



Electric Pumps

High performance centrifugal pumps
to transfer liquid manure

GEA Farm Equipment | Houle

engineering for a better world

GEA Farm Technologies

Our Outstanding Electric Pumps



The electric pumps of the Houle product line are offered since the 70's. Originally, the electric pumps included only hog manure pumps, but with the introduction of the 4" Dairy Manure Pump in the 90's, the company was able to meet the needs of the dairy farmer. Thereafter, a series of more powerful, higher flow rate pumps are developed for responding to the needs of farmers looking to clean their barns with a flush manure system or to evacuate liquid manure over longer distances. Many of these pumps are available on pontoon for use in a lagoon.

GEA Farm Technologies focuses its daily efforts on offering innovative, efficient and durable products. Its expertise is always challenged by the continuous improvement of its products. GEA Farm Technologies is proud to offer a wide selection of electric pumps, the Houle product line with the most world wide sales.

GEA Farm Technologies cares about the quality of the environment and continuously works to implement effective environmental management systems applicable in all facets of the business.

Electric Pump Specifications

The diversity of applications for a transfer pump are as varied as the factors to be considered in order to maximize its use. GEA Farm Technologies developed a complete and diversified range of pumps that will provide you with maximum performance and efficiency. Our line of electric pumps are designed to fit all budgets. We offer equipment with various pressures and flow rates that work effectively according to your needs. Consult our dealers: their expertise will help you choose the most suitable pump.

Pump Model	Description	Manure Consistency Range					Key Features					
		Water	1/8"	1/4"	3/8"	1/2"	High Flow	High Pressure	Agitation	Economical	Compact	Available on pontoon
8" Flush Pump	Low RPM pump offering a high flow rate and remarkable performance to feed a flush system.	✓	✓				Excellent	Good	Optional			✓
4" Agi-Pompe	Stands out from the other pumps because of its ability to provide both high performance pumping and high efficiency agitation.	✓	✓	✓	✓	✓	Very good	Very good	Excellent			✓
4" High Pressure Pump	Reaches its full potential when responding to high head pressures or when used to transfer relatively long distances.	✓	✓	✓			Good	Excellent	Optional			✓
4" Dairy Manure Pump	The perfect balance between pressure, flow rate and agitation quality for efficient and optimal results.	✓	✓	✓	✓	✓	Very good	Very good	Very good			
4" Hog Manure Pump	An ideal pump to transfer low consistency liquid when high flow rate and high pressure are needed.	✓	✓	✓	✓		Good	Good	Good	Good		
3" High Pressure Pump	The most powerful of the 3" pumps, it will respond to high head pressures while remaining economical.	✓	✓				Good	Very good	Optional	Very good		✓
3" Pump	Offers sufficient power and flow rate to transfer hog manure or dairy waste water.	✓	✓	✓			Good	Good		Excellent		
3" Compact Pump	As reliable as the 3" Pump, this compact version offers performance and efficiency where space is limited.	✓	✓	✓			Good	Good		Excellent	Excellent	

Excellent
Very good
Good
Optional

Key Features of All Pumps

- Available in lengths from 6 to 16 feet (1.8 to 4.8 m) in 2 feet (1.8 m) increments.

8" Flush Pump

Low revolution pump offering a high flow rate and remarkable performance to feed a flush system.

Flush Liquid

Maximum consistency

1/8" (3 mm)

Typical Application

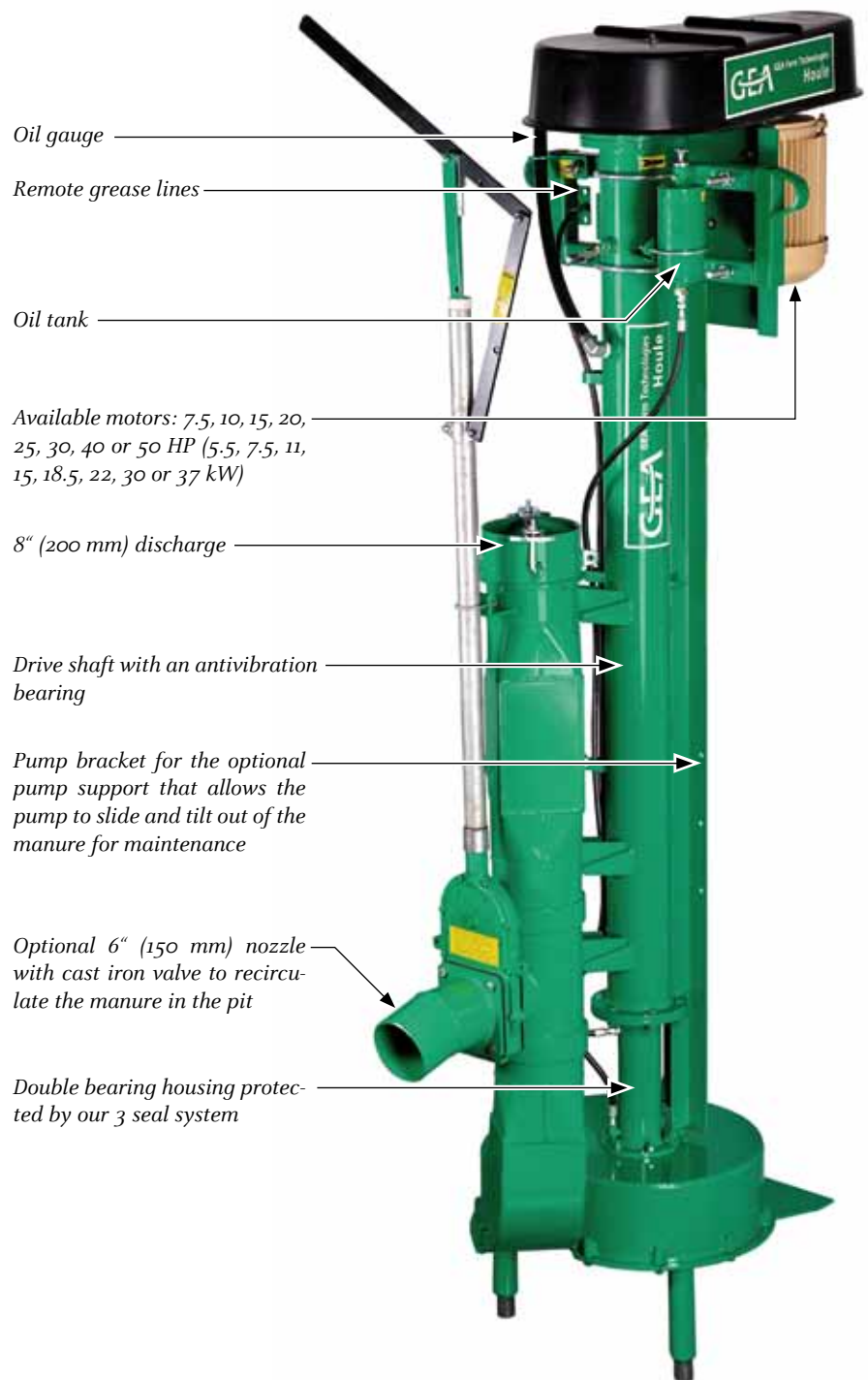
The 8" Flush Pump is used when feeding a flush flume system, or to feed flush valves to clean flush alleys or to flush a holding area.

