Our new revolutionary FrostGuard: the REVOLUTION.

When Evolution becomes Revolution.

In 2008, we introduced the first model of the FrostGuard on the market. It was the first affordable and efficient frost protection system for smaller areas.

Four years later, in 2012, we presented the second generation of the FrostGuard with two complete new models: the GC20 and GC30; an important evolution and improvement.

The first generation of the FrostGuard.

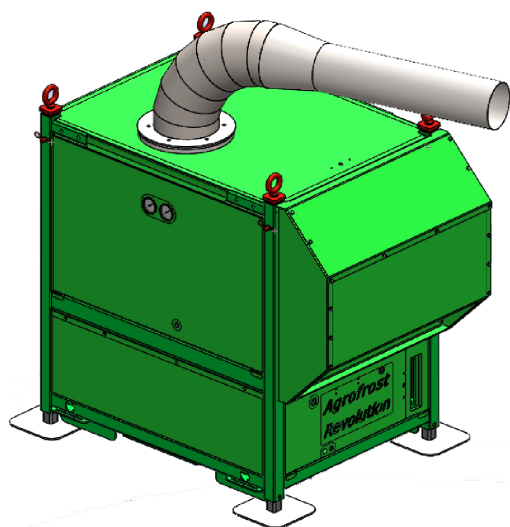The ForstGuard GC20 at work in an apple orchard, during full blossoming .

Again four years later, evolution becomes a revolution and we are very proud to present the next generation: **the Revolution**. Our goal whilst developing the new **Revolution** was to make the machine smaller, lighter and more economical than the former model. Because of the growing demand from wine areas like Champagne, Burgundy and Bordeaux, where the rows are very narrow, we developed a smaller machine. The new Revolution R30, with it's rotating outlet, is only 80 cm wide and therefore **perfect to be used in this type of vineyard**.

We also developed a complete **new and patented burner** which significantly **reduces the gas consumption** and **increases the working time** with several hours.

To meet all requirements of our customers, we also developed a third model: the R25. It rotates like the R20 but has the outlet 1 meter above the ground. This makes it ideal for lower crops like strawberries.

The "Revolution" R30, ideal for vineyards.

Once started manually, the Revolution works completely autonomously. Or in combination with the optional Auto Start System, it is fully automatic.

The **Revolution is the ideal solution** for almost any frost problem in orchards and vineyards.
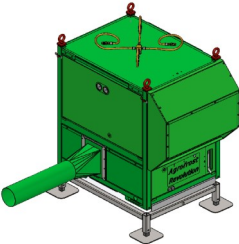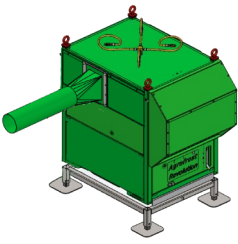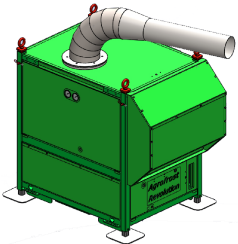
Safety and comfort features

- **Acoustic and visual alarm** if the temperature is too low or too high, so also when the machine runs out of gas.
- **Heat sensor** that stops the gas supply if the burner goes out.
- The **sound insulation** in the machine prevents condensation and is **fireproof**.
- If the outlet is not mounted, the engine will not start (R20 and R25).
- If the machine is still in blocked transport position, the engine will not start.
- Possibility to equip with an Auto Start System. This can also be mounted later as an option.
- Possibility to equip with wireless transmitter, connected to remote station. This can be used to start or stop the Revolution with a remote temperature sensor and to follow all data on a computer.

Three Models

Model	Revolution R20	Revolution R25	Revolution R30
Outlet	fix, 20 cm from the ground	fix, 100 cm from the ground	rotating, above the machine
Application	orchards, some vineyards, greenhouses	lower crops like strawberries	vineyards, greenhouses, high crops like raspberries
Protected area	between 0,7 and 1 ha	approx. 1 ha	approx. 1 ha
Air distribution	the machine rotates 360°	the machine rotates 360°	the outlet rotates 360°
Dimensions (LxWxH) in mm	1200 x 775 x 1200	1200 x 775 x 1200	1200 x 775 x 1550
Weight	325 kg	325 kg	325 kg
Gas consumption	10,5 kg/hour	10,5 kg/hour	10,5 kg/hour

The different setup possibilities of the Revolution

The Revolution can be used in several ways:
- with a support for the gas bottles besides the machine. (1)
- equipped with 4 gas bottle holders. The advantage of this new system is that the machine can be displaced with the gas bottles mounted in the bottle holders. (2)
- it's also possible to use a gas tank (approx. 500 kg per machine). (3)
- for large areas, the ideal solution is to connect the FrostGuards with large propane storage tanks through an underground pipeline network.
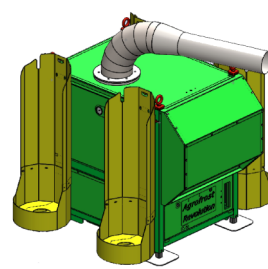

The old GC30 with a support besides the machine (1)

The old GC20 with a gas tank of 500 kg (3)
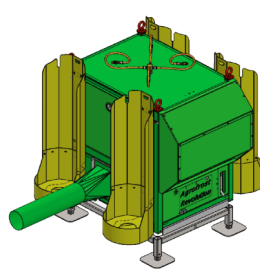
The new Revolution R20 with bottle holders (2)

The new Revolution R30 with bottle holders (2)

Auto Start - Remote Control

If you choose for the Auto Start System, each machine is equipped with temperature and humidity sensor. You can choose the wet temperature at which the Revolution has to start. A built-in clock will stop the machine at a chosen preset time in the morning.

In the near future, the Revolution can also be equipped with a wireless transmitter, connected to a remote station. This allows:

- to start the connected machines all together or one by one by means of a transmitted message from a computer.
- to stop all the connected machine by the remote station when a preset temperature is reached.
- to stop the connected machines all together or one by one by means of a transmitted message from a computer.
- to follow all data (like burner temperature, revs of engine etc.) of all the connected machines on a computer.