

# Technical specifications

## Rotary Evaporators

Model	Hei-VAP Core (HL)	Hei-VAP Core (ML)	Hei-VAP Expert (HL/ML)	Hei-VAP Ultimate (HL/ML)	Hei-VAP Expert Control (HL/ML)	Hei-VAP Ultimate Control (HL/ML)
<b>Lift</b>	hand lift	motor lift	hand lift / motor lift	hand lift / motor lift	hand lift / motor lift	hand lift / motor lift
<b>Height adjustment speed</b>	manual	25 mm/s	manual / 25 mm/s	manual / 25 mm/s	manual / 25 mm/s	manual / 25 mm/s
<b>Height adjustment</b>	155 mm	155 mm	155 mm	155 mm	155 mm	155 mm
<b>Rotation speed</b>	10–280 rpm	10–280 rpm	10–280 rpm	10–280 rpm	10–280 rpm	10–280 rpm
<b>Rotation speed setting</b>	3.5" LCD display	3.5" LCD display	5" LCD color graphic display	7" LCD color graphic display	5" LCD color graphic display	7" LCD color graphic display
<b>Drive</b>	brushless DC motor with electronic speed control					
<b>Heating capacity</b>	1,300 W	1,300 W	1,300 W	1,300 W	1,300 W	1,300 W
<b>Temp. range heating bath</b>	20–210 °C	20–210 °C	20–210 °C	20–210 °C	20–210 °C	20–210 °C
<b>Temperature accuracy bath</b>	±1 °C	±1 °C	±1 °C	±1 °C	±1 °C	±1 °C
<b>Overheat protection bath</b>	cut-off at 5 °C over set temperature via separate Pt 1000					
<b>Secondary overtemp. cut-off</b>	250 °C	250 °C	250 °C	250 °C	250 °C	250 °C
<b>Bath temperature setting</b>	3.5" LCD display	3.5" LCD display	5" LCD color graphic display	7" LCD color graphic display	5" LCD color graphic display	7" LCD color graphic display
<b>Heating bath temperature control</b>	electronic / digital	electronic / digital	electronic / digital	electronic / digital	electronic / digital	electronic / digital
<b>Material heating bath</b>	stainless steel AISI 316 L	stainless steel AISI 316 L	stainless steel AISI 316 L	stainless steel AISI 316 L	stainless steel AISI 316 L	stainless steel AISI 316 L
<b>Diameter heating bath</b>	inner 253 mm, outer 291 mm	inner 253 mm, outer 291 mm	inner 253 mm, outer 291 mm	inner 253 mm, outer 291 mm	inner 253 mm, outer 291 mm	inner 253 mm, outer 291 mm
<b>Volume heating bath</b>	4.5 l	4.5 l	4.5 l	4.5 l	4.5 l	4.5 l
<b>Max. size evaporating flask</b>	5 l	5 l	5 l	5 l	5 l	5 l
<b>Display vapor temperature required accessories</b>	–	–	yes vapor temperature sensor	yes vapor temperature sensor	yes vapor temperature sensor	yes vapor temperature sensor
<b>Integrated vacuum controller</b>	–	–	–	–	yes	yes
<b>Integrated Hei-CHILL controller</b>	–	–	–	–	yes	yes
<b>Timer</b>	–	–	yes	yes	yes	yes
<b>Vacuum program DAA mode requires AUTO<sub>accurate</sub>-sensor</b>	–	–	–	–	yes	yes
<b>Programmable ramps</b>	–	–	yes	yes	yes	yes
<b>Supply power</b>	1,400 W	1,400 W	1,400 W	1,400 W	1,400 W	1,400 W
<b>Weight w/o glassware assembly</b>	14.7 kg	15 kg	14.7 kg (HL), 15 kg (ML)	14.7 kg (HL), 15 kg (ML)	14.7 kg (HL), 15 kg (ML)	14.7 kg (HL), 15 kg (ML)
<b>Dimensions with glassware set G3 max. w/d/h</b>	739×487×845 mm	739×432×845 mm	739×532×887 mm (HL) 739×477×887 mm (ML)	739×532×887 mm (HL) 739×477×887 mm (ML)	739×532×887 mm (HL) 739×477×887 mm (ML)	739×532×887 mm (HL) 739×477×887 mm (ML)
<b>Dimensions with glassware set G3 XL max. w/d/h</b>	739×487×920 mm	739×432×920 mm	739×532×920 mm (HL) 739×477×920 mm (ML)	739×532×920 mm (HL) 739×477×920 mm (ML)	739×532×920 mm (HL) 739×477×920 mm (ML)	739×532×920 mm (HL) 739×477×920 mm (ML)
<b>Condensing surface</b>	1,400 cm <sup>2</sup>	1,400 cm <sup>2</sup>	1,400 cm <sup>2</sup>	1,400 cm <sup>2</sup>	1,400 cm <sup>2</sup>	1,400 cm <sup>2</sup>
<b>Condensing surface XL condenser</b>	2,200 cm <sup>2</sup>	2,200 cm <sup>2</sup>	2,200 cm <sup>2</sup>	2,200 cm <sup>2</sup>	2,200 cm <sup>2</sup>	2,200 cm <sup>2</sup>
<b>Permissible ambient conditions</b>	5–31 °C at 80% rel. humidity, 32–40 °C decreasing linearly up to max. 50% rel. humidity					
<b>Protection class<sup>1</sup></b>	<b>DIN EN 60529</b>	IP 20	IP 20	IP 20	IP 20	IP 20

Standard supply voltage: 230 V. Other voltages upon request, please specify for order.

<sup>1</sup> IP 67 for heating bath cable connections, IP 42 for operating panels and Control-Box