



BOOSTER PUMP CART



1501 E 8TH ST ▶ NORTH LITTLE ROCK, AR 72114 ▶ 1-608-568-5841

BOOSTER PUMP CART

SAFETY

As with any equipment of this type, when electricity and chemicals are involved, always ensure proper Personal Protective Equipment is worn **at all times** when operating. Electrical components, such as the power cord, should be kept away from water. Frequent inspection of the power cord and other electrical components for cuts, abrasions or other damage should be done on a regular basis. If any damage is present, the unit should not be operated until repaired by qualified personnel. The electrical enclosure should never be opened by an operator. The electrical enclosure should never be opened when the unit is plugged in.

TABLE OF CONTENTS

Description.....	1
Features.....	1
System Setup	2-3
Emergency Shutdown.....	4
Operation	5-8
Replaceable Parts	9-11

DESCRIPTION

Safe Foods Chemical Innovations **Booster Pump Cart** is a portable one-hose, two-hose, or four-hose design. Industrial grade casters and ergonomic handle allowing for ease of movement. The equipment contains a simple on and off power switch, with a green and red push button controls. Green, turns the pump on, and red turns the pump off.

The Booster Pump Cart can foam and rinse simultaneously, allowing 2-4 people to operate from one cart.

FEATURES

- ▶ Simple to set up and operate
- ▶ Portable
 - 1, 2, or 4 hose design
- ▶ Included with 2 and 4-hose carts
 - Inlet side strainer
 - Flow and back pressure detection
- ▶ Flow and pressure
 - 9 GPM @ 120 PSI (1-hose)
 - 20 GPM @ 200 PSI (2-hose)
 - 40 GPM @ 120 PSI (4-hose)

SYSTEM SETUP

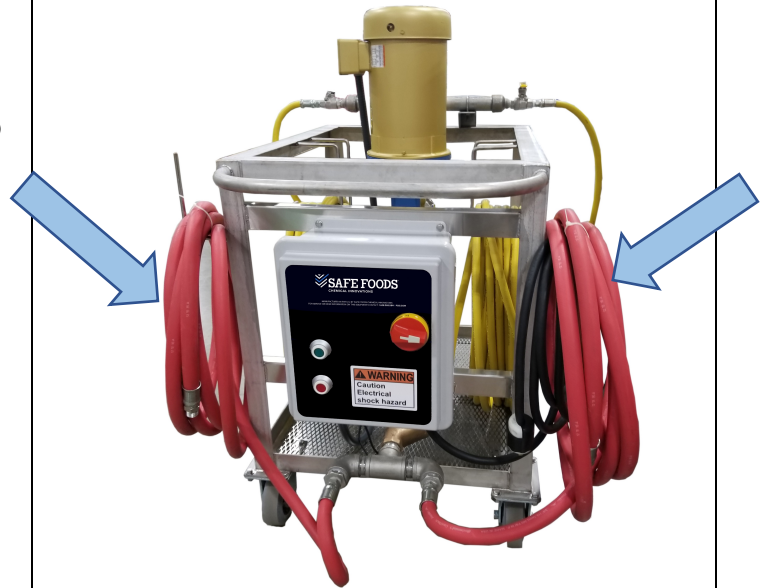
Wheel Booster Pump Cart to desired location to clean.

Connect red $\frac{3}{4}$ " water supply hoses to the water supply in the plant.

- ▶ **DO NOT** turn water supply on currently.

Connect equipment to power supply.

- ▶ 460V single phase connection @20AMP.



Powering on Equipment

- ▶ Rotate the power switch clockwise, to the ON position.
- ▶ The red button will illuminate when the power is switched on.



Make sure all valves on the cart are closed.

