



# Neutra-Safe<sup>®</sup>

SYSTEM FEEDER

## MODEL # NSSF6-2 System Feeder

### Installation, Operation and Maintenance Instructions

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#### PIPING CONNECTIONS

1. Place the NSSF6-2 on a secure level base or use the optional wall mounting brackets
2. Using the appropriate pipe or tubing, connect the outlet of NSSF6-2 ball valve to the system—do not use metallic fittings. Use an approved thread sealant for PVC and do not over tighten. Be sure to secure the ball valve while tightening the fitting.
3. If possible, the NSSF6-2 should be connected to the system at the point of no pressure change—where the expansion tank is connected to the system. **DO NOT install a check valve, pressure reducing valve or a back flow preventer between the NSSF6-2 and the system.** If using a bladder style expansion tank, be sure to inflate the tank to the same pressure as the cold static pressure of the system. This should be done with zero system pressure.
4. After piping connections between the NSSF6-2 and the system have been completed, the NSSF6-2 can be filled with fluid (water or glycol up to 50% solution).

#### ELECTRICAL CONNECTIONS

1. Connect the power adapter to the right side of the control box mounted on the NSSF6-2. The main body of the UL listed power adapter has two hook and loop strips on the back and these can

be used to mount the power adapter to a convenient surface.

2. With the NSSF6-2 ball valve in the off position, plug the AC end of the power adapter into a standard 120 volt outlet.

#### PRESSURE SWITCH SETTINGS

The pressure switch includes a digital display, 4 buttons and 7 LEDs.

When power is first applied to the NSSF6-2 it will default to standby—the green LED on the power adapter will light together with the following red LEDs on the pressure switch—Power, PSI and Run (“Run” will flash until system pressure matches Cut-out setting). The digital readout will also show a reading close to zero.

#### ADJUSTING CUT-OUT AND CUT-IN

1. The NSSF6-2 is factory set with a 16 PSI cut-out and a 15PSI cut-in. **DO NOT SET CUT-OUT PRESSURE ABOVE 50 PSI.**
2. To adjust these settings, the pressure switch should be in the “Off” position (“Run” LED off).
  - a. Push “Set” and the “Down” LED will flash. Adjust the cut in setting with the arrow buttons. Press “Set” to save the desired cut-in pressure setting.
  - b. Press “Set” until the “Up” LED flashes. Adjust the cut-in setting up or down—must be less than cut-out setting. Press “Set” to save desired cut-out setting

#### START-UP

1. Press the on off button and open the ball valve. The pump will come on and start pumping fluid into the system. The “Run” LED will flash while the pump is running and will be solid when the pump stops. The “UP” LED will light when the system reaches pressure and the pump stops. The “DOWN” LED will light while the pump is running.
2. The pump may cycle on and off until the system pressure settles—this is normal. Cycling may continue until all of the air is eliminated from the system.
3. If the fluid level in the tank continues to drop for an undue amount of time, check for leaks and repair as needed.

#### FLOAT SWITCH

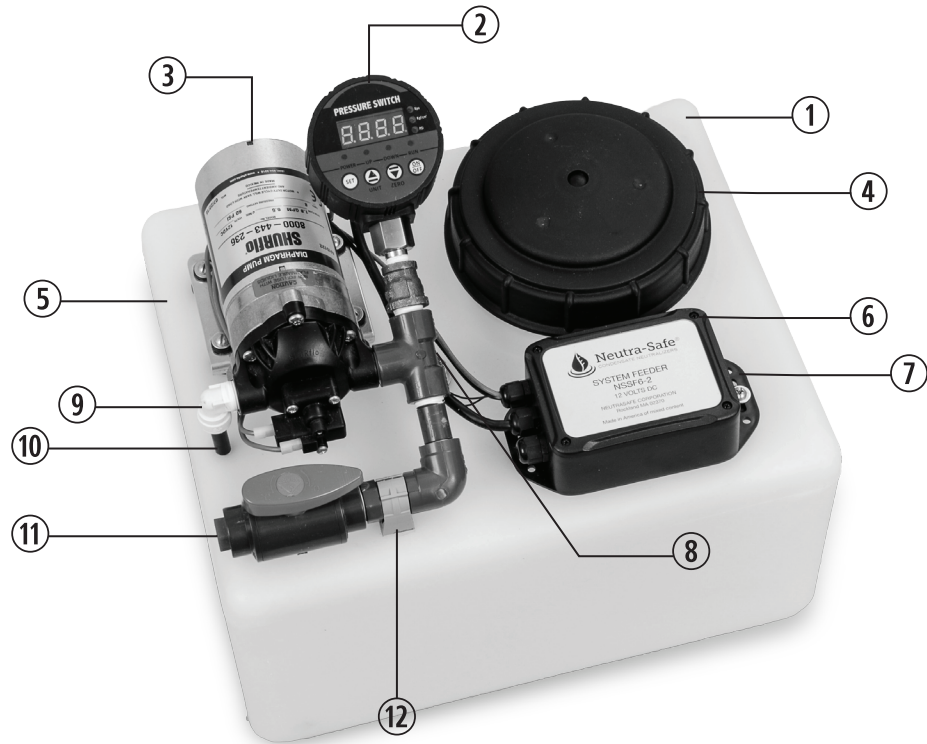
A dry alarm contact can be accessed through the blank connector on the left side of the control box. When the fluid level gets low, the float switch in the tank will shut the pump off and close the alarm contact (no/c/nc) on the circuit board. External alarm can have a maximum 1 amp load.

Replacement parts are available.

#### SETTING PRESSURE UNITS

The pressure switch is factory set to display “PSI”. To change this setting:

1. Press “Off”
2. Press “Up” to scroll through pressure units.
3. Press “Set” to save setting.



Item #	Part #	Quantity	Description
1	NSSF6-TANK	1	6 Gallon molded tank
2	NSSF6-DPS	1	Digital pressure switch
3	NSSF6-PM	1	12vdc pump assembly
4	NSSF6-CAP	1	5" Screw on vented tank cap
5	NSSF6-SS	1	Suction strainer (in tank not shown)
6	NSSF6-PCB	1	Control board (no enclosure)
7	NSSF6-EE	1	Electrical enclosure with cover and connectors
8	NSSF6-FS	1	Float switch assembly
9	NSSF6-38PF	1	3/8" M x 3/8" Tube push fitting
10	NSSF6-38T	1	3/8" OD x 12" Suction tubing
11	NSSF6-BV	1	1/2" F x F PVC Ball valve
12	NSSF6-SC	1	3/8" Snap in clamp

#### STANDARD FITTINGS

2	3/8" x Close PVC Sch 80 nipples
1	3/8" x 1/4" Brass coupling
1	3/8" PVC Sch 80 Tee f x f x f
1	3/8" PVC Sch 80 90 f x f
2	3/8" x 2" PVC Sch 80 nipple

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