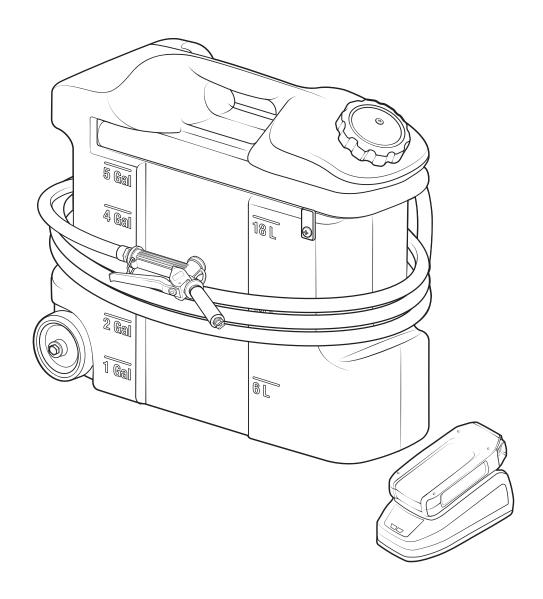
# 5 Gallon Battery Powered Foam Unit

# **Operation Manual**

FI-BP-5N



READ ALL INSTRUCTIONS BEFORE USING OR SERVICING THIS UNIT. KEEP THIS MANUAL IN A LOCATION THAT IS READILY AVAILABLE TO USERS AND SERVICE TECHNICIANS.

English (Original Instructions)



# Safety

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The unit is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless given supervision or instructed in the safe use of the unit and understand the hazards involved. Children under 8 years old should be supervised to ensure they do not play with or handle the unit.







Using or servicing the unit without appropriate personal protective equipment (PPE) may result in serious injury such as burns, rashes, eye, throat or lung damage and death. Always wear PPE as indicated in the Safety Data Sheet (SDS) when using or servicing the unit. Protect eyes, skin, and lungs against drifting spray.



Chemical solutions may pose a health risk and death if they contact the skin or eyes, are inhaled or swallowed. Always read and follow all chemical safety precautions and handling instructions provided by the chemical manufacturer and the SDS associated with the chemical solution before using the unit.



Pressure within the equipment may cause an unexpected release of the chemical solution and cause serious injury such as burns, rashes, eye damage, throat or lung damage and death. Always depressurize and clean the unit after each use. Never leave the unit unattended while pressurized.

Using the unit with fluid temperatures above 100°F (37.8°C) may result in scalding, burns, serious injury or death. DO NOT use a solution with a temperature above 100°F (37.8°C).

Some components may be hot during and after use. Use caution when servicing or handling the equipment.



Operating the unit when damaged or leaking may result in exposure to chemical solutions, serious injury or death. Never use the unit if it is damaged or leaking.

Use of hydrocarbons and flammable products may result in explosions, fire and serious injury or death. Never use hydrocarbons or flammable products with the unit.



Mixing an alkaline with an acid may result in a chemical reaction. Overheating of mixture may cause it to splatter caustic compounds or release hazardous fumes, gas and vapors. Always flush the unit with fresh water thoroughly when switching from an alkaline to an acid or an acid to an alkaline.

Never point the discharge wand at yourself, another person, or any object you do not want covered in chemical.



Keep battery box lid closed and latched at all times unless accessing battery. Do not use with lid open or damaged. Do not expose unit to liquids, cleaning solutions, foam, or rain. The battery pack is not waterproof. Do not submerge in liquid. If battery pack gets wet, allow to dry before further use.

Using the unit with unapproved devices may result in a risk of fire, shock or personal injury. Only use with 24V Equip Series compatible equipment.

Store unit and battery indoors in a cool, dry location between  $32^{\circ}-77^{\circ}F$  (0°-25°C) and < 75% relative humidity. Do not store below  $32^{\circ}F$  (0°C) or above 113°F (45°C). To prevent premature battery failure, do not store battery in depleted state for long periods of time.

Model: FI-BP-5N V20250325 • Page 2 of 8

# Safety

## **A** WARNING

#### First Aid Instructions

- Failure to follow first aid instructions may result in death or serious personal injury.
- If battery liquid comes in contact with skin, wash immediately with soap and water, then neutralize with lemon juice or vinegar.
- If battery liquid gets in your eyes, flush with clean water for a minimum of 10 minutes, then seek immediate medical attention.
- If battery liquid is swallowed, seek immediate medical attention.

