



# OPERATING INSTRUCTIONS



### Scope of delivery

- Barrel with lid
- Foam pipe
- Hose
- Adapter
- Funnel

### Intended use


The foam generator SPUMATOR SIMPLEX is used for the simple preparation of fine-pored foam as required for the production of porous lightweight concrete.

An air compressor is required to operate the device. The amount of foam produced is up to 120 litres of foam per minute, depending on the delivery capacity of the compressor.

Only foaming agents intended for the production of porous lightweight concrete may be used. The use of flammable or explosive substances (fire and explosion hazard) and the use of the unit in the food sector are not permitted.

The manufacturer accepts no liability for damage resulting from unauthorised modifications to the unit or improper use.

### First commissioning

-  Carefully read the information in the safety instructions section. Before operating the unit, you must have read these operating instructions and understood and observed all the instructions given.
- Check the unit for any transport damage.
- Make sure that all protective devices of the appliance are present and properly installed and that all safety instructions have been observed.



## Setting up and filling the unit

- Place the liquid container (1) of the unit on a firm and level surface in such a way that it cannot tip over.
- Fill the container with a maximum of 50 litres of water, add the appropriate amount of foaming agent and stir the mixture by hand.
- Close the liquid container with the container lid (2).
- Use the 3 m long connection hose (3) to connect the foam pipe (4) to the outlet (6) in the container lid (2). As supplied, the foam valve (5) is connected to the connection hose (3). It must be screwed onto the foam pipe (4) during initial start-up.
- Make sure that the connectors engage properly and that the foam valve (5) is closed.
- Use a compressed air hose with suitable quick-release couplings to connect your air compressor to the connection (7) in the container lid (2). Make sure that the air outlet valve of the compressor is **closed**.

## Starting the foam preparation

- Now open the air outlet valve of the compressor to supply the unit with compressed air.
- Open the foam valve (5) at the inlet of the foam pipe to start foam preparation.
- The foam quality (foam weight per unit volume) can be adjusted as required using the control valve (8) on the container lid (2).
- If necessary, use a pressure reducer to adjust the delivery pressure of the compressor. This allows the amount of foam produced per time unit to be regulated in a range between 2 kg/min and 6 kg/min.
- Using the supplied adapter with GEKA coupling (11), the foam produced can be fed into a hose or foam lance if required. To do this, unscrew the end piece (10) at the foam outlet and replace it with the adapter (11).
- The supplied funnel is used to top up the water/foaming agent mixture during operation via the tank feed-through (9) in the container lid (2).

## Finishing the foam preparation

- To temporarily interrupt the operation, operate the foam valve (5) at the inlet of the foam pipe.
- After finishing work, **first cut off the compressed air supply** by closing the air outlet valve on the compressor and removing the compressed air hose, then open the foam valve (5) to let the remaining pressure escape from the unit. It takes about 30 seconds for the pressure to escape completely.
- **⚠ ATTENTION:** Never loosen the connectors of the connection hose (3) while the unit is under pressure.
- After the remaining pressure has escaped from the appliance, all components can be dismantled and cleaned.

## Cleaning

- To ensure a fine-pored and stable foam quality in the long run, we recommend rinsing the unit thoroughly with water at the end of each working day. To do this, the

unit is put into operation as described above, but the container is only filled with pure water. A rinsing time of approx. 30 seconds is usually sufficient.

- The liquid container should also be rinsed with clean water.
- If a protein-based foaming agent has been used, it is recommended to add a detergent containing proteases to the rinse water. A commercially available liquid laundry detergent (approx. 50 ml per 10 litres of water) is suitable for this purpose.

## Safety instructions

- ⚠ Read these instructions carefully and keep them for future use.
- ⚠ Only use the unit for the work listed in the "Intended use" section.
- ⚠ Before each use, carefully check all protective devices for proper intended function and only operate the unit with complete and undamaged protective devices.
- ⚠ Before each use, check that the moving parts function properly and are not jammed and that no parts are missing, damaged or incorrectly fitted.
- ⚠ Replace defective, damaged or worn parts immediately with original spare parts.
- ⚠ Damaged and illegible safety labels must be replaced.
- ⚠ Do not use any non-recommended accessories.
- ⚠ Do not make any unauthorised modifications to the unit or parts of the unit.
- ⚠ The unit may only be equipped, used and maintained by persons who are familiar with it and have been informed about the dangers.
- ⚠ Maintenance work as well as repair and replacement of damaged protective devices may only be carried out by a recognised specialist workshop, unless otherwise stated in the operating instructions.
- ⚠ Keep the unit disconnected from the compressed air supply while it is being cleaned, maintained or repaired.
- ⚠ The unit may only be set up and operated on firm, level and non-tipping ground.
- ⚠ Keep the stand free from tripping hazards.
- ⚠ Do not leave the appliance unattended during operation.
- ⚠ Keep children away from the unit.
- ⚠ Observe the local accident prevention regulations and safety regulations in the working area.
- ⚠ Store unused equipment in a dry, locked place out of the reach of children.

## Residual risks

Even if the unit is used as intended, there may still be residual risks despite compliance with all relevant safety regulations. They can be minimised if the operating instructions, the safety instructions and the intended use are observed.

## Maintenance

Your foam generator is largely maintenance-free. Nevertheless, observe the following points to maintain the value of the unit for a long time.

- Check the unit regularly for wear and functional defects and replace worn or damaged parts. During such inspections, pay particular attention to moving parts, screw connections and protective devices.

- The unit must be disconnected from the compressed air supply when repair work is required. It must not be put into operation during repair.
- Protective devices removed for repair must be properly refitted.
- Only unmodified original spare parts may be used.

### **Technical data**

Air requirement	90 to 350 l/min
Foam output	40 to 120 l/min
Maximum filling quantity	55 l
Minimum filling quantity	5 l
Weight approx.	6.5 kg
Dimensions LxWxH	40 cm x 40 cm x 65 cm

### **Warranty**

Backstein Engineering GmbH grants a warranty of 24 months from the date of purchase on this device. Please keep the proof of purchase in order to be able to make warranty claims.

Parts subject to wear and tear and damage due to improper use (see section "Intended use") are excluded from the warranty.

During the warranty period, defects due to material and manufacturing faults will be repaired free of charge or the unit will be replaced. In the event of a warranty claim, the term of the original warranty will not be extended.

In the event of a warranty claim, please return the unit together with a copy of the proof of purchase to the address given on the last page of this brochure.

In the event of unauthorised intervention by a third party, the warranty claims will expire.

## Troubleshooting

<b>Malfunction</b>	<b>What to do?</b>
No foam	No or too little compressed air <ul style="list-style-type: none"><li>• Check compressed air supply</li><li>• Check connection lines for damage</li><li>• Open compressed air valve on compressor</li><li>• Turn up the pressure reducer further</li></ul> Foam line blocked <ul style="list-style-type: none"><li>• Open foam valve</li><li>• Check connection hose for kinks</li></ul>
Foam disintegrates too quickly	Unit contaminated <ul style="list-style-type: none"><li>• Clean the unit</li></ul> Compressed air not oil-free <ul style="list-style-type: none"><li>• Ensure oil-free compressed air</li></ul> Foaming agent spoiled or unsuitable <ul style="list-style-type: none"><li>• Fill unit with fresh water and foaming agent</li><li>• Use a different foaming agent</li></ul>

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