#### AGROFROST SA

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# Operating & Maintenance Instructions Frostbuster F252 - F152



# It's strictly forbidden to operate the Frostbuster if you haven't read this manual.

Year of construction: ..... Type: F252 Serial number: ....

This manual must be used according the European legislation. It must be considered as a part of the machine. The manual must be kept with the machine until the final dismantle as described in the European legislation. The purpose of this manual is to help use and maintain the Frostbuster safely.

The user manual must be kept by the owner or the user on a safe, dry and sun protected place on the working area. It must always be available to consult. When the manual is damaged, the user has to ask Agrofrost for a new one.

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# POINTS OF ATTENTION IN THIS MANUAL

Hint:	to give suggestions and advice to ease certain tasks
Attention:	a remark with extra information to call your attention for possible problems
Warning:	to call your attention for avoiding danger

# ABOUT THE USERS OF THE FROSTBUSTER

• Required user characteristics.

Persons who are allowed to drive a tractor by law and are familiar with the driving of a tractor may operate the Frostbuster. They have to be at least 18 years old and be able of all their physical and psychical capacities. They must read this manual before using the Frostbuster.



Someone who has not read this manual, cannot use the Frostbuster safely.

• The profile of the user.

The user manual is created for two main groups:

- The user / driver: the person who operates the Frostbuster
- The mechanical maintainer: the person who does the assembling, maintenance and repairs

They have to read this manual completely before using the Frostbuster are before doing any repairs or maintenance on the Frostbuster.

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# 1 Security

## **1.1 INTRODUCTION**

In this chapter, the Frostbusters most important safety aspects will be explained. It is essential that everybody who works with the Frostbuster goes through the contents of this chapter attentively.

The most important safety and health risks related to using the Frostbuster, are listed in paragraph 1.2. The Frostbusters safety equipment is described in paragraph 1.3. The safety precautions to be taken by the Frostbuster user come up in paragraphs 1.4 to 1.6, and the symbols found on the Frostbuster are clarified in paragraph 1.8.

## 1.2 THE USE IN CLOSED AREAS

It is not allowed to use the FrostGuard in a closed area, because of three reasons:

- 1. The burner consumes a lot of oxygen. So, the supply of fresh air is very important.
- 2. The engine of the tractor produces carbon monoxide, an odorless, colorless, poisonous gas. Breathing carbon monoxide can cause nausea, fainting or death.
- **3.** If gas would escape because of a gas leak, it would create life threatening situations in a closed area because of the danger of explosions.

## 1.3 SAFETY AND HEALTH RISKS

The following safety- and health risks related to using the Frostbuster, have to be given attention:

- Presence of a drive shaft
- Presence of a gas installation
- High temperatures around nozzle and exhausts
- Risk of explosion in closed space
- Uncontrolled use of the Frostbuster

The Frostbuster is designed to reduce these risks as much as possible. The safety equipment used to achieve this are listed in paragraph 1.4, the safety precautions to be observed are listed in paragraphs 1.5, 1.6, 1.7, 1.8, 1.9 and 1.10.

## **1.4 SAFETY EQUIPMENT**

To make the use of the Frostbuster as safe as possible, the following safety equipment is delivered with the machine:

- An electric valve is built in. This valve is controlled automatically by the built-in ionisation sensor. When it detects no flame in the burner, the valve will close.
- When the energy supply is cut off, the machine cannot function, because the electric gas valve will close.
- Various safety components are built in the gas installation. These have been inspected by an official inspection service.
- Risk of explosion has been averted completely by the safety components and the explicit ban on indoor use.
- Various lights on the control panels simplify the operation of the Frostbuster.
- All moving parts are screened completely, in order to avoid contact during normal operation.
- A fixed safety zone of 10 meters around the Frostbuster has to be observed: no other people but the user may be in that safety zone.

