

STEAM-FLO® STEAM GENERATORS FOR GREENHOUSES & NURSERIES



Soil Pasteurization with Steam

The Sioux Steam-Flo® is a portable steam generator designed for organically steaming soil in greenhouses and nurseries. It is also excellent for sterilizing potting soil, growing media, propagating substrate, indoor and outdoor ground beds for vegetables, flowers, and nursery stock as well as pots and flats.

While methyl bromide and other pesticides and herbicides continue to be phased out, growers need an effective alternative to control diseases, pathogens, nematodes, insects and weeds. Organically grown healthy, disease free and insect free plants produce higher yields of vegetables and flowers in less time, reaching the market sooner and are in high demand from organic consumers.

The Steam-Flo® produces 380-3,450 lbs. of steam per hour and produces quality steam in only minutes from a cold start. It is available stationary or portable and can be mounted on a highway rated trailer with 15" wheels. After initial start-up, steam is available continuously for unlimited time periods.

On average, a Sioux Steam-Flo® can sterilize a 5' x 50' bench in less than two hours and eliminates the need for chemicals. The Steam-Flo® increases crop returns by producing "clean" soil, free from pathogens. If extra heat is needed for short periods of time, the Steam-Flo® can easily be connected to a steam line for perimeter heat in hotbeds or plastic houses.

The Steam-Flo® is simple to operate and has single point electrical, water and fuel connections. Construction is heavy-duty. The Steam-Flo® is constructed of 1/4" plate steel with brass and black iron fittings. Safety features include steam pressure relief valve, redundant pressure controls, automatic water feeder, and redundant level switches. The Steam-Flo® is built to ASME code and is National Board Registered.



SIMPLE & SAFE OPERATION

Steam generators are easy to operate, can be fully operational in minutes, and are available as stationary or portable units. Steam generators use either diesel, natural gas, or propane as their fuel source, and require a garden hose water source and 115V electricity (230V for SF-100). The steam-generator is set up with a steam hose and steam sock to evenly distribute the steam into the soil. The steam sock is laid on top of the soil and covered with a heavy tarp. The edges of the tarp are weighted down with chain. Steam is then delivered to the soil through the steam sock. The soil should be heated to 180° Fahrenheit (82° Celsius) for a minimum of 30 minutes to remove harmful pathogens, weed seeds, nematodes, and contaminants. Once the soil has been sterilized and cooled, you are ready to plant.

“You betcha’ we’re excited to have our brand-new Sioux SF-20 steam generator! We started steaming our vegetable high tunnels over a year ago and quickly learned the benefits of steam – no weeds, no soil borne diseases and no cool season insects. Healthier crops and no weeding mean happy farm workers, farm owners and more profits. Thank you, Team Sioux!” Organic Farm - Maryland



What makes Sioux different?

Conservative Design

Sioux does not undersize components such as motors, pumps, burners, frames or engines, which is common elsewhere.

Proven Performance

Sioux machines are dependable in the field. Combining high quality components with over 80 years of custom manufacturing experience and extensive engineering design capabilities allows Sioux to provide the industrial workplace with the best equipment for continuous operation.

Simple Operation

Sioux machines are designed to be simple to install, operate, and maintain.

Safety

In addition to dependability and simple operation, operator safety is a top design consideration for all Sioux products.

A Well-Deserved Reputation—The Best

Sioux machines are constructed to provide long life and trouble-free service in the industrial workplace, and include standards features that are often considered options on competitive models. These features may initially cost a little more, but provide equipment that runs better, lasts longer, is safer to operate and over the life of the equipment, provides superior return on your investment.



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