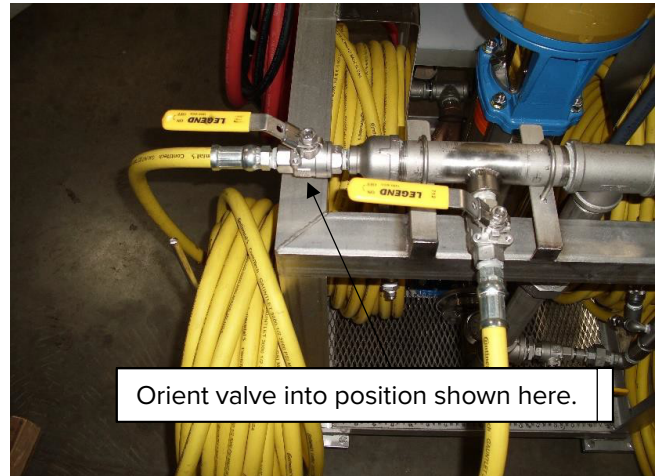
- ▶ Rotate valves to the off-position, handles should be perpendicular to the lines they are secured to.

Open one single water line and leave all the other valves turned off.

- ▶ Use the yellow rinse hose located at the right front of the cart., as if you were pushing the cart.

Open water supply valves where the red $\frac{3}{4}$ " hoses are connected to the plant.

- ▶ Water may start to trickle out of the yellow rinse hose with the plants standard water pressure.

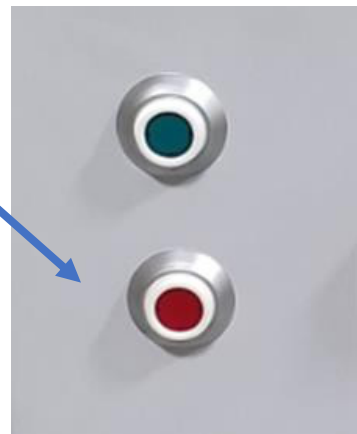


With yellow rinse hose in hand (make sure firm grip is around hose) press the green button on the control box.

- ▶ Pump will power on and force pressurized water out the yellow rinse hose at 120PSI

Shut Down Procedure

- ▶ Press the red button to shut down pump
- ▶ Turn the plants water supply off and allow the water to drain from all the hoses, close all the valves
- ▶ Turn power switch counter clockwise to completely shutdown (red button light will go out)
- ▶ Unplug equipment, wrap all hose, and move onto next area to clean.



EMERGENCY SHUTDOWN

Closing all valves

- ▶ Stopping the flow of water to the hoses, the pump will shut down after 20 seconds.
- ▶ Most often this is the fastest way to shut down the Booster Pump Cart in an emergency.

Disconnecting the power source

- ▶ If the equipment is not shutting down when the red button is pressed, rotate the power switch counter clockwise.
- ▶ If the power switch does not turn off the pump, unplug the power cable from the electrical source.

OPERATION

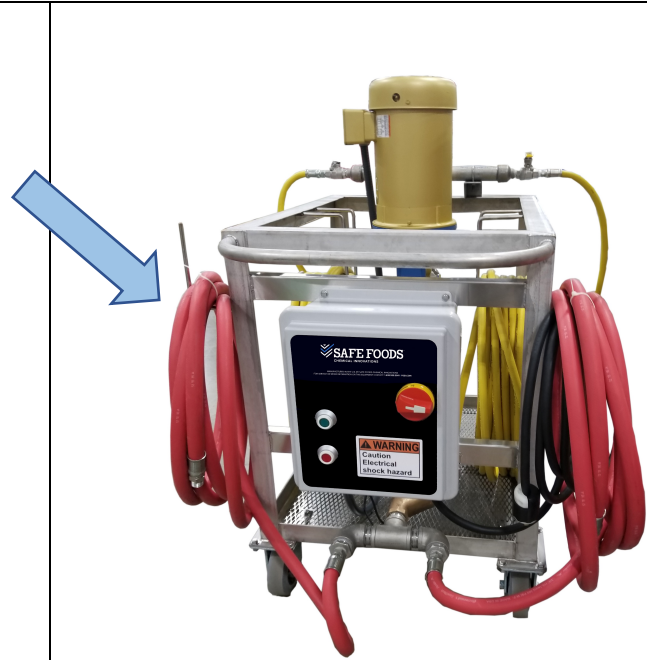
Wheel Booster Pump Cart to desired location to clean.