#### State of California Proposition 65 Warning

• The battery can expose you to chemicals, including cobalt, lithium, manganese, nickel, oxide, and carbon black, which are known to the State of California to cause cancer and reproductive harm. For additional information, go to www.P65Warnings.ca.gov.

#### **NOTICE**

The unit is not rated for high-altitude areas of 2000 meters and above.

Servicing or modifying this unit with parts not listed in this manual may cause the unit to operate improperly. Do not use unauthorized parts when servicing the unit.

In the presence of radiated RF energies, the charge indicator button can lose functionality. Refer to the separate manuals supplied with the battery and charger for additional safety precautions and instructions.

#### 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



Model No.: FI-BP-5N Manufactured by: FOAMit 3833 Soundtech Ct. SE Grand Rapids, MI 49512 US

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Model: FI-BP-5N V20250325 • Page 3 of 8

# **Product Overview**

# Requirements

Liquid temperature range	40-100°F (4.4-37.8°C)
Electrical requirements	120-240 VAC at 50-60 Hz, 3A (GFCI protected outlet) for battery charger only
Operating voltage	24 VDC
Chemical compatibility	Chemical products used with this equipment must be formulated for this type of application and compatible with unit materials and pump seals. For more information on chemical compatibility, consult the manufacturer or SDS for your product or contact our customer service department.

# **Specifications**

Power type	Lithium-ion battery
Battery charge time	2 hours
Battery run time	Up to 45 minutes of continuous use
Chemical pickup type	Draws from pre-mixed solution
Number of products unit can draw from	One product
Suction line diameter	3% in. (9.5 mm) inside diameter
Capacity	5 gallons (18.9 liters)
Discharge line length/diameter	12 ft. (3.7 m) hose, with 3% in. (9.5 mm) inside diameter
Discharge wand/tip type	Polypropylene spray gun with 80° fan tip Stainless steel ball valve (SSBV) with 80° fan tip
Output distance	Up to 5 ft. (1.5 m)
Output volume	4.9 gal/min (18.5 l/min)
Flow rate*	0.5 gal/min (1.9 l/min)
Pump seals	Santoprene diaphragm, Viton check seals
Wheel type	Two 4 inch (10.2 cm) non-marking wheels

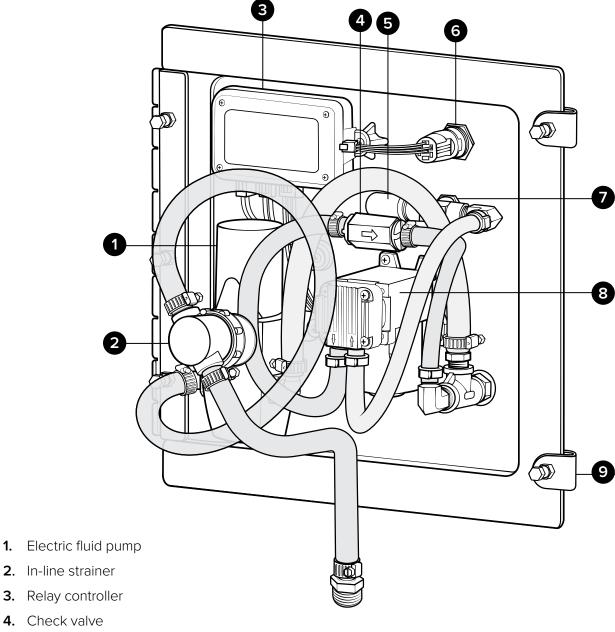
<sup>\*</sup>Flow rates given are based on chemical with viscosity of water.

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## **Product Components**

Get to know the FI-BP-5N components that you will need to use, adjust or assemble.

#### Back plate assembly • Inside view



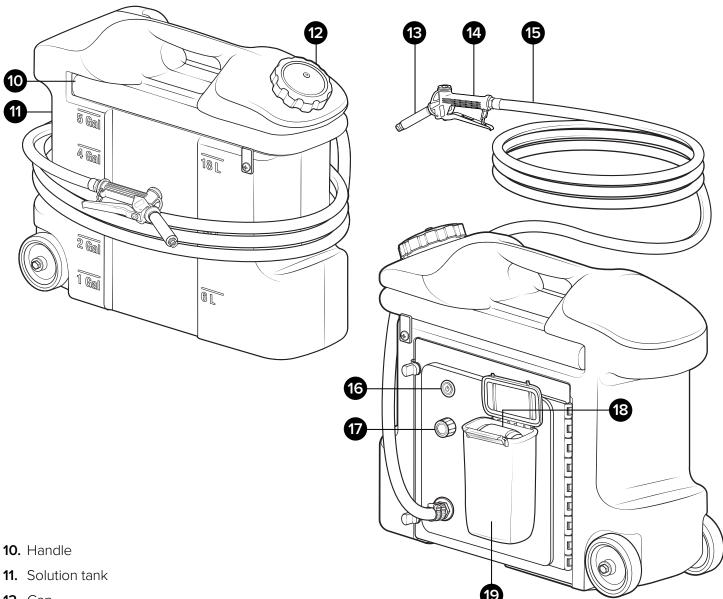
- **5.** Muffler
- **6.** Power button
- 7. Needle valve
- **8.** Electric air compressor
- 9. Back plate thumb nuts

