Tank Filling Systems
for Petroleum Products
What is it used for?

Generally used with aboveground storage tanks, although some underground uses as well.

What is it?

An easy means of filling aboveground storage tanks from delivery trucks.

From pumpers...

From gravity trucks...

With manual shutoff

With automatic shutoff

One Tank or Multiple Tanks

What kinds of products can I deliver with this system?

Petroleum products and automotive products

• Fuel Oils
• Jet Fuel
• Gasoline
• Lube Oils
• Transmission Fluid

• Hydraulic Oils
• Brake Fluid
• Antifreeze
• Contact Simplex for other products

Why do I need this Simplex system?

• Easy fill of aboveground storage tanks
• Eliminates ladders, top fill
• Allows use of gravity truck with tall aboveground storage tanks
• Controls and prevents spills
• Provides fill shutoff
• Allows multiple tank filling
• Factory standard, packaged
• Highly engineered
• Economical

CODES:
FP and FFP: EQ 481
AFP, SP, CAFP, and MSP: EQ 706
Non-Explosion Proof Controller: UL 508A
Spill Containment: UL 6M86, United States and Canada
## Tank Filling Systems

**Selection Guide and Table of Contents**

### TANK FILLING SYSTEMS

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<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 or more</td>
<td></td>
<td>12, 13</td>
</tr>
</tbody>
</table>

*Class I Liquid, <100°F Flash Point
Class II Liquid, >100°F Flash Point*

### CONTROLLERS AND OTHER PRODUCTS

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**SmartPump with optional full enclosure.**
Lockable, with containment basin and hand pump.
*(Stainless steel cabinet available.)*
FuelPort

Description
The Simplex FuelPort is a compact, economical solution for simple filling and spill prevention for aboveground storage tanks. The FuelPort includes all valves and fittings necessary for hose connection from a pumper truck to an above ground storage tank, packaged within a lockable, weatherproof spill containment box. The FuelPort can be bolted to the tank, hung from the fill pipe, or attached via clamps to a 3" post. The FuelPort is suitable for use with fuel oil, gasoline, automotive products, or certain chemicals. An optional vapor recovery adaptor is available.

Includes:
• Weatherproof, lockable box with spill containment
• Tank mounting weld brackets (2)
• FuelPort mounting tabs to accept weld brackets (above) or optional 3" post clamps
• Quick disconnect hose coupling with dust plug
• Hand pump for spill containment, with shutoff and check valve
• Check valve
• Shutoff valve
• Ground stud

Specifications:
Fitting size: 2", 3" or 4"
Hand pump capacity: 1 gpm
Paint: white
Spill containment:
Compact FuelPort - 7 gallons
Full-Size FuelPort - 20 gallons
Net weight:
Compact FuelPort - 129 lbs.
Full-Size FuelPort - 250 lbs.

Fittings: 2", 3" or 4"
Inlet to accept:
• Standard fitting: Quick detachable coupling with check valve, shutoff ball valve
• Optional fitting: Buyer specified dry disconnect
Outlet fitting:
• Threaded pipe welded in top panel, 3" NPT threads
• Optional gasoline vapor recovery adaptor
FuelPort

FuelPort with Flush Wall-Mounting Flange

**FuelPort Installation:**

- Mount to side of tank using weld brackets (included with FuelPort)
- Hang from Fill Pipe (pipe hanger required)
- Clamp to Post (see options list)

**FuelPort Order Checklist**

- Specify fitting size: 2", 3" or 4"
- If gasoline use, is vapor recovery required?

**Options:**

- Fire rated valves
- Dry disconnect adapter (Full-Size FuelPort only)
- Fuel strainer (Full-Size FuelPort only)
- Hydrostatic level gauge
- Flush wall-mounting flange
- Post assembly with base, 48" high, w clamps
- Post clamps
- Fusible link fire valve on outlet
- Stainless steel cabinet construction
Automatic FuelPort

Description

The Simplex Automatic FuelPort is a factory packaged system for control of filling operations of aboveground tanks that are filled from pumper trucks. The Automatic FuelPort provides a ready means of ground level connection of the fill hose, and captures spills that may occur at the fill point during filling operations. The Automatic FuelPort alerts the operator at Tank Full with filling operations locked out at High Level. A leak detection circuit prevents filling of leaking tanks. Visual and audible level and leak alarms and continuous level indication are provided.