Connect red $\frac{3}{4}$ " water supply hoses to the water supply in the plant.

- ▶ **DO NOT** turn water supply on currently.

Connect equipment to power supply.

- ▶ 460V single phase connection @20AMP.



Powering on equipment.

- ▶ Rotate the power switch clockwise, to the ON position.
- ▶ The red button will illuminate when the power is switched on.



Implementing 2 foaming hoses

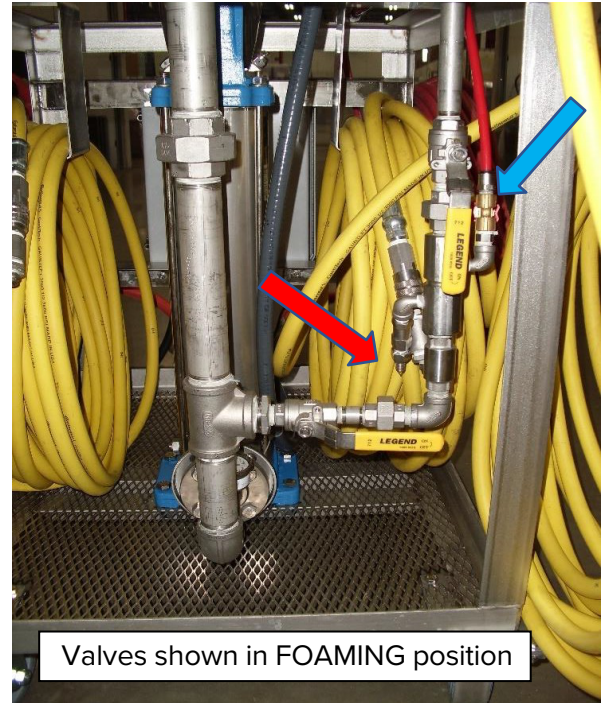
Connect smaller red hose to a dry air supply (blue arrow)

Fit hose on the nipple (red arrow) then run hose to foaming solution.

Solution will draw through the line and into the hose creating foam on 2 hoses

To adjust foam density turning the red knob on the needle valve (blue arrow) until desired foam density is reached.

- ▶ **DO NOT PRESS GREEN BUTTON AT THIS TIME**



Valves shown in FOAMING position

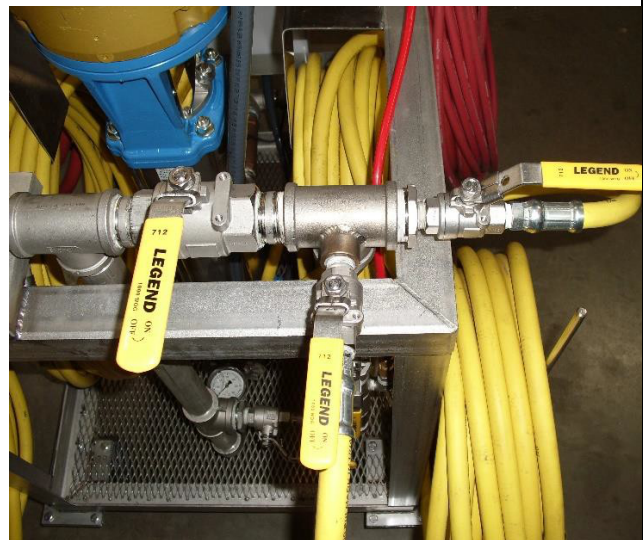
Implementing 2 foaming hoses (continued)

With the valves on the foaming side of the pump in the position pictured to the right, this will allow both yellow hoses to dispense foam.

By turning one of the valves (red arrows) to the off position will allow only one hose to dispense foam and vice versa.