Key Features

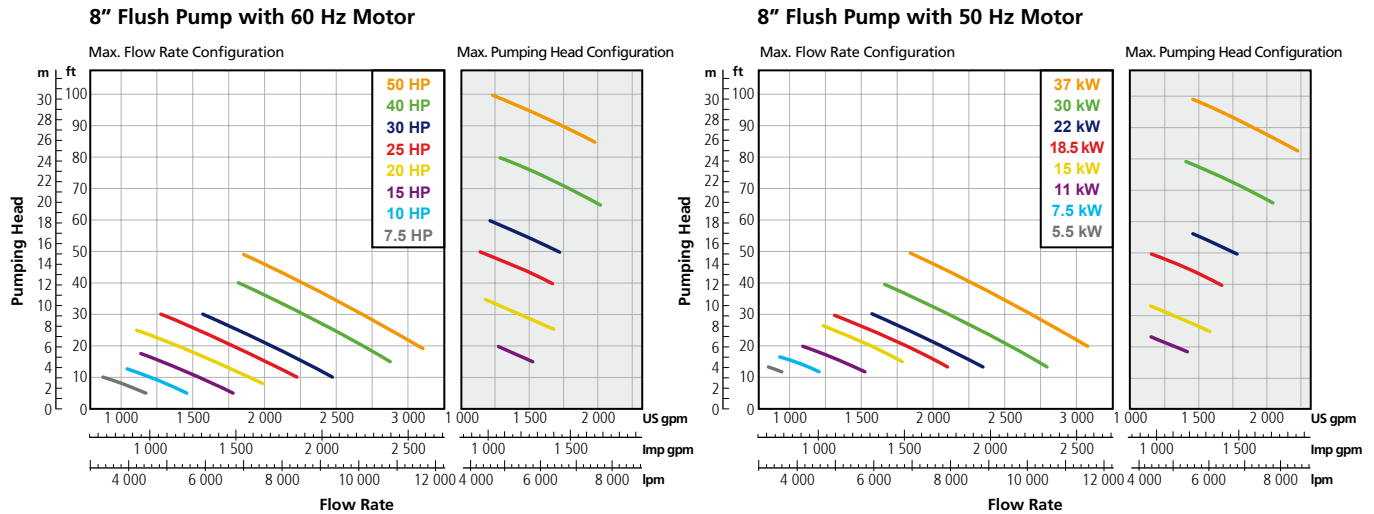
- Belt driven pump;
- A check valve on the pump discharge keeps the liquid in the flush line between flushes;
- Fixed pump support (sliding & tilting support in option - see page 11).

Impeller and Housing

- 16" (406 mm) impeller with 4 curved blades made of ductile cast iron;
- 9½" (241 mm) intake with one fixed knife.



Working Range



8" Flush Pump on Pontoon

Typical Application

Used to pump the surface liquid of a reservoir or lagoon when feeding a flush flume system or to feed flush valves to clean manure alleys or a holding area.

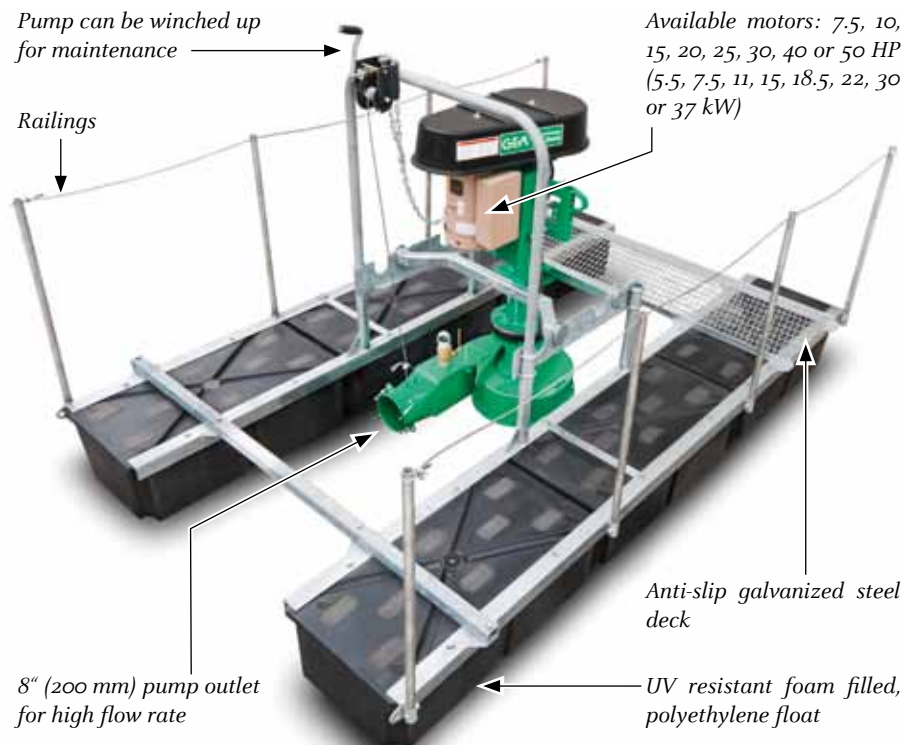
Key Features

- The impeller housing can be adjusted to pump only the surface liquid;
- Low profile design for maximum stability;
- No seals or bearings submerged in the liquid.

Float overall dimensions:

Width: 7'-8" (2.3 m)

Length: 12' or 16' (3.7 or 4.9 m)



4" Agi-Pompe

Stands out from the other pumps because of its ability to provide both high performance pumping and high efficiency agitation.

