Features

1. **Flooded Suction**: Longer pump life; pump always stays primed. No pump rusting during shut-down periods. Air bleed valves are not required.

2. **Easy Reservoir Draining**: Pump not required for draining. Drain ball valve provided.

3. **Self Flushing**: System flushes any material in suction line when a pump is replaced.

4. **Color Code Identification**: Allows for easy identification of items.

5. **In-Tank Filter System**: Provides easy element replacement without line drainage.

6. **Convenient Suction Strainer Maintenance**: Clean out access cover allows replacement of suction strainer without draining reservoir.

7. **Removable Top Plate**: Removable top allows for easy reservoir cleaning. No leaky end bells that make access for cleaning difficult.

8. **Conserves Space**: While still allowing general maintenance, the stack tank design saves floor space.

---

### Dimensional Data

**ITEM IDENTIFICATION:**

1. CLEAN-OUT COVER (YELLOW)
2. VALVE MOUNTING AREA
3. RETURN FILTER (YELLOW)
4. TANK LID
5. RUBBERIZED GASKET
6. TANK BODY
7. FILLER/ BREATHER #FB-12S (EXTRA BREATHER SUPPLIED 50 GAL+)
8. SITE & TEMPERATURE GAUGE #SLG5
9. SUCTION STRAINER
10. 1/2" NPT DRAIN BALL VALVES- PLUGGED
11. MAGNETS (1 PER 5 GALLONS)
12. (3) RETURN COUPLINGS STANDARD
13. 2" NPT HEATER COUPLING (OPTIONAL)
14. SUCTION BALL VALVE
15. PUMP
16. PUMP MOTOR ADAPTER (ORANGE)
17. ELECTRIC MOTOR
18. PRESSURE GAUGE WITH SNUBBER
19. HEATER (OPTIONAL)
20. HEAT EXCHANGER (OPTIONAL)
21. COOLING FAN (OPTIONAL)
22. Drip Pan (OPTIONAL)
23. PAINT (OPTIONAL)

**COLOR CODES:**

- BLUE- UNIT COLOR PAINT
- ORANGE- DANGER
- YELLOW- MAINTENANCE
- GRAY- ELECTRICAL

<table>
<thead>
<tr>
<th>Model</th>
<th>Reservoir Capacity</th>
<th>Dimensions (Inches)</th>
<th>Std. Return Filter (10)</th>
<th>4&quot; Lip Drip Pan</th>
<th>Maximum Horsepower</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST20</td>
<td>20 Gallon</td>
<td>A: 32.0 B: 17.5 C: 37.3 D: 19.5 E: 5.5 F: 12.0 G: 8</td>
<td>ITF200-12FS-10MNPE</td>
<td>30.9&quot; x 48&quot;</td>
<td>10</td>
</tr>
<tr>
<td>ST35</td>
<td>35 Gallon</td>
<td>A: 36.5 B: 22.5 C: 41.0 D: 21.5 E: 6.0 F: 13.5 G: 8</td>
<td>ITF250-12FS-10MNPE</td>
<td>30.9&quot; x 48&quot;</td>
<td>15</td>
</tr>
<tr>
<td>ST70</td>
<td>70 Gallon</td>
<td>A: 46.5 B: 26.3 C: 52.5 D: 29.0 E: 7.25 F: 16.5 G: 8</td>
<td>ITF425-24FS-10MNPE</td>
<td>38.8&quot; x 52&quot;</td>
<td>50</td>
</tr>
<tr>
<td>ST100</td>
<td>100 Gallon</td>
<td>A: 46.5 B: 26.3 C: 58.3 D: 29.0 E: 7.25 F: 22.0 G: 8</td>
<td>ITF450-24FS-20-10</td>
<td>38.8&quot; x 52&quot;</td>
<td>100</td>
</tr>
<tr>
<td>ST150</td>
<td>150 Gallon</td>
<td>A: 46.5 B: 26.3 C: 69.3 D: 29.0 E: 7.25 F: 34.0 G: 8</td>
<td>ITF450-24FS-30-10</td>
<td>38.8&quot; x 52&quot;</td>
<td>100</td>
</tr>
</tbody>
</table>

**Reservoir Capacity:**

- ST20: 20 Gallon
- ST35: 35 Gallon
- ST70: 70 Gallon
- ST100: 100 Gallon
- ST150: 150 Gallon

