

HARVESTER MISTER

Potato Harvester Wetter



Fitting and Operating Instructions

Manufactured by

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Introduction

The Harvester Mister is designed to be installed onto potato harvesters with the function of providing a fine mist spray of water onto the potatoes flowing through the harvester. Misting of potatoes and the harvester itself can have the effect of damping excessive movement of potatoes and give the benefit of reducing damage caused in this way. The unit is supplied with a removable frame that should allow simple attachment to most harvesters, though some adaptation may be necessary to suit some models. The boom supplied as standard is 1.0m long

Check List

On receipt of the Harvester Mister unit, check that the following items are present:

125 litre tank with lid and strainer, fully assembled with 11.3 litre/min pump, in-line filter, drain plug, remote switchbox , 6.0m cable and plug; 1.0m boom fitted with 3 x Hypro 'white' Misting Nozzles, 2m x 1\2" bore braided hose; harvester mounting frame.

The Harvester Mister has been designed so that several elements can be altered to suit the requirements of the user. Non-standard machines will therefore vary in content.

Fitting

To a potato harvester

1. Fit the mounting frame to the harvester. Differences in mounting positions between harvesters make it impossible to specify the best position for the Harvester Mister. The frame has been made with an angle-iron base that can be drilled to suit the fixing position available on the individual harvester. The frame should be fitted so that it keeps the Harvester Mister tank and pump clear of all moving parts of the harvester and keeps it secure at all times. When fitted the tank should drop easily into the frame, locating into the slots moulded into the tank.
2. Attach the misting boom in the desired location. It may require drilling or welding to suit the fixing position. Attach the hose line from the boom to the hosetail connector on the outlet of the pressure relief valve on the top of the mister tank. Ensure that the boom assembly is clear of all moving parts. **Make sure that all hose is kept away from moving parts and heat sources and is secured safely and firmly along its entire length.**
3. The Harvester Mister requires a 12 volt power supply. Position the electric control box in the harvester or tractor cab within easy reach of the operator. The cable from the Harvester Mister should be plugged into the control box. Attach the electric cable plug to the accessory socket on the harvester or tractor. If this is not available, it may be necessary to make a direct connection to the vehicle's battery. Consult your vehicle dealer for advice, if necessary. **Make sure that all cable is kept away from moving parts and heat sources and is secured safely and firmly along its entire length.**
4. Fit the pressure gauge to the pressure regulator on the top of the mister tank. It is advisable to use PTFE tape on the thread of the gauge to ensure a perfect fit.
5. Attach the refill hose to a convenient location on the harvester, making sure that the hose is kept away from moving parts and heat sources and is secured safely along its entire length.

Usage

The Harvester Mister sprayer is intended to providing a fine mist spray of water onto the potatoes flowing through the harvester. **This misting unit is not intended for and should not be used on an ATV. The Harvester Mister is not to be used for spraying chemicals, if you wish to spray chemical please contact Martin Lishman Ltd to discuss your requirements.**

Operation

Before mounting the mister on your harvester, it is recommended that it is tested to ensure that no damage has occurred in transit.

Before misting:

- Ensure the filler hose valve is closed. This hose also acts as a drain valve to allow the tank to be emptied.
- Make sure all hose connections are tight and not weeping.
- The pump is switched on from the remote switch box.

The pump in this model is rated at 11.3 litres/minute. The boom is fitted with 3 x Hypro Misting Nozzles

NB. Above 4.0 bar the Pressure Switch in the pump operates and a higher pressure is not possible.

After misting:

- Always remember to switch off the pump at the isolating switch.
- To drain tank, remove drain plug and turn drain valve to allow remaining water in the tank to drain out through the filler hose.
- Check the in-line filter at the bottom of the intake pipe to the pump and remove any debris.

Maintenance

- After each use, empty the mister tank clean the entire unit by thoroughly flushing with clean water. Always dispose of tank rinsings in a manner that is in accordance with good spraying practice and current environmental and health and safety legal requirements and guidelines.
- If there is a risk of frost, drain the system completely, including the pump, making sure that no liquid remains which could cause frost damage.

Please note: the pump in the Harvester Mister is fitted as standard with Santoprene check valves and diaphragms.

Warranty

The Harvester Mister (the equipment) is guaranteed for 12 months from the date of purchase against any defect or malfunction caused by faulty parts or workmanship. To claim under warranty, the equipment should be returned, at the claimant's expense, to the supplier with a written explanation of the problem. Should there prove to be a defect or malfunction caused by faulty parts or workmanship, it will be repaired or replaced and returned to the claimant without charge. If a warranty claim is rejected, the cost of replacement or repair will be notified to the claimant before any work is carried out.

Any warranty claim will automatically be invalidated if the equipment has been modified or internally tampered with in any way. Damage or faults occurring to the equipment which are deemed by the manufacturers to have been caused by inappropriate use of the equipment or by use not in accordance with the instruction manual will not be covered under warranty.

It is the responsibility of the user to ensure that all spraying equipment has been installed in accordance with the relevant installation regulations, that all appropriate safety checks have been carried out before use and that regular on-going maintenance and safety checks are undertaken.

Under no circumstances will the supplier re-imburse any costs associated with a warranty claim if these costs have been incurred without agreement in advance.

Under the terms of warranty for the equipment under no circumstances will liability exceed the cost of replacement or repair. The manufacturers will not be liable for any consequential or indirect loss suffered by purchasers or users of the equipment, whether this loss arises from correct or incorrect use of the equipment, defect or malfunction caused by faulty parts or workmanship or in any other way. Non-exhaustive illustrations of consequential or indirect loss are loss of profits, loss of contracts, personal injury and damage to property.

Full Terms and Conditions available on Request

Technical Help

For additional help or information please contact either your local supplier or Martin Lishman.

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