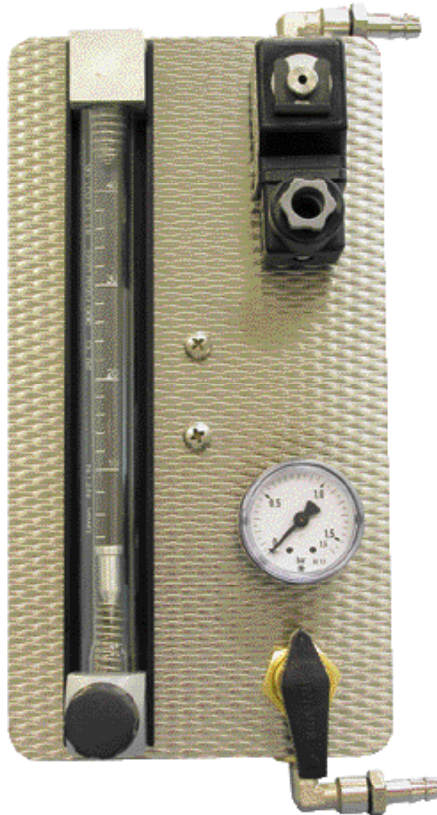


User's Guide

Laboratory gassing station

The laboratory gassing station may only be put into operation when these instructions have been read and completely understood by the operator.



These instructions must be read by every operator and be available at all times.

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Designated use

- The gassing station is designed for commercial use in the laboratory.
- Written approval must be obtained from Nabertherm for other uses.
- The assembly instructions and safety guidelines must be observed. Otherwise the gassing station is not considered to be used as designated and all claims against Nabertherm will be void.

General description

Equipment

- The gassing station is manually operated using a ball valve.
- For electrical control (e.g. using a furnace controller), the gassing station can be equipped with a solenoid valve (optional).
- Depending on the type of gas, the gassing station has a flow meter tuned to the gas used.
- The gassing station is equipped with hose nozzles with a nominal width of 9mm at both the inlet and the outlet.

Technical data

Electrical connection (optional)

Voltage: 230V AC/50Hz or 24V DC

Gas supply

Supply pressure:

Pr = see imprint on the flow meter

Pmax = 1.5bar

Safety

- The gassing station must be checked for proper condition before each use. In case of a defect, the furnace must be taken out of operation immediately.
- During operation, gases and vapors may be released which can be hazardous to your health. These must be led outside in an appropriate manner. Failure to observe this will result in hazards to health.
- Use only gases with known properties.
- In case of unexpected processes in the furnace (e.g. excessive release of smoke or odors) shut furnace down immediately, then wait for it to cool naturally.
- The use of the gassing station in conjunction with flammable gases is only permitted with additional safety systems!

Assembly and commissioning

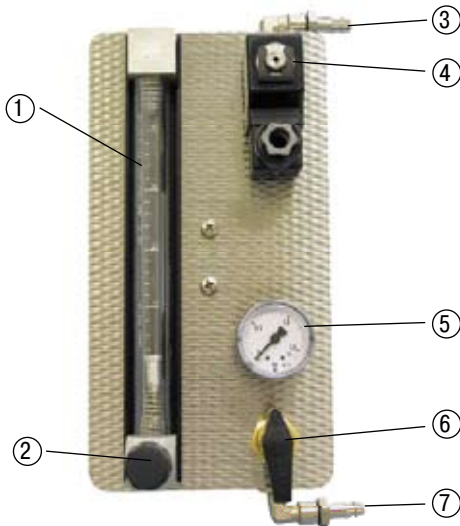
Removing transport packaging:

- Remove the transport packaging completely.
- Please notify us immediately of any transport damages or incomplete deliveries!
- Keep the packaging for any later service case.

Assembly:

- Use only the fastening clip supplied for mounting of the gassing station!
- The gassing station must be mounted vertically.
- When a gassing station is purchased in combination with a furnace, it is preinstalled in the furnace by default.
- A fabric tube with a nominal width of 9mm should be used as the connecting line between the gassing station and the furnace as well as for the gas supply.
- Multiple gassing stations should be connected to the furnace in parallel.

Operation:



- 1) Flow meter sensor
- 2) Gas flow adjustment screw
- 3) Gas outlet
- 4) Solenoid valve (optional)
- 5) Manometer (supply pressure)
- 6) Ball valve
- 7) Gas inlet

- The supply pressure should be adjusted to 300 mbar with the ball valve and the (optional) solenoid valve open.

WARNING! Too high a supply pressure (>1.5bar) will result in the destruction of the manometer.

- Open the gas supply before starting the program.
- The gas outlet should be operated with the lowest gas pressure possible. (<30mbar)
- The gas supply is dosed with the gas flow adjustment screw and read out from the flow meter.

Service

- Check hose connections for leaks and proper seating before each use
- Check the gassing station at regular intervals for leaks and contamination in the flow meter (if necessary, use leak detection spray).
- Check the function of the ball valve and solenoid at regular intervals.

For commercial use:

Observe the safety regulations valid for your country.

Ordering replacement parts

In writing, by telephone, or through the Internet:

www.nabertherm.com

Give the following data:

- Type of gas
- Optional equipment (solenoid valve 24 V/230 V)
- Gas flow (see imprint on the flow meter)
- Supply pressure (see imprint on the flow meter)

Only original Nabertherm replacement parts may be used; otherwise, all warranties are void.

Headquarters:

No responsibility accepted for the accuracy of this information; we reserve the right to make changes