**Dimensions (Inches):**

- A: 32.0 B: 17.5 C: 37.3 D: 19.5 E: 5.5 F: 12.0 G: 8
- A: 36.5 B: 22.5 C: 41.0 D: 21.5 E: 6.0 F: 13.5 G: 8
- A: 46.5 B: 26.3 C: 52.5 D: 29.0 E: 7.25 F: 16.5 G: 8
- A: 46.5 B: 26.3 C: 58.3 D: 29.0 E: 7.25 F: 22.0 G: 8
- A: 46.5 B: 26.3 C: 69.3 D: 29.0 E: 7.25 F: 34.0 G: 8

**4" Lip Drip Pan:**

- 30.9" x 48"
- 30.9" x 48"
- 38.8" x 52"
- 38.8" x 52"
- 38.8" x 52"

**Maximum Horsepower:**

- 10
- 15
- 50
- 100
- 100
HYDRAULIC POWER UNITS
STACK TANK

ST Series

ST20-5HP-PCV10
Stack Tank:
Heat exchanger cooling case drain line, D03 and D05 valves mounted on rail

ST35-10HP-PCV14
Stack Tank:
Heat exchanger cooling case drain line, DR30 safety relief with gauge

ST100-75HP-PCP39
Stack Tank:
Heat exchanger cooling return line, P0R20 safety relief w/ gauge, 2.5 gallon accumulator, Motor starter package

Drip Pans

Fork Lift Pockets:
5.5" Wide x 3.75" Tall

1/2" Female NPT, (Supplied with plugged ball valve)

Bottom View

Reservoir Capacity

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Reservoir Capacity</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP35</td>
<td>35&lt; Gallon</td>
<td>48&quot;</td>
<td>30.9&quot;</td>
</tr>
<tr>
<td>DP70</td>
<td>70+ Gallon</td>
<td>52&quot;</td>
<td>38.8&quot;</td>
</tr>
</tbody>
</table>
Features

1. **Flooded Suction**: Longer pump life; pump always stays primed. No pump rusting during shut-down periods. Air bleed valves are not required.
2. **Easy Reservoir Draining**: Pump not required for draining. Drain ball valve provided each end.
3. **Self Flushing**: System flushes any material in suction line when a pump is replaced.
4. **Color Code Identification**: Allows for easy identification of items.
5. **In-Tank Filter System**: Provides easy element replacement without line drainage.
6. **Convenient Suction Strainer Maintenance**: Clean out access cover allows replacement of suction strainer without draining reservoir.
7. **Removable Top Plate**: Removable top allows for easy reservoir cleaning. No leaky end bells that make access for cleaning difficult.
8. **Conserves Space**: While still allowing general maintenance, the stack tank design saves floor space. Multiple pump/motor assemblies may be mounted under the same reservoir.
9. **Extended Pump/Motor Mounting Bars**: Easy pump or motor replacement—pump may be lowered onto bars: electric motor lifting eye accessible.

Dimensional Data

<table>
<thead>
<tr>
<th>Item Identification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Clean-Out Cover (Yellow)</td>
</tr>
<tr>
<td>2.</td>
<td>Valve Mounting Area</td>
</tr>
<tr>
<td>3.</td>
<td>Return Filter (Yellow)</td>
</tr>
<tr>
<td>4.</td>
<td>Tank Lid</td>
</tr>
<tr>
<td>5.</td>
<td>Rubberized Gasket</td>
</tr>
<tr>
<td>6.</td>
<td>Tank Body</td>
</tr>
<tr>
<td>7.</td>
<td>Fill/ Breather #FB-12S (Extra Breather Supplied 50 Gal+)</td>
</tr>
<tr>
<td>8.</td>
<td>Sight &amp; Temperature Gauge #SLG5</td>
</tr>
<tr>
<td>9.</td>
<td>Suction Strainer</td>
</tr>
<tr>
<td>10.</td>
<td>1/2&quot; NPT Drain Ball Valves- Plugged</td>
</tr>
<tr>
<td>11.</td>
<td>Magnets (Not Shown)</td>
</tr>
<tr>
<td>12.</td>
<td>(3) Return Couplings Standard</td>
</tr>
<tr>
<td>13.</td>
<td>2&quot; NPT Heater Coupling (Optional)</td>
</tr>
<tr>
<td>14.</td>
<td>Suction Ball Valve</td>
</tr>
<tr>
<td>15.</td>
<td>Pump</td>
</tr>
<tr>
<td>16.</td>
<td>Pump Motor Adapter (Orange)</td>
</tr>
<tr>
<td>17.</td>
<td>Electric Motor</td>
</tr>
<tr>
<td>18.</td>
<td>Pressure Gauge with Snubber</td>
</tr>
<tr>
<td>19.</td>
<td>Heater (Optional)</td>
</tr>
<tr>
<td>20.</td>
<td>Heat Exchanger (Optional)</td>
</tr>
<tr>
<td>21.</td>
<td>Cooling Fan (Optional)</td>
</tr>
<tr>
<td>22.</td>
<td>Motor Mounting Bars</td>
</tr>
<tr>
<td>23.</td>
<td>Paint (Optional)</td>
</tr>
</tbody>
</table>