The Simplex Automatic Fuel-Port is available for use with fuel oil (Class-II liquids) or gasoline (Class-I liquids).

Single or multiple tank controllers are available. Multiple tank controllers allow operator selection of the tank to be filled with automatic lockout of all other tanks. (refer to page 8 and 9)

How It Works:

1. Delivery truck arrives and driver proceeds to Automatic FuelPort to make fuel delivery.
2. Connect ground cable
3. Unlock fill box and control box
4. Turn on controller
5. Read fuel level in tank on level indicator gauge
6. Connect delivery hose to hose coupling
7. Open valve on truck
8. Start delivery pump on truck
9. Press Valve Open pushbutton on controller
10. Automatic FuelPort valve opens
11. Fuel is delivered to tank
12. At Tank Full level, audible and visual alarm activates and alerts driver
13. Driver may stop delivery by pressing the Valve Close pushbutton and proceed to step #16
14. Driver tops off to Tank Full
15. At High Level, audible and visual alarm activates and Automatic FuelPort valve closes (valve may not be reopened)
16. Stop fill pump
17. Drain delivery hose
18. Close truck valve
19. Disconnect delivery hose from Automatic FuelPort
20. Turn controller off
21. Close and lock Automatic FuelPort doors
22. Proceed to next delivery, where, hopefully, the owner has had the foresight to install a Simplex Automatic FuelPort

Includes:

- Freestanding, pad or tank mountable, weatherproof and lockable enclosure
- Quick disconnect hose coupling with dust plug
- Check valve
- Electrically operated shutoff valve
- Automatic controller, described below
- Hand pump for spill containment, with shutoff and check valve
- Ground stud

Level Transmitter
Controller

Includes:
• Level transmitter for installation in 2” tank fitting minimum
• Digital level indicator scaled in percent level (diesel version only)
• Tank full visual alarm
• High level visual alarm
• Tank leak alarm
• Audible alarm horn activated by alarms above
• Power available indicator
• Control power On-Off switch
• Valve Open/Close push-buttons
• Type 3R enclosure (fuel oil version)
• Explosion proof enclosure (gasoline version)

Specifications:
Fitting size: 2”, 3” or 4”
Spill containment:
Automatic FuelPort - 20 gallons
Compact Automatic FuelPort - 7 gallons
Hand pump capacity: 1 gpm
Paint: white
Net Weight: 313 lbs. (Oil), 363 lbs. (Gas)
Control power: 115-1-60v
Level transmitter fitting: 2” min.

Automatic FuelPort Order Checklist

☐ If gasoline use, is vapor recovery required?
☐ How many tanks to fill?
☐ Tank leak sensing required?
☐ Size fill fittings: 2”, 3” or 4”?
☐ Accurate tank dimensions required, 2” or 4” fitting required for transmitter (specify)
☐ Specify options
Automatic FuelPort for Filling Multiple Tanks

Description

When used for filling of two or more tanks, the Automatic FuelPort allows for operator selection of the tank to be filled with automatic lockout of all off-line tanks. Sophisticated interlocks prevent inadvertent filling of a non-selected tank.

Tank Full alert and High Level automatic shutoff are provided. Tank level indicator and (optional) leak sensing are included.

