



- Outstanding flexibility and precision

LIFT MOUNTED MIST BLOWERS

Introducing a lift mounted series of mist blowers, from the leading manufacturer in the world. Engineered to meet today's requirement for long working hours, reliability, and performance with care of the environment and operator's safety.



The HARDI® range of mist blowers (LE, LE-SPV & LP) sets top standards for spraying and application of pesticides. The key words for the innovation of the mist blower line are:

- Precision
- Efficiency
- Cost saving
- Safety for the operator
- Safety for the environment
- Operator friendliness

The tank design provides for excellent weight distribution and fulfills any requirement for optimum agitation and emptying.

General features

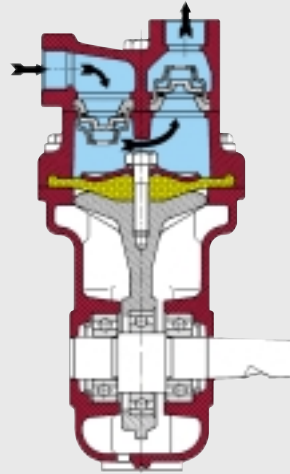
- 100 and 150 gallon UV protected polyethylene tank.
- HARDI® 1202 diaphragm pump.
- HARDI® BK/2 control with automatic rate control.
- Suction filter and pressure filter.
- Corrosion proof components. Bolts, nuts, etc are Delta Magni treated.
- HARDI® ceramic nozzles or restrictors with non-drip diaphragm check valves.
- Side mounted step for easy access to lid.
- Remote drain.

Pump



“The heart of the sprayer” The HARDI® diaphragm pumps are designed for the application of plant protection pesticides and liquid fertilizer.

Principle of the HARDI® diaphragm pump: the diaphragm separates the liquid from the vital parts of the pump's crankshaft and bearings. This keeps wear to a minimum.



The HARDI® diaphragm pumps are:

- Self-priming
- Able to run dry without damage
- Capable of 220 PSI pressure
- Easy to service
- Grease lubricated (dry crankcase)
- Mounted with chemical resistant diaphragms and valves
- Able to rotate clockwise or counterclockwise
- Positive displacement feature provides a high level of accuracy

Controls

The HARDI® designed and manufactured BK controls will sustain the pressures provided by the HARDI® diaphragm pumps without leaking and work with dependency and consistency independent of the material applied.

The BK control features the HARDI® MATIC mechanical rate controller that ensures constant application rate regardless of speed variations within the same gear. The BK control has a built in safety valve that ensures that the system is never overloaded.



The BK also features a constant pressure system that ensures that the pressure remains constant when one of the sides is turned off.

Tank and frame

The tank is made of UV protected polyethylene. It is compact with no sharp corners to ease cleaning and agitation. The tank has a 12 inch lid with filter basket. The tank has a built in remote drain for safe and easy use. The corrosion resistant fully welded frame has Cat.I and Cat. II three point hitch connections, and a fold up step for easy and safe access to the lid.



Filtration

The filtration system is a two step process. The first filter is an easy to reach suction filter. The suction filter has an automatic shutoff valve that ensures that no spill is possible, even with a full tank.



The second filter is the pressure filter mounted on the BK/2 control.

Power transfer

Powered from the tractor via the PTO shaft is a one-speed gearbox with neutral. The neutral is used for calibration, agitation under transport and spot spraying.



The gearbox is a very efficient and reliable way of transferring energy, compared to V-belts.

Nozzles

All HARDI® nozzles are developed and engineered from our extensive research program, together with our full knowledge of application techniques. Manufacturing quality is held to extremely high tolerances.



LE

The HARDI® LE mist blowers have a traditional axial fan (air blast) for producing high air volumes. The LE is the right choice for spraying grapes, small and medium size trees.

Axial fan



The workhorse for transporting the spray-laden air to the target is the patented axial blower. Fan blade pitch is adjustable permitting the best relation between air volume to suit the task and

power requirement from the tractor.

An aerodynamically contoured cone starting from behind the hub conveys the air out to the slot.

Centrifugal clutch

Smooth engagement of the fan is guaranteed with the centrifugal clutch in the fan hub, thus minimizing stress on the sprayer and the tractor.



Nozzles

14 ceramic color-coded nozzles are standard. The nozzle holders have a built in non-drip diaphragm check valve. Each nozzle can be turned off individually by turning the nozzle. The nozzles will create small or large droplets depending on the fluid pressure and are suitable for application rates from 30 GPA up to 350 GPA.



LE-SPV

HARDI LE-SPV mist blowers are for use in vineyard, berry bush or small trees for the application of crop protection chemicals and liquid fertilizers.

Centrifugal Fan



The LE-SPV has a centrifugal fan with 10 equally sized spouts with air hoses each giving a uniform conical air flow.

The spouts are fully flexible and the air and spray can be directed precisely to the target area, giving better and more uniform coverage, with a minimum of loss to the surrounding environment.



Nozzles

10 ceramic color-coded nozzles are standard. The nozzle holders have a built in non-drip diaphragm check valve. Each nozzle can be turned off individually by exchanging the nozzle with a plug.

The nozzles will create small or large droplets depending on the fluid pressure and are suitable for application rates from 20 GPA up to 200 GPA.