Dairy Manure	Flush Liquid
Maximum consistency	
1/2" (13 mm)	

Typical Application

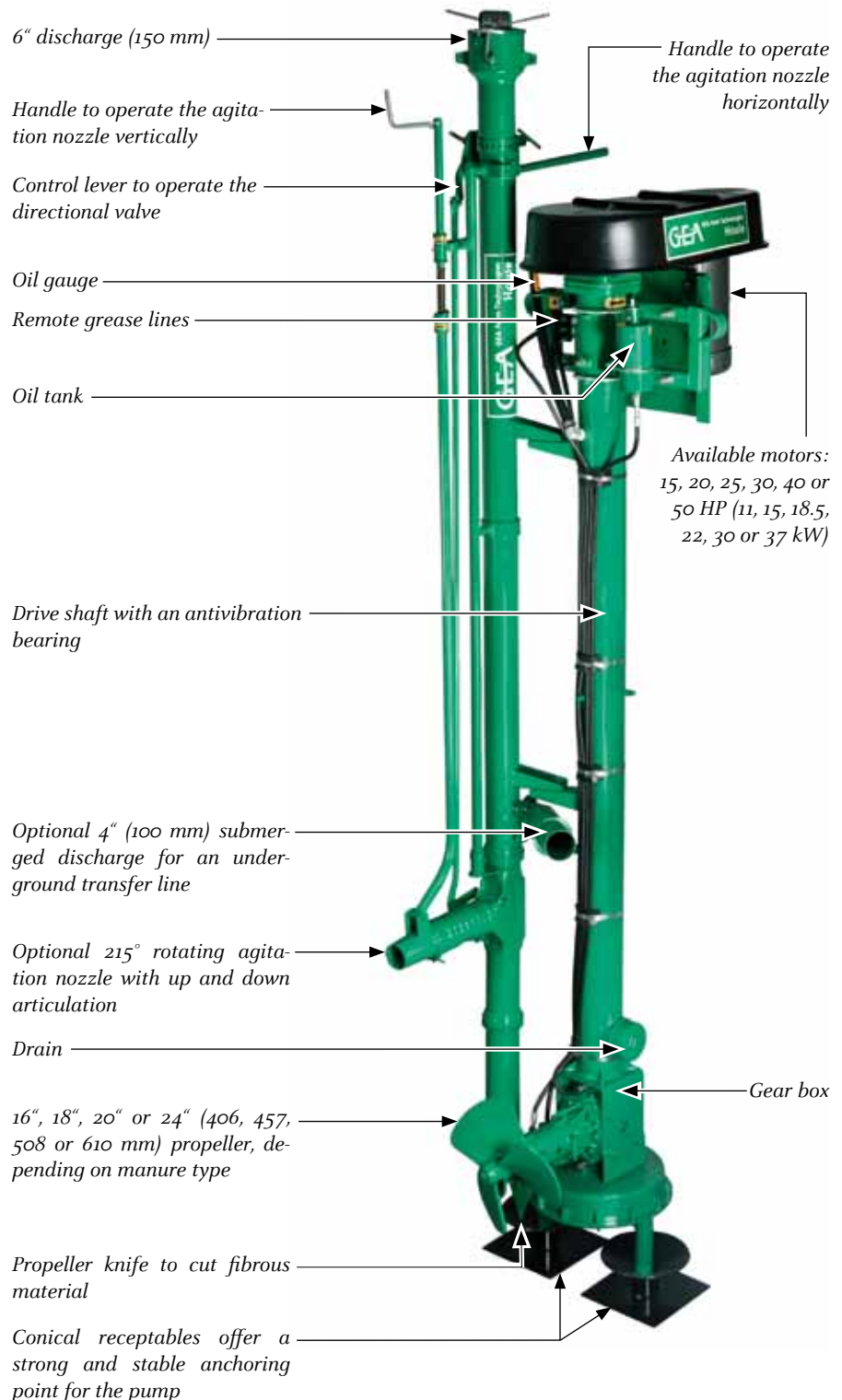
The 4" Agi-Pompe is used to agitate and transfer manure from a reception pit. It can also be used to feed manure separators.

Key Features

- Belt driven pump;
- Controls are easily accessed from the top of the pump;
- The efficient design of the directional valve maximizes the pumping capacity;
- Fixed pump support (sliding & tilting support in option - see page 11).

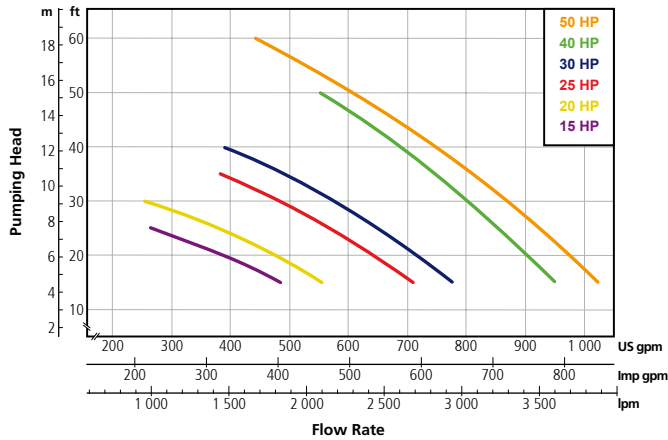
Impeller and Housing

- 16" (406 mm) impeller with 4 curved blades made of ductile cast iron;
- 8" (203 mm) intake reversible knives.