- ▶ Make sure water supply (blue arrow) valve is closed during foaming otherwise foam will not dispense accordingly
- ▶ To operate with only one foaming hose, simply turn one valve off

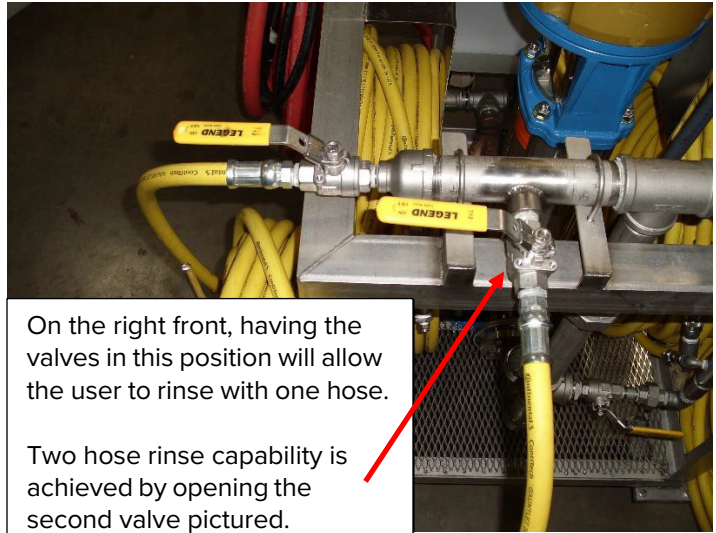
Green button can be pressed at this time to start foaming



To rinse while foaming simply open the valves on the right front of the cart, this will allow water to flow out the other 2 yellow hoses.

Giving the ability to rinse after an employee has foamed.

Single hose rinse situation pictured



On the right front, having the valves in this position will allow the user to rinse with one hose.

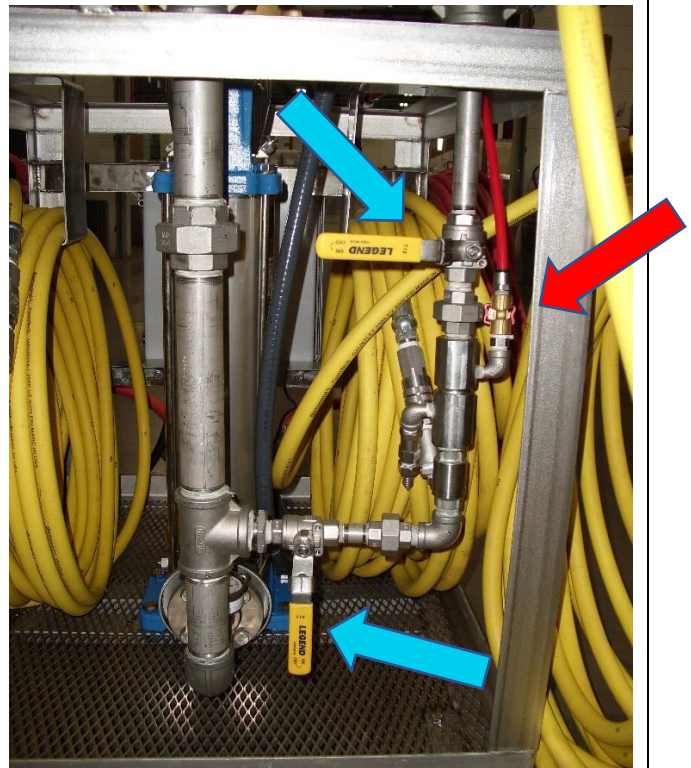
Two hose rinse capability is achieved by opening the second valve pictured.

Rinse on all 4 hoses.

Ensure the valves and air supply is shut off on foaming loop.

The manual valves are shown in the off position.

▶ As shown in picture.