5-Tank Automatic FuelPort

Automatic FuelPorts for use in the filling of multiple tanks include electrically operated shut off valves for each tank. These are shipped loose for installation at the inlet to each tank.
SmartPump

Description
The Simplex SmartPump is a tank fill pump with intelligence. The SmartPump is a factory packaged system for transfer of fuel from gravity trucks to storage tanks and control of filling operations to prevent overfill and allow for full draining of the truck delivery hose. The SmartPump provides a ready means of ground level connection of the fill hose, and captures spills that may occur at the fill point during filling operations. The SmartPump includes a high capacity fuel transfer pump and intelligent pump controls. The unique design and intelligence of the SmartPump allows full and easy draining of the truck fill hose prior to disconnect. The SmartPump detects Tank Full level, stops filling operations and activates an alarm. The SmartPump allows the operator to continue filling and/or drain the fill hose up to the High Level at which time all filling operations are locked out and an alarm is activated. A leak detection circuit prevents filling of leaking tanks. Visual and audible level and leak alarms and continuous level indication are provided.

The Simplex SmartPump is available for use with fuel oil (Class-II liquids) or gasoline (Class-I liquids).

How It Works:
1. Delivery truck arrives and driver proceeds to SmartPump to make fuel delivery
2. Connect ground cable
3. Unlock fill box and control box
4. Turn on controller
5. Connect delivery hose to hose coupling
6. Open valve on truck
7. Open SmartPump inlet valve
8. Open SmartPump outlet valve
9. Start SmartPump
10. Fuel is delivered to tank
11. At Tank Full level, audible and visual alarm activates and alerts driver, SmartPump stops
12. Driver may stop delivery at this point
13. Driver can restart SmartPump by pressing the Override pushbutton and pressing the Pump Start pushbutton. Pump will run for 30 second intervals
14. Driver can continue filling or drain delivery hose at this time
15. To drain hose, driver closes truck valve and breaks hose connection at tank and allows SmartPump to empty hose
16. Driver may restart SmartPump in 30 second intervals, but all filling and hose draining operations must be ended and truck valve closed prior to reaching High Level
17. At High Level, audible and visual alarm activates and SmartPump stops. SmartPump can not be restarted
18. Close SmartPump outlet valve
19. Close SmartPump inlet valve
20. Disconnect delivery hose and ground cable
21. Turn controller off
22. Close and lock SmartPump doors
23. Proceed to next delivery, where, hopefully, the owner has had the foresight to install a Simplex SmartPump
Specifications:
Fitting size: 2", 3" or 4"
Spill containment: 7 gallons
Paint: white
Net weight: 617 lbs. (Oil), 632 lbs. (Gas)
High level floatset: 2"

Includes:
• Freestanding, pad mountable, open construction pumpset with weatherproof and lockable fill box with 7 gallon spill containment sump and weatherproof and lockable control box
• 2", 3" or 4" fittings available
• Quick disconnect hose coupling with dust plug
• Inlet shutoff valve
• Check valve
• Outlet shutoff valve
• Line purging valve
• Spill sump drain valve
• High capacity transfer pump, see details below
• Automatic controller, described below
• Ground stud

Controller Includes:
• High level floatset for installation in 2" tank fitting minimum
• Tank Full visual alarm
• High Level visual alarm
• Tank Leak alarm
• Audible alarm horn activated by alarms above
• Power Available indicator
• Control Power On-Off switch
• Pump Start/Stop push-buttons
• Top-off/hose drain mode push-button
• Pump starter
• Type 3R control enclosure (fuel oil version)
• Type 7 explosion proof control enclosure (gasoline version)

Pump Performance

<table>
<thead>
<tr>
<th></th>
<th>Head (ft.)</th>
<th>Gpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>SmartPump with 2 hp pump, 2&quot; inlet:</td>
<td>75</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>65</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>55</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>40</td>
<td>350</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>400</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Head (ft.)</th>
<th>Gpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>SmartPump with 5 hp pump, 3&quot; or 4&quot; inlet:</td>
<td>75</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>65</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>55</td>
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<tr>
<td></td>
<td>40</td>
<td>350</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>400</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Head (ft.)</th>
<th>Gpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas SmartPump with Vapor Recovery</td>
<td>55</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>45</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>35</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>200</td>
</tr>
</tbody>
</table>