Model: FI-BP-5N V20250325 • Page 5 of 8

## **Tank Assembly**

#### Front view

#### **Back view**



- **12.** Cap
- 13. Discharge wand
- **14.** Trigger gun
- **15.** Discharge hose
- **16.** Power button
- 17. Needle valve
- **18.** Battery
- 19. Battery box

# Using your unit

#### **Operating Instructions**

- Remove battery and charger from packaging.
   Battery must be fully charged before use. Refer to the charge level indicator table in battery user manual for more information.
- **2.** Once fully charged, insert battery into the receiver until properly secure. Close lid and secure the latch.

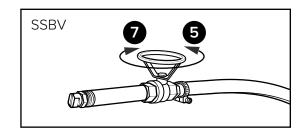
**Note:** Keep battery box lid closed and latched unless accessing battery. Do not operate unit with lid open or damaged.

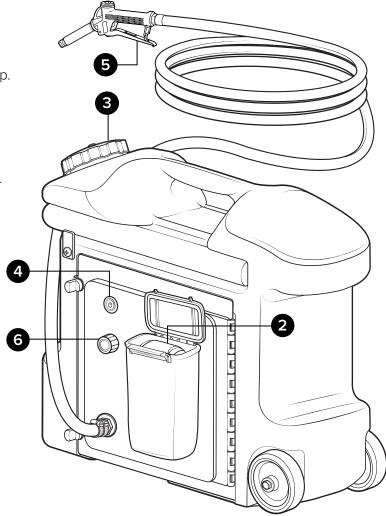
- **3.** Fill tank with pre-mixed solution as directed by the chemical manufacturer, then securely tighten the cap.
- **4.** Press the power button to turn on the unit.
- **5.** Slowly open the discharge ball valve or squeeze trigger handle to begin foaming.
- **6.** While the unit is running and discharging product, adjust the needle valve to regulate the wetness or dryness of the foam following the steps below:
  - **a.** Close the needle valve completely in clockwise direction.
  - **b.** Open needle valve in counter-clockwise direction 3 complete turns.
  - **c.** Continue to open needle valve in ¼ turn increments, allowing 30 seconds between adjustments, until desired consistency of foam is achieved.
- **7.** Close the discharge ball valve, or release trigger handle to stop foaming.

#### **After Use Instructions**

**Note:** For proper handling and disposal procedures refer to chemical SDS.

- **8.** Solution should be removed from unit after each use. This can be done in two ways:
  - **a.** Unthread cap from top of tank and drain solution into an approved location.
  - **b.** Place discharge wand into approved container. Turn the needle valve to the wet setting and activate unit until all solution has been flushed.
- **9.** Press power button to turn off unit. Open the discharge ball valve or trigger handle to relieve remaining pressure.
- **10.** Before using unit with another chemistry, thoroughly flush with water.





Model: FI-BP-5N V20250325 • Page 7 of 8

# Maintenance

## **A** WARNING

Performing any maintenance with the unit pressurized, may result in serious injury or death. Always ensure the unit has been depressurized, and battery has been removed before conducting any maintenance. Cleaning and user maintenance shall not be made by children without supervision. Servicing or modifying unit with parts not listed in this manual may cause the unit to operate improperly. Do not use unauthorized parts when servicing the unit.

## **Maintaining Your Unit**

To keep your unit operating properly, periodically perform the following maintenance procedures:

- Inspect the pump for wear and leaks.
- Inspect all hoses for leaks or excessive wear. Verify all hose clamps are in good condition and properly secured.
- Check the suction line and strainer for debris. Clean as needed.
- If foam quality beings to decrease, inspect the wadding. Replace as needed.
- Store battery in a half-charged state and maintain battery every 3-6 months.

