## Hei-VAP Industrial with glassware A

P/N: 518-13100-00



- Picture similar
- Excellent user safety with high-impact transparent PMMA door
- Non-fogging safety glass and metal frame guard hood provides excellent user protection
- The evaporation flask is illuminated during operation for increased visibility
- Universal heating bath accommodates water or other bath fluids allowing for temperature settings up to 180 °C
- Receiver cassettes and additional PMMA door housing protect against threat of glassware breakage
- Comes as standard with integrated refill water system, spillover prevention and a release valve at the bottom
- Optional Base Cart is fully-maneuverable with removable panels for storage of vacuum pump, glassware, solvents or accessories
- Certification according to GMP available for this model: validation for installation (IQ) and operating qualification (OQ)
- Large touch screen control panel with illuminated displays for all process parameters, programmable ramps

## Premium Laboratory Equipment

Hei-VAP Industrial model with glassware A - For that tend to splash and foam

This glassware assembly includes one descending condenser, one expansion vessel, one 20-l evaporating flask, one 10-l receiving flask

## Hei-VAP Industrial - Technical Data

rel. humidity  Protection class (EN 60529)  Lift motor lift  Height adjustment speed 45 mm/s  Height adjustment MMM mm  Drive EC-motor  Heating capacity MMMM W  Temp. range heating bath 20 – 180 °C  Bath temperature setting digital  Material heating bath stainless steel V4A  Diameter heating bath MMM mm  Volume heating bath 18 I (H2O) / 14 I (oil)  Display vapor temperature yes  Required accessories for display vapor temperature lintegrated vacuum controller yes  Timer yes  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps yes  Supply Power MMMM W  Weight without glassware assembly approx. 120 kg  Display 7"Touchpanel	Rotation speed indicator	digital
Lift motor lift  Height adjustment speed 45 mm/s  Height adjustment 0000 mm  Drive EC-motor  Heating capacity 0000 mm  Temp. range heating bath 20 - 180 °C  Bath temperature setting digital  Material heating bath stainless steel V4A  Diameter heating bath 181 (H2O) / 141 (oil)  Display vapor temperature yes  Required accessories for display vapor temperature lintegrated vacuum controller yes  Timer yes  Vacuum program SET pressure yes  Vacuum program AUTO accurate requires AUTO accurate sensor  Programmable ramps yes  Supply Power 0000 mm MMM W  Weight without glassware assembly approx. 120 kg  Display 7" Touchpanel	Permissible ambient conditions	32 – 40 °C decreasing lineary up to max 50%
Height adjustment Speed 45 mm/s  Height adjustment BER mm  Drive EC-motor  Heating capacity BER W  Temp. range heating bath 20 – 180 °C  Bath temperature setting digital  Material heating bath Stainless steel V4A  Diameter heating bath BER mm  Volume heating bath 18 I (H2O) / 14 I (oil)  Display vapor temperature yes  Required accessories for display vapor temperature lintegrated vacuum controller yes  Timer yes  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps yes  Supply Power MMNNN W  Weight without glassware assembly approx. 120 kg  Display 7" Touchpanel	Protection class (EN 60529)	IP 20
Height adjustment  Drive  EC-motor  Heating capacity  Temp. range heating bath  20 – 180 °C  Bath temperature setting  Material heating bath  Diameter heating bath  Volume heating bath  Volume heating bath  Tal (H20) / 14 I (oil)  Display vapor temperature  Required accessories for display vapor temperature  Integrated vacuum controller  yes  Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  Supply Power  MININIM W  Weight without glassware assembly  Display 7" Touchpanel	Lift	motor lift
Drive EC-motor  Heating capacity 88888 W  Temp. range heating bath 20 – 180 °C  Bath temperature setting digital  Material heating bath stainless steel V4A  Diameter heating bath 181 (H2O) / 141 (oil)  Display vapor temperature yes  Required accessories for display vapor temperature lntegrated vacuum controller yes  Timer yes  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps yes  Supply Power 88888 approx. 120 kg  Display 7" Touchpanel	Height adjustment speed	45 mm/s
Heating capacity  Temp. range heating bath  20 - 180 °C  Bath temperature setting  Material heating bath  Diameter heating bath  Volume heating bath  Display vapor temperature  Required accessories for display vapor temperature  Integrated vacuum controller  yes  Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  Supply Power  Weight without glassware assembly  Display °C  MMMM W  Material No °C  digital  AUTO (14)  Stainless steel V4A  Display vapor  temperature sensor  temperature sensor  yes  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  yes  Supply Power  Material No °C  Material No °	Height adjustment	
Temp. range heating bath 20 – 180 °C  Bath temperature setting digital  Material heating bath stainless steel V4A  Diameter heating bath 18 I (H2O) / 14 I (oil)  Display vapor temperature yes  Required accessories for display vapor temperature sensor temperature  Integrated vacuum controller yes  Vacuum program SETpressure yes  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps yes  Supply Power MMMM W  Weight without glassware assembly approx. 120 kg  Display 7" Touchpanel	Drive	EC-motor