**Color Codes:**
- Blue: Unit Color Paint
- Orange: Danger
- Yellow: Maintenance
- Gray: Electrical

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Reservoir Capacity</th>
<th>Dimensions (Inches)</th>
<th>Std. Return Filter (10)</th>
<th>4&quot; Lip Drip Pan</th>
<th>Maximum Horsepower</th>
</tr>
</thead>
<tbody>
<tr>
<td>STR20</td>
<td>20 Gallon</td>
<td>A: 32.0, B: 17.5, C: 37.3, D: 19.5, E: 5.5, F: 12.0, G: 8, H: 30.6, I: 28.4, J: 4.25, K: 5.9</td>
<td>ITF200-12FS-10MNPE</td>
<td>30.9&quot; x 48&quot;</td>
<td>10</td>
</tr>
<tr>
<td>STR100</td>
<td>100 Gallon</td>
<td>A: 46.5, B: 26.3, C: 58.3, D: 29.0, E: 7.25, F: 22.0, G: 8, H: 45.3, I: 42.5, J: 9.0, K: 6.0</td>
<td>ITF450-24FS-20-10</td>
<td>38.8&quot; x 52&quot;</td>
<td>100</td>
</tr>
<tr>
<td>STR150</td>
<td>150 Gallon</td>
<td>A: 46.5, B: 26.3, C: 69.3, D: 29.0, E: 7.25, F: 34.0, G: 8, H: 45.3, I: 42.5, J: 9.0, K: 6.0</td>
<td>ITF450-24FS-30-10</td>
<td>38.8&quot; x 52&quot;</td>
<td>100</td>
</tr>
</tbody>
</table>
STR100-50HP-PCP77 Stack Tank:
D08 valve, Pump solenoid on/off, Drip pan

Drip Pans

Fork Lift Pockets:
5.5" Wide x 3.75" Tall

1/2" Female NPT,
(Supplied with plugged ball valve)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Reservoir Capacity</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP35</td>
<td>35&lt; Gallon</td>
<td>48&quot;</td>
<td>30.9&quot;</td>
</tr>
<tr>
<td>DP70</td>
<td>70+ Gallon</td>
<td>52&quot;</td>
<td>38.8&quot;</td>
</tr>
</tbody>
</table>
Features

1. **Expandable Central Systems:** Additional pump and motor assemblies may be added for future expansion.
2. **Flooded Suction:** Longer pump life; pump always stays primed. No pump rusting during shut-down periods. Air bleed valves are not required.
3. **Easy Reservoir Draining:** Pump not required for draining. Drain ball valve provided each end.
4. **Self Flushing:** System flushes any material in suction line when a pump is replaced.
5. **Color Code Identification:** Allows for easy identification of items.
6. **In-Tank Filter System:** Provides easy element replacement without line drainage.
7. **Kidney Loops:** Filtration and/or cooling loops may easily be added to standard tanks.
8. **Convenient Suction Strainer Maintenance:** Clean out access cover allows replacement of suction strainer without draining reservoir.
9. **Removable Sectional Top Plates:** Removable top plates allows for future expansions as well as easy reservoir cleaning without removing the entire lid. No leaky end bells.
10. **Large Mounting Area:** Heat exchangers, relief valves, pressure filters etc. may be mounted along the reservoir walls.

**Table:**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Tank Size, Gallons</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>160 240 320 400 480</td>
</tr>
<tr>
<td>H2</td>
<td>220 330 440 550 660</td>
</tr>
<tr>
<td>H3</td>
<td>280 420 560 700 840</td>
</tr>
</tbody>
</table>

**Additional Features:**

- **Conserves Space:** While still allowing easy maintenance, the stack tank design saves floor space. Multiple pump/motor assemblies may be mounted under the same reservoir.
- **Extended Pump/Motor Mounting Bars:** Easy pump or motor replacement—pump may be lowered onto bars: electric motor lifting eyes are accessible.

Unit equipped for future expansion.

Two stacked HE562 case drain heat exchangers (one per pump) utilizing the same fan.

Full length sight gauge tube (not shown) provided this series. Lexan tube is protected by steel frame. Shut off ball valves also provided.