## **Servicing Your Unit**

To service your unit, refer to the service manual which includes:

- · Troubleshooting procedures.
- Detailed parts breakdowns and illustrations.
- Part numbers of serviceable components and assemblies.



Scan this code for service manual

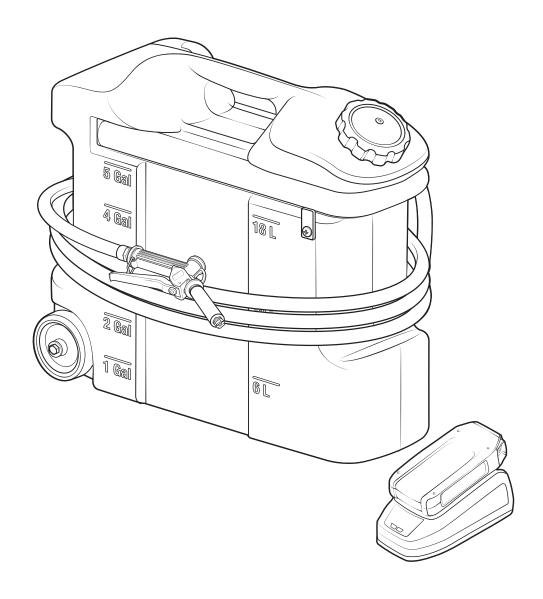


Model: FI-BP-5N V20250325 • Page 8 of 8

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## **Service Manual**

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Model: FI-BP-5N V20250320 • Page 2 of 13

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Model: FI-BP-5N V20250320 • Page 3 of 13

# Service Guide

## **WARNING**

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- Inspect all hoses for leaks or excessive wear. Verify all hose clamps are in good condition and properly secured.
- Check the suction line and strainer for debris. Clean as needed.
- If foam quality beings to decrease, inspect the wadding. Replace as needed.
- Store battery in a half-charged state and maintain battery every 3-6 months.

## **Servicing Your Unit**

Most repairs on the unit can be performed with the following tools:

- Crescent wrench (2x)
- 1/4 in. (7 mm) hex bit
- Flat head screwdriver
- Thread seal tape

- #2 Phillips head screwdriver
- #3 Phillips head screwdriver
- Hose cutters
- Knife

Model: FI-BP-5N V20250320 • Page 4 of 13

# **Troubleshooting Your Unit**

### If your unit is not operating properly, try using these troubleshooting tips:

Issue	Solution
Pump is cycling improperly	Verify pump did not fail from chemical attack, or electrical malfunction.
	Ensure proper chemical and concentration are being used.
	Inspect suction line and strainer for debris or damage.
	Needle valve may be open too far. Close and readjust the needle valve.
Foam comes out wet, no matter	The check valve may need to be replaced.
where the needle valve is positioned	Verify correct chemical concentration is being used.
positioned	If only fluid pump is running, electric air compressor may need to be replaced.
	Check if wadding is plugged. Remove and inspect it by following the instructions below:
	1. Verify the unit does not have the battery installed or the power on.
	<ol><li>Relieve all stored pressure in the unit by opening the ball valve, or squeezing the trigger handle.</li></ol>
	3. Unthread the discharge wand from the ball valve or spray gun.
	4. Remove and inspect the wadding from inside the wand.
	<b>Note:</b> Ensure tubing stays inside of wand when removing wadding.
	5. Replace wadding if necessary. Attach wand back onto ball valve or spray gun.
Sporadic wet foam	Verify correct chemical concentration is being used.
	Ensure discharge hose is not kinked or damaged.
	Inspect wadding. Replace wadding if it is clogged.
	If wadding is next to spray tip, replace tubing inside the discharge wand.
Sporadic dry foam	Inspect suction line and strainer for debris or damage.
	If pump is cycling improperly or has failed, replace the pump.
The unit operates at a reduced pressure	Inspect suction line and strainer for debris or damage. Clean or replace as needed.  To prevent damage to the unit, the strainer must always be used.
	Inspect wadding. Replace wadding if necessary.
Battery will not completely charge	Place a secondary battery on the charger. If the secondary battery charges as expected, it indicates that the initial battery is faulty and should be replaced.
	If the problem continues to occur, the charger is bad. Replace battery charger.
Battery discharges too quickly	Battery has reached life expectancy. Replace battery.
Power button LED slow flashing	Dead battery. Charge or replace battery before proceeding.
Power button LED fast flashing	Compressor startup failure. Reset with a power cycle.
	A faulty pump or compressor may need to be replaced.
Power button LED double flashing	Pump or compressor is over temp. Allow unit to cool before continuing.
Battery/charger fault light is flashing	Refer to the separate manuals supplied with the battery and charger for more information regarding indicator and fault lights.

