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## ORIGINAL INSTRUCTIONS

For the use of a battery-powered back sprayer type

GARDEN PRO and SPRINGER PRO

Dear customers, we thank you for the trust you have placed in us by purchasing our sprayers. Every sprayer manufactured by us is carefully designed, tested and subject to strict quality control.

However, the service life of the sprayer will largely depend on the use and maintenance of the sprayer.

Also, your safety and the safety of your environment depend on the way you use and handle the sprayer.

Therefore, please study carefully and get acquainted in detail with the contents of this manual, and make sure to FULLY COMPLY WITH THE RECOMMENDATIONS AND WARNINGS listed in the instructions.

This manual applies to the cordless battery back sprayer manufactured by POLINS DOO for the sprayer model:

GARDEN PRO 12 art: 4018

GARDEN PRO 16 art: 4019

GARDENPRO 12M art: 4018M

GARDEN PRO 16M art: 4019M

SPRINGER PRO 12 art: 4204

SPRINGER PRO 16 art: 4205

Please keep this manual for future reference.

Please pay special attention to the parts of the instruction marked with this sign:

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## 1. INTENDED USE

Sprayers type GARDEN PRO and SPRINGER PRO can ONLY be used for water-soluble agents intended for plant care: herbicides, insecticides, fungicides and plants nutrition products.

Be advised that the sprayer is not intended for use by children, persons with reduced psychophysical, sensory and intellectual abilities.

When handling the sprayer, be sure to follow the INSTRUCTIONS, PROTECTION MEASURES AND ENVIRONMENTAL PROTECTION MEASURES.

The sprayer user is solely responsible for the consequences of improper use of the sprayer.

## 2. CONTENTS OF THE PACKAGE

1. Sprayer tank, with pump, carrying strap and sprayer hose with mounted handle (for GARDEN \*M type sprayer with mounted air gauge on the handle)
2. Sprayer extension
3. Push lever
4. Instruction manual.

## 3. SPRAYER DESCRIPTION AND TECHNICAL INFORMATION

The GARDEN PRO and SPRINGER PRO sprayers are lever-operated sprayers which function in such a way that the pump is operated by hand, via lever, pumping the liquid from the container into the pressurized pressure chamber. The compressed air above the liquid in the pressure chamber, suppressed the liquid into the hose, from where it's directed through the handle and the extension to the treated surface.

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The technical data for the sprayer is listed in the table below:

Technical characteristics of the sprayer:	Sprayer model
useful container volume	
working pressure	
sprayer capacity	
nozzle diameter	
working temperature	5 to 35
nozzle material	brass

## 4. ASSEMBLING THE SPRAYER

The sprayers are shipped packed in a cardboard box, partially disassembled, as described in Chapter 2 of this manual. Before first use it is necessary to:

1. Unpack the box and remove the parts from the box.
2. Pull the fuses out of the supplied push lever. Place one end of the push lever into the piston hole and the other into the opening of the drive lever. Then place the fuses back into the openings at the ends of the push lever.

3. Place the extension on the handle and screw them together.

## 5. USING THE SPRAYER

1. Unscrew the sprayer cover.

2. Once you've placed the sprayer on a firm and stable surface, pour liquid with dissolved agent you're applying into the sprayer. Pour the liquid through the sieve at the nozzle opening.

3. The liquid prepared for pouring into the sprayer must not contain solid residues of the applied agent or of another origin, so as not to clog the channels of the sprayer.

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4. Do not use adhesives that are sticky or that harden in the sprayer so as not to interfere with the function of the sprayer.

5. Close the sprayer tank by screwing on the sprayer cap.

6. Place the sprayer on your back using the carrying straps.

7. Use the push lever to establish working pressure in the sprayer pressure container by pumping. Pump as needed to maintain working pressure.

8. Use the attachment handle to control and direct the device. The length of the attachment can be adjusted for sprayers with telescopic extensions by loosening the nut and extracting-inserting the extension tube; the width of the jet can be adjusted by turning the nut on top of the nozzle.

9. When you finish using the sprayer, remove it from your shoulders and empty the tank in a separate container. Place the sprayer back on your shoulders, establish working pressure and let the liquid release directing it into the emptying container until air flows from the sprayer with no liquid drops.

10. Fill the sprayer with 2-3 liters of clean water, close it and shake it. Place it on your shoulders, establish pressure and spray for 60 seconds to clean out the channels. Repeat the instructions from point 9. Wash the outside of the sprayer.

## 7. SAFETY INSTRUCTIONS

1. Do not use the sprayer for purposes other than plant care.

2. Do not pour liquid into the container over the last quantity mark.

3. Use only water-soluble plant care products.

4. Do not use: acids, alkalis, oils, paints, adhesives, liquids, fuels, thinners and the like.
5. Do not use the sprayer if the temperature of the liquid or the environment is lower than 5 OC (close to freezing point) or higher than 35OC (warmer than hands).
6. When establishing working pressure (pumping), check whether you have reached the pressure that gives the jet appearance of fog by briefly opening the switch. When you achieve such a jet shape, stop pumping.

If you have a sprayer with mounted air gauge, use it to control the pressure. Do not let the pressure to go over 3 bars.

### **MAX 3 BARS**

7. Do not establish pressure in the sprayer in any other way besides pumping using the built - in pump by hand (such as : pumps that are not the original part of the sprayer, compressors, water supply networks, pressure washers, pressure washers from another pressure vessel and the like).
8. Do not transport or store a pre-filled sprayer or sprayer under pressure.
9. Do not repair the sprayer with parts that are not on the original list spare parts or using parts from other manufacturers.
10. Do not make any modifications to the sprayer.
11. Do not store the sprayer in areas where the freezing of the liquid in the spray channels or in the spray tank can occur.
12. In the event that liquid remains in the sprayer and freezes, this sprayer should no longer be used.
13. Never open a sprayer under pressure, follow the instructions under points 9 and 10 in the chapter USING THE SPRAYER.