\*Covering the exhaust pipes isn't possible because these exhausts are needed for applying a air flow circulation. Because of this, it is possible a grown up puts his hand in the exhaust and is able to reach the blade wheel of the fan. We can only apply the necessary safety stickers to prevent such an act. Additionally, the user cannot allow any other persons in the safety zone of 30 meters around the machine. Thanks to this manual, he also has to be alerted extra for danger.

#### EXTRA WARNINGS: DO NOT PUT YOUR HANDS IN THE EXHAUST FAN



## 1.5 SAFETY PRECAUTIONS BEFORE USE

First read attentively the instructions in the manuals of both the Frostbuster and the tractor. The user has to be acquainted with operating the controls of both.

- The guards must all be in their place. The Frostbuster cannot be used, when one or more of the following guards are missing, loose, damaged or incomplete:
  - the complete drive shaft protection;
  - the guard on the PTO shaft;
  - the tightening belts has to be mounted always so the gas bottles cannot move.
- Furthermore, the following safety equipment must be present: the leak spray
- Check the gas connections for leaks.

## **1.6 SAFETY PRECAUTIONS DURING USE**

- Be extremely careful when there are obstructions blocking your view.
- When the machine is activated, make sure that nobody is within the safety zone, being 10 meters around the machine.
- If you need to leave the tractor for a moment due to unforeseen circumstances, lower the revs of the PTO to idle. The burner will stop. When starting again, raise the revs of the PTO again to 540 rev/min.
- Do not stop between the trees.

## 1.7 SAFETY PRECAUTIONS WHEN CHANGING THE GAS CYLINDERS

- Keep the ventilator running at low speed while you change the bottles.
- Close all the gas cylinders before removing them.
- After connecting the new cylinders, use the leak spray to check the connections for leaks.
- <u>USE OF THE MACHINE WHITOUT THE USE OF TIGHTENING BELT IS</u> <u>STRONGLY PROHIBITTED.</u>

## **1.8 SAFETY PRECAUTIONS WHEN ENDING OPERATION**

- Keep the ventilator running for **at least 3 minutes**.
- <u>Always close the gas bottles after use.</u>
- <u>Always close the manual valve on the back of the machine (see point 1.10)</u>

## **1.9 SAFETY ADVICE ON MAINTENANCE, REPAIRS AND STORAGE**

- The Frostbuster may not be stored with gas cylinders on it.
- Always use genuine spare parts. Using non genuine spare parts can enhance the chances of damage, even if they fit on the machine.
- Replace damaged warning and instruction stickers.
- Store the Frostbuster horizontally in a dry place
- All the flexible gas hoses have to be replaced every 5 years.

#### **1.10 MANUAL EMERGENCY STOP**

In case of an emergency, the RED EMERGENCY STOP on the control panel has to be pushed. This will stop the gas flow to the burner, so the burner will stop immediately. If this, for some reason, should not work, you must pull the cable with the red plastic grip on top of the machine. Doing so, the manual valve on the back of the machine will close and the gas supply will be stopped.



This manual valve should be closed all the time when the machine is not operational.



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# 2 Transport and Storage

#### 2.1.1 Transport

Make sure that the Frostbuster is connected to the tractor in the right way before you move it or start it.

#### 2.1.2 Storage

Because the moment the Frostbuster has to be used is never known a long time in advance, the Frostbuster has to be stored as if it were not used for a long time. Make sure that the Frostbuster is cleaned as described in chapter 6. Store the Frostbuster on a covered, dry place and preferably horizontally.



The gas cylinders have to be removed every time the machine is put away. The gas cylinders have to be stored outside, according to the prescriptions of the fire insurance company, while the Frostbuster has to be stored indoors.

## 3 Installation and Start-up.

## 3.1 INSTALLATION.

Mount all the pieces that are delivered separately. Make sure that you always use the straps to place the bottles into place. If there are not fixed properly, they can start turning around which may cause the breaking of the gas hoses.