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# **Tank Assembly**

#### TNKA-5N-BK:

5 gallon natural tank assembly - black\* cap - includes handle, wheels, and backplate thumb nuts

#### **BPTNA:**

Back plate thumb nut assembly - includes bolt, thumbnut, and tether  $% \left( 1\right) =\left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right) \left( 1\right) +\left( 1\right) \left( 1$ 

	Item number	Description
1	BST1420118-VS	Bolt - set - ¼-20 x 1 ½ in stainless steel - Vibra-Seal
2	TN1420	Thumb nut - 1/4-20 x 11/4 in PP - brass insert - assembled with tether

	Item number	Description
3	CPA-35BK- VNT-NCHN	Cap assembly - 3.5 in. PP - black* vented - EPDM check valve - EPDM gasket
4	TNK-5N-HNDL	Handle for 5 gallon tank
5	PTAB-TNK5	Tab for TNK-5N handle - HDPE
6	TNK-5N	Tank - 5 gallon natural - portable
7	HBSS1238	Hose barb - stainless steel - ½ in. MPT x ¾ in. barb

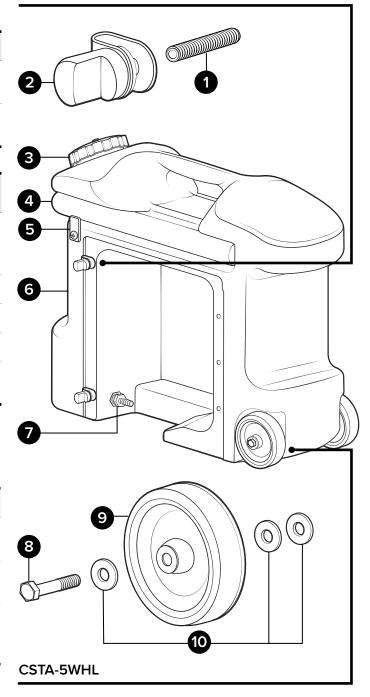
<sup>\*</sup> Additional colors available, see datasheet for options.

#### CSTA-5WHL:

5 in. caster wheel - includes bolt and washers

	Item number	Description
8	B516182-HH	Bolt - 5/16-18 x 2 in stainless steel hex head
9	CST5-WHL	Wheel - polypropylene - for CST5SS and CST5SS-L
10	FW3816	Flat washer for 3%-16 bolt - stainless - 0.41 in. id x 0.88 in. od x 0.05 in. thk

#### **BPTNA**



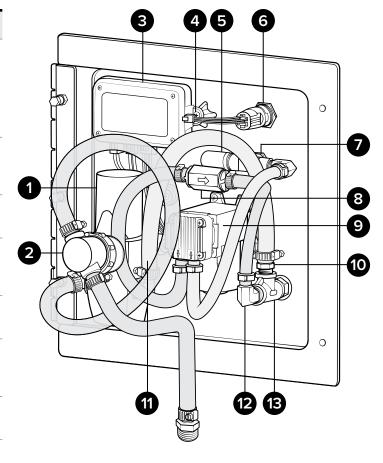
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# **Back Plate Assembly**

#### PA-PF38-BP-TNK5:

Plate assembly for 5 gallon portable foam battery unit - 24 Volt battery and air compressor - 3/8 in. discharge hose barb - battery and charger sold separately

	Item number	Description
1	EP24VDC-1- PS-MLX	Electric fluid pump - 24 VDC - 1 GPM open flow - 40 PSI max - Viton seals - Santo diaphragm includes pressure switch and molex connector
2	STR38-IL	Strainer - in line - 2x ¾ in. hose barb - EPDM gskt - #20 mesh SS screen - black bowl
3	LVRC-24V-MC	Low voltage relay controller - 24 volt - with motor controller
4	S1034-HL	Screw - #10 x 3/4 in stainless steel - round head Phillips - hi-lo thread
5	MFLRPE14	Muffler - ¼ in. male NPT - polyethylene
6	PBSA-24V	Push button switch assembly includes 24V LED locking switch and wire harness
7	NV14	Needle valve - ¼ in. NPT - includes black knob
8	CV14-HT	Check valve - ¼ in. barbs - 1 lb stainless steel spring and ball - Viton seals - polypropylene body - black - high temp
9	AC24VDC-1.4- MLX	Air compressor - 24 VDC electric - 1.4 CFM open flow - 80 PSI max - includes molex connector
10	HBSS1438	Hose barb - stainless steel - $\frac{1}{4}$ in. MPT x $\frac{3}{8}$ in. barb
11	H38BL-F	3% in. id blue hose - hybrid TPE available per ft.
12	HBSSEL1414	Hose barb - stainless steel - elbow - ¼ in. MPT x ¼ in. barb
13	SST14	Stainless tee ¼ FPT