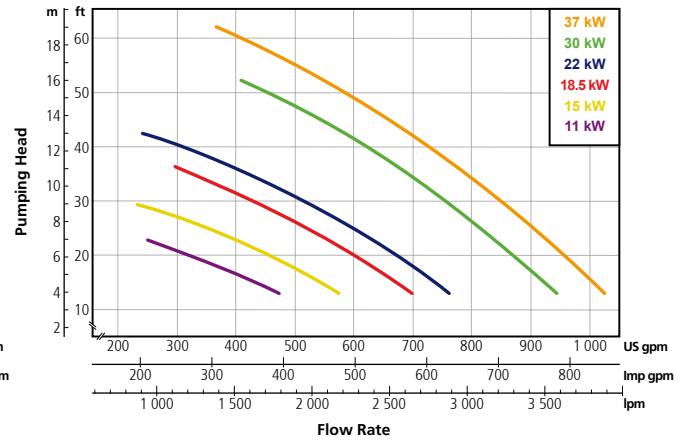


Working Range

4" Agi-Pompe with 60 Hz Motor



4" Agi-Pompe with 50 Hz Motor



4" Horizontal Agi-Pompe on Pontoon

Typical Application

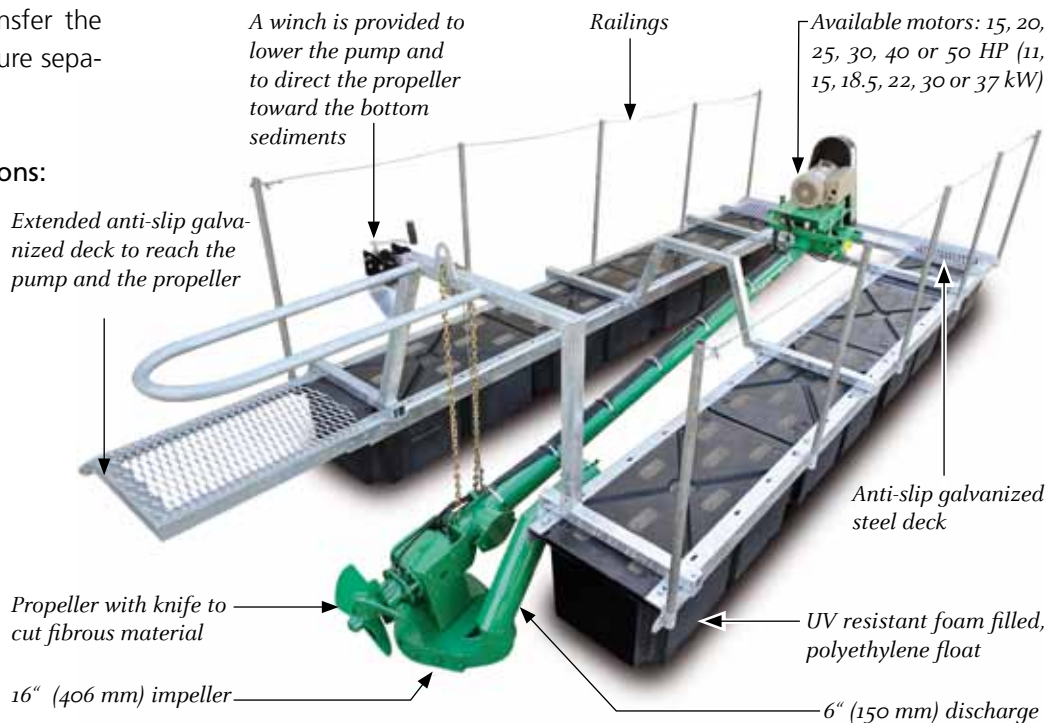
Used to agitate and transfer the rejected liquid from manure separators.

Float overall dimensions:

Width: 7'-8" (2.3 m)

Length: 16' (4.9 m)

Extended anti-slip galvanized deck to reach the pump and the propeller



4" High Pressure Pump

Reaches its full potential when responding to high head pressures or when used to transfer relatively long distances.

Hog Manure	Dairy Waste Water	Flush Liquid
Maximum consistency		
1/4" (6 mm)		

Typical Application

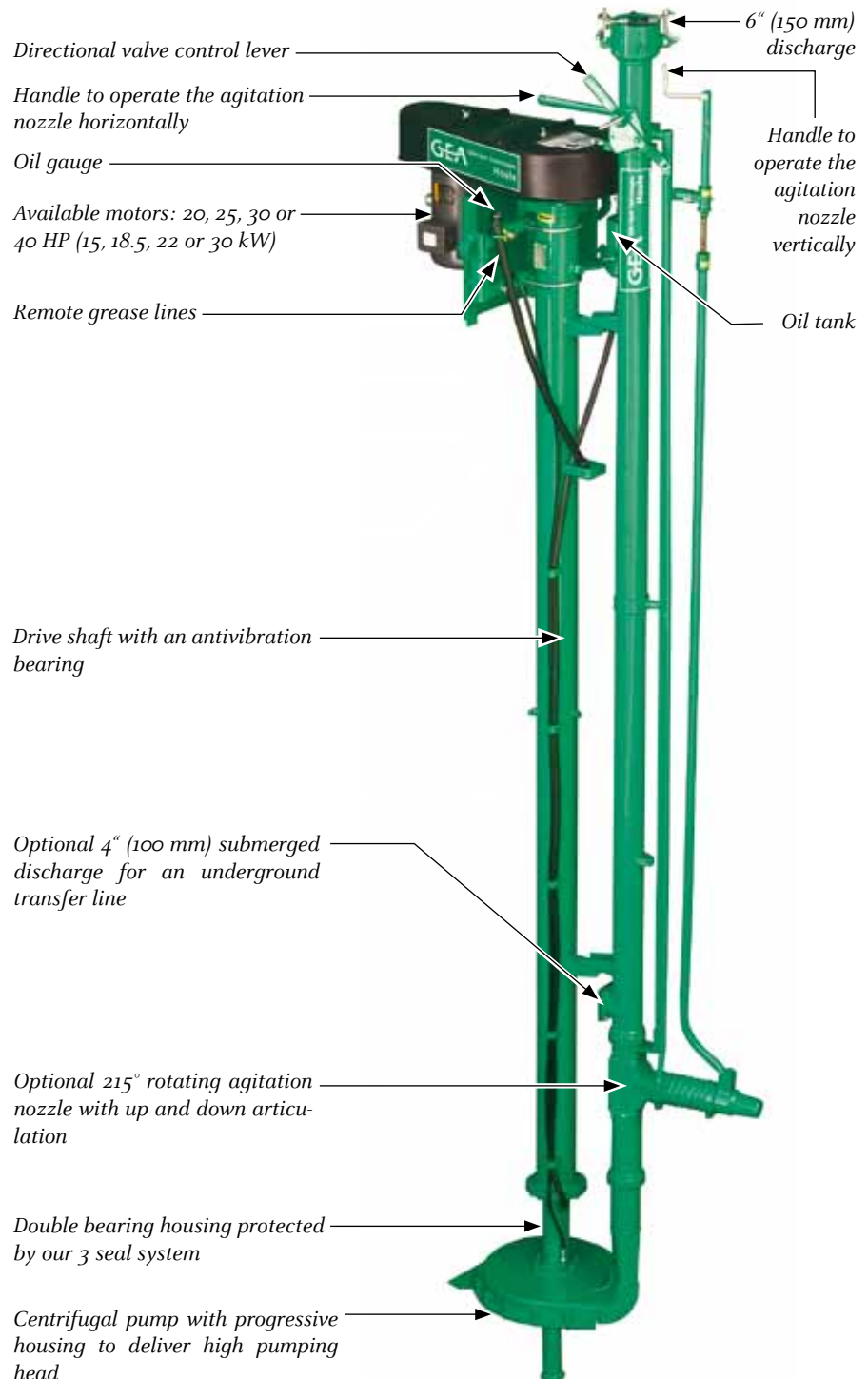
Used to transfer hog manure and dairy waste water from the reception pit to the main storage or to fill flush tanks. Efficient when high head pressure is present. It can pump relatively long distances.