## 3.2 FIRST USE

When the Frostbuster is coupled for the first time, the drive shaft has to get extra attention. Possibly, the accompanying drive shaft is too long or too short for the tractor – Frostbuster combination: the drive shaft still has to be well connected, when the machine is lifted (see the manual of the drive shaft). Should it be too short, it has to be replaced by a longer one. If there is not enough space for the drive shaft to move, the drive shaft has to be shortened. You can do this best by following carefully the instructions in the manual about disassembling and shortening the drive shaft

## 3.3 BOTTLE SAFETY BELTS

Each bottle must be secured with a safety belt, to avoid that the bottles start turning around and would block the propane hoses.

The picture below shows how the belts must be used.



## 3.4 PREVIOUS TO THE START PROCEDURE

- 1. Check if the tractor is completely in working order. In order to obtain optimal results, the tractor cannot be defective. That is why it is important for you to check if there are no clogged filters, that there is enough fuel in the tank, and that the PTO controls work properly.
- 2. Supply enough spare gas cylinders. Make sure that these are within easy reach, so changing them can be done as quickly as possible. Put the necessary tool out as well: a 28 mm open end spanner. (In some countries, the open end spanner maybe of a different size as 28 mm). Store the gas cylinders vertically.
- 3. Make sure that all gas hoses are connected to a bottle.
- 4. Attach the Frostbuster to the tractor in a correct way.
- 5. Check the gas connections with the leak spray and check the manual main valve at the back of the machine, which should be closed.
- 6. If the control box is not installed yet, it has to be put on the correct place, and the plug has to be connected to the tractor. The control box must always be in the direct view of the driver, within arm's reach and well fixed.
- 7. Press the red emergency switch.
- 8. Make sure that the PTO is ready. It has to be on, but the clutch still has to be in neutral.

#### 3.5 THE CONTROL PANEL

1 = Screen: shows information like temperature of the burner, speed of the fan, etc.

2 = Emergency Button: turn it to the right to put power on the control box; press it in case of an emergency to cut off the power and to close gas valves.

3 = Temperature control switch: to adjust the temperature. (= optional)

Information on the screen:

- RPM of fan
- Temperature of the burner
- Burner OFF or Burner OK
- Rpm OK



#### 3.6 THE PRESSURE REGULATORS

- 1. **First Pressure Regulator**: the pressure is set in the factory at 1.4 bar. This pressure must normally not be adjusted. Only at very low temperatures, it might be necessary to raise this pressure a bit
- 2. <u>Second Pressure Regulator</u>: preset in the factory: do not touch.
- 3. <u>Third Pressure Regulator:</u> is used to adjust the temperature of the burner.
- 4. <u>Electric valve</u>: is activated from the control box in the tractor's cabin.



5. <u>Manometer</u>: if the pressure on this big green manometer drops below 1.5 bar, the gas bottles need to be changed.

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## 3,7 START PROCEDURE

It is very important that the start procedure is done by just one person. Several persons working together to start up the machine can be dangerous.

- 1. Open <u>all</u> the gas cylinders.
- 2. Check the pressure on the big green manometer (5). It must be between 2 and 10 bar. The pressure on the last manometer must be 0.
- 3. Open the manual valve on the back of the machine.
- 4. After checking the minimum safety distance of 10 m around the machine for the presence of other people, get on the tractor. Start the tractor. Start the PTO and let it run for idle.
- 5. Turn the "STOP BUTTON (2)" to the right, to put power on the box. The screen will start to show information.
- 6. Turn the temperature control switch (3), if installed, to the left (MIN).
- 7. Raise the speed of the PTO to 540 rev/min. The burner will ignite automatically when the speed of the fan reaches a certain level. The RPM on the control box must be 2350-2450.
- 8. If the burner ignites, the temperature will raise.



- 9. The working pressure of the gas must be
  - regulated, with the pressure regulator (3 picture below) so that the temperature of 80° 85°C is reached.



10. You must constantly monitor the temperature. If the temperature exceeds 120 °C, you must push the emergency button (2) immediately to stop the burner. Let the PTO turn for a few minutes until the machine has cooled down, lower the gas pressure and start again from point 4. If the temperature exceeds 150 °C, an acoustic alarm will sound.

