



## Hei-VAP Industrial with glassware A1

### Technical datasheet

<b>Dimensions (W × H × D)</b>	998 × 2,225 × 694 mm
<b>Weight</b>	approx. 120 kg, without glassware
<b>Drive</b>	EC motor
<b>Speed range</b>	6 – 160 rpm
<b>Heating power</b>	4,000 W
<b>Acoustic pressure</b>	< 85 (dB(A)) (in accordance with IEC 61010)
<b>Rated voltage</b>	3 × 400 V (50/60 Hz) or 1 × 230 V (50/60 Hz)
<b>Connection</b>	L1+L2+L3+N+PE or L+N+PE
<b>Protection Class</b>	I
<b>Overvoltage category</b>	II
<b>Degree of pollution</b>	2
<b>Power input</b>	4,600 W max.
<b>Operating temperature</b>	5 °C – 31 °C at up to 80 % rel. humidity   32 °C – 40 °C at up to 50 % rel. humidity (decreasing linearly)
<b>Installation altitude</b>	up to 2,000 m asl
<b>Stroke flask lift</b>	180 mm
<b>Lifting speed flask lift</b>	45 mm/s
<b>Evaporation rates (L/h) <math>\Delta T^*</math> 40 °C (for continuous operation)</b>	Toluene 26.0   Acetone 25.9   Ethanol 12.9   Water 4.7
<b>Maximum cooling surface</b>	1.2 m <sup>2</sup> (depending on glass set)
<b>Heating bath</b>	Inner Ø: 397 mm, outer Ø: 400 mm   Material: V4A steel (1.4404) X2CrNiMo 17-12-2   Volume: 18 L H 20 / 14 L oil

<b>Temperature range heating bath</b>	20 – 100 C° H2O / 20 – 180 C° oil
<b>Overtemperature protection</b>	integrated, mechanical
<b>Overheat protection</b>	n.a.
<b>Control</b>	detachable, 7 inch touchpanel, control knobs
<b>Control accuracy</b>	± 1 C°
<b>Storage conditions (recommendation)</b>	5 °C – 31 °C at up to 80 % rel. humidity   32 °C – 40 °C at up to 50 % rel. humidity (decreasing linearly)
<b>Permissible leakage rate</b>	1 mbar/min
<b>Degree of protection, device</b>	IP20
<b>Control panel degree of protection</b>	IP45
<b>Heating bath temperature control</b>	Microprocessor
<b>Required pump capacity</b>	1,5 – 3 (m3/h)
<b>Consumption cooling liquid</b>	150 – 250 (L/h)