Electric Pumps

High performance centrifugal pumps to transfer liquid manure

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.
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 worldwide 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.
**3” Compact Pump***

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

### 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.

### 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.

### 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.

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**Hog Manure**

<table>
<thead>
<tr>
<th>Maximum consistency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4” (6 mm)</td>
</tr>
</tbody>
</table>

**Dairy Waste**

<table>
<thead>
<tr>
<th>Maximum consistency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4” (6 mm)</td>
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</table>

**Water**

<table>
<thead>
<tr>
<th>Maximum consistency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2” (13 mm)</td>
</tr>
</tbody>
</table>

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*Not available for 50 Hz electric motor*
8” Flush Pump

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

Flush Liquid

<table>
<thead>
<tr>
<th>Maximum consistency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8” (3 mm)</td>
</tr>
</tbody>
</table>

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).

Flange dimensions: 8” (200 mm) discharge
- Drive shaft with an antivibration bearing
- Pump bracket for the optional pump support that allows the pump to slide and tilt out of the manure for maintenance
- Optional 6” (150 mm) nozzle with cast iron valve to recirculate the manure in the pit
- Double bearing housing protected by our 3 seal system
- Oil gauge
- Remote grease lines
- Oil tank

Optional Equipment

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

Working Range

3” Pump with 60 Hz Motor

<table>
<thead>
<tr>
<th>Flow Rate (gpm)</th>
<th>Discharge (gpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>25</td>
</tr>
<tr>
<td>200</td>
<td>30</td>
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<tr>
<td>250</td>
<td>35</td>
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<td>300</td>
<td>40</td>
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<tr>
<td>350</td>
<td>45</td>
</tr>
<tr>
<td>400</td>
<td>50</td>
</tr>
</tbody>
</table>

Available motors: 7.5, 10, 15, 20, 25, 30, 40 or 50 HP (5.5, 7.5, 11, 15, 18.5, 22, 30 or 37 kW)

Impeller and Housing

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

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

<table>
<thead>
<tr>
<th>Hog Manure</th>
<th>Dairy Waste Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum consistency</td>
<td>1/4” (6 mm)</td>
</tr>
</tbody>
</table>

**Typical Application**

Used to transfer hog manure or dairy waste water from a receiving 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.

- 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.

**Flexible discharge hose with 3/4” LD (9.5 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**

**Working Range**

**8” Flush Pump with 60 Hz Motor**

Max. Pumping Head Configuration

<table>
<thead>
<tr>
<th>Flow Rate (gpm)</th>
<th>Max. 20 HP</th>
<th>Max. 25 HP</th>
<th>Max. 37.5 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 gpm</td>
<td>8 gpm</td>
<td>8 gpm</td>
<td>8 gpm</td>
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<tr>
<td>10 gpm</td>
<td>10 gpm</td>
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<td>12 gpm</td>
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<tr>
<td>16 gpm</td>
<td>16 gpm</td>
<td>16 gpm</td>
<td>16 gpm</td>
</tr>
</tbody>
</table>

**8” Flush Pump with 50 Hz Motor**

Max. Pumping Head Configuration

<table>
<thead>
<tr>
<th>Flow Rate (gpm)</th>
<th>Max. 20 HP</th>
<th>Max. 25 HP</th>
<th>Max. 37.5 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 gpm</td>
<td>8 gpm</td>
<td>8 gpm</td>
<td>8 gpm</td>
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<tr>
<td>10 gpm</td>
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<tr>
<td>12 gpm</td>
<td>12 gpm</td>
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<td>12 gpm</td>
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<tr>
<td>16 gpm</td>
<td>16 gpm</td>
<td>16 gpm</td>
<td>16 gpm</td>
</tr>
</tbody>
</table>

**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)

*Not available for 50 Hz electric motor*
4" Agi-Pompe

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

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

3" High Pressure Pump

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” High Pressure Pump

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

<table>
<thead>
<tr>
<th>Hog Manure</th>
<th>Dairy Waste</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum consistency</td>
<td>1/8” (3 mm)</td>
<td>1/4” (6 mm)</td>
</tr>
</tbody>
</table>

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.

Flexible discharge hose with 3/4” LD (89 mm) to connect to a 3” (75 mm) pipe

Flexible discharge hose with 3/4” LD (89 mm) to connect to a 3” (75 mm) pipe

Directional valve control lever

Handle to operate the agitation nozzle horizontally

Remote grease lines

Available with 5, 7.5 or 10 HP motors

Direct drive with jaw coupling

Drive shaft with an antivibration bearing

Centrifugal pump with progressive housing to deliver high pumping head

Double bearing housing protected by a 3 seal system

Opted 250° rotating agitation nozzle with up and down articulation

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

Typical Application

4½” (114 mm) intake.

