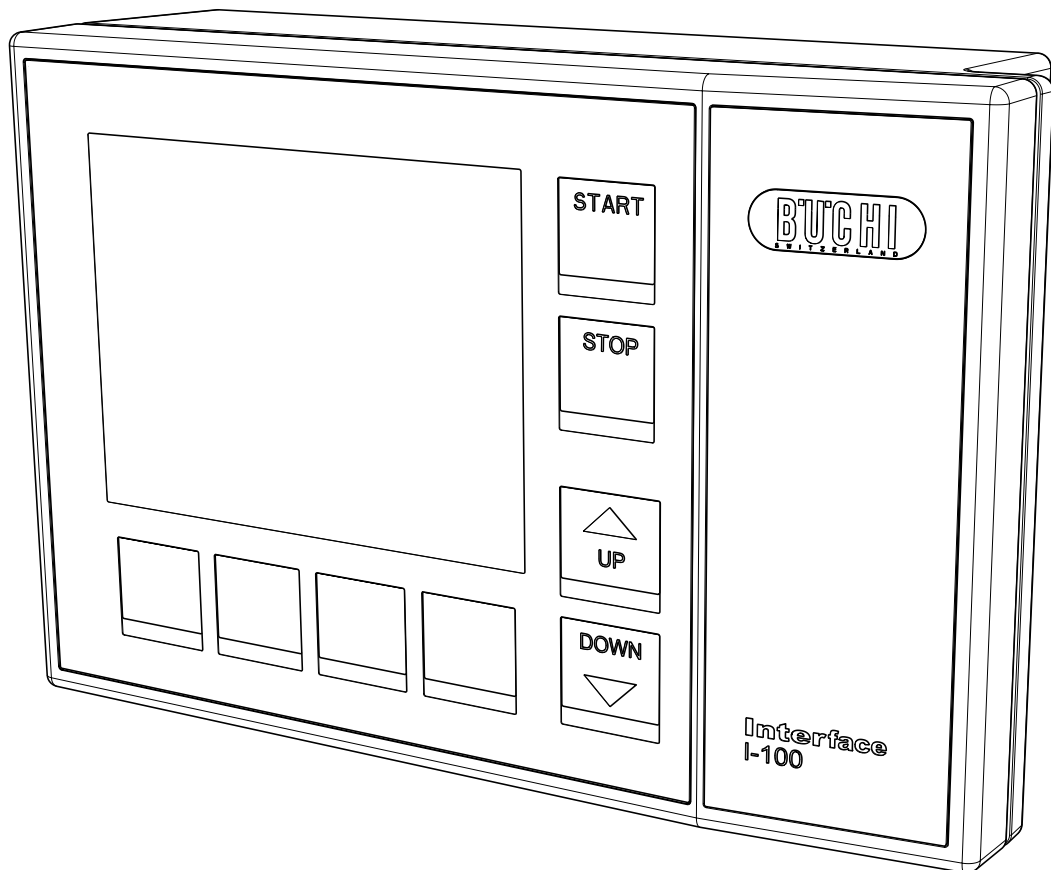




Interface I-100

Technical data sheet

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

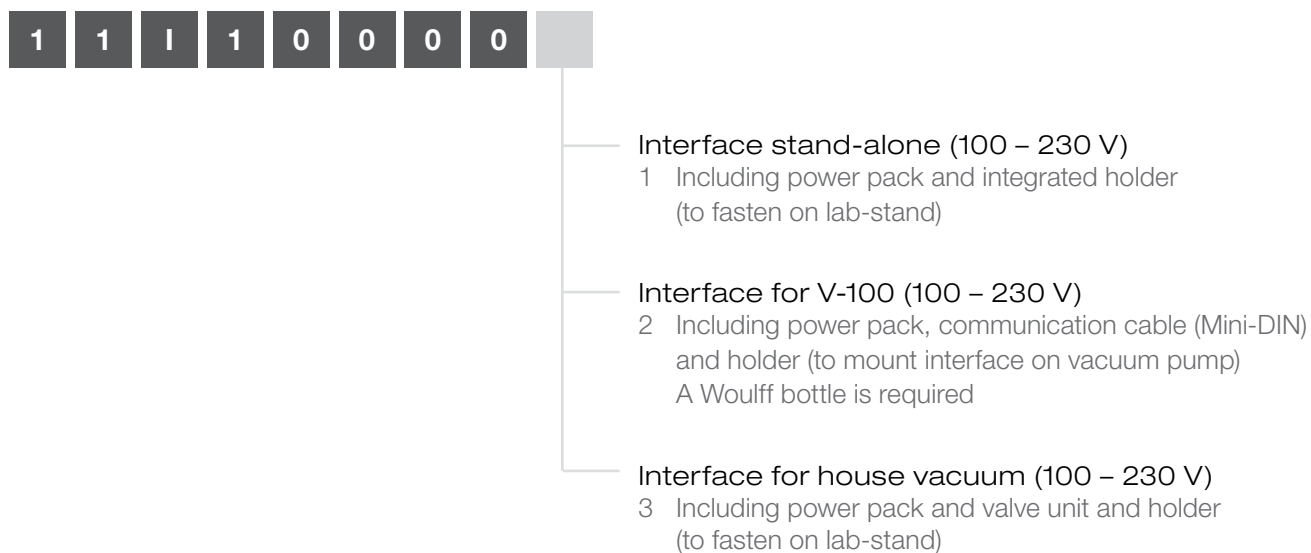
All models are delivered ready to use and are complete of:

