## Hei-VAP Ultimate - hand lift model with G3 vertical glassware P/N: 036041041



Precise setting of rotation speed and heating bath temperature on the digital touch display or – for quick access during an active process – directly via the knobs on the operating panel.

- Central operating panel with 7" touch display
- Hand lift model with G3 vertical glassware
- Clear display of all values (Basic and Advanced modes)
- With timer, limitation of max. temperature, multilingual menu and text display for error messages
- Separate knobs for rotation and heating with locking function to prevent accidental readjusting
- LED ring lights and pictogram to display the activity even from a distance
- Integrated solvent library to facilitate adjustment of the required vacuum on an external vacuum controller
- USB and Micro SD plus LAN / RS 232 interfaces (Lab 4.0 ready)
- Optional display of vapor temperature
- Subsequent upgrade to Hei-VAP Ultimate Control possible, including vacuum and chiller control

## Hei-VAP Ultimate - 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  Hand lift  Height adjustment speed  Manual  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  21K  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  4.51  Display vapor temperature  Yes  Required accessories for display vapor temperature sensor temperature  Integrated vacuum controller  -  Timer  Yes  Supply Power  1,400 W  Weight without glassware assembly  15 kg	Rotation speed indicator	7" LCD color graphic display
Lift Hand lift Height adjustment speed manual 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 V4A  Diameter heating bath 255 mm  Volume heating bath 4.5 I  Display vapor temperature  Required accessories for display vapor temperature Integrated vacuum controller  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  Volume heating bath  4.51  Display vapor temperature  Required accessories for display vapor temperature  Integrated vacuum controller  Timer  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  \$\pmathrm{\frac{\pmathrm{\	Lift	Hand 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 V4A  Diameter heating bath 255 mm  Volume heating bath 4.5 I  Display vapor temperature Yes  Required accessories for display vapor temperature integrated vacuum controller  Timer Yes  Programmable ramps Yes  Supply Power 1,400 W	Height adjustment speed	manual
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  Timer  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 V4A  Diameter heating bath 255 mm  Volume heating bath 4.5 I  Display vapor temperature Yes  Required accessories for display vapor temperature lntegrated vacuum controller -  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 V4A  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 -  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 V4A  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 -  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 V4A  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 -  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 V4A  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 -  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  Timer  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  Timer  Programmable ramps  Yes  Supply Power  Stainless steel V4A  255 mm  Vapor temperature  Vapor temperature sensor  Vapor temperature sensor  Yes  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  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  Timer  Yes  Programmable ramps  Yes  Supply Power  4.5    Yes  Vapor temperature sensor  Yes  -  Timer  Yes  1,400 W	Material heating bath	stainless steel V4A
Display vapor temperature  Required accessories for display vapor temperature  Integrated vacuum controller  Timer  Yes  Programmable ramps  Yes  Supply Power  Yes  Yapor temperature sensor  1,400 W	Diameter heating bath	255 mm
Required accessories for display vapor temperature sensor  Integrated vacuum controller  Timer  Yes  Programmable ramps  Yes  Supply Power  1,400 W	Volume heating bath	4.5
Integrated vacuum controller  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	-
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 532 x 887 mm
Dimensions with glassware set G3 XL (w/d/h)	739 x 532 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	-
Vacuum program Dynamic AUTOaccurate requires AUTOaccurate sensor	_
Solvent libary	Yes