• 4½” (114 mm) intake.

• Impeller with 3 curved blades made of ductile cast iron;

• 4½” (114 mm) intake.

• Impeller with 3 curved blades made of ductile cast iron;

• 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.

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)

A winch is provided to lower the pump and to direct the propeller toward the bottom sediments

Available motors: 15, 20, 25, 30, 40 or 50 HP (11, 18.5, 22, 30 or 37 kW)

Anti-slip galvanized steel deck

10° resistant foam filled, polyethylene float

6’ (150 mm) discharge

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)

A winch is provided to lower the pump and to direct the propeller toward the bottom sediments

Available motors: 15, 20, 25, 30, 40 or 50 HP (11, 18.5, 22, 30 or 37 kW)

Anti-slip galvanized steel deck

10° resistant foam filled, polyethylene float

6’ (150 mm) discharge
4” High Pressure Pump

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

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).

Working Range
4” Hog Manure Pump

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

**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.

**Double bearing housing protected by our 3 seal system**

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

**Nozzle rotation control lock**

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

**Maximum consistency**

- ¼" (6 mm)

**Typical Application**

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

**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.

**Double bearing housing protected by our 3 seal system**

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

**Nozzle rotation control lock**

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

**Maximum consistency**

- ¼" (6 mm)

**Typical Application**

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

**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.

**Double bearing housing protected by our 3 seal system**

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

**Nozzle rotation control lock**

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

**Maximum consistency**

- ¼" (6 mm)

**Typical Application**

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

**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.

**Double bearing housing protected by our 3 seal system**

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

**Nozzle rotation control lock**

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

**Maximum consistency**

- ¼" (6 mm)

**Typical Application**

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

**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.

**Double bearing housing protected by our 3 seal system**

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

**Nozzle rotation control lock**

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

**Maximum consistency**

- ¼" (6 mm)

**Typical Application**

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

**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.

**Double bearing housing protected by our 3 seal system**

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

**Nozzle rotation control lock**

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

**Maximum consistency**

- ¼" (6 mm)
4" Dairy Manure Pump

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

**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.

**Working Range**

**Standard Equipment**
- Sliding and Tilting Support to slide and tilt the pump out of the manure.
4" Dairy Manure Pump

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

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.

Working Range

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.

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.

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.

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
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

Available motors: 5, 7.5 or 10 HP (3.7, 5.6 or 7.5 kW)

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)

Pump can be winched up for maintenance

Available motors: 20, 25, 30 or 40 HP (15, 18.5, 22 or 30 kW)

Anti-slip galvanized steel deck

UV resistant foam filled, polyethylene float

6” (150 mm) discharge

Typical Application

Water

Liquide de chasse d’eau

Dairy Manure

Hog Manure

Purin

Consistance maximum

Liquide de Flush

1/4” (6 mm)

1/8” (3 mm)

1/2” (13 mm)

Maximum consistency

3/8” (10 mm)

Width: 7’-8” (2.3 m)

Float overall dimensions:
4” High Pressure Pump

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

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

• 24 1/2" (668 mm) impeller with 3 curved blades made of ductile cast iron;
• 6 1/2" (165 mm) intake with fixed knives.

Working Range

Directional valve control lever

Handle to operate the agitation nozzle horizontally

Oil gauge

Available motors: 20, 25, 30 or 40 HP (15, 18.5, 22 or 30 kW)

Remote grease lines

Drive shaft with an antivibration bearing

Optional 4" (100 mm) submerged discharge for an underground transfer line

Optional 215° 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

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.

<table>
<thead>
<tr>
<th>Hog Manure</th>
<th>Dairy Waste Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum consistency</td>
<td>1/8” (3 mm)</td>
</tr>
</tbody>
</table>

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.
- 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.