Components	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”.

Choose the configuration according to your needs:



Dimensions and weight

	Dimensions (W x H x D)	Weight
Interface I-100	160 x 105 x 120 mm	700 g

Technical data

Measurement range	1400 – 1 mbar
Control range	1100 – 1 mbar
Measuring principle	Capacitive, independent of gas type, absolute pressure gauge / sensor made from aluminum oxide-ceramic
Measuring accuracy	± 2 mbar (± 1 digit) - after calibration at constant temperature
Vacuum connection	GL14
Temperature compensation	0.07 mbar/K
Magnetic valve supply	24 V
Power consumption	10 W
Connection voltage	30 VDC
Frequency	50/60 Hz
Hysteresis	Automatic or 1 – 500 mbar
Display	Digital, monochrome, 4.0 in
Protection class	IP21
Approvals	CE / CSA
Input voltage	100 – 240 V
Output voltage	30 VDC

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 values	Set and actual value of pressure are shown simultaneously on display
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	yes	speed controlled	044989*
	V-800 / 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 (0.6m), 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

Interface accessories

	Order number
Cooling water valve, 24VAC Valve opens cooling water feed only during distillation	031356
Valve unit, Woulff bottle, 125mL, P+G, holder for lab-stand and vacuum pump Non-return valve and condensate trap	047160
Water jet pump, B-764, magnetic valve, FFKM backstroke valve, 24V Simple principle of vacuum generation, without cooling water valve, only used in combination with a vacuum controller or interface	031358
Water jet pump, B-767, magnetic valve (2pcs), FFKM backstroke valve, 24V Simple principle of vacuum generation, for pump and cooling water, only used in combination with a vacuum controller or interface	031357
Vacuum valve, 2.4mm, 24VDC Used with a centralized vacuum source or an unregulated vacuum pump, does not include condensate trap	031353
Woulff bottle, 125mL, P+G, holder for vacuum pump For trapping particles and droplets and for pressure equalisation, recommended for stand-alone systems and in combination with a vacuum pump	047170
Woulff bottle, 3-neck, 800mL, P+G For trapping particles and droplets	025519
Power adapter, 30V, 30W, frequency, 50/60Hz To power the Interface I-100	11060669
Support set, connection tube, mounting device To mount Interface on vacuum pump	11061448
Communication cable, RJ45, 2m Connection between Interface I-100 and Recirculating Chiller F-100/F-105 or Interface I-100 and Vacuum Pump V-700/V-710	044989
Communication cable, RJ45, 5m Connection between Interface I-100 and Recirculating Chiller F-100/F-105 or Interface I-100 and Vacuum Pump V-700/V-710	11056240
Communication cable, Mini-DIN, 0.6m Connection between Interface I-100 and Vacuum Pump V-100	11060882
Tubing, for vacuum, silicone rubber, Ø6/16mm, red, per m	017622
Tubing, for cooling media, Nyflex, PVC-P, Ø8/14mm, transparent, per m	004113

Interface wear parts

	Order number
Set of hose barbs, bent, GL14, silicone seal, incl. cap nut (4pcs each)	037287
Set of hose barbs, straight, GL14, silicone seal, incl. cap nut (4pcs each)	037642

	Order number
Set of hose barbs, bent (1pc), straight (1pc), GL14, silicone seal, incl. cap nut (2pcs)	041939
Seal GL14 for cap nut, GL14, FEP	038225
Set of cap nuts, screw cap with hole, with FEP seal (10pcs)	041999