



ESTATE SPRAYERS



● **Simply the best**



ES 30

W

hen it comes to sprayer application technology HARDI® reigns supreme. You will find a broad range of Estate sprayers to meet your application, whether it be for yard work or large commercial applications. The same high quality engineering standards that apply to our largest field sprayers are incorporated in the design and manufacturing of the Estate sprayers. Take a close look and you will find the sprayer that will best suit your needs.

Diaphragm pumps

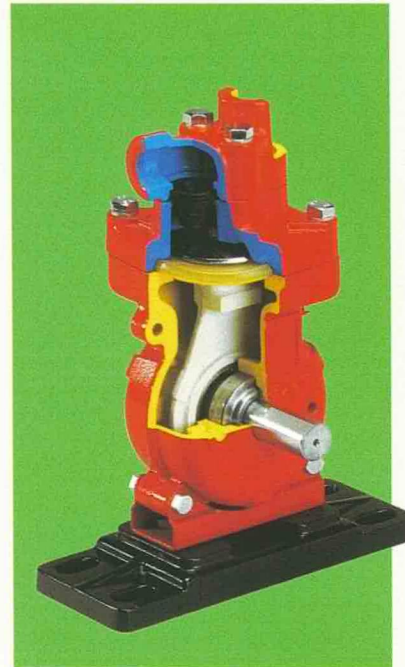
Diaphragm pumps are used on all Estate sprayers. Sprayers with 6' booms are equipped with FloJet electric diaphragm pumps. Sprayers with 14' booms are equipped with HARDI® diaphragm pumps or the FloJet electric diaphragm pump.

The FloJet electric diaphragm pump offers:

- Low cost
- Dependability
- Self priming
- Positive displacement



FloJet pump

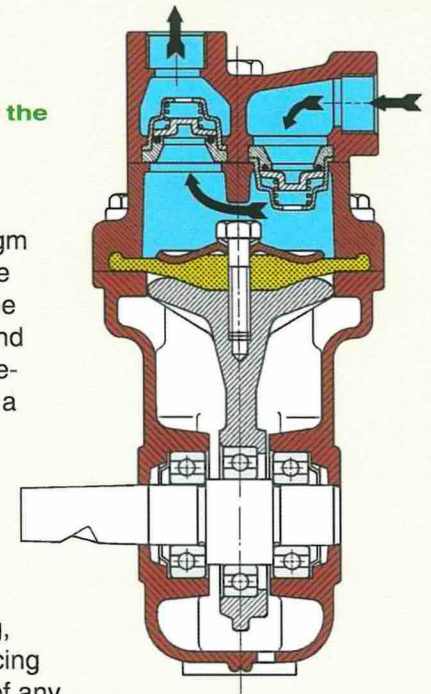


The HARDI® diaphragm pumps are:

- Designed for the application of plant protection chemicals and liquid fertilizer
- Self-priming
- Able to run dry without damage
- Capable of 220 PSI pressure
- Easy to service
- Grease lubricated (dry crankcase)
 - Fitted with chemical resistant valves and polyurethane diaphragms
 - Able to rotate clockwise or counter-clockwise
 - Positive displacement

Principle of the HARDI® diaphragm pump:

The diaphragm separates the liquid from the crankshaft and bearings, keeping wear to a minimum. The crankshaft and bearing are lubricated by a single grease fitting, greatly reducing the chance of any petroleum based product leaking from the pump case and damaging turf.



Direct drive

All HARDI® 500 and 600 diaphragm pumps with gas engines are direct coupled for drive efficiency.



Direct driven

Standard engine is the 3.5 HP Briggs & Stratton. An optional 4.0 HP Honda is available.

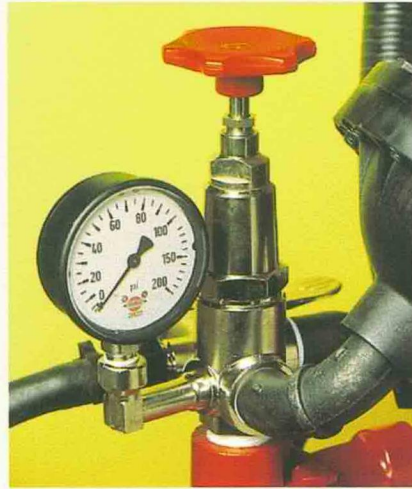


ET Control

Controls

The ET manual control provides:

- On/off for boom and spray gun
- Pressure adjustment
- Glycerin filled pressure gauge



M 600 Control

The M600 brass manual control has:

- On/off lever for boom and spray gun
- Pressure adjustment
- Glycerin filled pressure gauge



M 70 Control

The M70 manual control offers:

- Main on/off for boom feed line
- Individual boom and spray gun feed lines
- Pressure adjustment
- Glycerin filled pressure gauge

Powder painted steel

A strong weather and chemical resistant polyester coating of frame and boom ensures good protection of the steel parts. Bolts and nuts are Delta treated to prevent corrosion.

