

Technical data sheet

Interface I-100

The I-100 is an easy to use interface that controls the vacuum digitally. It is optimally suited to on/off-regulate the Vacuum Pump V-100.



Scope of delivery

	Stand-alone	For V-100	For house vacuum
Interface (incl. integrated holder to fasten on lab-stand)	1	1	1
Power pack (100 – 240 V, 40 W)	1	1	1
Holder for V-100	-	1	-
Connection tube	-	1	-
Vacuum tube	-	-	1
Mini-DIN communication cable	-	1	-
Valve unit	-	-	1

Order code

A recommended solution with the Interface I-100 in combination with Rotavapor® R-100, Vacuum Pump V-100 and Recirculating Chiller F-100 can be found in the technical data sheet of the Rotavapor® R-100, “Exemplary solution”.



Interface stand-alone (100 – 230 V)

- 1 Including power pack and integrated holder (to fasten on lab-stand)

Interface for V-100 (100 – 230 V)

- 2 Including power pack, communication cable (Mini-DIN) and holder (to mount interface on vacuum pump)
A Woulff bottle is required

Interface for house vacuum (100 – 230 V)

- 3 Including power pack and valve unit and holder (to fasten on lab-stand)

Technical data

Interface I-100

Dimensions (W x H x D)	160 x 105 x 120 mm
Weight	700 g
Voltage	30 V DC
Power consumption	10 W
Solenoid valve power supply	24 V
Measurement range	1400 – 0 mbar
Regulating range	1100 – 0 mbar
Measurement accuracy	± 2 mbar (after calibration at constant temperature)
Temperature compensation	0.07 mbar/K
Hysteresis	Automatic or 1 – 500 mbar
Vacuum connection	GL14
Enclosure rating	IP21
Approval	CE

Special features

Application and functional principle

The Interface I-100 is designed for essential applications and has following functions:

Multi-languages	en, de, fr, it, es, zh, ja, ru, pt-b
Manual vacuum control	Pressure settings and aeration is managed via buttons
Vacuum regulation of set pressure	Adjusts and keeps pressure stable within hysteresis
Timer function	To stop the process after pre-set time
Indication of icons	Displays symbols when connected to pump and chiller
Operation of Vacuum Pump V-100	Automatic On/Off-function
Operation of Recirculating Chiller F-105	Automatic On/Off-function
Overpressure prevention	Automatic aeration when pressure above 1400 mbar

Available connectors	V-100
RS485 Communication port for recirculating chiller (On/Off-function)	•
Mini-DIN (3 ports) For Vacuum Pump V-100, cooling water valve or vacuum valve (On/Off-function)	•
Power socket For power pack	•

Compatibility

Compatibility of vacuum pumps with vacuum controllers of different generations

V-100	I-100	yes	on/off control	038010 / 11060882
	V-850 / V-855	yes	on/off control	038010 / 11060882
	V-800 / V-805	no	-	-
V-700 / V-710	I-100	yes	on/off control	038010
	V-850 / V-855 V-800 /	yes	speed controlled	044989*
	V-805	yes	on/off control	038010
V-500	I-100	yes	on/off control	038010
	V-850 / V-855	yes	on/off control	038010
	V-800 / V-805	yes	on/off control	038010

* Power adapter 11060669 is not needed

Length of communication cable: 038010 (1.5 m), 11060882 (0.6 m), 044989 (2.0 m)

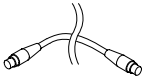
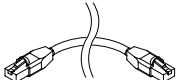
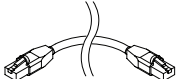
Explanation of terms

On/Off control: the pump is automatically turned On and Off via the interface -> On/Off communication

Speed controlled: the pump is turned On and Off as well as speed controlled via the interface

Accessories

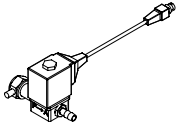
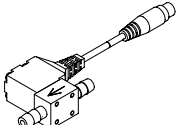
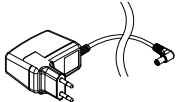
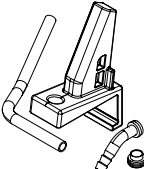
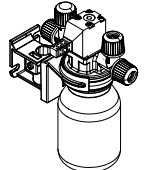
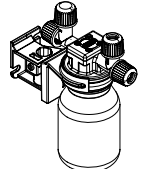
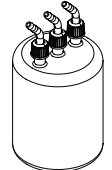
Communication cables

	Order no.	Image
Communication cable, Mini-DIN, 0.6 m Connection between Interface I-100 and Vacuum Pump V-100	11060882	
Communication cable. RJ45, 2 m Connection between vacuum controller/interface and recirculating chiller or vacuum controller/interface and vacuum pump.	044989	
Communication cable. RJ45, 5 m Connection between vacuum controller/interface and recirculating chiller or vacuum controller/interface and vacuum pump.	11056240	

Tubing

	Order no.
Tubing. Natural rubber, Ø6/16 mm, red, per m	017622
Use: Vacuum.	
Tubing. Nylflex, PVC-P, Ø8/14 mm, transparent, per m	004113

Further accessories

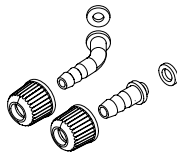
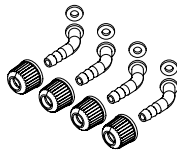

	Order no.	Image
<p>Cooling water valve. 24VAC</p> <p>Valve opens cooling water feed during distillation. Meant to be used with a vacuum controller/interface.</p>	031356	
<p>Vacuum valve. Magnetic valve, 24V/4W, Mini-DIN, 1.5 m</p> <p>Flow valve without flask, meant to be used with a centralized vacuum source or an unregulated vacuum pump. Meant to be used with the Interface I-300 / I-300 Pro.</p>	11060706	
<p>Power adapter. 30 V, 30 W, frequency 50/60 Hz</p> <p>To power vacuum controller directly or to power interface via LegacyBox or VacuBox.</p>	11060669	
<p>Support set, connection tube, mounting device</p> <p>To mount Interface on vacuum pump</p>	11061448	
<p>Valve unit, Woulff bottle, 125mL, P+G, holder for lab-stand and vacuum pump</p> <p>Non-return valve and condensate trap</p>	047160	
<p>Woulff bottle, 125mL, P+G, holder for vacuum pump</p> <p>For trapping particles and droplets and for pressure equalization, recommended for stand-alone systems and in combination with a vacuum pump</p>	047170	
<p>Woulff bottle. 3-neck, 800 mL, P+G.</p> <p>For trapping particles and droplets and for pressure equalization.</p>	025519	

Wear parts

Seals

	Order no.
Seal. For cap nut GL14 to FEP, EPDM	038225

Hose barbs

	Order no.	Image
Hose barbs, set. 2 pcs, bent (1), straight (1), GL14, silicone seal Content: Hose barbs, cap nuts, seals	041939	
Hose barbs, set. 4 pcs, bent GL14, silicone seal Content: Hose barbs, cap nuts, seals	037287	
Hose barbs, set. 4 pcs, straight, GL14, silicone seal Content: Hose barbs, cap nuts, seals	037642	

Further wear parts

	Order no.	Image
Cap nuts, set. 10 pcs, screw cap with hole GL14, seal EPDM Content: Cap nuts, seals	041999	