Key Features

- Belt driven pump;
- Controls are easily accessed from the top of the pump;
- Delivers high pumping head with low HP (kW);
- The efficient design of the directional valve maximizes the pumping capacity;
- Fixed pump support (sliding & tilting support in option - see page 11).

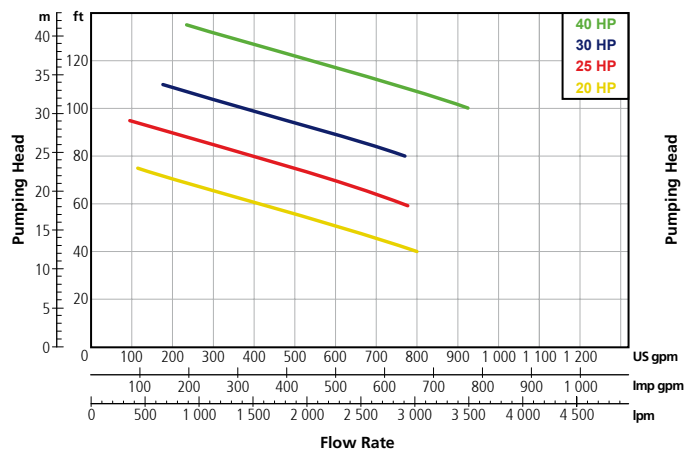
Impeller and Housing

- 14½" (368 mm) impeller with 3 curved blades made of ductile cast iron;
- 6½" (165 mm) intake with fixed knives.

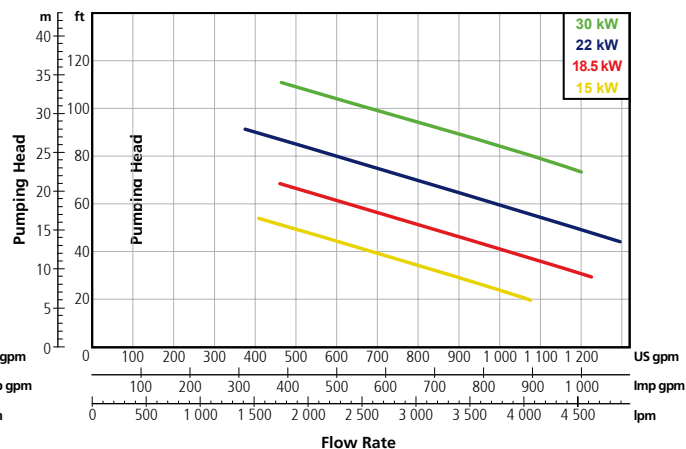


Working Range

4" High Pressure Pump with 60 Hz Motor



4" High Pressure Pump with 50 Hz Motor



4" High Pressure Pump on Pontoon

Typical Application

Used to pump the surface liquid of a lagoon or a pit to a flush tank or to feed low pressure centre-pivot irrigation systems.

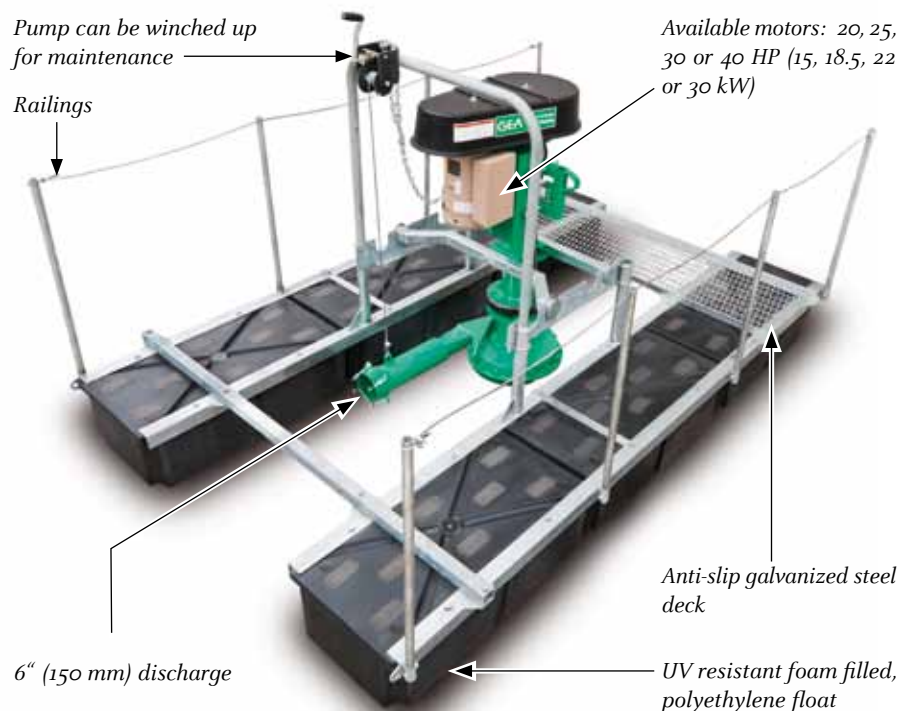
Key Features

- The impeller housing can be adjusted to pump only the surface liquid;
- Low profile design for maximum stability;
- No seals or bearings submerged in the liquid.

Float overall dimensions:

Width: 7'-8" (2.3 m)

Length: 12' or 16' (3.7 or 4.9 m)



4" Dairy Manure Pump

The perfect balance between pressure, flow rate and agitation quality for efficient and optimal results.

