



Plantsauna Brochure

The Plantsauna is a sustainable and cost-effective way to sterilize plant material.

PLANTSAUNA

The Plantsauna sterilizes plant material using precise temperature-controlled steam. The Plantsauna is a heat treatment used before planting to eradicate pests, diseases, and fungi.

Features and benefits

- Improved plant health
- Offers a solution for sterilizing plants without using chemicals
- Available in one-pallet size, it is possible to connect multiple Plantsaunas together
- Being flexible in the sterilization process

The Plantsauna treatment has been proven to significantly reduce or eradicate Strawberry Crown rot (*Phytophthora Cactorum*), Anthracnose (*Colletotrichum acutatum*), Powdery Mildew (*Podosphaera aphanis*), Verticillium wilt (*Verticillium dahlia*), Pestalotiopsis, Angular leaf spot (*Xanthomonas fragariae*), Grey Mold (*Botrytis Cinerea*), Strawberry mite / Cyclamen mites (*Tarsonemus Pallidus*). For more details we kindly refer you to our website.

Advantages



Improved Plant Health

The Plantsauna has been widely scientifically proven and commercially used to say that it is the most effective method to date for the eradication of pests, diseases, and fungi in plants before planting.



Plant Health Insurance

Plantsauna allows our customers to sterilize their plant material, which mostly comes from different nurseries. The treatment enables our customers to insure themselves that no pests, diseases, or fungi come with that plant material into their production. This way, widespread contamination can be prevented.



Flexibility

The Plantsauna enables our customers to have the sterilization process in their own hands, no need to consult an external company. Conveniently placed at your own production location.



Energy efficient

Because the Plantsauna is an isolated container, the sterilization process uses significantly less energy than an option like hot water treatment.



Sustainable

The Plantsauna enables our customers to use significantly fewer or no chemicals during production.

Installation & Service

We offer worldwide installation and service.

How does it work?

The Plantsauna uses a precise, controlled temperature regime. We utilize a combination of four unique technologies.

- Steam as an efficient energy carrier
- Innovative air circulation technology
- Temperature control technology
- Temperature shock proteins

The Plantsauna uses steam as an efficient energy carrier to transport heat into the plants. Because of our patented air circulation technology and precise temperature control, we ensure that all plants reach the desired temperature. In addition to this, these three technologies enable the plant to release a natural heat-resistant protein, which allows us to use higher temperatures for a prolonged time.

Application

- Soft fruit
 - Strawberry mother plants
 - Strawberry cuttings
 - Strawberry production plants
 - Raspberry long canes
 - Raspberry roots

We invite you to read about one of our customers' experiences in a case study on our website.





Data Sheet Plantsauna

General information

0	Description	Plantsauna single unit
1	Part number	PS-OP / PS-EP
2	Dimensions - external	2,10 x 1,80 x 2,55 (L x W x H in m)
3	Dimensions - internal	1,25 x 1,40 x 2,30 (L x W x H in m)
4	Dimensions - treatment room	1,25 x 1,40 x 2,25 (L x W x H in m)
5	Dimensions - technical room	0,70 x 1,60 x 2,55 (L x W x H in m)
6	Dimensions - door	1,40 x 2,25 (W x H in m)
7	Weight	890 kg
8	Protection rating	IP-55

Steam Supply

9	Part number	PS-OP - single unit / PS-OP - double unit		PS-EP - single unit / PS-EP - double unit	
10	Power requirement	400 V~(AC) 50 Hz		400 V~(AC) 50 Hz	
11	Water treatment system	Ion exchange method		Ion exchange method	
12	Site water requirements	minimal pressure: 3 bar, tap water		minimal pressure: 3 bar, tap water	
13	Part number	PS-OP - single unit	PS-OP - double unit	PS-EP - single unit	PS-EP - double unit
14	Power	18 KW	38 KW	18 KW	38 KW
15	Fuel / power supply	Diesel	Diesel	Electric	Electric
16	Site Power Requirements	400 V~(AC) 50 Hz, 3 x 16 amp, dedicated circuit	400 V~(AC) 50 Hz, 3 x 16 amp, dedicated circuit	400 V~(AC) 50 Hz, 3 x 50 amp, dedicated circuit	400 V~(AC) 50 Hz, 3 x 63 amp, dedicated circuit
17	Build type - steam supply	Separate unit	Separate unit	Separate unit	Separate unit
18	Dimensions - steam supply	2,00 x 1,10 x 2,70 (L x W x H in m)	2,00 x 1,10 x 2,70 (L x W x H in m)	2,00 x 1,10 x 2,70 (L x W x H in m)	2,00 x 1,10 x 2,70 (L x W x H in m)
19	Weight - steam supply	280 kg	390 kg	280 kg	390 kg
20	Capacity tank	100 L	100 L	n/a	n/a

Treatment information

21	Part number	PS-OP - single unit	PS-OP - double unit	PS-EP - single unit	PS-EP - double unit
22	Treatment time	6 - 8 Hours	6 - 8 Hours	6 - 8 Hours	6 - 8 Hours
23	Water usage	Max: 18 liters/hour	Max: 38 liter / hour	Max: 18 liters/hour	Max: 38 liter / hour
24	Power consumption	5 L Diesel / treatment	10 L Diesel / treatment	15-25 KW-h / treatment	30-50 KW-h / treatment
25	Temperature range	0 - 44 °C	0 - 44 °C	0 - 44 °C	0 - 44 °C

Practical Info

26	Part number	PS-OP / PS-EP - single unit	PS-OP / PS-EP - double unit
27	Max pallet dimensions	1,02 x 1,22 x 2,20 (L x W x H in m)	1,00 x 1,20 x 2,20 (L x W x H in m)
28	Capacity / treatment	One pallet	Two pallets
29	Suitable for pallet types	GMA (48"x40"), EUROPALLET, BLOCKPALLET	GMA (48"x40"), EUROPALLET, BLOCKPALLET

Additional Info

30	Alternative power supply	We do not offer the Plantsauna with different power supply as listed above.
31	Chimney - Diesel powered steam supply	For a diesel steam supply boiler a chimney needs to be mounted.



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