

Product Info

SoilSaver 5



World leading technology for sterilization of growing media

Designed for sterilizing substrate

SoilSaver 5 is a mobile and energy efficient machine specially designed for sterilization of used substrate (growing media) such as peat, coir or stone wool. It utilizes steam to heat substrate to the required temperature and time duration. The machine is fully automatic and self-contained with options for online monitoring and reporting. The nominal capacity is 5 m³ per hour in a continuous operation.



Used substrate is treated as a waste stream

Millions of tons of peat, coir or rockwool are disposed off and treated as waste each year after cultivation. Without proper treatment, the used growing media has a high risk of biological contamination, diseases and reduced yield, risks the growers cannot take.



Re-use of substrate is economical, safe and sustainable

Material treated with SoilSaver will be free of seeds, weeds and soilborne diseases such as fungi, bacteria and nematodes. Extensive research has been carried out by SoilSteam and others to demonstrate the efficiency of this sterilization method. Numerous publications also show healthy growth and high yields in re-used substrate treated with steam. SoilSaver 5 is highly energy efficient. Depending on substrate structure and humidity, fuel consumption is typically in the order of 2 litre diesel or 20 KWh per m³ of used substrate, resulting in a treatment cost significantly below the cost of new substrate.

Advanced control system for easy operation and reporting

SoilSaver is equipped with an advanced control system for operation, online monitoring, control, logging and reporting. The machine runs automatically with pre-programmed sequences for start-up and shutdown. An external light shows machine status to the operator. Soil- and operational data are accessible online in real-time (option). The machine can also be monitored and controlled locally using a dedicated PAD connected via WiFi (option).



Key characteristics of SoilSaver 5

External dimensions and weights	
SoilSaver 5 base unit	8,1 m x 1,8 m x 3,1 m (LxWxH), weight 5.
SoilSaver Energy and Control Unit (ECU)	10 foot container, weight 3-5 t.
Feeding system	Depending on choice and requirements.
Capacity and consumption	
Capacity	5 m ³ used growing media per hour nominal capacity. Capacity, energy and water consumption depend on density and humidity of growing media.
Energy consumption electric version	50-200 kW/hour
Energy consumption diesel version	5-20 liter per hours
Water consumption	100-250 liter per hour
Required electricity supply	
Electric version	3 phases: 400 V – 320 A
Diesel version	3 phases: 400 V – 32 A

Delivered with a full choice of energy sources

SoilSaver can be run on electricity, diesel and propane depending on choice of the SoilSaver Energy and Control Unit (ECU).

Easy maintenance

SoilSaver service intervals will depend on growing media type and usage. Standard service interval is 500 hours or minimum yearly. The advanced diagnostic system installed will detect abnormalities and alert operator and SoilSteam (option). SoilSteam offer different Service Level Agreements to ensure safe and efficient operation of the machine.

Several options for feeding systems and conveyer belts

SoilSteam can deliver systems for feeding/hopper and conveyer belts both for upstream and downstream use. All belts are controlled by the ECU. Please contact us for further information.

Water treatment system

SoilSaver needs clean water with low level of minerals suitable for professional boiler systems. A standard water-softener system is recommended for the system (option). For water with high level of minerals additional water treatment or filtering systems may be required, please contact us for further information.

Pricing and options

#	Item	Description	Price (€)
SoilSaver 5 sterilization unit			
1a	Base unit	Complete processing unit with built in hopper (1 m3 capacity)	125.000
1b	Rail and access system	Access platform and safety rails for easy and safe access to built in hopper	15.000
Control and Energy Unit (ECU)			
2a	Container with control system	Complete system with electrical control system, electrical cabinet and operator panel	90.000
2b	Electric boiler system	Electric boiler system	17.000
2c	Diesel boiler system	Diesel boiler and burner system including internal diesel tank (300 liter)	30.000*
2d	Propane boiler system	Propane boiler and burner system including internal gas tank (500 liter)	<i>upon request</i>
2e	Standard Water treatment system	Water treatment system for feed water	5.000
Hopper and conveyer belts			
3a	Downstream lightweight conveyer belt	Conveyer belt 4 m length, lightweight version for easy transport and setup	12.000
3b	Downstream large conveyer belt	Robust conveyer belt 8 m length	25.000
3c	Upstream feeding system with large hopper	Hopper with 10m3 capacity and 8 m feeding belt	110.000
Monitoring and control options			
4a	Online monitoring and reporting	Connects SoilSaver to SoilSteam's online database for monitoring and reporting of operational data and preventive maintenance	20.000
4b	Remote control and monitor unit	Gives the operator the possibility to control and monitor SoilSaver from a PAD within Wifi Range of ECU (20-50 m range).	15.000

Pricing and technical details are based on preliminary data and may be changed.

*Note: * To-Be-Verified*



For further information please contact SoilSteam at post@soilsteam.com or phone +47 960 02 302 or use our contact form at <https://soilsteam.com/contact-us/>