Key Features

- Flexible discharge hose with 3/4” ID. (89 mm) to connect to a 3” (75 mm) pipe
- Directional valve control lever
- 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
- Impeller and Housing
  - Impeller with 3 curved blades made of ductile cast iron;
  - 45° (114 mm) intake

4” Horizontal Agi-Pompe on Pontoon

Typical Application

- Used to agitate and transfer the rejected liquid from manure separators.
- A winch is provided to lower the pump and to direct the propeller toward the bottom sediments
- Propeller with knife to cut fibrous material
- UV resistant foam filled, polyethylene float
- 6” (150 mm) discharge
- Railings
- Available motors: 15, 20, 25, 30, 40 or 50 HP (22, 30, 37 kW)
- Extendable anti-slip galvanized deck to reach the pump and the propeller

Working Range

4” Agi-Pompe with 60 Hz Motor

4” Agi-Pompe with 50 Hz Motor

4½” (114 mm) intake.
4” Agi-Pompe

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

<table>
<thead>
<tr>
<th>Dairy Manure</th>
<th>Flush Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum consistency</td>
<td>1/2” (13 mm)</td>
</tr>
</tbody>
</table>

**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.

**Drive shaft with an anti vibration bearing**

**Optional 4” (100 mm) submerged discharge for an underground transfer line**

**Optional 215° rotating agitator nozzle with up and down articulation**

**Drain**

16”, 18”, 20” or 24” (406, 457, 508 or 610 mm) propeller, depending on manure type

**Propeller knife to cut fibrous material**

**Conical receptacles offer a strong and stable anchoring point for the pump**

**Handle to operate the agitation nozzle horizontally**

**Control lever to operate the directional valve**

**Remote grease lines**

**Oil tank**

**Oil gauge**

**Gear box**

**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)

**Working Range**

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

**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.

Typical Application
Used to transfer hog manure or dairy waste water from a recepti- on pit to the main storage.

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

Working Range

8" Flush Pump on Pontoon

Typical Application
Used to pump the surface liquid of a reservoir or lagoon when feed- ing 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)

* CWVGWT
8” Flush Pump

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

**Flush Liquid**

<table>
<thead>
<tr>
<th>Maximum consistency</th>
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<tbody>
<tr>
<td>1/8” (3 mm)</td>
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**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](image)

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

![Optional Equipment](image)

- Vertical Articulation for 285° horizontal rotation with up and down adjustment on the nozzle.

**Working Range**

![Graph](image)

**Available motors:** 7.5, 10, 15, 20, 25, 30, 40 or 50 HP (5.5, 7.5, 11, 15, 18.5, 22, 30 or 37 kW)

- Remote grease lines;
- Double bearing housing protected by our 3 seal system.
- Oil tank;
- Oil gauge;
- Drive shaft with an antivibration bearing;
- Pump bracket for the optional pump support that allows the pump to slide and tilt out of the manure for maintenance.

8” (200 mm) discharge

- 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)
- Rigid Agitation Nozzle for 285° horizontal rotation
**3” Compact Pump**

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

<table>
<thead>
<tr>
<th>Hog Manure</th>
<th>Dairy Waste</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum consistency</td>
<td>1/4” (6 mm)</td>
<td></td>
</tr>
</tbody>
</table>

**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.

### 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

<table>
<thead>
<tr>
<th>Pump Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8” Flush Pump</td>
<td>Low RPM pump offering a high flow rate and remarkable performance to feed a flush system.</td>
</tr>
<tr>
<td>4” Agi-Pompe</td>
<td>Stands out from the other pumps because of its ability to provide both high performance pumping and high efficiency agitation.</td>
</tr>
<tr>
<td>4” High Pressure Pump</td>
<td>Reaches its full potential when responding to high head pressures or when used to transfer relatively long distances.</td>
</tr>
<tr>
<td>4” Dairy Manure Pump</td>
<td>The perfect balance between pressure, flow rate and agitation quality for efficient and optimal results.</td>
</tr>
<tr>
<td>4” Hog Manure Pump</td>
<td>An ideal pump to transfer low consistency liquid when high flow rate and high pressure are needed.</td>
</tr>
<tr>
<td>3” High Pressure Pump</td>
<td>The most powerful of the 3” pumps, it will respond to high head pressures while remaining economical.</td>
</tr>
<tr>
<td>3” Pump</td>
<td>Offers sufficient power and flow rate to transfer hog manure or dairy waste water.</td>
</tr>
<tr>
<td>3” Compact Pump</td>
<td>As reliable as the 3” Pump, this compact version offers performance and efficiency where space is limited.</td>
</tr>
</tbody>
</table>

#### 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.
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.

working range

3” Compact Pump with 60 Hz Motor

<table>
<thead>
<tr>
<th>Flow Rate</th>
<th>Head</th>
</tr>
</thead>
<tbody>
<tr>
<td>750 gpm</td>
<td>3 ft</td>
</tr>
<tr>
<td>1000 gpm</td>
<td>2 ft</td>
</tr>
<tr>
<td>1250 gpm</td>
<td>1 ft</td>
</tr>
</tbody>
</table>
Electric Pumps

High performance centrifugal pumps to transfer liquid manure