Dairy Manure

Maximum consistency

1/2" (13 mm)

Typical Application

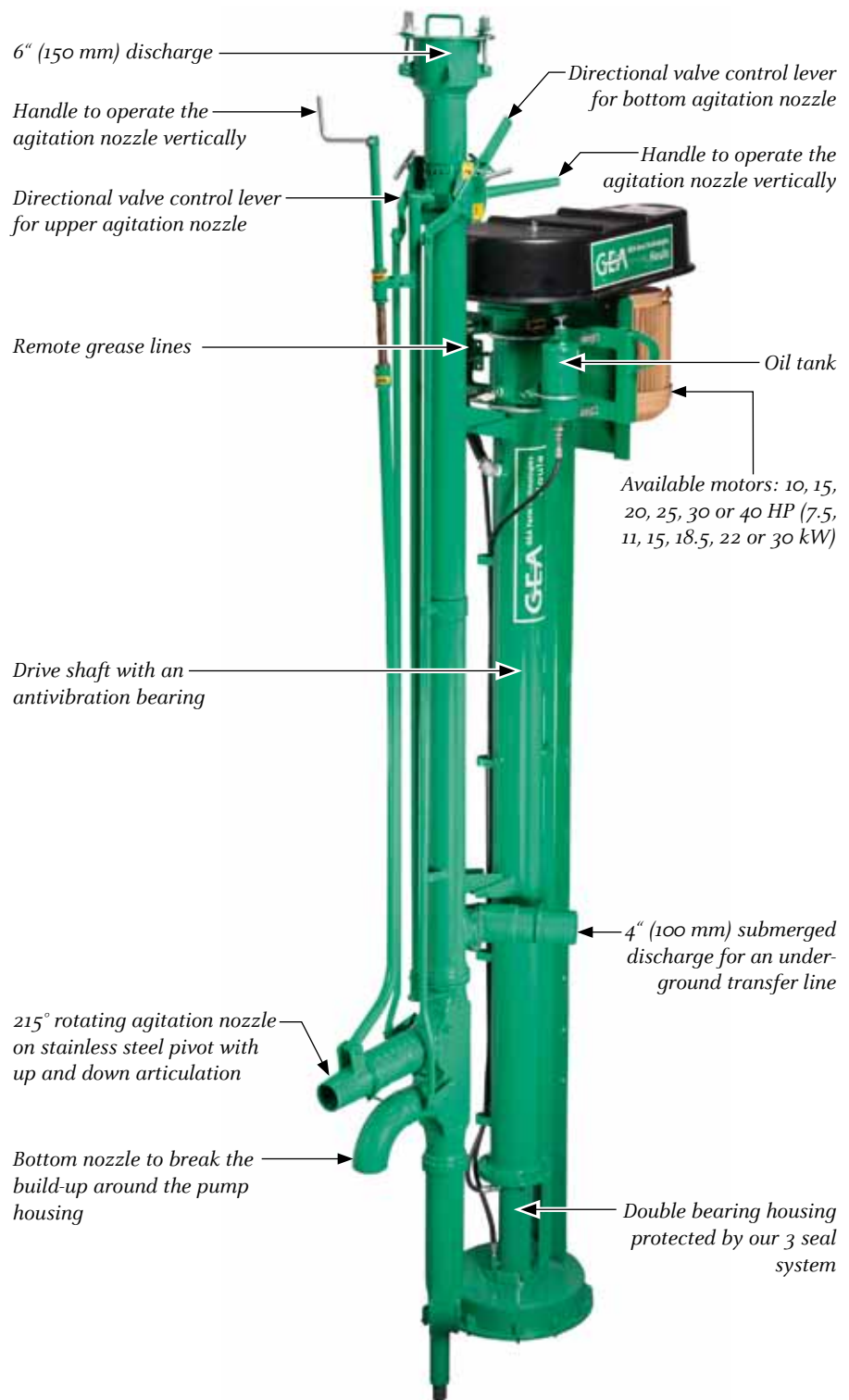
Used to transfer dairy manure from the reception pit to the main storage.

Key Features

- Belt driven pump;
- Controls are easily accessed from the top of the pump;
- The efficient design of the directional valve maximizes the pumping capacity.

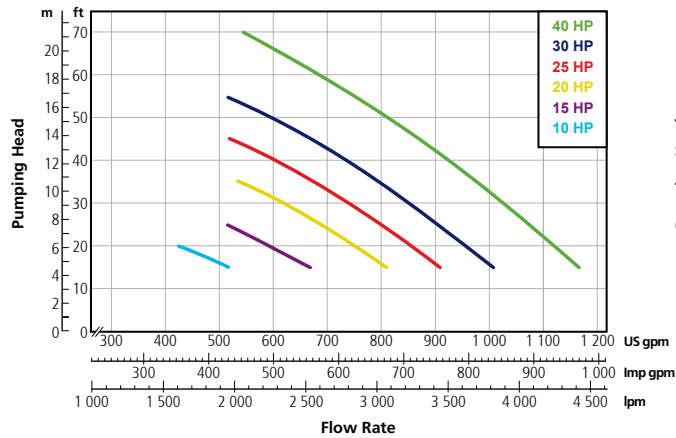
Impeller and Housing

- 12" or 16" (305 or 406 mm) impeller with 4 curved blades made of ductile cast iron;
- 6" or 8" (152 or 203 mm) intake with reversible knives.

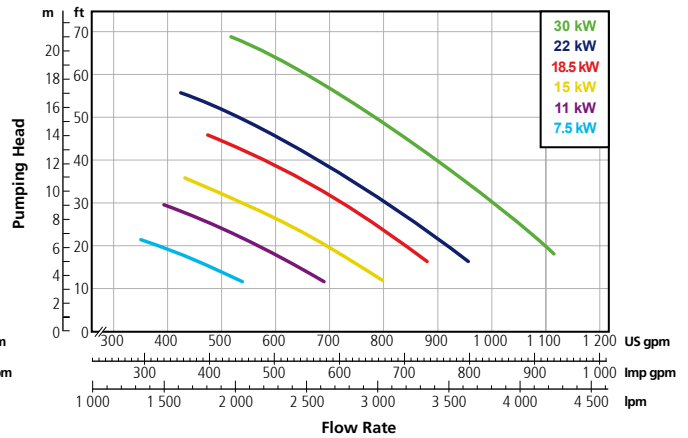


Working Range

4" Dairy Manure Pump with 60 Hz Motor



4" Dairy Manure Pump with 50 Hz Motor



Standard Equipment

- Sliding and Tilting Support to slide and tilt the pump out of the manure.



4" Hog Manure Pump

An ideal pump to transfer low consistency liquid when a high flow rate and high pressure are needed.

Hog Manure	Dairy Waste Water
Maximum consistency	
3/8" (10 mm)	

Typical Application

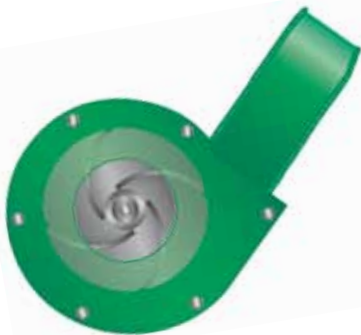
Used to agitate and transfer manure from a reception pit to the main storage.

