MODEL NUMBER:
FI-30N
FI-30NK
FI-30NV
FI-30N-ST
FI-30NK-ST
FI-30NV-ST
AND RELATED UNITS

30 Gallon Air Operated Portable Foam Equipment

English (Original Instructions)
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

WARNING

Read this manual completely and understand the machine before operating or servicing it.

- Always wear protective clothing, gloves, and eyewear while operating or servicing unit.
- Avoid contact of cleaning agent with skin and eyes. If contact occurs, see Safety Data Sheet (SDS) for further first aid measures.
- Follow safety instructions of chemical manufacturer (SDS).
- Never point the discharge wand at anyone.
- Incoming air pressure cannot exceed 100 psi (7 bar).
- After each use, relieve all remaining pressure in the system by unplugging the air line from the unit and opening the discharge ball valve to prevent accidental discharge.
- After relieving the pressure from the unit, store the unit with the ball valve in the closed position.
- Be sure to flush the unit with fresh water for 5 minutes when switching from an alkaline to an acid or an acid to an alkaline.
- Do not exceed a fluid temperature of 100˚F (37˚C).
- Only use clean and dry air. Air must be filtered and free of moisture or pump life will be diminished. If needed, install an air dryer before unit.
- Do not use air lubricator before the unit.

PROTECT THE ENVIRONMENT

Please dispose of packaging materials, old machine components, and hazardous fluids in an environmentally safe way according to local waste disposal regulations.

Always remember to recycle.

*Specifications and parts are subject to change without notice.

Specifications:
Hose .................. 30 feet reinforced hose, 3/4 inch inside diameter (9 meters reinforced hose, 19 mm inside diameter)
Foam Output.................. 20 to 45 gallons/minute (75 to 170 liters/minute)
Foam Distances .................. 25 to 30 feet (7 to 9 meters)
Liquid Temperature .................. 40˚F to 100˚F (4.4˚C to 37˚C)
Noise Level.......................... Maximum 87 dB
Discharge Wand Vibration Level ...... Maximum 2.5 m/s²

Dimensions:
Length .......................... 31 in (787 mm) approximately
Width ................................... 21 in (533 mm) approximately
Height ................................... 37 in (940 mm) approximately
Weight, including discharge hose and wand:
(Empty) .................................. 59 lbs (27 kg) approximately
(Full) .................................. 307 lbs (139 kg) approximately

Requirements:
Compressed Air Pressure Requirements: Air regulator (R25) is factory set at 50 psi (3.4 bar). Operating range is 40 to 80 psi (3 to 5 bar) with 5 to 10 CFM (141.64 to 283.30 l/min).

Chemical requirements: follow all instructions from chemical manufacturer.

Air Operated Double Diaphragm Pump Models Offered:
P56: Polypropylene body with Santoprene diaphragm
P56V: Polypropylene body with Viton diaphragm
P56K: Polypropylene body with Kalrez diaphragm

Acceptable Products:
Alkaline cleaners, Caustic cleaners, Sanitizers, and Acids
* D-Limonene may only be used with Kalrez pump
* Chlorine may only be used with Viton or Kalrez pump

DO NOT USE: All hydrocarbons
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Operation Instructions:
1. Follow all instructions from chemical manufacturer. Fill the tank with water and the advised percentage of chemical concentrate.
2. With ball valve (HV60) in the closed position, plug an air line into the air fitting (AP25).
3. Slowly open the ball valve (HV60) completely.
4. Adjust the needle valve (NV14Y) to desired wetness or dryness of foam following the steps below:
   a. Close needle valve completely in clockwise direction.
   b. Open needle valve in counter-clockwise direction 3 complete turns.
   c. Continue to open valve in ¼ turn increments allowing 30 seconds between adjustments until proper consistency of foam is achieved.

After Use Instructions:
1. Flush the unit with fresh water for 5 minutes.
2. Disconnect the air line from the air fitting (AP25) and relieve any remaining pressure in the system by opening the discharge ball valve (HV60).
3. Close the ball valve (HV60) after all pressure has been relieved from the system.

Maintenance Instructions:
To keep your portable tank foamer operating properly, periodically perform the following maintenance procedures:
- Check the air pump (P56/P56K/P56V) for wear and leaks.
- Inspect hoses for leaks or excessive wear. Make sure all hose clamps are in good condition and properly secured.
- Replace filter (AFR25) in regulator (R25) as needed.
- Check the suction tube and screen for debris and clean as needed.
- Drain compressor tank on a regular basis to ensure proper operation of pump.