# **Back Plate Assembly**

#### PA-PF38-BP-TNK5:

Plate assembly for 5 gallon portable foam battery unit - 24 Volt battery and air compressor - 3% in. discharge hose barb - battery and charger sold separately

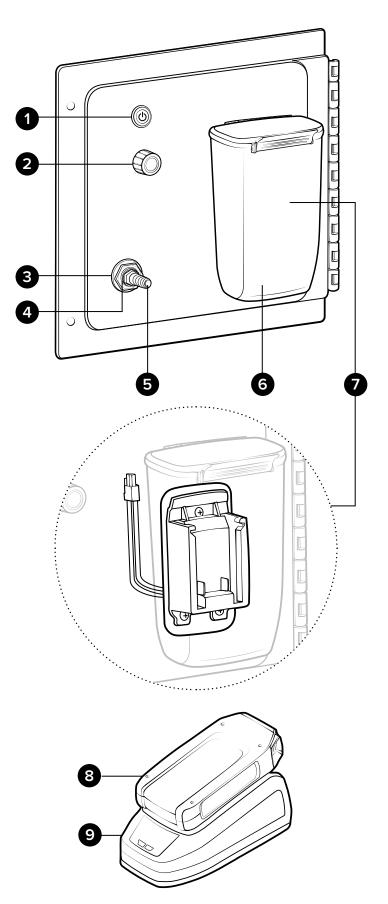
	Item number	Description
1	PBSA-24V	Push button switch assembly - includes 24V LED locking switch and wire harness
2	NV14-HNDL	Black knob for needle valve
3	SSSFN12	Serrated flange nut - stainless - ½ in.
4	SSA14BKH	Bulkhead adapter - stainless steel - ¼ in. NPT x ¼ in. NPSM
5	HBSS1438	Hose barb - stainless steel - 1/4 in. MPT x 3/8 in. barb
6	BLI-24V-BB	Battery box - includes box, lid, latch, pins, and gasket
7	BLI-24V-RCVR	Battery receiver interface plate for BLI-24V system

## Battery and Charger\*

\*not included with backplate assembly

	Item number	Description
8	BLI-24V-4AH	Battery - lithium ion - 24V 4AH - includes manual
9	BLI-24V-CHRGR	Battery - lithium ion - 24V - charger - includes NA power cord and manual

Note: Refer to battery and charger user manuals for more information.



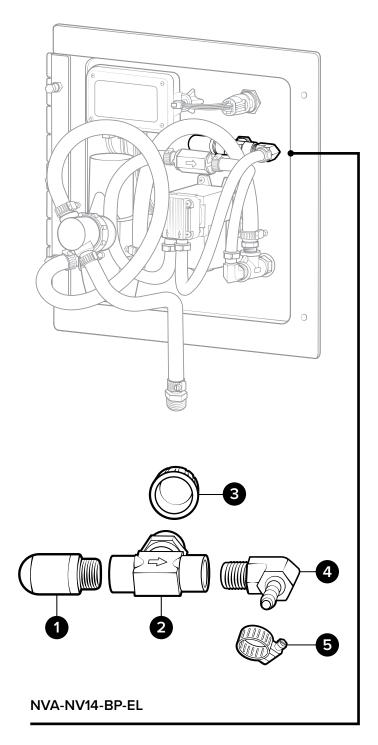
\*not included with backplate assembly

## **Back Plate Sub-assemblies**

#### NVA-NV14-BP-EL:

Needle valve assembly - includes needle valve, polyethylene muffler, hose barb, and screw band clamp

li	tem number	Description
1	MFLRPE14	Muffler - ¼ in. male NPT - polyethylene
2	NV14	Needle valve - ¼ in. NPT - includes black knob
3	NV14-HNDL	Black knob for needle valve
4	HBSS1414	Hose barb - stainless steel - 1/4 in. MPT x 1/4 in. barb
5	SSC14	Screw band clamp - stainless steel - for ¼ in. hose



