

# Technical specifications

## Large-Scale Rotary Evaporators

Model	Hei-VAP Industrial	
Rotation speed	6–160 rpm	
Rotation speed setting	digital	
Display	7" touch display	
Lift	motor lift	
Height adjustment speed	45 mm/s	
Height adjustment	180 mm	
Drive	EC-motor	
Heating capacity	4,000 W	
Temperature range heating bath	20–180 °C	
Temperature accuracy	±1 °C	
Overheat cut-off protection	110 (H <sub>2</sub> O) / 210 (oil)	
Bath temperature setting	digital	
Automatic heating bath control	micro processor	
Material heating bath	stainless steel AISI 316 L	
Diameter heating bath	400 mm	
Volume heating bath	24 (H <sub>2</sub> O) / 22 (oil)	
Level regulation of water bath	automatically due to level sensor and refill function	
Display vapor temperature required accessories	digital temperature sensor	
Indicating range vapor temperature sensor	0–200 °C (accuracy 0.1 °C)	
Integrated vacuum controller	yes	
Timer	yes	
Vacuum control program SET <sub>pressure</sub> <sup>2</sup>	yes	
Vacuum control program AUTO <sub>accurate</sub> <sup>2</sup> requires AUTO <sub>accurate</sub> -sensor	yes	
Programmable ramps	yes	
Supply power	4,600 W	
Weight w/o glass assembly	approx. 120 kg	
Dimensions	w / d / h	
	970×690×1,600 mm	
Rate of evaporation <sup>1</sup> at 40 °C temperature difference	Toluene	26.0 l/h
	Acetone	25.9 l/h
	Ethanol	12.9 l/h
	Water	4.7 l/h
Maximum condensing surface	1.2 m <sup>2</sup>	
Permissible ambient conditions	5–31 °C at 80 % rel. humidity, 32–40 °C decreasing linearly up to max. 50 % rel. humidity	
Protection class	DIN EN 60529	IP 20

Standard supply voltage: 400 V three-phase current. Other voltages upon request, please specify for order.

<sup>1</sup>  $\Delta T$  = difference between heating bath temperature and boiling temperature

<sup>2</sup> Only in combination with vacuum systems