**11.** If the temperature remains stable for a few minutes, you can start driving through the orchard etc.

- 12. When the Frostbuster is operational, the speed of the ventilator must not be raised or lowered under any circumstances. This means that the drive shaft must run at stable pace. Every change will have an immediate effect on the temperature.12. If the speed of the for drame tee low, the human will stap.
- 13. If the speed of the fan drops too low, the burner will stop.
- 14. OPTIONAL TEMPERATURE CONTROL: If it's getting colder during the night, and the temperature is going down, you can adjust the temperature with the temperature control switch (3). Turn it slightly to the right to raise the temperature. Wait a few minutes for the result and adjust again if necessary.

15. OPTIONAL TEMPERATURE CONTROL: if your turn the temperature control switch completely to the left and the temperature is still too high, you have to lower the pressure on the pressure regulator (3); if your turn the temperature control switch completely to the right and the temperature is still too low, you have to raise the pressure on the pressure regulator (3).



16. If the pressure on the big green manometer (5) drops below 1.5 bar, the gas bottles are almost empty and they must be replaced immediately.

There is an emergency stop on the control panel next to the driver. If there is any doubt, this switch has to be pressed. All gas supply will then be cut off immediately.

When the Frostbuster is operational, the speed of the ventilator must not be raised or lowered under any circumstances. This means that the drive shaft must run at stable pace. Every change will have an immediate effect on the temperature.

When disconnecting the gas supply, for any reason, always keep the machine running for another 3 minutes in order to remove any amassed gas and to cool down the heat sensors of the electric valve. Only then other people may enter the safety zone.

When the Frostbuster is transported, the gas cylinders must be closed all the time.

A few more points of interest:



Start the drive shaft gradually.

- All safety precautions described in chapter 1 have to be observed.
- When the temperature on the control panel drops 20 degrees in a few minutes, and the pressure on the big green manometer drops below 1.5 bar, the gas cylinders will have to be replaced. In that case, the time schedule can be interrupted for a few minutes without possible damage to the plants. It is of course recommendable to keep the replacing time as short as possible, and below 10 minutes.

• Avoid changing the gas cylinders at sunrise; this is the coldest moment of the night and it's important that you are not standing still at that point. If you notice that you will have to change the gas cylinders at that time, stop at least 1 hour before sunrise and change the gas cylinders.

## 3.8 THE IDEAL CIRCUIT FOR THE F252

- a. The distance between the rows you drive through must be between 50 and 80 meters. **60 to 80 meters is ideal**.
- b. The air flow to the right of the machine (max. 50 m) is stronger than to the left of the machine (max. 40 m), in driving direction. Therefore, the distances between 2 passages should be adapted to this fact. If any doubt, please contact Agrofrost (info@agrofrost.be)
- c. If possible, drive not always through the same row, but take once the row at the left, once the main row, and next the row at the right, so you have three rows to drive through. This is better for the air distribution, will cause less drying of the flowers and will keep the soil in better condition. If the row distance is more than 4 meters, you can use 2 rows instead of 3.
- d. If possible, make two circuits that you drive alternately. This second circuit has to pass in the middle of first one, or at least 25 meters more to the left or right of the first circuit. Take a look at the example in the next page.
- e. The total distance of the circuit may not be longer than 1300 meters. If you drive two circuits, the total distance of the two must stay under 2600 meters.
- f. The driving speed has to be between 4 and 8 km/h and has to be chosen in a way that one circuit lasts between 7 and 10 minutes. 8 to 10 minutes is ideal. This is because the protection is partly caused by the fluctuations of the temperature. Examples:
  - i. Circuit = 1000 meters, speed = 6 km/H, time = 10 minutes
  - ii. Circuit = 800 meters, speed = 6 km/H, time = 7,5 minutes
  - iii. Circuit = 800 meters, speed = 5 km/H, time = 9,6 minutes
  - iv. Circuit = 1300 meters, speed = 8 km/H, time = 9.8 minutes
- g. Mark the rows where you want to drive through, so it will be easier to follow the circuit in the dark.
- **h.** Make a test drive with the machine, with the gas bottles mounted, the fan operating and with the burner NOT operating. This is important for two reasons: to check the time of the circuit (see point 1.f), and to check if the Frostbuster stays stable during the complete circuit.

