Multicrete Foam Generators

Technical Data Sheet

For Use with Cellular Concrete

Equipment Description

Foam generators are commonly used in the production of cellular concrete and may be sized for any production rate, used within continuous/batch mixing systems.

All units included a calibrated foam nozzle with fixed foam discharge rates from 5 – 40 cfm (Cubic Feet Per Minute) depending on flow.

Pressure tank generating systems are optimal for operations where batching equipment is utilized. It is very cost effective when relatively small quantities of foam are required.

Pressure Tank Generator Features

- ASME Coded, Epoxy coated tanks (internally)
- Air metering and premix metering assembly system
- Premix metering assembly consisting of pickup tubes, strainers and a metering device
- Calibrated nozzles with nominal discharge rate of 5, 10, 20 or 40 cfm. With an included delivery hose.
- Manual controls, standard, AC or DC timer with solenoid valves (Available upon request)
- A complete owner/operator manual supplied with each unit delivery

Foam Generator Overview

With pressure tank generating systems, foam liquid concentrate and water are premixed in the tank. The solution is then discharged from the pressurized tank through the foam-making nozzle. No additional water pump is required. The process is completed by air pressure alone.

Pressure tanks are supplied in sizes ranging from 30 to 200-gallon capacity to accommodate the project size. When continuous operation is desired, two tanks of equal sizes may be coupled together in parallel, so one can be discharging foam while the other is being refilled without stopping production.

Calibrated foam nozzles with discharge rates from 5 to 40 cfm are available for both pressure tank systems and continuous generating systems.

Continuous Generating Systems

Continuous generating systems are optimal when used in conjunction concrete mixing and placing equipment, continuous foam delivery is desired, or the volumes of foam required are very large.

The Autofoam Generator (AFG) is compact and easy to transport. Specific Units can be designed to meet your necessary requirements.

The Autofoam Generator produces the highest quality, most stable preformed foam in the industry.

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Minimum Air Requirements

T30: 7 – 15 cfm at 80 psi

T80: 15 – 30 cfm at 100 psi

T200: 30 – 60 cfm at 110 psi

Average Foam Production Per Unit

Generator Model	Average Foam Production ($_3$)	
	Protein	Synthetic
T30	80	120
T80	213	320
T200	534	801
AFG	Continuous	Continuous

NOTES:

Protein Foam Density is 3.2 lb/ft^3

Synthetic Foam Density is 2.0 lb/ft^3

Our Autofoam Generator (AFG) automatically blends liquid foam concentrate with water and compressed air in fixed proportions. The AFG continuously siphons liquid foam concentrate directly from the concentrate's container. The liquid foam concentrate is metered and blended with water yielding a premixed solution with the proper concentration ratio to produce the desired density.

This solution is then pressurized and balanced with an air source (not included.) The air and the premixed solution are then metered through a nozzle, whose output can be varied by the Autofoam Generator (AFG.) The nozzle is designed to produce a fine micro-bubbled foam of a specific density and quantity.

NOTE: There is also a portable lab foam generator for producing accurate mix design results in the laboratory.

Safety

Autofoam Generators use pressure systems during operation. Please follow all safe operating procedures and follow all safe procedures while operating and maintaining this unit. Operator of the Autofoam Generators (AFG) must complete all checks to ensure condition of all electrical, water, air hydraulic and mechanical connection or components, ensuring operator safety and to prevent harm or damage.

Lock Out Procedure

The Autofoam Generators use several sources of energy when in operation. All sources of energy should be removed before working with the unit (this includes stored energy such as air trapped in hoses during plugged conditions.)

Personal Protective Equipment (PPE)

The Autofoam Generator and its use of a high-pressure system requires the use of proper protective equipment. Protective goggles, safety boots, breathing protection, ear protection, face protection and protective gloves are required.

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