SmartPump Order Checklist
- If gasoline use, is vapor recovery required?
- How many tanks to fill?
- 2 hp (150 gpm) or 5 hp (300 gpm) SmartPump?
- Specify voltage: single phase: 120v or 240v; 3 phase: 208, 240, 416, 480v
- If 5 hp, 3" or 4" inlet?
- Tank leak sensing required?
- Accurate tank dimensions required, 2" or 4" fitting required for transmitter (specify)
- Specify options
## Single-Tank SmartPumps

Includes level transmitter shipped loose for remote tank mounting

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>APPLICATION**</th>
<th>FITTINGS</th>
<th>HP/GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP-2</td>
<td>Oil</td>
<td>2&quot;</td>
<td>2/150</td>
</tr>
<tr>
<td>SP-2G</td>
<td>Gas</td>
<td>2&quot;</td>
<td>2/150</td>
</tr>
<tr>
<td>SP-3</td>
<td>Oil</td>
<td>3&quot;</td>
<td>5/300</td>
</tr>
<tr>
<td>SP-3G</td>
<td>Gas</td>
<td>3&quot;</td>
<td>5/300***</td>
</tr>
<tr>
<td>SP-3GV</td>
<td>Gas, with vapor recovery</td>
<td>3&quot;</td>
<td>5/300***</td>
</tr>
<tr>
<td>SP-4*</td>
<td>Oil</td>
<td>4&quot;</td>
<td>5/300</td>
</tr>
<tr>
<td>SP-4G*</td>
<td>Gas</td>
<td>4&quot;</td>
<td>5/300***</td>
</tr>
<tr>
<td>SP-4GV*</td>
<td>Gas, with vapor recovery</td>
<td>4&quot;</td>
<td>5/300***</td>
</tr>
</tbody>
</table>

*4" inlet, 3" internals and outlet

**APPLICATION:** "Oil" = Class II liquid, flash point > 100° F  
"Gas" = Class I liquid, flash point < 100° F

***SP-3, SP-4 Gasoline (or Explosion-Proof) SmartPumps rated at 5 hp, 300 gpm must be 3-phase voltage. If only single phase is available at job site then a SP-2 at 2 hp, 150 gpm can be used. However, Simplex can install a larger inlet coupling as required.

## Two-Tank SmartPumps

Includes two level transmitters and two electrically operated shutoff valves shipped loose for remote tank mounting.

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>APPLICATION**</th>
<th>FITTINGS</th>
<th>HP/GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP-2/2</td>
<td>Oil</td>
<td>2&quot;</td>
<td>2/150</td>
</tr>
<tr>
<td>SP-2G/2</td>
<td>Gas</td>
<td>2&quot;</td>
<td>2/150</td>
</tr>
<tr>
<td>SP-3/2</td>
<td>Oil</td>
<td>3&quot;</td>
<td>5/300</td>
</tr>
<tr>
<td>SP-3G/2</td>
<td>Gas, w/vapor rec</td>
<td>3&quot;</td>
<td>5/300***</td>
</tr>
<tr>
<td>SP-4/2*</td>
<td>Oil</td>
<td>4&quot;</td>
<td>5/300</td>
</tr>
<tr>
<td>SP-4G/2*</td>
<td>Gas</td>
<td>4&quot;</td>
<td>5/300***</td>
</tr>
<tr>
<td>SP-4GV/2*</td>
<td>Gas, w/vapor rec</td>
<td>4&quot;</td>
<td>5/300***</td>
</tr>
</tbody>
</table>

*4" inlet, 3" internals and outlet

**APPLICATION:** "Oil" = Class II liquid, flash point > 100° F  
"Gas" = Class I liquid, flash point < 100° F

***SP-3, SP-4 Gasoline (or Explosion-Proof) SmartPumps rated at 5 hp, 300 gpm must be 3-phase voltage. If only single phase is available at job site then a SP-2 at 2 hp, 150 gpm can be used. However, Simplex can install a larger inlet coupling as required.