LP

HARDI® LP mist blowers are for use in vineyard and berry bushes for the application of crop protection pesticides and liquid fertilizers.

Centrifugal Fan

The LP has a 22" centrifugal fan with 6 spouts and air hoses each giving a uniform conical airflow. The spouts are fully flexible and the air and spray can be directed precisely to the target area, giving better and more uniform coverage with a minimum of loss to the surrounding environment. The 4 top spouts in narrow rows (up to 8') are designed to spray the next row, making the system capable of spraying 2 full rows in one pass.



Centrifugal clutch

Smooth engagement of the fan is guaranteed with the centrifugal clutch in the fan hub, thus minimizing stress on the sprayer and the tractor.



Nozzles

The pneumatic system on the LP uses low liquid pressure (20 to 60 PSI) and high air speed to atomize the spray liquid. A ceramic metering disc is located in the delivery line to each spout. Each delivery line also has a built in non-drip diaphragm check valve. The pneumatic nozzles produce very fine to fine droplets ensuring good coverage even at ultra low volume.



The system is suitable for application rates from 10 GPA up to 40 GPA.

CANNON

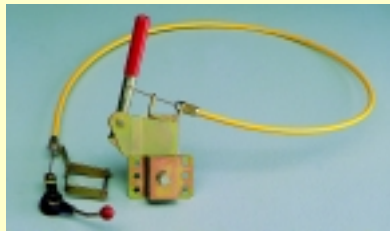
A CANNON head is also available. The CANNON is typical used for special spraying tasks, like spraying vegetables, nurseries, Christmas trees and livestock.



Optional Extras

Remote Control

The HARDI® BK/2 control can be fitted with a cable remote control for easy operation of the on/off valve.



Clean water tank

A 4 gallon clean water tank for easy and safe cleaning of nozzles and hands.



Electric Control

Electric CB/2 valves for electric control of pressure, on/off and 2 distribution valves are also available.



Protection screens for SPV

Protection screens for the spouts on the HARDI® LE-SPV system mounts easily on the existing frame.



Powder Mixer

The addition of a powder mixer provides easy mixing of powders.



Calibration

For accurate calibration, HARDI® calibration kits and HARDI® water sensitive paper is also available.



Test and quality control

Throughout the development of a new HARDI® sprayer, all items are thoroughly tested in order to find and improve the weakest point.



The HARDI® diaphragm pumps are test run at higher revolutions and higher pressure to ensure maximum reliability for the operation of the pump. Test tracks for chassis testing are important tools for the test program. These facilities help to optimize the strength of the sprayer.



As HARDI® produces up to 90% of all components in-house, we carry out extensive quality control during production. Our quality control department ensures that major parts meet our high demands. Samples are analyzed during the production. At HARDI® we are ambitiously and continuously setting quality standards.

Make the right choice

The function of any mist blower is to replace the air in the tree canopy with spray laden air from the blower unit. Air volume produced and the forward speed are two factors directly related to choosing the optimal mist blower.

The following table is an indication of the conditions in which these models normally operate.

Model	Max tree height	5'	6'	8'	10'	12'	14'	18'
LE	20'			●	●	●	●	●
LE-SPV	12'			●	●	●	●	
LP	8'	●	●	●	●			

Do not forget water sensitive Spray Test Paper. This is a quick and easy way to evaluate drop coverage and penetration. It turns blue upon contact to liquid.



Technical Specifications

● Diaphragm pump model	1202 - 22 GPM
● Maximum working pressure	220 PSI

Model	Tank size in gal.	Blower diameter "	CFM	Air speed (MPH)	HP	Dimensions L x W x H "	Weight in lb (Empty)
LE-100	100	30	20,360	68	22	57x44x59	417
LE-150	150	30	20,360	68	22	57x50x63	436
LE-SPV 100	100	16	10,500	110	25	55x54x78	501
LE-SPV 150	150	16	10,500	110	25	55x54x78	520
LP 100	100	22	6,300	250	38	70x35x75	522
LP 150	150	22	6,300	250	38	95x50x79	540
CANNON	100	22	6,300	250	38	70x35x75	530

The HARDI® Concept

HARDI INTERNATIONAL A/S is an international group whose basic idea is to satisfy the user's requirements for quality products that ensures efficient, punctual, and precise application of crop protection products. Our worldwide distribution and sales network comprises more than 100 countries where we are represented by importers, agents, and sales subsidiaries. The latter are situated in Sweden, Norway, Denmark, Germany, the UK, France, North America, Spain, and Australia.



The key words to keep a leading position on the world market of equipment for crop protection are research and development. When we develop new sprayers or components we have defined the following essential key words: strength, reliability, capacity, economy, operational friendliness, service, precision, and price.



Any development is compared to these definitions.

During HARDI's existence of more than 40 years we have developed several patented inventions. HARDI will continue to be the trend setter within application of crop protection products in the future. To hold this position requires continued developments and innovation. Everyone at HARDI is committed to this end.

North American distribution centers are large facilities with state-of-art training rooms in Davenport, IA, London, Ont. and Fresno, CA, together with an experienced staff to support a vast network of first class company trained dealers.



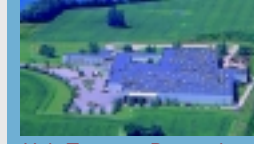
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