To calculate the ideal circuit, please send an e-mail to the manufacturer, containing the Google Earth coordinates of your orchard/vineyard: <u>info@agrofrost.be</u> Give also following information:

- On a slope or not
- Distance between the rows
- Distance between the trees/plants in the row
- Kind of fruit
- For vines: distance between the ground and the lowest wire/buds (in spring)

## 3.9 THE IDEAL CIRCUIT FOR THE F152

Since the F152 only has 1 air outlet, the best solution is to drive around the plot, on the outside / outline. Please contact your dealer if you any doubts.

### **3.10 DURING OPERATION**

During operation the PTO's speed must not be raised or lowered. A change of speed will cause the temperature to rise or fall inversely proportional to the PTO's speed. Consequently, operation will be less efficient.

When the temperature on the control panel drops 20 degrees in a few minutes, and the pressure on the big green manometer (5) drops below 1.5 bar, the gas cylinders will have to be replaced. In that case, the time schedule can be interrupted for a few minutes without possible damage to the plants. It is of course recommendable to keep the replacing time as short as possible, and below 10 minutes.

#### **3.11 REPLACING THE GAS CYLINDERS**

- 1. Turn off the power to the Frostbuster by pressing the Red Emergency Button "2".
- 2. Close all the valves of the gas cylinders.
- 3. Let the PTO run idle while changing the gas cylinders.
- 4. Replace the empty gas cylinders.
- 5. Start up again, following the start procedure.

#### **3.12 ENDING THE OPERATION**

- Lower the speed of the PTO until the RPM reading on the control box is below 1400 tr/min. The burner stops.
- 2. Keep the machine running until the temperature reading on the control box is lower than 40 °C. Then switch of the PTO.
- 3. Press the RED EMERGENCY button (2) down.
- 4. Close all the valves of the gas tanks.
- 5. Close the manual valve on the backside of the machine.
- 6. Disconnect the gas tanks and store these outside.

## 4 When to start / stop – How does it work – Applications.

## 4.1 WHEN TO START AND TO STOP.

# In case of night frost, you must start operating before the wet temperature drops below 0° C.



The machine has to work for about 30 to 45 minutes before it will create a positive effect on the temperature and the humidity. As soon as the temperature outside the orchard is positive again, you can stop.

<u>Measuring the wet temperature if you do not have a frost alarm with wet sensor</u>: place a plastic foil of 1 square meter on the ground, on the lowest (and coldest) point in the orchard. Place the temperature sensor on the foil. Start as soon as the temperature indicates 0° C. <u>A good night frost alarm is necessary.</u>

## 4.2 HOW DOES IT WORK.

The working principle is, unlike all other frost protection systems, not based on raising the temperature above the critical values but on phase transition. Or in this case by controlling the forming of hoarfrost. Where our machines are used, we notice a significantly lower formation of hoarfrost. We all know that hoarfrost is the biggest enemy for the flowers and buds. But there is a way to use the enemy for protection.

The transformation of vapor into hoarfrost is called desublimation or deposition and liberates a lot of energy. This energy is transferred to its surroundings, in this case the surrounding air but above all into the leaves and flowers themselves. We know that it's precisely the hoarfrost that normally causes most damages. This is because the ice crystals extract energy and humidity from the flower. Without protection, the layer of hoarfrost will increase and finally cause damages by dehydration and undercooling.

But not with our system. Because we pass with a hot air stream, every 8 to 10 minutes, part of the ice evaporates (called sublimation) and the remaining ice gets energy from the passing air. The higher the humidity, the more energy that is transferred. After a few minutes, the air cools down again, the relative humidity increases and some new rime will be formed. This liberates again energy and gives again energy to the flowers. This allows us to create an optimal protection with only a fraction of the energy input that is needed by other systems.