Troubleshooting Instructions:
- Check to ensure the discharge hose is uncoiled properly, and that there are no kinks that could obstruct fluid flow.
- Check air regulator bowl (ABR25) for debris such as water, oil, or rust particles. Clean by unthreading the air regulator bowl from the air regulator (R25).
- If needle valve (NV14Y) valve is open too far, the pump (P56/P56K/P56V) will cycle improperly due to lack of air pressure. If this occurs, reset needle valve as described in Operation Instruction #4.
- Make sure proper foaming chemical and concentration is being used.
- If air passes through the pump (P56/P56K/P56V) without cycling, the pump needs to be replaced.
- If foam solution backs up into air regulator bowl (ABR25), the check valve (CV38) needs to be replaced.
- If foam comes out wet, no matter where the needle valve (NV14Y) is positioned, the check valve (CV38) may need to be replaced.
- Check for proper air pressure on air gauge (AG100). Air regulator (R25) is factory set at 50 psi (3.4 bar). Operating range is 40 to 80 psi (3 to 5 bar) with 5 to 10 CFM (141.64 to 283.30 l/min)
- If the unit foams at a reduced pressure:
  o Check the air compressor supplying the unit. If the pressure is less than 40 psi, turn the foam unit off until the compressor can catch up.
  o If the air supply is 50 psi (4.14 bar) or above, check the AG100, which should read near 50 psi (4.14 bar).
    If the AG100 is more or less than 50 psi (4.14 bar), adjust the pressure by turning the knob on the top of the air regulator (R25).
  o If both of the above are okay, the stainless steel mixing mesh (SS-MESH) could be plugged. Remove and clean it by following the instructions below:
    1. Be sure the foam unit is not plugged into an air supply and be sure to relieve all stored pressure in the unit by having the ball valve (HV60) in the open position.
    2. Remove the stainless adaptor (HBSS1234) from the tee fitting (SST12HB38).
    3. Remove the screen and the mixing mesh from inside the tee fitting (SST12HB38).
    4. Clean any particles from the mixing mesh and the screen.
    5. Replace the mixing mesh and then the screen into the back of the tee and screw the stainless adaptor back into the tee. It is recommended to use a pipe thread sealant when reinstalling the stainless adaptor back into the tee fitting (SST12HB38). If the mixing mesh has a lot of foreign particles in it, make sure the strainer (STR38-IL) is still in place.
- Check for plugged strainer (STR38-IL). Replace strainer if necessary. Strainer must be used.
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

TANK ASSEMBLY
ITEM NUMBER: TANK-30N-A

HOSE AND WAND ASSEMBLY
ITEM NUMBER: SSWA38-HA30

ZERO TIP FOAM WAND ASSEMBLY
ITEM NUMBER: SSWA38

30 ft (9 m) HOSE ASSEMBLY
ITEM NUMBER: H34-30

FAN TIP FOAM WAND ASSEMBLY
ITEM NUMBER: PWA34-ST

ANTI-KINK SPRING ASSEMBLY
ITEM NUMBER: AKSS34
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

PLATE ASSEMBLY
ITEM NUMBER (Santoprene pump): PA-PF34
ITEM NUMBER (Kalrez pump): PA-PF34K
ITEM NUMBER (Viton pump): PA-PF34V

Plate - Inside View

Plate - Back View

OPTIONAL COMPONENTS

WATER SEPARATOR
ITEM NUMBER: WS-20CFM

30 ft (9 m) AIR HOSE ASSEMBLY
ITEM NUMBER: AH30
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