Key Features

- Belt driven pump;
- Controls are easily accessed from the top of the pump;
- Stainless steel threaded shaft to prevent rust and corrosion;
- The nozzle is easily removed for maintenance while leaving pump in place;
- Fixed pump support.

Impeller and Housing

- Large impeller with 4 curved blades made of ductile cast iron;
- 5" (127 mm) intake.



Flexible discharge hose with 4½" I.D. (114 mm) to connect to a 4" (100 mm) pipe

Oil gauge

Nozzle rotation control lock

Directional valve lock

Handle to operate the agitation nozzle and also used as a rotation indicator

Nozzle height adjustment lock

Available motors :
5, 7.5 or 10 HP
(3.7, 5.5 or 7.5 kW)

Drive shaft with an antivibration bearing

Optional 235° rotating agitation nozzle with up and down articulation

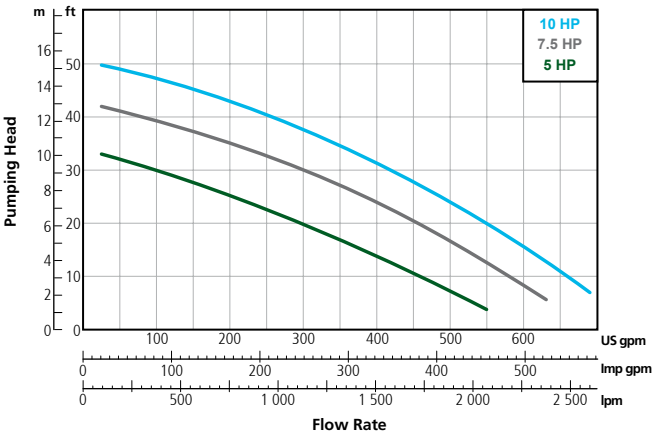
Double bearing housing protected by our 3 seal system

Directional valve

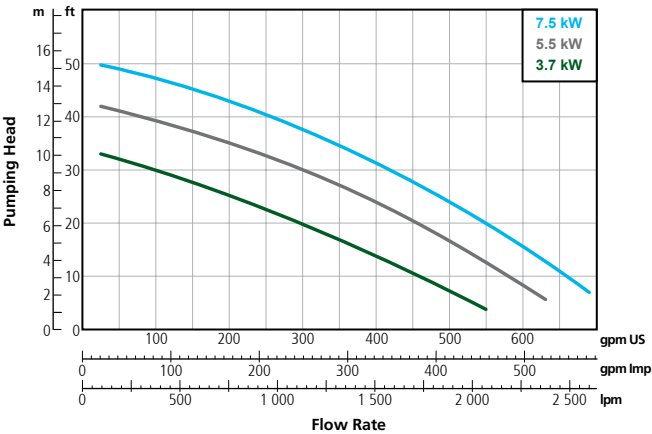


Working Range

4" Hog Manure Pump with 60 Hz Motor



4" Hog Manure Pump with 50 Hz Motor



3" High Pressure Pump

The most powerful of the 3" pumps, it will respond to high head pressures while remaining economical.

Hog Manure	Dairy Waste Water
Maximum consistency	
1/8" (3 mm)	

Typical Application

Used to transfer hog manure from the reception pit to the main storage when high head pressure is present. It can transfer liquid on relatively long distances.

Key Features

- Controls are easily accessed from the top of the pump;
- Stainless steel threaded shaft to prevent rust and corrosion;
- Delivers high pumping head;
- Adjustable pump support;
- Belt driven pump for regions on 50 Hz power.

Impeller and Housing

- Impeller with 3 curved blades made of ductile cast iron;
- 4½" (114 mm) intake.



Flexible discharge hose with 3½" I.D. (89 mm) to connect to a 3" (75 mm) pipe

Handle to operate the agitation nozzle horizontally

Oil gauge

Remote grease lines

Available with 5, 7.5 or 10 HP motors

Direct drive with jaw coupling

Upper bearing

Drive shaft with an antivibration bearing

Optional 285° rotating agitation nozzle with up and down articulation

Double bearing housing protected by our 3 seal system

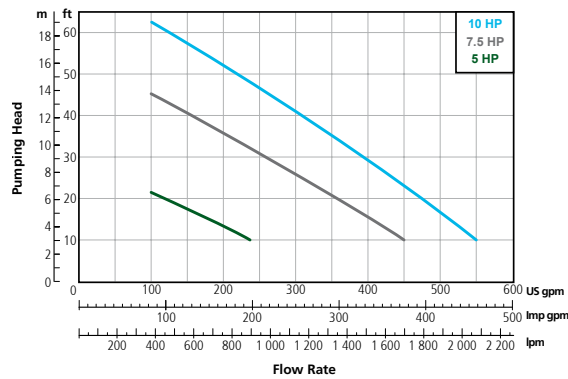
Centrifugal pump with progressive housing to deliver high pumping head

Directional valve control lever

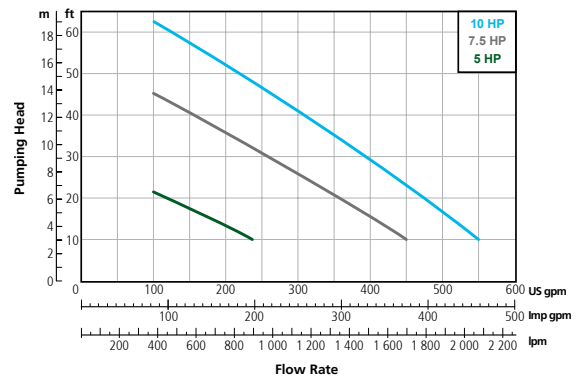
Handle to operate the agitation nozzle and also used as a rotation indicator

Working Range

3" High Pressure Pump - Direct Driven Motor for 60 Hz



3" High Pressure Pump - Belt Driven Motor for 50 Hz



3" High Pressure Pump on Pontoon

Typical Application

Reliable pump used to refill flush tanks with the surface liquid of a lagoon or a pit.