## 4.3 DIFFERENT APPLICATIONS.

#### The Frostbuster can be used almost everywhere and for several applications:

- 1) For **frost protection** in orchards for all kind of fruits, in vineyards, in greenhouses and plastic tunnels, for strawberries, raspberries, flowers, vegetables, apples, pears, peaches, plums etc.
- 2) To improve the fruit set in low temperature during blossom.
- 3) To **raise the temperature** in plastic tunnels, to bring forward the first harvest date in the beginning of the season, or to pick later at the end of the season

# 5 Maintenance – Cleaning

## 5.1 BURNER.

The burner does not require any maintenance.

## 5.2 GAS HOSES

The gas hoses have to be replaced every 5 years.

## 5.3 FAN AND TRANSMISSION.

The maintenance of the Frostbuster is very simple: you only have to pay attention to the following points:

- The drive shaft has to be greased as prescribed in the manual that is delivered with the drive shaft.
- After 200 working hours, or every year in case less than 200 working hours are performed, the oil of the gearbox has to be changed. Type of oil: 80W90.
- If the Frostbuster is not stored on a dry place, it is recommended to inspect the inside of the machine in the third or fourth season. The glass wool could absorb water from the air and hold it, causing the perforated plate to rust. When this occurs for a long time, the machine could blow out pieces of the perforated plate.

## 5.4 CLEANING

There are no specific rules for cleaning the Frostbuster. In normal conditions, the functioning of the Frostbuster will not be obstructed by dirt or impurities. Of course, a touch-up is always useful for the Frostbuster. The best time is right before use after a long time.

Do not use a high-pressure cleaner on the outside nor the inside of the fan. The insulation in the interior of the fan might get wet. Never clean the inside of the fan with water.

# 6 Explanation pictograms



# 7 Warranty - Scrapping – Spare parts list.

## 7.1 WARRANTY.

The warranty covers the parts that are defective from the start, and that are produced by AGROFROST. This warranty expires when it is a matter of normal wear, when a malfunction is caused by incorrect operation or maintenance of the machine, in case the user has not observed the instructions in the manual, or when non genuine parts, not produced by AGROFROST are used. We do not accept complaints about changes that will be introduced in the future, in order to improve the machine.

It is important that the document, called "INSTALLATION PROCEDURE" is filled up and send back to the address of the manufacturer:

AGROFROST NV Kunstlaan 56 1000 Brussels - BELGIUM

If this document is not send back, the manufacturer reserves the right to cancel any warranty.

## 7.2 SCRAPPING.

The following table gives an overview of the correct way of disposal of the different parts, in case the Frostbuster has to be dismantled.

Part	Way of disposal
Bearings	scrap
Oil from the gearbox	chemical waste
Synthetic guard on the PTO shaft	container for synthetic material
Frame	scrap
Screws, bolts, washers	scrap
Gaskets	container for synthetic material
Insulation	container for synthetic material

## 7.3 SPARE PARTS LIST.

If you need a spare parts list, you can ask for it at the manufacturer. Send an e-mail to: <u>info@agrofrost.be</u> !!

## 8 EC Declaration of Conformity.

#### **EC Declaration of Conformity.**

# We declare under our own responsibility that the machine complies with the safety and health requirements established by the European Directive 2006/42/EG.

EN standard codes: BS EN 1672-2:2005+A1:2009 ; BS EN ISO 14123-2:2015 ; BS EN ISO 12100:2010 ; BS EN 1005-1:2001+A1:2008 ; EN 894-1:1997+A1:2008 ; BS EN 1037:1995+A1:2008 ; BS EN ISO 13857:2008 ; BS EN 60204-1:2006+A1:2009 ; BS EN ISO 13850:2006 ; BS EN ISO 13850:2015 ; BS EN 61310-1:2008 ; BS EN ISO 14119:2013 ; BS EN ISO 13732-1:2006

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Machine	: Frostbuster Type
Serial number	:
Production date	:
Year in which CE mark was affixed	:

Signature:

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