<table>
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<tr>
<th>ITEM NUMBER</th>
<th>DESCRIPTION</th>
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<tr>
<td>AG100</td>
<td>1.5in DRY MODEL 20 DUAL SCALE GAUGE</td>
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<tr>
<td>AHB-3816</td>
<td>ALLEN HEAD BOLT 3/8-16</td>
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<tr>
<td>AKSS34</td>
<td>SS ANTI-KINK SPRING FOR 3/4 INCH HOSE</td>
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<tr>
<td>AP25</td>
<td>PLUG 1/4 NPTM AIR FITTING - BRASS</td>
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<tr>
<td>AS1-VS</td>
<td>1/4-20 X 1/2 PHIL TRUSS MACH SCREW 19-8 W/S16 ORANGE VIBRASEAL PATCH</td>
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<tr>
<td>AWS16</td>
<td>5/16 LONG ARM HEX KEY HARD #519011</td>
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<tr>
<td>BBS58</td>
<td>8 X 5/8 inch STAINLESS STEEL SHEET METAL SCREW</td>
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<tr>
<td>BPS-5850</td>
<td>Back Panel Screw - 5/8 inch with Stand Off</td>
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<tr>
<td>COT</td>
<td>1/8 X 1 COTTER PIN 18-8 S/S</td>
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<tr>
<td>CTS55</td>
<td>5in S.S. SWIVEL CASTER WITH 4 IN WHEEL</td>
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<tr>
<td>CTS55-L</td>
<td>5in S.S. SWIVEL CASTER WITH 4 IN WHEEL AND LOCK</td>
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<tr>
<td>CV38</td>
<td>PVC CHECK VALVE 3/8 BARBS - SS SPRING</td>
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<tr>
<td>DFP7</td>
<td>7 INCH HINGED CAP INCLUDES LID FLANGE AND HINGE PIN</td>
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<tr>
<td>DFP7-C</td>
<td>7 INCH DRAIN CAP POLYPRO BLACK</td>
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<td>DFP7-F</td>
<td>7 INCH TANK LID FLANGE POLYPRO</td>
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<tr>
<td>DFP7-PIN</td>
<td>HINGE PIN FOR 7 INCH CAP FLAP AND FLANGE</td>
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<td>DFP7-C-BL</td>
<td>7 INCH FILL CAP POLYPRO BLUE PANTONE</td>
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<td>DFP7-C-GN</td>
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<td>7 INCH FILL CAP POLYPRO RED PANTONE</td>
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<td>7 INCH FILL CAP POLYPRO YELLOW PANTONE</td>
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<td>DP-A</td>
<td>DRAIN PLUG ASSEMBLY FOR TANK-10N TANK-20N</td>
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<td>DP</td>
<td>FRONT DRAIN PLUG FOR PORTABLE UNIT POLYPRO</td>
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<td>DP-G</td>
<td>FKM SQUARE CUT DRAIN PLUG GASKET</td>
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<td>DP-INSERT</td>
<td>304 STAINLESS DRAIN PLUG INSERT</td>
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<tr>
<td>EC14-2</td>
<td>OETIKER CLAMP 13.8</td>
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<tr>
<td>EC75</td>
<td>OETIKER CLAMP 12/04/07</td>
</tr>
<tr>
<td>F345S-L</td>
<td>SS CRIPM FERRULE 1.90inches X 1.5 inches LONG</td>
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<tr>
<td>F385S</td>
<td>STAINLESS 3/8 INCH FERRULE</td>
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<tr>
<td>FAC14</td>
<td>FEMALE COUPLER - 1/4in NPTF</td>
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<tr>
<td>FW38X78</td>
<td>FLAT WASHER 3/8X7X8 13/32X0.050</td>
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<td>FWAX15</td>
<td>FLAT AXLE WASHER</td>
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<td>FWP12</td>
<td>7/8 X 1.5 OD X 0.05 THK SSFW</td>
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<tr>
<td>FWP14</td>
<td>C-816 1/in SS WASHER</td>
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<tr>
<td>H14B-H</td>
<td>1/4 INCH BLUE HOSE - Available per ft.</td>
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<tr>
<td>H34B-H</td>
<td>3/4 INCH BLUE HOSE - Available per ft.</td>
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<td>H38B-H</td>
<td>3/8 INCH BLUE HOSE - Available per ft.</td>
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<tr>
<td>HBBF1438</td>
<td>BRASS 1/4in FPT X 3/8in HOSE BARB</td>
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<tr>
<td>HBSS1234</td>
<td>STAINLESS HOSE BARB 1/2 X 3/4</td>
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<tr>
<td>HBSS1438</td>
<td>STAINLESS HOSE BARB 1/4 MPT X 3/8 BARB</td>
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<tr>
<td>HBSS1438</td>
<td>STAINLESS HOSE BARB BARB 1/4 MPT X 3/8 HOSE BARB</td>
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<tr>
<td>HBSS1814</td>
<td>304 STAINLESS ELBOW 1/8 INCH NPT X 1/4 INCH HOSE BARB</td>
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<tr>
<td>HHPB3414</td>
<td>HEX HEAD POLY REDUCER BUSHING 3/4 X 1/4</td>
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