HARDI® polyethylene tank features:

- Blow molded
- Tank capacity scale molded in
- Deep sump
- Bottom drain
- Damage resistant
- Chemical resistant and U.V. stabilized

Pump and boom availability

	ES 30	ES 50	ES 80	BNL 50	SM 50	SM 80	SM210
Pumps							
FloJet 12 volt	•	•	•		•		
HARDI® 500 PTO driven				•			
HARDI® 500 gas driven		•	•		•	•	•
HARDI® 600 gas driven							•
Booms							
6' boom (6'7" spray width)	•	•					
14' boom (13'4" spray width)		•	•	•	•	•	



HARDI® designed and manufactured syntal flat fan boom nozzles

feature:

- Long wear life
- Excellent accuracy for more consistent coverage
- 110° spray pattern provides excellent distribution
- Nozzles comply with the ISO standard regarding flow, colors, coding and outer-dimensions
- Wide range available for variation in application

ESTIMATE SPRAYERS

ES

ES trailer sprayers

HARDI® trailer Estate sprayers are ideal for the homeowner, turf care professionals, and for municipal and industrial turf caretakers. Three different tank sizes will meet a variety of needs and are designed for use with garden tractors to be able to fit into small areas.

ES trailer features

- FloJet 12 volt electric diaphragm pump standard on ES 30 and ES 50. HARDI® 500 diaphragm pump with direct drive optional on ES 50 and standard on ES 80
- Briggs & Stratton 3.5 HP or optional Honda 4 HP engine
- Tank capacities: 30, 50, and 80 gallons

- Heavy duty frame with hitch stand
- Turf tire sizes: 16 x 7.50-8 on ES 30 and ES 50
20 x 10.00-8 on ES 80.
- Boom type: 6' vertical fold or 14' horizontal fold, both with fore and aft break-away
- ET controls
- 2 1/2" glycerin filled pressure gauge
- Distribution valves
- Wiring and clamps included for attachment of the FloJet pump to the battery
- Two filter system; suction and nozzle filters
- Return agitation

- HARDI® 110° ISO flat fan Snap Fit nozzles
- Filter basket
- Tank sump
- Bottom tank drain
- Hose wrap
- Spray gun with 25' of hose (40' optional)
- Diaphragm pump/gas engine: 1/2" hose
- Electric FloJet pump: 3/8" hose



ES 30



ES 30



ES 50



ES 80

ES 80

ES 80 standard equipment includes the HARDI® 500 diaphragm pump with direct drive and 3.5 HP Briggs & Stratton engine, ET controls, 14' horizontal fold boom, HARDI® Snap Fit nozzles, and spray gun with 25' hose and hose wrap. Individual LH & RH boom section control is optional equipment for the 14' boom.



ES 80

ES 30

ES 30 standard equipment includes the FloJet 12 volt electric diaphragm pump, ET controls, 6' vertical fold boom, HARDI® Snap Fit nozzles, and spray gun with 25' hose and hose wrap.



ES 80

ES 50

ES 50 standard equipment includes FloJet 12 volt electric diaphragm pump, ET controls, 6' vertical fold boom, HARDI® Snap Fit nozzles, and spray gun with 25' hose and hose wrap. The ES 50 can be optionally equipped with the HARDI® 500 diaphragm pump with direct drive, ET controls, and 14' horizontal fold boom. Individual LH & RH boom section control is optional equipment for the 14' boom.

ES trailer models

Tank capacity gallons	Boom type ft.	Spraying width ft.	Pump model	Pump capacity GPM	Pump maximum pressure PSI	Dimensions L x W x H in.	Weight lbs.
30	6'	6'7" 12 volt electric	FloJet	2.1	50	83 x 39 x 48	136
50	6'	6'7"	FloJet	2.1	50	84 x 40 x 51	154
14'	13'4"	12 volt electric					
50	14'	13'4"	HARDI® 500	4.2	220	85 x 42 x 39	264
80	14'	13'4"	HARDI® 500	4.2	220	99 x 45 x 40	312

ESTATE SPRAYERS

BNL

BNL 3-Point sprayers

An excellent choice for use with compact tractors that will enable municipal and industrial turf care professionals easy maneuverability. Simple to mount and control.