## Multiple Tank SmartPumps

Two or more tanks: includes level transmitters, and electrically operated shutoff valves for remote tank mounting (one set for each tank). Thermal expansion pressure relief valve shipped loose (one for each system). Change model number suffix to indicate number of tanks.

## SmartPump Options:

### Inlet Fittings:

- Standard quick disconnect coupling:
  - 2", 3" or 4":
    - 2" available for 2 hp SmartPump
    - 3" and 4" available for 5 hp SmartPump
- Dry disconnect adaptor: 2" or 3":
  - 2" available for 2 hp SmartPump
  - 3" available for 5 hp SmartPump

### Valves:

- Fusible link fire valve, installed on outlet
- Fire rated shutoff valves, in lieu of standard bronze valves
- Fire rated shutoff valve assembly for installation on aboveground storage tank fuel inlet, including fire rated ball valve and self-closing fusible link valve (shipped loose)

### Leak Sensors:

- Tank leak sensor, float switch type, for mounting in a vertical position in collection sumps, monitoring pipes and steel double wall tank sumps. For installation in 2" fitting. SmartPump controller includes: tank leak alarm, tank fill shutoff, alarm contacts.
- Tank leak sensor, as above, except optical type, for restricted space installation in tank annular space, double wall pipe collection sump, etc.
- Tank lead sensor, floatswitch type, adjustable on cord with cinch-lock fitting
SmartPump
Options cont’d:

Indicator Gauges:
• Digital level indicator, percent level reading. Includes level transmitter for installation in 2” NPT fitting
• Digital tank monitor with display of tank level in gallons, liters or percent; high and low level alarms, audible alarm; output contact. Includes level transmitter for installation in 2” NPT fitting

• Hydrostatic level gauge, hand pump type with 5” dial type indicator calibrated in gallons. Transmitter installed in 2” tank fitting

Enclosures:
• Lockable full enclosure with containment basin and hand pump
• Stainless steel cabinet construction for corrosive or coastal environments is also available

SmartPump

Gas SmartPump

SmartPump with Lockable Enclosure
Mini SmartPump

The Mini SmartPump, a smaller version of the SmartPump, includes a low to medium capacity fuel transfer pump and intelligent pump controls ideal for those situations where filling a remote 50 to 1000 gallon tank is required. The Mini SmartPump offers control of filling operations to prevent overfill and to allow for fuel draining of the truck delivery hose. The Mini SmartPump provides a ready means of ground level connection of the fuel hose and captures spills that may occur at the fill point during filling operation. Features include:

- Freestanding, pad mountable, fully enclosed cabinet construction with weatherproof and lockable fill connection and control boxes, 20 gallon spill containment sump
- 2", 3", or 4" fittings available
- Quick disconnect hose coupling with dust plug (dry break type are also available)
- Inlet shutoff valve
- Check valve
- Outlet shutoff valve
- Pump flow sensor for timed delay auto-shutoff
- Sump drain valve for sump to pump emptying
- Positive displacement transfer pump available in 2, 7, 10, 17 or 25 GPM
- Automatic controller
- Ground stud

Voltagess

- 115-240v, 1-phase, 60 Hz
- 230-460v, 3-phase, 60 Hz

Controller Includes

- Level transmitter for installation in 2" tank fitting
- Tank Full visual alarm
- High Fuel visual alarm
- Tank Leak visual alarm
- Audible alarm horn activated by alarms above
- Pump Loss of Flow sensor/alarm
- Power Available indicator
- Control Power On-Off switch
- Pump Start/Stop pushbuttons
- Top-off/hose drain mode pushbutton
- Pump Starter
- Type 3R control enclosure

Specifications:

- Fitting size: 2", 3" or 4"
- Application: Oil
- Dimensions: 53” x 30” x 58”
- Shipping weight: 425 lbs.

Oil = Class II liquid, flash point > 100° F
Consult Simplex for gasoline application.
TC-9 Fuel Fill Controller

The Simplex Tank Commander TC-9 Fuel Fill Controller is an electronic monitor and control system used to control tank filling and prevent overfill. The TC-9 is used with a remote electric solenoid valve or motorized valve.