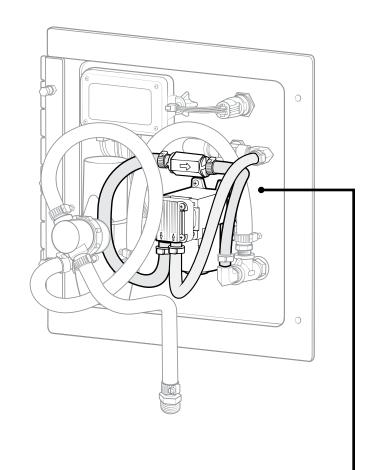
Model: FI-BP-5N

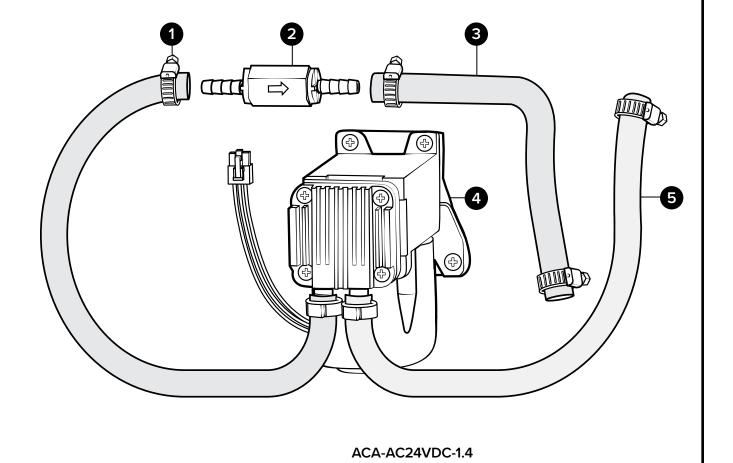
## **Back Plate Sub-assemblies**

#### ACA-AC24VDC-1.4:

Air compressor assembly - includes 24V air compressor, 1 lb. SS check valve, hoses, and screw band clamps

	Item number	Description
1	SSC14	Screw band clamp - stainless steel - for ¼ in. hose
2	CV14-HT	Check valve - ¼ in. barbs - 1 lb stainless steel spring and ball - Viton seals - polypropylene body - black - high temp
3	H14BK-HT	¼ in. black hose - high temp EPDM rubber - available per ft.
4	AC24VDC-1.4-MLX	Air compressor - 24 VDC electric - 1.4 CFM open flow - 80 PSI max - includes molex connector
5	H14BL-F	¼ in. id blue hose - hybrid TPE - available per ft.





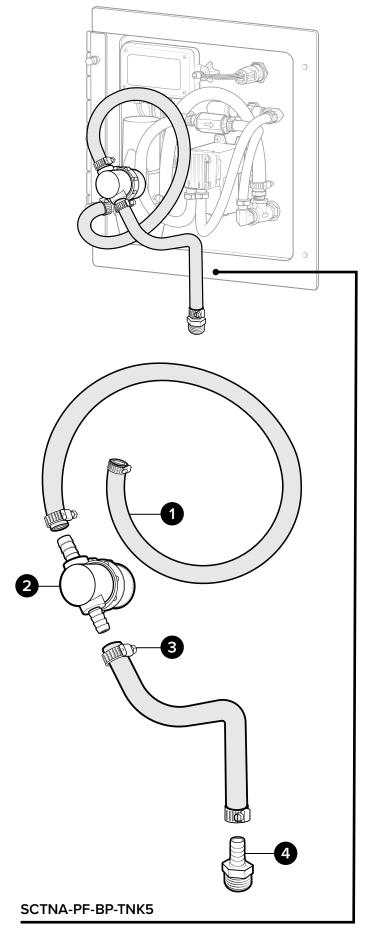
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## **Back Plate Sub-assemblies**

#### SCTNA-PF-BP-TNK5:

Suction assembly for 5 gallon battery equipped units - includes suction valve, hose, and in-line strainer

lt	em number	Description
1	Н38ВК-НТ	<sup>3</sup> % in. black hose - high temp EPDM rubber - available per ft.
2	STR38-IL	Strainer - in line - 2x ¾ in. hose barb - EPDM gskt - #20 mesh SS screen - black bowl
3	SSC38	Screw band clamp - stainless steel - for 3% in. hose
4	HBSS1238	Hose barb - stainless steel - ½ in. MPT x ¾ in. barb



