



FROST PROTECTION FROST GUARD

Instead of warming up the atmosphere, the FrostGuard uses phase transition to protect your orchards and vineyards. By controlling the ice forming and recuperating the energy that is liberated when vapour changes into ice, the FrostGuard provides excellent protection with a minimum input of energy.

The Frostguard was specially developed for fruit growers, grape growers and vegetable growers, to be used in greenhouses, plastic tunnels and small vineyards and orchards. But the FrostGuard is so flexible and easy to use that more and more growers buy it for larger areas, especially since the machines can be equipped with an Auto-Start System.

The first FrostGuards were sold in 2007 with the Revolution model being introduced in 2016. The FrostGuard Revolution is smaller and lighter than the previous model. It's completely closed with doors on all sides, which are insulated, along with the roof to prevent condensation and to reduce the noise.

The Revolution can be equipped with an Auto Start System so you only need to set the temperature at which the machine should start.

The FrostGuard has a gas burner and a powerful fan, driven by a petrol engine

that runs on propane gas. You just have to start the engine and adjust the temperature, and the FrostGuard does the rest. The outlet of the fan turns around 360° continuously, protecting an oval or round area. Machines can be spaced out in groups in relation to the shape and area to be protected.

S20 specifications:

- The S20 with the outlet just above the ground is ideal for orchards. It can also be used in some vineyards and some low crops.
- The capacity depends a lot on the density of the trees.
- It covers a surface between 0.7 and 1 hectare.
- The complete machine rotates constantly 360°.

The FrostGuard can also protect crops in places where no water is available, it can be used not only during radiation frost but also during wind frost, and a lot of growers also use the FrostGuard to improve fruit set.



The FrostGuard can be used almost everywhere and for several applications including, night frost protection in orchards for all kinds of fruit, in vineyards, in greenhouses and plastic tunnels, for strawberries, raspberries, flowers, vegetables, apples, pears, peaches, plums etc.

It can also be used to improve the fruit set in low temperatures during blossom. And to raise the temperature in plastic tunnels, to bring forward the first harvest date at the beginning of the season, or to pick later at the end of the season.

Advantages:

- Better fruit set.
- Better fruit quality.
- Investment can be spread over several years.
- At very low temperatures, it's still possible to get a complete protection by putting more machines closer together.
- After start up, works automatically.
- Can be used in greenhouses or plastic tunnels.
- Ideal for smaller plots but also for bigger plots.
- Easy to move, mobile, not a fixed installation.
- Easy to start up, easy to shut down.
- Can be equipped with an Auto Start System.

Technical Data	S20
Engine (runs on propane)	Greengear 14 HP mono-cylinder electrical starter
Bodywork	Completely closed
Maximum capacity	1 ha
Dimensions (LxWxH)	1200x775x1200
Weight without gas cylinders	325 kg
Average gas consumption	10.5 kg/h
Air distribution	machine rotates
Auto Start	Option
Wheels	No
Bottle holders	Possibility to mount 4 pcs
Transportable with gas bottles in the holders	Yes

Noise Level Db	Distance to the machine in meters
67.2	10
63.1	20
60.5	30
56.6	40
54.1	50
53.0	60
47.8	70
44.4	70m with engine stopped