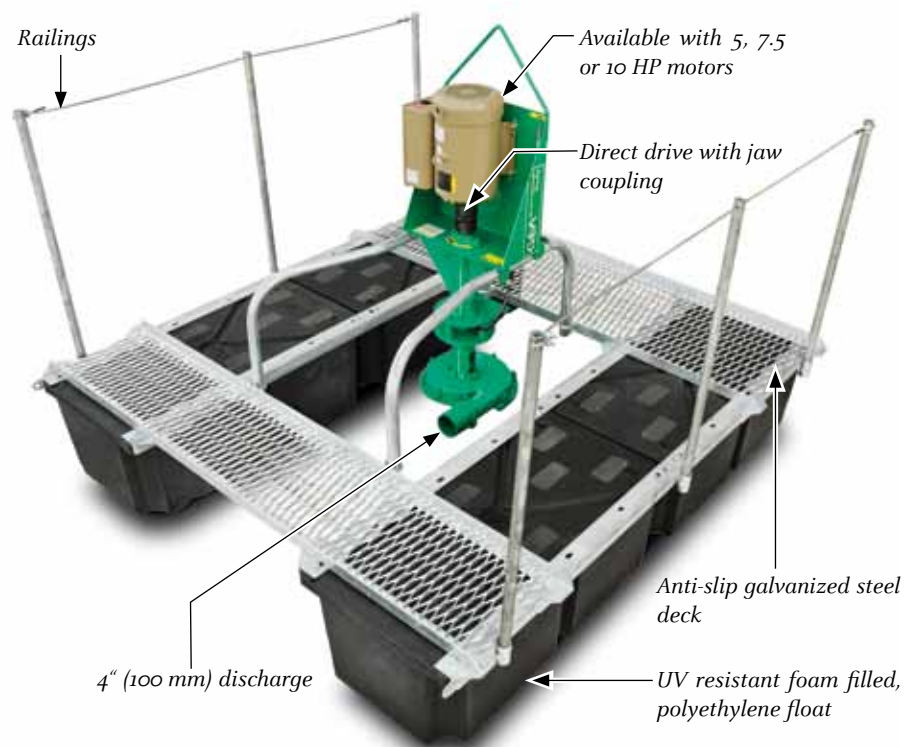
Key Features

- The impeller housing can be adjusted to pump only the surface liquid;
- Low profile design for maximum stability;
- No seals or bearings submerged in the liquid.

Float overall dimensions:

Width: 7'-3" (2.2 m)

Length: 8'-4" (2.5 m)



3" Pump*

Offers sufficient power and flow rate to transfer hog manure or dairy waste water.

Hog Manure	Dairy Waste Water
Maximum consistency	
1/4" (6 mm)	

Typical Application

Used to transfer hog manure or dairy waste water from a reception pit to the main storage.

Key Features

- Stainless steel threaded shaft to prevent rust and corrosion;
- Adjustable pump support.

Impeller and Housing

- Impeller with 4 straight blades and sharp edges;
- 4" (102 mm) intake.



Flexible discharge hose with 3½" I.D. (89 mm) to connect to a 3" (75 mm) pipe

Oil gauge

Remote grease line

Available motors: 3, 5 or 7.5 HP

Direct drive with jaw coupling

Upper bearing

Drive shaft with an antivibration bearing
Also available on bronze bushings without oil bath

Double bearing housing protected by our 3 seal system

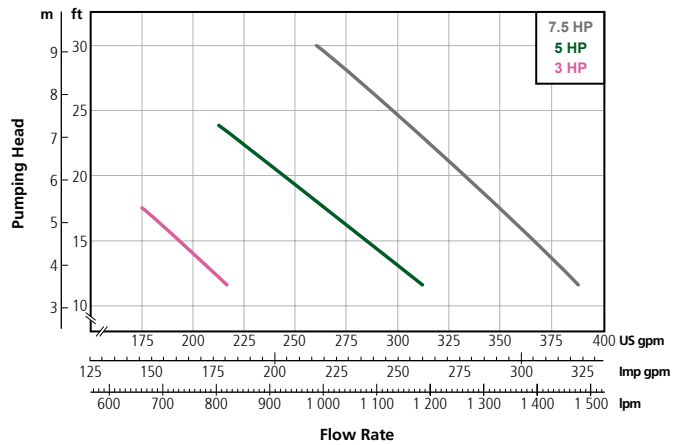
Long radius discharge elbow to limit friction loss



* Not available for 50 Hz electric motor

Working Range

3" Pump with 60 Hz Motor



Optional Equipment

- **Rigid Agitation Nozzle** for 285° horizontal rotation;
- **Vertical Articulation** for 285° horizontal rotation with up and down adjustment on the nozzle.



3" Compact Pump*

As reliable as the 3" Pump, this compact version offers performance and efficiency where space is limited.

Hog Manure	Dairy Waste Water
Maximum consistency	
1/4" (6 mm)	

Typical Application

Used to transfer hog manure or dairy waste water from a reception pit to the main storage.

Key Features

- The pump can be installed in a hole as small as 16" (406 mm) in diameter;
- Stainless steel threaded shaft to prevent rust and corrosion;
- Adjustable pump support.

Impeller and Housing

- Impeller with 2 straight blades and sharp edges;
- Compact housing that fits in a small pit opening;
- 4" (102 mm) intake.



Flexible discharge hose with 3½" I.D. (89 mm) to connect to a 3" (75 mm) pipe

Oil gauge

Available motors: 3 or 5 HP

Direct drive with jaw coupling

Upper bearing

Remote grease line

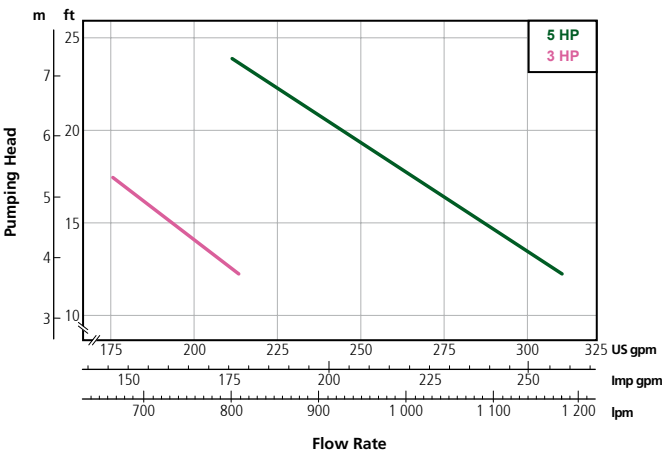
Drive shaft with an antivibration bearing
Also available on bronze bushings without oil bath

Double bearing housing protected by our 3 seal system

* Not available for 50 Hz electric motor

Working Range

3" Compact Pump with 60 Hz Motor





We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA Group is a global engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881, the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX® Europe 600 index.

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