



. Manufacturer Information

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FG Foam Generator (Cement Foaming Machine)

1. Product Overview

FG series foam generator is a mobile foam generator designed for producing stable foam used in foam concrete production.

The machine is cost-effective, reliable, and suitable for small and medium foam concrete producers, contractors, and companies entering the foamed concrete industry for the first time.

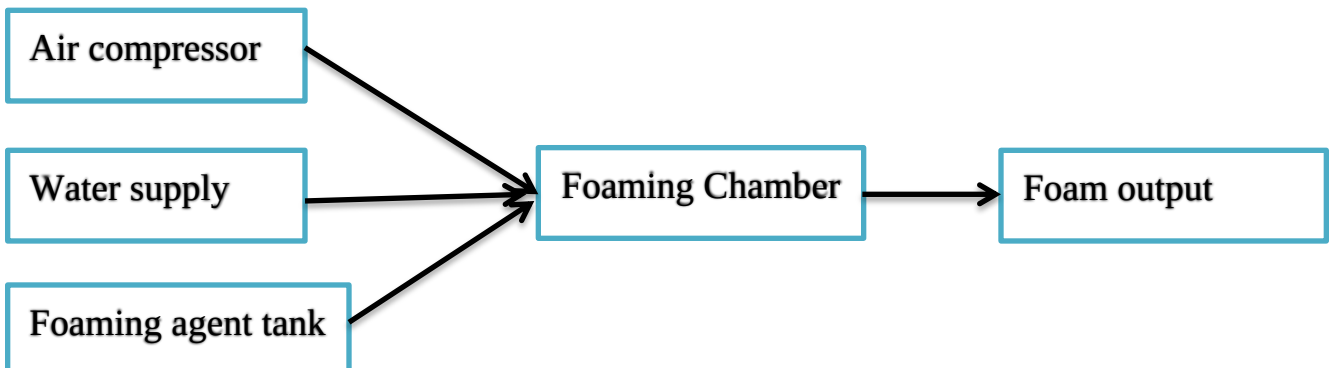
The equipment is designed for construction sites and mobile operations. It uses high-quality industrial components to ensure stable performance and long service life.

Key advantages:

- Compact and mobile design
- Stable foam generation
- Easy operation with timer control
- Remote control and manual operation modes
- Adjustable pressure and foaming agent flow for optimal foam quality

2. Working Principle /

The FG foam generator mixes compressed air, water, and foaming agent through a specially designed foaming chamber. Under controlled pressure and flow conditions, the system generates uniform and stable foam bubbles which are then mixed with cement slurry to produce foamed concrete.



3. Application Areas /

Foamed concrete produced with this system can be used in multiple construction fields:

Infrastructure:

- Void filling
- Road and pavement frost protection layers
- Bridge backfilling
- Pipeline protection and stabilization
- Dock and port filling
- Tank and pipeline filling systems

Buildings:

- Roof insulation filling
- toilet filling
- Attic filling
- Beam cavity filling
- Fireproof wall systems
- Partition walls
- Sub-base insulation for residential and industrial buildings
- Lightweight blocks and wall panels

4. Main Components /

- Brass liquid components – corrosion resistant and suitable for long-term liquid operation
- Precision air supply system – ensures continuous and stable air supply
- High-quality water supply system – capable of operating under harsh construction conditions

5. Technical Specifications /

Name/ Model:	FG-2	FG-5	FG-20	FG-30	FG-50
Maximum Output	2 m ³ /h	5m ³ /h	20m ³ /h	30m ³ /h	: 50 m ³ /h
Foam Density	80-120g/L	80-120 g/L	60-120 g/L	60-120 g/L	60-120 g/L
Foaming Ratio:	1:30	1:30	1:30	1:30	1:30
Maximum Pumping Height	2 m	2 m	5m/10	5m/10	10 m/20
Maximum Pumping Distance	5m	5m	10/20m	10/20m	20/30 m
Maximum Pump Pressure	0.4 MPa	0.4 MPa	0.8/1.2 MPa	0.8/1.2 MPa	0.8/1.2 MPa
Machine Size	30*40*50mm	30*40*50mm	600*500*550mm	600*500*550mm	700*500*600 mm
Air Compressor Flow	0.036 m ³ /min	0.09 m ³ /min	0.36m ³ /min	0.6m ³ /min	0.9 m ³ /min
Power	0.75Kw	0.9 Kw	3 Kw	4 Kw	5.5 Kw
Voltage	220V	220V	220V/380V	380V	380 V
Total Weight	30 kg	35kg	100kg	120kg	150 kg
Accessories: Standard	1 set	1 set	1 set	1 set	1 set

6.Foamed Concrete Production System Diagram

Foaming Machine



Foam Generator



Foam + Cement Slurry



Foamed Concrete

7.Foam Concrete Density Comparison Table

Density Grade (kg/m³)	Typical Applications & Key Properties
200-300	Ultra-Low Density: Primarily used for thermal insulation and non-load-bearing infill. Offers excellent thermal insulation properties. 12
400-500	Low Density: Balances strength and insulation. Suitable for non-load-bearing wall infill and certain insulation applications. 12
600-800	Medium Density: Provides improved load-bearing capacity. Suitable for low-rise building walls, floor leveling, and some structural applications. 12
900-1200	High Density: Offers higher compressive strength. Used in applications requiring greater structural performance, such as certain foundations, roadbed layers, and sports field bases.

8.Construction Site Images Page



9. Notes /

1. Due to continuous product improvement, specifications may change without prior notice.
2. Custom motor systems, voltage, or special configurations can be provided upon request.