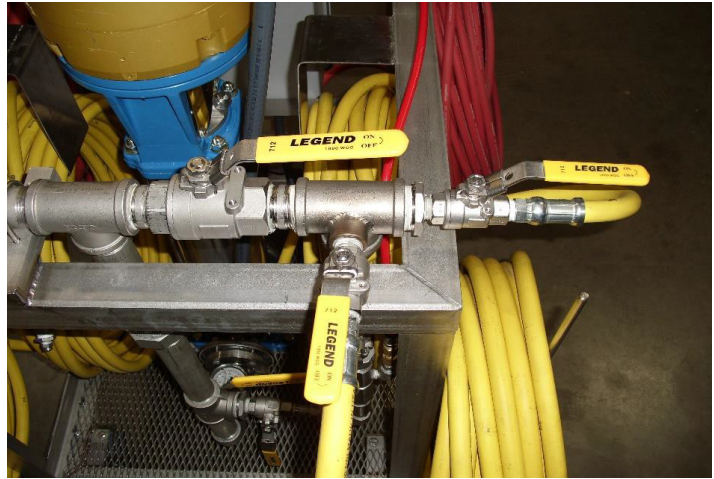


Rinse on all 4 hoses cont.

With the **foaming loop shut off**, orientate the valves on the left front as pictured.

- ▶ With all 3 valves open, this will allow water to flow through the 2 yellow hoses on the left front of the cart.
- ▶ Orientate the valves to the open position.
- ▶ Closing one valve will stop flow of water to that hose.

All valves open, indicating both hoses will have water flowing



Rinse on all 4 hoses cont.

On the right front of the cart open both valves

- ▶ This will let water flow to the 2 yellow hoses allowing all 4 hoses to have rinsing capabilities
- ▶ If desired to only use 3 hoses simply close one of the valves

Shutdown procedure

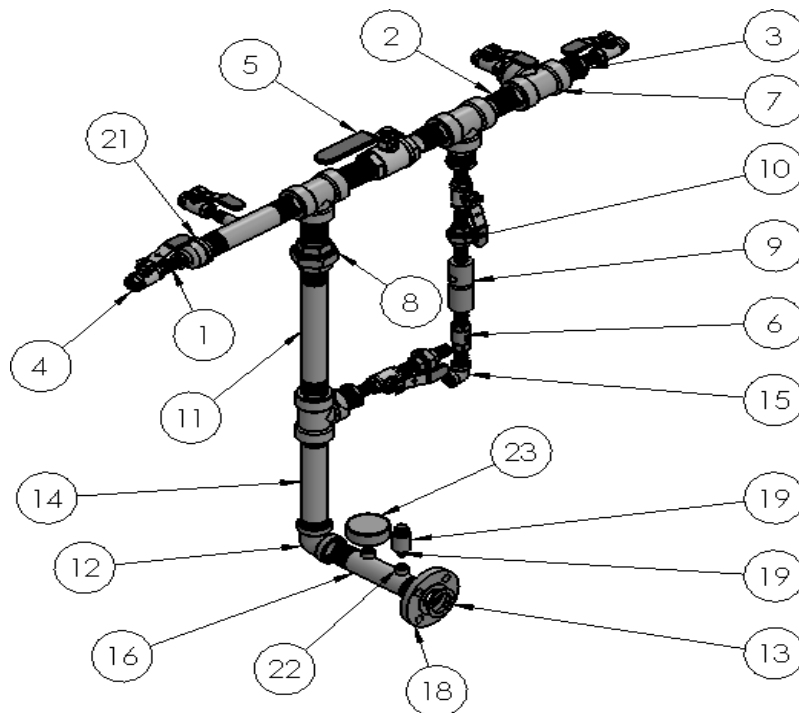
- ▶ Press the red button to shut down pump
- ▶ Turn the plants water supply off and allow the water to drain from all the hoses, close the valves.
- ▶ Turn the power switch counter clockwise to completely shutdown (red button light will go out).



Unplug equipment, wrap all hose, and move on to next area to clean.