BNL features

- HARDI® 500 diaphragm pump with 540 RPM PTO drive and PTO shaft
- Tank capacity: 50 gallons
- Heavy duty frame with Cat. I-II hitch
- Boom type: 14' horizontal fold with fore and aft breakaway
- M70 control
- 2 1/2" glycerin filled pressure gauge
- Distribution valves
- Two filter system; suction and nozzle filters
- Return agitation
- HARDI® 110° ISO Color Tips™ flat fan Snap Fit nozzles
- Filter basket
- Tank sump
- Bottom tank drain
- Hose wrap
- Spray gun with 25' of 1/2" hose (40' optional)



BNL

BNL 50

BNL 50 standard equipment includes HARDI® 500 diaphragm pump with PTO drive, M70 controls, 14' horizontal fold boom, HARDI® 110° ISO Color Tips™ Snap Fit nozzles, and spray gun with 25' of 1/2" hose and hose wrap.

BNL 50 with 14' boom folded for transport and storage.

BNL



BNL 3-Point

Tank capacity gallons	Boom type ft.	Spraying width ft.	Pump model	Pump capacity GPM	Pump maximum pressure PSI	Dimensions L x W x H in.	Weight lbs.
BNL							
50	14'	13'4"	HARDI® 500	4.2	220	53 x 41 x 61	225





SM

Skid mount sprayers

Skid mount sprayers easily mount in a variety of vehicles for conversion to an effective spraying unit for turf care professionals.

SM features

- FloJet 12 volt electric diaphragm pump (SM 50), HARDI® 500 diaphragm pump with direct drive (SM 50 and 80), HARDI® 600 diaphragm pump with direct drive (SM 210)
- Briggs & Stratton 3.5 HP or optional Honda 4 HP engine
- Tank capacity: 50, 80, and 210 gallons
- Frame for vehicle mounting
- Optional 14' horizontal fold boom (except on SM 210)
- ET or M600 controls
- 2 1/2" glycerin filled pressure gauge
- Suction filter
- Return agitation
- Filter basket
- Tank sump
- Bottom tank drain
- Hose wrap or optional hose reel
- Spray gun with 40' of 1/2" hose or optional 100' hose with manual reel



SM 80

SM skid mount models

Tank capacity gallons	Boom type ft. (optional)	Spraying width ft. (optional)	Pump model	Pump capacity GPM	Pump maximum pressure PSI	Dimensions L x W x H in.	Weight lbs.
50	- (14')	- (13'4")	FloJet 12 volt	2.1	50	55 x 28 x 31	84
50	(14')	(13'4")	HARDI® 500	4.2	220	55 x 26(41) x 33	194
80	(14')	(13'4")	HARDI® 500	4.2	220	64 x 24(41) x 34	210
210			HARDI® 600	8.2	220	80 x 42 x 54	464

SM 80

SM 80 equipped with the standard HARDI® 500 diaphragm pump with M600 controls and spray gun with optional manual hose reel and 100' hose.

Backpack and Handheld

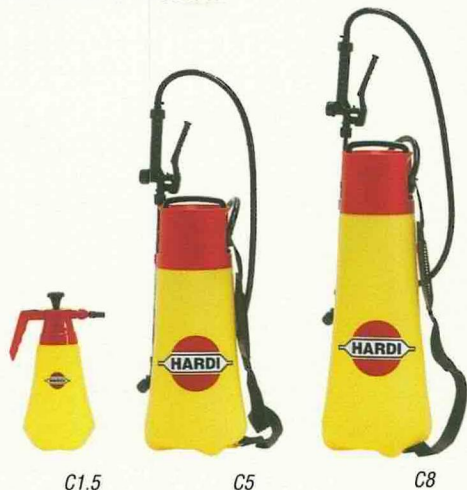
Backpack and Handheld compression sprayers

A series of backpack and handheld sprayers are available. A separate brochure is available for details on each of the models.



BP-15

BP-20



C1.5

C5

C8



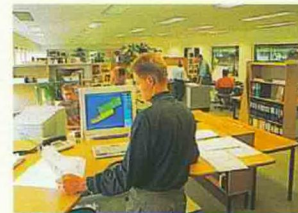
BP-20

Backpack and Handheld compression sprayers

Model	Tank size liters	Tank size gallons
C 1.5	1.5	0.40
C 5	5.0	1.30
C 8	8.0	2.10
BP-15 piston pump	15.0	3.95
BP-20 piston pump	20.0	5.25

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 and plant 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 and plant 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, pre-

cision, 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 Visalia, CA, together with an experienced staff to support a vast network of first class company trained dealers.



HARDI® INC.

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