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### Application areas:

- Production of foam concrete
- Production of light levelling mortar
- Production of foam concrete screed
- Production of mineral insulation
- Production mineral foam
- Laboratory use / implementation of construction material use
- Production of foam concrete stones
- cavity filling

### Technical Data / Performance Data <sup>1)</sup>

Mixing capacity <sup>1,2)</sup>	1,2 – 2,4 = 20 – 40	m <sup>3</sup> /h l/min	adjustable
Mixing components <sup>1)</sup>	2K + 1	2 slurries + 1 templat foam	
Density wet <sup>1,2)</sup>	approx. 40 - 850	kg/m <sup>3</sup>	adjustable
reachable exactness <sup>1)</sup> (density wet / Mixing capacity)	± 5,0	%	
Dry density <sup>1,3)</sup>	approx. 40 - 850	kg/m <sup>3</sup>	Display calculated value
Foam output – generator <sup>1,2)</sup>	8 - 40	l/min	
Foam density <sup>1,2)</sup>	20 - 100	kg/m <sup>3</sup>	adjustable
Proportion foam agent	0 – 100	%	manual addition
Volume dosing tank for foamed water / foaming agent	0 - 12	l	
Dosing capacity foamed water / foaming agent	0,4 – 3,2	l/min	
Required amount of air	40	nl/min at 4 bar	Dry, oil-free air
Connection compressed air	NW 7,2	plug DIN EN ISO 228-1	pressure: > 6,0 bar < 10 bar
Pressure connection concreting hose	1"	round internal thread	
Power connection	16 A,	CEE-plug 5-pole with phase converter	
Power input	approx. 3,0	kW	
Voltage	400	V; 50 Hz	
Dimensions approx.	1,9 x 1,8 x 0,85	m	
Weight	approx. 250	kg	

<sup>1)</sup>The stated values are non-binding guide values. Depending on the material properties of the mixture components, difference of the density (mixing components) and the rheological properties of the mixed product, the results may differ significantly from the standard values.

<sup>2)</sup>The specified maximum mixing power range is not available over the entire range of density.

<sup>3)</sup>The stated dry bulk densities depend on the starting materials and their water binding, the formulation, the processing, as well as the drying and can differ considerably.

### Description:

The Foamed Concrete - Lab mixer SBL-2K is a compact foamed concrete mixer for the manufacture of mineral foam and foamed concrete. In a closed system, a fine-pored foam is made from water, foaming agent mixture and air. Immediately following, the foam is mixed with the binder suspension in a subsequent special speed controlled foamed concrete mixer. The Foamed Concrete – Lab mixer SBL prevents the ingress of foreign air into the mixture during the mixing process and ingeniously exploits the large density differences between the foam and the building material suspension during the mixing process. This unique mixing principle makes it possible to produce ultralight to medium-weight foam concretes in an impressive quality, reproducibly and continuously. A specially developed measurement and control concept enables the mineral foam or rather foam concrete to be calculated predictably and precisely.

**The mixing of the slurry (e.g., cement paste) is not part of the foamed concrete mixer SBL. GERTEC offers special suspension mixers for this purpose.**

### Features:

- ✓ **Dosing tank 12 l** for foam water / foaming agent mixture in stainless steel incl. optical filling level indicator, tank with tank lid and forced ventilation.  
Container outlet DN 32 with butterfly valve.
- ✓ **Dosing device** for foam water / foaming agent mixture incl. inductive flow meter, electrical control valve, electrical shut-off valve.
- ✓ **Compressed air distribution** (foam generator + dosing tank) incl. 2 pieces pressure control valve and optical pressure display, compressed air membrane dryer.
- ✓ **Compressed air dosage** incl. mass flow meter, electrical control valve and electrical shut-off valve.
- ✓ **Foam generation** by DN 15 foam generator or alternatively by DN 25 foam generator, incl. pressure gauge 0-10 bar; manually repluggable.
- ✓ **Foamed concrete mixer** speed controllable.
- ✓ **Movable steel profile frame** with 2 swivel castors and 2 lockable castors, suitable seats for forklift and pallet truck handling.
- ✓ **Tubing** of the components in the required pressure stage.
- ✓ **Electrical function and power control** with touch panel incl. plant visualization, plant monitoring, recipe management, Statistics, service and operating parameters;  
Setpoint control for foamed water (water/foaming agent mixture), air, slurry1, slurry2, speed of foamed concrete mixer
- ✓ **Grouting hose DN 25** (2 m) one-side with outlet pipe.

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Technical specifications are  
subject to change

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