

NEW AND INNOVATIVE



■
Wireless remote control
for more flexibility in
laboratories

■
Fast process time

■
Adjustable pump
capacity

■
Safe lab processing



■
Quiet
operation

■
With integrated
gas ballast valve

■
Automatic sensing
of the boiling point

■
Sensitive pressure
control

■
Intelligent speed control

VACUUM PUMP SYSTEM

SC 950

with wireless remote
control, speed regulated



SC 950[®] vacuum pump system with wireless remote control, speed regulated

Controller managed vacuum pump systems have become indispensable in the laboratory. They provide precise vacuum and offer many control functions for a wide variety of laboratory applications.

The new SC 950 speed-regulated vacuum pump system can be remotely operated from a portable terminal to ensure 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 the vacuum pump system within sight of the process apparatus in order to operate the system. The pump system can for example be stowed beneath the work surface in the lab furniture or can be located in a safety cabinet with no annoying cable feedthroughs.

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

Available settings:

- Pressure unit
- Operating language
- Operating mode
- Parameters such as setpoint pressure or suction capacity for the system directly using the rotary knob

Features

- **Wireless remote control for more flexibility in laboratories**
- **Speed regulated**
- **Automatical sensing of the boiling point**
- **Fast process time**
- **Quiet operation**
- **With gas ballast valve**
- **Ventilation valve**

Four operating modes

- **Evacuate:** the vacuum pump system evacuates a vacuum chamber with adjustable pump capacity.
- **Pressure control:** the vacuum pump system controls the system 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 controls the process according to a user-defined pressure curve.

Applications:

- Vacuum evaporation, distillation, desiccation and gel drying
- Easy to install in safety cabinets



- 1 Gas outlet
- 2 Connection to vacuum chamber
- 3 Coolant inlet
- 4 Coolant outlet
- 5 Wireless remote control
- 6 Connection coolant valve
- 7 USB connection
- 8 Mains connection
- 9 Inert gas connections
- 10 Carry handle
- 11 Mains switch
- 12 Separator
- 13 Gas ballast on/off
- 14 Pressure-rotary knob



Intelligent control

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.

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), which can be saved, and the export of data to spreadsheets or text files.

Technical data of the SC 950 vacuum pump system

Control	via wireless remote control and Windows [®] -based software	
Mains connection:	100 - 240 V, 50 - 60 Hz	
Power consumption:	max. 150 W	
Hose connections, pneumatic:	ID 10	
Hose connections for coolants:	ID 8	
Current consumption:	max. 1.7 A	
Weight:	14,5 kg	
Dimensions (mm) H x W x D:	487 x 246 x 313	
With gas ballast valve, overcurrent protection and mains fuse		

Performance data

Typ	Flow rate (l/min)*	Vacuum (mbar absolut)
SC 950	50	2

* at atm. pressure

Accessory

Coolant valve	G 1/2, ID 8	Order No. 117121
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Do you have questions?

Please call your KNF Lab application consultant. We will be happy to help.



The full laboratory product line can be found in the KNF laboratory catalog

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