut-off at 5 °C over set temperature via separate PT 1000  Bath temperature setting 7" LCD color graphic display  Heating bath temperature control electronic / digital  Secondary overtemp. cut off 250 °C  Material heating bath stainless steel AISI 316L  Diameter heating bath 255 mm  Volume heating bath 4.5 I  Display vapor temperature Yes  Required accessories for display vapor temperature lntegrated vacuum controller Yes  Timer Yes  Programmable ramps Yes  Supply Power 1,400 W	Drive	·
Temperature accuracy bath ±1K  Overheat protection bath cut-off at 5 °C over set temperature via separate PT 1000  Bath temperature setting 7° LCD color graphic display  Heating bath temperature control electronic / digital  Secondary overtemp. cut off 250 °C  Material heating bath stainless steel AISI 316L  Diameter heating bath 255 mm  Volume heating bath 4.5 I  Display vapor temperature Yes  Required accessories for display vapor temperature lntegrated vacuum controller Yes  Timer Yes  Programmable ramps Yes  Supply Power 1,400 W	Heating capacity	1,300 W
Overheat protection bath cut-off at 5 °C over set temperature via separate PT 1000  Bath temperature setting 7" LCD color graphic display  Heating bath temperature control electronic / digital  Secondary overtemp. cut off 250 °C  Material heating bath stainless steel AISI 316L  Diameter heating bath 255 mm  Volume heating bath 4.5 I  Display vapor temperature Yes  Required accessories for display vapor temperature sensor  Integrated vacuum controller Yes  Timer Yes  Programmable ramps Yes  Supply Power 1,400 W	Temp. range heating bath	20 - 210 °C
Separate PT 1000  Bath temperature setting 7" LCD color graphic display  Heating bath temperature control electronic / digital  Secondary overtemp. cut off 250 °C  Material heating bath stainless steel AISI 316L  Diameter heating bath 255 mm  Volume heating bath 4.5 I  Display vapor temperature Yes  Required accessories for display vapor temperature sensor  Integrated vacuum controller Yes  Timer Yes  Programmable ramps Yes  Supply Power 1,400 W	Temperature accuracy bath	±1K
Heating bath temperature control electronic / digital  Secondary overtemp. cut off 250 °C  Material heating bath stainless steel AISI 316L  Diameter heating bath 255 mm  Volume heating bath 4.5 I  Display vapor temperature Yes  Required accessories for display vapor temperature sensor temperature  Integrated vacuum controller Yes  Timer Yes  Programmable ramps Yes  Supply Power 1,400 W	Overheat protection bath	
Secondary overtemp. cut off  250 °C  Material heating bath  Diameter heating bath  Volume heating bath  4.5 I  Display vapor temperature  Required accessories for display vapor temperature  Integrated vacuum controller  Yes  Programmable ramps  Yes  Supply Power  1,400 W	Bath temperature setting	7" LCD color graphic display
Material heating bath  Diameter heating bath  Volume heating bath  Display vapor temperature  Required accessories for display vapor temperature  Integrated vacuum controller  Yes  Programmable ramps  Yes  Supply Power  Stainless steel AISI 316L  255 mm  Vapor temperature  Ves  Vapor temperature sensor  Vapor temperature sensor  Yes  Timer  Yes  Programmable ramps  Yes  Supply Power  1,400 W	Heating bath temperature control	electronic / digital
Diameter heating bath  Volume heating bath  4.5 I  Display vapor temperature  Required accessories for display vapor temperature  Integrated vacuum controller  Yes  Timer  Yes  Programmable ramps  Yes  Supply Power  255 mm  4.5 I  Vapor temperature sensor  Vapor temperature sensor  Yes  1,400 W	Secondary overtemp. cut off	250 °C
Volume heating bath  Display vapor temperature  Required accessories for display vapor temperature sensor  Integrated vacuum controller  Yes  Timer  Yes  Programmable ramps  Yes  Supply Power  4.5 I  Yes  Vapor temperature sensor  Vapor temperature sensor  Yes  1,400 W	Material heating bath	stainless steel AISI 316L
Display vapor temperature  Required accessories for display vapor temperature sensor  Integrated vacuum controller  Yes  Timer  Yes  Programmable ramps  Yes  1,400 W	Diameter heating bath	255 mm
Required accessories for display vapor temperature sensor  Integrated vacuum controller  Yes  Timer  Yes  Programmable ramps  Yes  Supply Power  1,400 W	Volume heating bath	4.5
Integrated vacuum controller  Yes  Timer  Yes  Programmable ramps  Yes  Supply Power  1,400 W	Display vapor temperature	Yes
Timer Yes  Programmable ramps Yes  Supply Power 1,400 W		Vapor temperature sensor
Programmable ramps Yes Supply Power 1,400 W	Integrated vacuum controller	Yes
Supply Power 1,400 W	Timer	Yes
	Programmable ramps	Yes
Weight without glassware assembly 15 kg	Supply Power	1,400 W
	Weight without glassware assembly	15 kg

## Premium Laboratory Equipment

Dimensions with glassware set G3 (w/d/h)	739 x 477 x 887 mm
Dimensions with glassware set G3 XL (w/d/h)	max. 739 x 407 x 920 mm
Condensing surface	1,400 cm <sup>2</sup>
Condensing surface XL condenser	2,200 cm²
Max. size evaporating flask	51
Rotation speed range	10 - 280 rpm
Integrated Hei-CHILL controller	Yes
Vacuum program Dynamic AUTOaccurate requires AUTOaccurate sensor	Yes
Solvent libary	Yes