



Enter process parameters via the hand terminal

Controller managed vacuum pump systems have beco-me indispensable in the laboratory. They provide precisevacuum and offer many control functions for a widevariety of laboratory applications.

The new SC 950 speed-regulated vacuum pump systemcan be remotely operated from a portable terminal toensure flexibility in the laboratory.

Other outstanding features:

- Short process times
- High accuracy
- High recovery rates even for low boiling point solvents

Thanks to RF remote control you no longer have to set up thevacuum pump system within sight of the process apparatus inorder to operate the system. The pump system can for examplebe stowed beneath the work surface in the lab furniture or canbe located in a safety cabinet with no annoying cable feedth-roughs.

The intuitive user guidance on the portable terminal ensuresease of operation; the process parameters are entered using atouchscreen and a rotary knob.

The hand terminal can be called via vacuum pump system (paging); the hand terminal will answer with a signal tone.

SC 950 Vacuum Pump System

with wireless remote Control, speed regulated

Features:

- Fast and precise evaporation/distillation and autom. sensing of the boiling point
- Ease of operation; the process parameters are entered using a touchscreen and a rotary knob
- Quiet operation
- integrated gas ballast valve
- Sensitive pressure control in the system
- Variable systempressure via speed regulation
- high recovery rates even with low boiling point solvents
- Environmentally friendly
- Low maintenance-free
- Capturing of particles in the system (suction side)

Applications:

- Vacuum evaporation
- Vacuum desiccation
- Vacuum gel drying
- Vacuum filtration

Four operating modes

The vacuum pump system can be used in four different operating modes, selected on the hand terminal:

Evacuate:

The vacuum pump system evacuates a vacuumchamber with adjustable pump capacity.

Pressure control:

The vacuum pump system controls thesystem pressure to the set value (constant pressure).

Automatic:

The vacuum pump system automatically finds the vapor pressure of the sample. If there are any irregularities in the pressure curve, the vacuum pump system adjusts the process pressure accordingly.

Individual pressure function:

the vacuum pump system con-trols the process according to a user-defined pressure curve..



At any time during an active process, you can switch to manual process control. Functions for Evacuate and Pressure control will be available simultaneously.

Intelligent control

A key feature of the SC 950 vacuum pump system is its intelligent control system. A pressure sensor measures the actual pressure in the system several times per second, and a microprocessor monitors any pressure drop over time. The pump speed is adapted according to this information constantly.

At the start of each process, the vacuum pump operates at low speed to avoid over-response in situations with a small vacuum chamber volume and a fast-boiling medium. If there is a large discrepancy between the actual pressure and the setpoint pressure, the pump speed, and thus the transferred volume, is increased in order to speed up the process. As soon as the actual pressure approaches the setpoint pressure, the pump speed is reduced. This ensures fast process times and high control accuracy.

Controlling via a PC

Included in delivery with the SC 950 is Windows®-based software, which also supports operation of the system over a PC. In addition to the options offered by the hand terminal, the software also supports the display of the pressure curves as a chart (setpoint/actual shown), setpoint can be saved, and the export of data to spreadsheets or text files. Communication with the PC is implemented over a USB interface.

Fast process times

Besides intelligent control, the diaphragm vacuum pump used in the SC 950 further contributes to short process times. The pump is fitted with the patented KNF diaphragm system that ensures high suction speeds even at low pressures.

The vacuum pump system achieves an ultimate vacuum of 2 mbar absolute and delivers up to 50 liters of gas per minute. All gas carrying parts are manufactured from chemical resistant materials.

Extremely quiet operation

The integrated vacuum pump operates extremely quietly. Furthermore the system stops the pump completely as soon as the setpoint pressure of the system is reached and only starts up again intermittently in order to offset any slight drop in pressure due to leakages in the process equipment.

Perfectly matched components

This vacuum pump system SC 950 opens up a whole new range of options in the laboratory. This is due to new functions and technical solutions. Thanks to the coordinated development of the individual components it has been possible, for example, to adjust the sensitivity of the motor to suit the requirements of the control process.



The system SC 950 can be easily stowed away, i.e. in units under the work bench or in a fume hood.



The mobile hand terminal (wireless remote control) thus ensuring maximum flexibility in the laboratory.



	Legend:	
50	1 Gas outlet	
2 over hand terminal and/or Windows®-	2 Connection to vacuum chamber	
	3 Coolant inlet	
based software	Coolant outlet	
100 - 240 V, 50 - 60 Hz max_150 W	5 Wireless remote control	
ID 10	6 Connection coolant valve	
ID 8	7 USB connection	
max. 1,7 A 14 5 kg	8 Mains switch	
487 x 246 x 313	9 Inert gas connections	
mains fuse	Carry handle	
	1 Mains connection	
	2 Separator	
	🔞 Gas ballast on/off	
	50 2 over hand terminal and/or Windows®- based software 100 - 240 V, 50 - 60 Hz max. 150 W ID 10 ID 8 max. 1,7 A 14,5 kg 487 x 246 x 313 mains fuse	502Over hand terminal and/or Windows®- based software 100 - 240 V, 50 - 60 Hz max. 150 W③ Coolant inlet3Coolant outlet100 - 240 V, 50 - 60 Hz max. 150 W④ Coolant outlet100 - 240 V, 50 - 60 Hz max. 150 W④ Coolant outlet100 - 240 V, 50 - 60 Hz max. 150 W④ Coolant outlet100 - 240 V, 50 - 60 Hz max. 150 W④ Coolant outlet100 - 240 V, 50 - 60 Hz max. 150 W④ Coolant outlet100 USB ID 10 ID 8 max. 1,7 A 14,5 kg 487 x 246 x 313 mains fuse④ Connection coolant valve100 Carry handle ID Nains connection ID Carry handle ID Mains connection ID Separator IB Gas ballast on/off●

Pressure-rotary knob









Accessory

Order No.	Description	Details
117121	Coolant valve	G 1/2, ID 8

SC 950



Pricing on any accessories shown can be found by keying the part number into the search box on our website. The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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