



Section 1: Product Specification

1.1. Trade name

LithoPore® Station

1.2. Manufacturer

Luca Industries International GmbH

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LithoPore® Station is an all-in-one machine, that can be either used as a mobile or stationary foamed concrete production unit. The machine consists out of a 1000 liter mixer, an integrated foam generator FG 4 II IND as well as a LithoPore® Pump 1200. All components are driven by a PLC from Siemens.

The industrial foam generator FG 4 II IND is equipped with the worldwide unique low pressure air system. The foam quality is unique and can be programmed fully automatic.

The LithoPore® Mixer 1000 is equipped with special mixing devices by Luca Industries International to avoid any shearing forces while mixing whereas ordinary planetary mixers for mortar can destroy the foam and are mostly leading to inconsistent wet densities of the end product. Furthermore, weighing cells are also integrated to enable a precise gravimetric dosage control of water, cement, aggregates, additives and foam.

LithoPore® Station is well suitable for middle and high scale production in a semiautomatic mode. It combines both, low investment with high output.

Section 2: Advantages at a glance

- Solid and compact structure
- Reduced weight and dimensions
- All-in-one Machine
- Easy maintenance
- Simple and fast cleaning
- Adjustable foam density



TECHNICAL DATA SHEET

LithoPore® Station

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Section 3: Technical data

Capacity:	1350 l
Mixing capacity:	1000 l
Drum diameter (Di):	1300 mm
Maximum grain size:	2 mm
Power:	16.0 kW, 400 V (50/60 Hz), three-phase + N
Dimensions:	1720 (length) x 1320 (width) x 1965 (height) mm
Weight:	870 kg
Mixing speed:	adjustable
Storing / operating temperature:	+5°C to +60°C
Foam output:	300-500 l/min
Transport distance pump:	horizontal 50 m, vertical 20 m
LithoPore® Capacity:	6.0-8.0 m ³ /h, in case of manual dosing: 3.0-5.0 m ³ /h

Section 4: Included accessories

water container 1000l containing 30 m hose (Ø 60 mm) with connections

dimensions:	1200 (length) x 1000 (width) x 1160 (height) mm
weight:	150 kg

stairway for manual dosing

dimensions:	1300 (length) x 800 (width) x 850 (height) mm
weight:	110 kg

power supply cable must be provided locally

Section 5: Application

LithoPore® Station is only suitable for intense wet mixtures of agents as cement, fine sand, fly ash, organic and inorganic fibers etc. for densities of up to **1400 kg/m³** (ready mixed material) with a maximum grain size of the raw materials less than 2 mm.

Section 6: Optional Accessories

Tempered foaming agent dosing

For countries with lower temperatures it is recommended to acquire in addition from Luca Industries International 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 dosing

Whenever very precise foam densities are necessary it is recommended to acquire in addition Luca Industries International GmbH a dosage vessel for water with integrated pressure compensation.



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Section 7: Foaming system FG4 II IND

Dimensions: 835 mm x 400 mm x 1500 mm
Weight: approx. 140 kg
Foam Output: 300-500 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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