Bath temperature setting  Material heating bath  Diameter heating bath  Volume heating bath  Volume heating bath  Display vapor temperature  Required accessories for display vapor temperature  Integrated vacuum controller  Timer  Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  Supply Power  Weight without glassware assembly  Display  Might mithout glassware assembly  digital  ptal  stainless steel V4A  Display  temperature sensor  temperature sensor  temperature sensor  yes  Vacuum program AUTOaccurate requires yes  AUTOaccurate sensor  Programmable ramps  yes  Supply Power  Might without glassware assembly  Display  7" Touchpanel	Heating capacity	
Material heating bath  Diameter heating bath  Volume heating bath  Display vapor temperature  Required accessories for display vapor temperature  Integrated vacuum controller  Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  Supply Power  Weight without glassware assembly  Display  MMMMM  Stainless steel V4A  DIN MMMMM  Weight without glassware assembly  Summm  Stainless steel V4A  DIS MMMMMM  Weight without glassware assembly  Summm  Stainless steel V4A  DIS MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	Temp. range heating bath	20 - 180 °C
Diameter heating bath  Volume heating bath  18 I (H2O) / 14 I (oil)  Display vapor temperature  Required accessories for display vapor temperature sensor  Integrated vacuum controller  yes  Timer  yes  Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  yes  Supply Power  Weight without glassware assembly  Display  TIME  Display  Disp	Bath temperature setting	digital
Volume heating bath  Display vapor temperature  Required accessories for display vapor temperature sensor temperature  Integrated vacuum controller  Timer  Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  Supply Power  Weight without glassware assembly  Display  18 I (H2O) / 14 I (oil)  yes  temperature sensor  yes  Vemperature sensor  yes  Vacuum program AUTOaccurate requires yes  AUTOaccurate sensor  Programmable ramps  yes  Supply Power  MANNA W  Weight without glassware assembly  Display  7" Touchpanel	Material heating bath	stainless steel V4A
Display vapor temperature yes  Required accessories for display vapor temperature temperature  Integrated vacuum controller yes  Timer yes  Vacuum program SETpressure yes  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps yes  Supply Power MMMM W  Weight without glassware assembly approx. 120 kg  Display 7" Touchpanel	Diameter heating bath	
Required accessories for display vapor temperature  Integrated vacuum controller  Timer  Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  Supply Power  Weight without glassware assembly  Display  temperature sensor  yes  temperature sensor  yes  Vacuum program AUTOaccurate requires yes  AUTOaccurate sensor  Programmable ramps yes  Supply Power  MMMMM W  Touchpanel	Volume heating bath	18 I (H2O) / 14 I (oil)
Integrated vacuum controller  Timer  yes  Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  Supply Power  Weight without glassware assembly  Display  yes  Vacuum program AUTOaccurate requires yes  WMMMM W  yes  Timer  yes  Vacuum program AUTOaccurate requires yes  AUTOaccurate sensor  Programmable ramps yes  Supply Power  MMMMM W  Timer  yes  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps yes  Supply Power  Timer  yes  Timer  yes  Timer  Yes  Touchpanel	Display vapor temperature	yes
Timer yes  Vacuum program SETpressure yes  Vacuum program AUTOaccurate requires yes  AUTOaccurate sensor  Programmable ramps yes  Supply Power MMMM W  Weight without glassware assembly approx. 120 kg  Display 7" Touchpanel		temperature sensor
Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  Supply Power  Supply Power  Weight without glassware assembly  Display  yes  MMMMMW  yes  Touchpanel	Integrated vacuum controller	yes
Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  Supply Power  Weight without glassware assembly  Display  yes  MMMM W  approx. 120 kg  7" Touchpanel	Timer	yes
AUTOaccurate sensor  Programmable ramps  Supply Power  Weight without glassware assembly  Display  AUTOaccurate sensor  yes  MMMMW  approx. 120 kg  7" Touchpanel	Vacuum program SETpressure	yes
Supply Power  Weight without glassware assembly  Display  7" Touchpanel		yes
Weight without glassware assembly approx. 120 kg  Display 7" Touchpanel	Programmable ramps	yes
Display 7" Touchpanel	Supply Power	
	Weight without glassware assembly	approx. 120 kg
Detation and range 6 160 mm	Display	7" Touchpanel
Rotation speed range o - 160 rpm	Rotation speed range	6 – 160 rpm

## Premium Laboratory Equipment

Temperature measurement accuracy	±1 °C
Overheat cut-off protection	yes
Automatic heating bath control	micro processor
Level regulation of water bath	automatically due to level sensor and refill function
Indicating range vapor temperature sensor	0 - 200 °C (accuracy 0.1 °C)
Dimensions (w/d/h)	970 x 690 x 1600 mm (2120 mm incl. Base cart)
Max. condensing surface	⊠