Model: FI-BP-5N V20250320 • Page 12 of 13

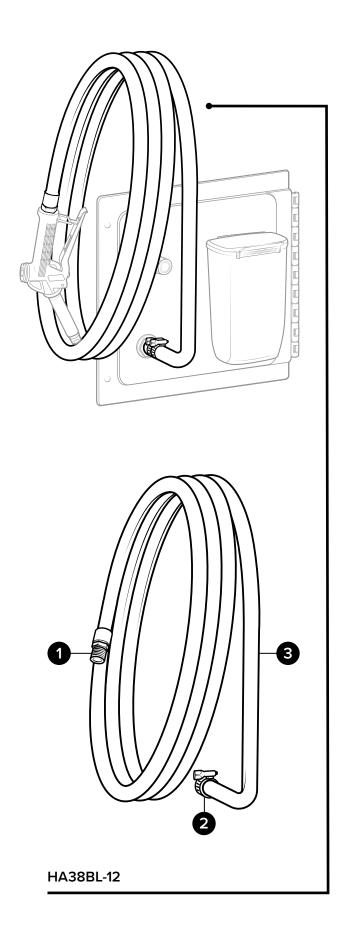
# **Hose Assembly**

#### HA38BL-12:

Hose assembly - 12 ft. of  $\frac{3}{8}$  in. blue\* hose - includes ferruled hose barb

Item number		Description
1	HBSS1238	Hose barb - stainless steel - ½ in. MPT x ¾ in. barb
2	SSC38	Screw band clamp - stainless steel - for 3% in. hose
3	H38BL-F	3% in. id blue* hose - hybrid TPE - available per ft.

<sup>\*</sup> Additional colors available, see datasheet for options.



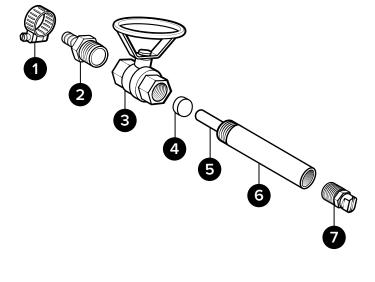
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# **Wand Assembly Options**

#### PWA384-ST-MX:

Poly wand assembly for  $\frac{3}{8}$  in. hose - includes 4 in. poly wand, ST8030SS spray tip, ball valve, and mixing media

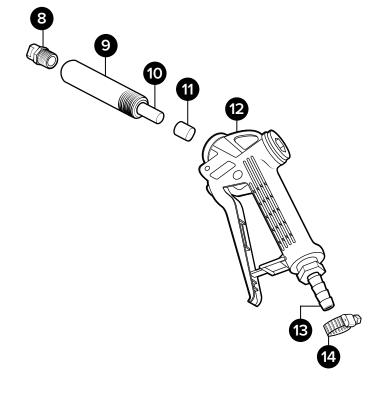
Item number		Description
1	SSC38	Screw band clamp - stainless steel - for 3% in. hose
2	HBSS1238	Hose barb - stainless steel - ½ in. MPT x ¾ in. barb
3	BVSS12	Stainless ball valve - ½ in. NPT
4	MXPES-34	Mixing media - white polyester - wad - fine porosity - ¾ in. dia x ¾ in. tall
5	TB38N-PE	3% in. od natural tube - polyethylene - available per ft.
6	PW12M14F4	½ in. NPT and ¼ in. FNPT wand - black UHMW - 4 in. long
7	ST8030SS	Spray tip - 80 degree - 3.0 GPM - stainless - 1/4 MPT



#### PSGA384-ST-MX:

Poly spray gun assembly for  $\frac{3}{8}$  in. hose - includes 4 in. black poly wand, ST8030SS spray tip, mixing media, hose barb, and screw band clamp

Item number		Description
8	ST8030SS	Spray tip - 80 degree - 3.0 GPM - stainless - ¼ MPT
9	PW12M14F4	½ in. NPT and ¼ in. FNPT wand - black UHMW - 4 in. long
10	TB38N-PE	3% in. od natural tube - polyethylene - available per ft.
11	MXPES-34	Mixing media - white polyester - wad - fine porosity - ¾ in. dia x ¾ in. tall
12	PSG12	Poly spray gun with 2x ½ in. straight thread - gray handle with red clip - 316SS internal spring - includes 2x o-ring
13	HBSS1238	Hose barb - stainless steel - ½ in. MPT x ¾ in. barb
14	SSC38	Screw band clamp - stainless steel - for 3% in. hose



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