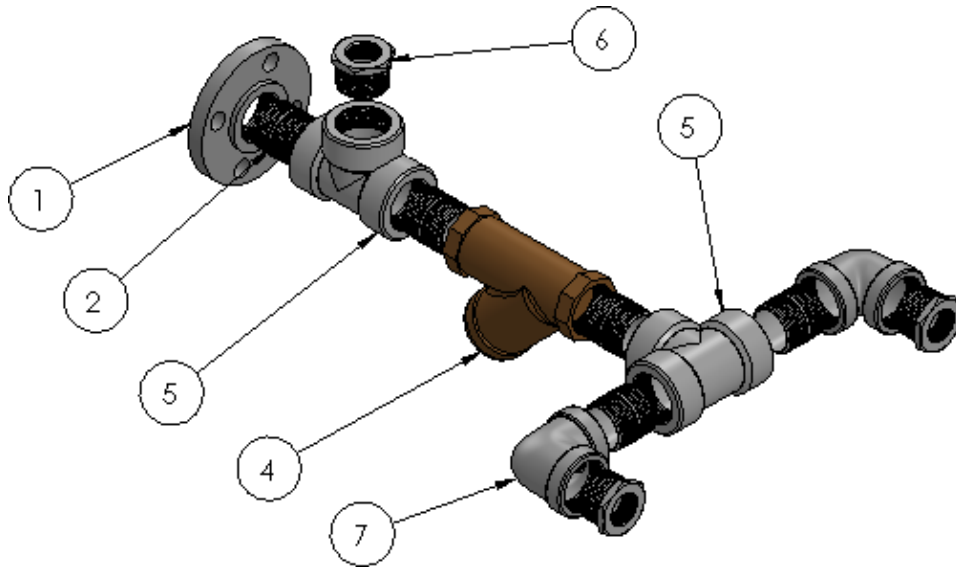
REPLACEABLE PARTS LIST

ITEM NO.	PART #'s	DESCRIPTION	QTY.
1	96829	SS NIPPLE 1/2" X CL	11
2	96943	SS NIPPLE 1-1/4" X 1/2"	4
3	98041	SS HEX BUSH 1-1/4" X 1/2"	4
4	96774	SS BALL VLV 1/2" NON LOCKING	6
5	98040	SS CROSS 1-1/4"	1
6	96788	CHK VLV SS SPRG 1/2" FEM IN&OUT	1
7	96649	SS TEE 1-1/4"	4
8	96889	SS UNION 1-1/4"	1
9	96118	LAFFERTY FOAMER BODY 1/2" SS B	1
10	96864	SS UNION 1/2" THD	2
11	9xxxx		1
12	96886	SS 90 ELBOW 1/2"	1
13	96893	SS FLANGE KIT 1-1/4"	1
14	9xxxx		1
15	96771	SS 90 ELBOW 1/2"	1
16	96944	SS PIPE SCH 40-1-1/4"	1
17	96944	SS PIPE SCH 40 1-1/4"	1
18	96945	SS FLANGE 1-1/4"	1
19	94159	PRESSURE SWITCH316SS 1/2" NPT W/6' CAB	1
20	96826	SS NIPPLE 1/2"X3"	1
21	98044	SS BELL CPLG 1-1/4" X 1/2"	1
22	96794	SS HALF CPLG 1/4"	2
23	96341	SS PRESSURE 2-1/2" 600PSI	1



REPLACEABLE PARTS LIST (CONTINUED)

ITEM NO.	PART #'s	DESCRIPTION	QTY.
1	96945	SS FLANGE 1-1/4" WELD	1
2	96943	SS NIPPLE 1-1/4" X 2"	5
3	96649	SS TEE 1-1/4"	2
4	96338	BRONZE Y STRAINER 1-1/4" 200 MESH	1
5	96886	SS 90 ELBOW 1-1/4"	2
6	98042	SS HEX BUSH 1-1/4" X 3/4"	3



REPLACEABLE PARTS LIST (CONTINUED)

ITEM NO.	PART #'s	DESCRIPTION	QTY.
1	95529	CART HANDLE	1
2	96903	CASTER – 6" SWIVEL (FOAMER)	2
3	96902	CASTER – 6" RIGID (FOAMER)	2
4	91838	PUMP-MULTI STAGE 1-1/4" W/MOTOR	1
5	94017	ENCLSR 14X12X8	1