### **7. PROTECTIVE MEASURES WHEN WORKING WITH THE SPRAYER**

Agents used for plant care are usually harmful to health; therefore, it is necessary to adhere to the following measures when using the sprayer:

1. Be sure to read and follow the manufacturer's recommendations listed on the packaging or in the instructions for the product that you are using.
2. To avoid the possibility of injury, handle the sprayer carefully; carry it only by holding on to the built-in handrail and the carrying strap taking care not to drop it.
3. With the sprayer mounted on your shoulders, do not tilt more than 45°.

4. Make sure to wear protective equipment (protective goggles, gloves, protective suit and protective footwear).
5. Do not apply agents if it is very cold, very hot or if a strong wind is blowing.
6. Do not consume food and drinks or smoke while using the sprayer.
7. Prior to any action of inspection, adjustment or maintenance of the sprayer, make sure you've taken all measures as listed in the chapter USING THE SPRAYER. If you haven't, carry them out, and then proceed with the planned action.
8. After any contact with the sprayer, wash your face, face and hands and be sure to change your clothes.

#### 8. ENVIRONMENTAL PROTECTION MEASURES

1. Make sure to follow the manufacturer's instructions for product concentration, quantity and time of application, storage and procedure with the remaining product.
2. Prepare only the amount of product you intend to use, place the sprayer upright on a stable surface and fill carefully. Then close the container tightly.
3. Limit the application of product only to the areas for which it is intended and do not allow product to disperse to or near watercourses, public areas, places of residence.
4. When applying agents, move away others persons, animals and technical product from the place you are treating.
5. Dispose of the liquid leftover from use, maintenance, rinsing and washing of the sprayer in accordance with the manufacturer's instructions.
6. Dispose of the remaining packaging of the product in accordance with the manufacturer's instructions.
7. Do not store or transport the sprayer filled with prepared agent and which has not been handled in accordance with the instructions listed in the chapter USING THE SPRAYER.
8. Do not dispose of an expired sprayer and parts remaining after the replacement of worn out parts in the environment or in municipal waste, but rather hand them over to a professional waste manager.

## 9. MAINTENANCE

1. If you notice a malfunction while operating the sprayer, stop working with it and rectify the fault. Be sure to observe all protective measures listed in the SAFETY MEASURES WHEN WORKING WITH THE SPRAYER and ENVIRONMENTAL PROTECTION MEASURES sections.
2. After you finish operating the sprayer, always follows the instructions listed in the section USING THE SPRAYER under points 9 and 10.
3. Do not store the sprayer under pressure, with residual agent or in a place where the agent you are applying could freeze inside the sprayer.
4. After every 20 fillings of the sprayers, pour 10 drops of machine oil into the sprayer pump in the place marked in the picture.
5. After every 20 fillings of the sprayer, or in the event of a malfunction, disassemble the handle and clean the sprayer filter.
6. Once a year check the mechanical completeness of the sprayer, if you determine any of the parts are missing or damaged, replace them with original parts.

## 10. ADDITIONAL EQUIPMENT

You can get additional equipment for the sprayer which can enhance the usability of the sprayer. This equipment includes:

1. Aluminum extension, length: 0.45m, 0.70m, 1.5m and 2,0m.
2. Telescopic extension, length 3,0m.
3. Handle

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## 11. LIST OF ORIGINAL SPARE PARTS

Sprayer pump

GARDEN PRO art: 4009

Handle art: 4001

Adjustable nozzle art: 4002

Gasket set

GARDEN PRO art: 4005

## 12. MALFUNCTIONS AND HOW TO ELIMINATE THEM

MALFUNCTION DESCRIPTION	MALFUNCTION CAUSE	METHOD OF ELIMINATION
When establishing working pressure, air runs out - you can hear the sound of hissing air	Loosened hose nut	Tighten the nuts
Intermittent jet (stronger jet when pushing the push lever, weaker when releasing the push lever)	Loss of air in the pressure chamber	Empty the sprayer and pump until air starts coming out. Fill the sprayer and keep working.
Pumping doesn't achieve working pressure	Out of place or soiled non-return valves	Carefully disassemble the pump. Remove agent particles beneath the non-return valves and reassemble the pump.
	Worn out rubber gaskets of the pump	Check the gaskets. Replace them if needed. Before assembly, lubricate the gaskets with machine oil.
Sprayer is under pressure, but liquid doesn't come out	Clogged sieve in the handle	Release the pressure from the sprayer – point 10 of the chapter USING THE SPRAYER, then remove the sieve from the sprayer handle and clean it.
	Clogged nozzle	Remove the nozzle and carefully clean it.

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## 13. CONTROL LIST

Sprayer type:

Control:

Year of production:



#### 14. CONTACT

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#### 15. DECLARATION OF CONFORMITY

As the manufacturer, we declare, with full responsibility, that:

Sprayers type GARDEN PRO and SPRINGER PRO – plastic, hand-operated, pressure sprayers for the application of water-soluble agents for plant care and protection

Types:

GARDEN PRO 12 art: 4018

GARDEN PRO 16 art: 4019

GARDENPRO 12M art: 4018M

GARDEN PRO 16M art: 4019M

SPRINGER PRO 12 art: 4204

SPRINGER PRO 16 art: 4205

Are in accordance with:

1. 2006/42/EC
2. 2009/127/EC

Considering the following standards:

1. EN 614-1:2010
2. EN 614-2:2010
3. EN ISO 12100-1:2012.