

TECHNICAL DATA SHEET

version 05.2011

Foam Generator FG 4 II IND page 1/3

1. Product Specification

Trade Name: **Foam Generator FG 4 II IND (Industrial version)**



Company: **Dr. Lucà & Partner Ingenieurkontor GmbH**
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World Wide Unique foaming system

The Foam Generator FG 4 II IND is a ready to use foaming system with integrated air system. No additional requirements are necessary to run this system.

The machine is working fully automatic, therefore no manual dilution of water and foaming agent is necessary and the foam can be produced continuously. The whole system is running at a low air pressure (100-200 mbar) and is producing a very strong foam bubble membrane. The system is developed by Dr. Lucà & Partner for the worldwide unique advanced foaming agent brand **LithoFoam®**.

The Foam Generator FG 4 II IND is equipped also with a PLC from Siemens. This is enabling the easy adaption into existing and new concrete batching plants or ready-mix plants.

An automatic cleaning system is also part of the machine. Thus the cleaning of the system takes place at the touch of a button, avoiding troublesome manual cleaning.

The foam density can be adjusted precisely by 1 g/l.



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2. Advantages at a glance

- Worldwide unique foam stability due to low pressure foaming system
- Very precise foam density adjustment
- Very precise foam stability adjustment
- Complete mobile system, low weight
- Very fine foam bubbles
- Low energy consumption
- Automatic cleaning system with hot water, easy maintenance
- Easy and cost effective integration in concrete batching plants / ready-mix plants possible due to Siemens PLC
- No premix of water and foaming agent necessary
- Continuous foam production

3. Components / Technical Data

Dimensions	835 mm x 400 mm x 1500 mm
Weight	approx. 140 kg
Foam Output	400-600 l/min

Low pressure air system

kW:	1.85
V:	400
Kg:	24

Water pump

kW:	1.5
V:	400
Kg:	13.2
r.p.m.	2800

Foaming agent pump

V:	12/24
A:	7.5
Kg:	1.2

Foam Pipe

External Diameter, average:	90 mm
External diameter, exit:	75 mm

Automatic Cleaning System

Water Pump

V:	12/24
A:	7.5
Kg:	1.2

Heating System

kW:	6.5
Maximum temperature:	60 °C





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Further equipment

The system is ready to use. To run the system only two further vessels one for foaming agent (approx. 10 litres) and another one for water (approx. 100 litres) are necessary.

4. Optional Accessories

Tempered foaming agent dosage

For countries with lower temperatures it is recommended to acquire in addition from Dr. Lucà & Partner Ingenieurkontor GmbH a dosage vessel with integrated temperature control for the foaming agent as the optimum dosage temperature and foaming effect takes place at around 20 °C.

Pressure compensation for water dosage

Whenever very precise foam densities are necessary it is recommended to acquire in addition from Dr. Lucà & Partner Ingenieurkontor GmbH a dosage vessel for water with integrated pressure compensation.

5. Application

The Foam generator FG 4 II IND is exclusively made for the production of foams based on **LithoFoam®** foaming agents by Dr. Lucà & Partner Ingenieurkontor GmbH

6. Foam quality

The foam density and foam stability can be adjusted very precisely through the change of the foaming agent flow rate as well as the water flow rate.

Besides the standard settings the effective achievable values depend on the specific machine set up (length of foam hose, etc.) and will be provided through the certificate of quality for each respective machine.

The information contained in this product specification is based on our current state of knowledge and experience. It does not free the user from making his own tests and trial applications. A legally binding assurance of certain properties cannot be inferred from this information. Any existing patent rights as well as any pertinent legal regulations must be observed by the recipient of our products under his own responsibility.



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