## Hei-VAP Industrial B with glassware Shorty R

P/N: 518-28100-00



- Universal heating bath accommodates water or other bath fluids allowing for temperature settings up to 180 °C
- Receiver cassettes 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

Features identical specifications as the Hei-VAP Industrial, but for limited budgets and comes without these safety aspects:

- Metal frame and safety glass guard hood covering the bath
- High-impact PMMA door covering the glassware assembly
- High-impact PMMA latching doors which cover the receiving flask cassettes



## Hei-VAP Industrial B - 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 (EN 60529)  IP 20  Lift motor lift Height adjustment speed 45 mm/s Height adjustment  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 18 I (H2O) / 14 I (oil)  Display vapor temperature yes  Required accessories for display vapor temperature Integrated vacuum controller yes  Timer yes  Vacuum program SETpressure yes  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps yes  Supply Power 88880 W  Timochanel Rotation speed range 6 – 160 rpm	Rotation speed indicator	digital
Lift motor lift  Height adjustment speed 45 mm/s  Height adjustment WMM mm  Drive EC-motor  Heating capacity MMMNN W  Temp. range heating bath 20 – 180 °C  Bath temperature setting digital  Material heating bath stainless steel V4A  Diameter heating bath MMN mm  Volume heating bath 18 I (H2O) / 14 I (oil)  Display vapor temperature yes  Required accessories for display vapor temperature  Integrated vacuum controller yes  Vacuum program SETpressure yes  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps yes  Supply Power MMMNN 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 MRR mm  Drive EC-motor  Heating capacity MRRR M W  Temp. range heating bath 20 – 180 °C  Bath temperature setting digital  Material heating bath stainless steel V4A  Diameter heating bath NRR 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 MRRRR W  Weight without glassware assembly approx. 120 kg  Display 7" Touchpanel	Protection class (EN 60529)	IP 20
Height adjustment  Drive  EC-motor  Heating capacity  MMMMM W  Temp. range heating bath  20 - 180 °C  Bath temperature setting  Material heating bath  Diameter heating bath  Volume heating bath  18 I (H2O) / 14 I (oil)  Display vapor temperature  Required accessories for display vapor temperature  Integrated vacuum controller  Integrated vacuum controller  Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  yes  Supply Power  Weight without glassware assembly  Display  7" Touchpanel	Lift	motor lift
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 181 (H2O) / 141 (oil)  Display vapor temperature yes  Required accessories for display vapor 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	Height adjustment speed	45 mm/s
Heating capacity  Temp. range heating bath  20 - 180 °C  Bath temperature setting  digital  Material heating bath  Diameter heating bath  Volume heating bath  Display vapor temperature  Required accessories for display vapor temperature  Integrated vacuum controller  Timer  yes  Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  Supply Power  Weight without glassware assembly  Display  Display  Display  Display  Display  digital  20 - 180 °C  BRNNNN W  Weight without glassware assembly  digital  20 - 180 °C  Required  20 - 180 °C  Required  WENNN mm  V4AA  Diameter heating bath  18 I (H2O) / 14 I (oil)  Display  Temperature sensor  temperature sensor  yes  Vacuum program AUTOaccurate requires  yes  Supply Power  MENNNN W  Weight without glassware assembly  7" Touchpanel	Height adjustment	
Temp. range heating bath  20 – 180 °C  Bath temperature setting  digital  Material heating bath  Stainless steel V4A  Diameter heating bath  Volume heating bath  18 I (H2O) / 14 I (oil)  Display vapor temperature  Required accessories for display vapor temperature  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  7" Touchpanel	Drive	EC-motor
Bath temperature setting digital  Material heating bath stainless steel V4A  Diameter heating bath 18 l (H2O) / 14 l (oil)  Display vapor temperature yes  Required accessories for display vapor temperature lintegrated vacuum controller yes  Timer yes  Vacuum program SETpressure yes  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps yes  Supply Power yes  William W  Weight without glassware assembly approx. 120 kg  Display 7" Touchpanel	Heating capacity	
Material heating bath  Diameter heating bath  Volume heating bath  Display vapor temperature  Required accessories for display vapor temperature sensor  Integrated vacuum controller  Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  Supply Power  Weight without glassware assembly  Display  Stainless steel V4A  Display mm  Stainless steel V4A  Display stainless steel V4A  Display mm  Stainless steel V4A  Stainless steel value  Stainless steel	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  Ves  Timer  Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  Supply Power  Weight without glassware assembly  Display  Display  MMMMM  MMMM  MMMMM  MMMMM  MMMMMM  MMMM	Bath temperature setting	digital
Volume heating bath  Display vapor temperature  Required accessories for display vapor temperature sensor  Integrated vacuum controller  Ves  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  18 I (H2O) / 14 I (oil)  yes  Temperature sensor  yes  Vacuum program AUTOaccurate yes  yes  AUTOaccurate sensor  Programmable ramps  yes  Supply Power  Manda W  Weight without glassware assembly  Display  7" Touchpanel	Material heating bath	stainless steel V4A
Display vapor temperature yes  Required accessories for display vapor 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  yes  Timer  yes  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 yes  yes  Vacuum program AUTOaccurate requires yes  AUTOaccurate sensor  yes  Supply Power  MMMMM W  Touchpanel	Volume heating bath	18 l (H2O) / 14 l (oil)
Integrated vacuum controller  Timer  yes  Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  yes  Supply Power  Weight without glassware assembly  Display  yes  Timer  yes  yes  Vacuum program AUTOaccurate requires yes  AUTOaccurate sensor  Programmable ramps  yes  MMMMM W  Timer  yes  AUTOaccurate requires yes  AUTOaccurate sensor  Programmable ramps  yes  Supply Power  MMMMM W  Timer  Touchpanel	Display vapor temperature	yes
Timer yes  Vacuum program SETpressure yes  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps yes  Supply Power WMMM W  Weight without glassware assembly approx. 120 kg  Display 7" Touchpanel		temperature sensor
Vacuum program SETpressure  Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  yes  Supply Power  Weight without glassware assembly  Display  yes  Touchpanel	Integrated vacuum controller	yes
Vacuum program AUTOaccurate requires AUTOaccurate sensor  Programmable ramps  yes  Supply Power  Weight without glassware assembly  Display  yes  MMMM W  Touchpanel	Timer	yes
AUTOaccurate sensor  Programmable ramps  Supply Power  Weight without glassware assembly  Display  AUTOaccurate sensor  yes  MMMM W  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
Rotation speed range 6 – 160 rpm	Display	7" Touchpanel
	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	⊠