During filling operations, the TC-9 provides continuous level indication, Tank Full level audible and visual alarm, High Fuel level audible and visual alarm and shut-off.

The TC-9 can receive a signal from an external tank leak sensor to activate an alarm, send a remote signal and automatically close the fill valve. The TC-9 is for use with fuel oil only.

Includes

- NEMA-3R rainproof, lockable enclosure with hinged door
- Electronic level sensor for installation in tank - 2” fittings
- Digital percent level indicator
- High visibility red alarm light, High Fuel
- High visibility amber alarm light; Tank Full
- 90dB audible alarm horn with silence pushbutton
- Control Power switch
- Fill Valve Open and Close pushbuttons
- Alarm Tank Full level
- Alarm and automatic valve shut-off at High Fuel level
- Leak sensor input/alarm, automatic shut-off
- Indicators:
  - High Fuel
  - Tank Full
  - Control Power Available
  - Fill Valve Open
  - Fill Valve Closed
  - Tank Leak

Specifications

Power supply: 115V AC, 1ø, 60 Hz
Accuracy: ± 2%
Transmitter fitting: 2” NPT or greater

TC-8 Tank Alarm Panel

The Simplex Tank Commander TC-8 Tank Alarm Panel is used to monitor High Level, Low Level, and Tank Leak Alarms. The TC-8 provides both audio and visual indication. Relay dry contacts are provided for remote alarms. The TC-8 receives signals from float switches mounted on the tank. The float switches may be included as an option or provided by others.

The TC-8 is available in 120VAC and 24VDC voltages. The TC-8 is for use with fuel oil or other Class II liquids or non-flammable liquids or chemicals. The TC-8 carries a UL 508A Label.

Includes

- Type 3R rainproof, lockable enclosure with hinged door
- UL 508A Label
- Red alarm light; high level
- Red alarm light; low level
- Red alarm light; tank leak
- 90dB audible alarm horn with silence pushbutton
- Press-To-Test pushbutton
- Press-To-Reset pushbutton
- Indicators for
  - Tank leak (external input)
  - High Fuel alarm (external input)
  - Low Fuel alarm (external input)
- Level sensors, optional

Specifications

Power supply: 115VAC, 1ø, 60 Hz or 24VDC
Application: Fuel oil or other Class II liquids or non-flammable liquids or chemicals
Alarm contacts: 3A @125/250VAC, 30VDC
ORDER FORM

To receive a quote, fax this completed form to Simplex (217-483-1616) or visit the Simplex web site at www.simplexdirect.com and place your request via e-mail.

Customer: ___________________________  Project: ___________________________

PO#: ___________________  WO#: ___________________________  Date: ___________________

PRODUCT USED:
- Diesel
- Gas
- Vapor Rec.
- Other

TANK CONSTRUCTION:
- Rectangular: L _____ W _____ H ______
- Horizontal Cylinder: D _____ L _____
- Vertical Cylinder: D _____ H _____
- Capacity (actual gal.): __________

TANK SPECIFICATIONS:
H - Tank Inside Height/Diameter: __________
D - Double Wall Tank Interstitial Space: __________
R - Fitting Riser: __________
F - Transmitter Mounting Port Style and Size:
  a) Female
  b) 2" NPT

L - Leak Sensor Mounting Port Style and Size:
  a) Female
  b) 2" NPT

M - Leak Sensor Well Depth: __________

NO. OF TANKS:
- 1
- 2
- 3
- Other: __________

VOLTAGE:
- 120v, 1ph.¹
- 240v, 1ph.²
- 208v, 3ph.
- 230v, 3ph.
- 460v, 3ph.

Voltage Notes: ¹Not Available with SmartPump, ²Not Available with 5HP gasoline SmartPump

COMMENTS: __________

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¹Not Available with SmartPump, ²Not Available with 5HP gasoline SmartPump