USER MANUAL

Twin-line Central Foam Station

English (Original Instructions)

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

 WARNING

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

- Read all instructions before installing or operating unit.
- Always wear appropriate personal protective equipment (PPE) when operating or servicing unit.
- Always follow all chemical safety precautions and handling instructions provided by the chemical manufacturer and Safety Data Sheet (SDS).
- If this unit is modified or serviced with parts not listed in this manual, the unit may not operate correctly.
- Never point the discharge wand at yourself, another person, or any object you do not want covered in chemical.
- Always depessurize unit after use (as described in the After Use Instructions). Always store unit depressurized, with the discharge valve in the closed position.
- Do not exceed an incoming air pressure of 100 psi (6.9 bar).
- Do not exceed a fluid temperature of 100˚F (37.8˚C).
- Always flush the unit with fresh water thoroughly when switching from an alkaline to an acid or an acid to an alkaline.
- Never use unit with hydrocarbons or flammable products.
- 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 an air lubricator before the unit.
- Never use unit if it is damaged or leaking.

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.

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REQUIREMENTS	
Compressed air requirements	40-80 psi (2.8-5.5 bar) with 3-6 cfm (85-170 l/min)
Liquid temperature range	40-100˚F (4.4-37.8˚C)
Central system requirements	Pre-mixed solution must be supplied by a properly sized header system at 1 gpm (3.8 l/m) and 40 to 80 psi (2.8 to 5.5 bar).
Chemical compatibility	Chemical products used with this equipment must be formulated for this type of application and compatible with unit materials. For more information on chemical compatibility, consult the manufacturer or SDS for your product or contact our customer service department.

SPECIFICATIONS	
Power type	Compressed air
Chemical pickup type	Draws from pre-mixed centrally-supplied solution
Number of products unit can draw from	One centrally-supplied product
Discharge hose diameter/length	25 ft. (7.6 m) twin-line tubing, with 1/4 in. (6.35 mm) inside diameter (coiled and bonded)
Discharge wand/tip type	Polypropylene trigger handle with 65° fan tip
Output distance	4-6 feet (1.2-1.8 m)
Output volume	6 gal/min (22.7 l/min) of foam
Flow rate*	1 gal/min (3.8 l/min)

*Dilution rates and flow rates given are based on chemical with viscosity of water and factory air pressure settings.

Installation Instructions:

To Install Control Box:

1. Remove all components from packaging.

2. Select desired area to mount the control box. **Note:** The control box should be mounted to a vertical wall.

3. Attach the control box mounting feet to the back of the control box, using the four screws provided in the parts package.

4. Mount the control box to the wall using four of the screws and plastic anchors provided in the parts package. **Note:** To drill holes for the plastic anchors, use a 5/16 inch drill bit.

5. Connect the coiled discharge tubing to the bulkhead fittings on the bottom of the control box - red tube to RED label, blue tube to BLUE label.

To Connect Control Box to Header Supply Line:

1. After control box has been installed, connect the air inlet hose barb provided in the parts package to the air inlet valve located on the top of the control box. Then attach a 3/8 inch I.D. air line from your air compressor to the air inlet hose barb, and secure it with the smaller hose clamp provided in the parts package.

2. Connect the control box to the pre-mixed solution supply line from the chemical storage area. Connection to control box is a 1/4 inch O.D. push-to-connect fitting located on the top of the unit. Install solution inlet valve in-line above the unit (install in closed position). Inlet tubing not provided.

Note: On new installations, make sure to flush the central system lines with water before connecting the unit. This helps remove any debris in the lines that coule negatively impact the function of the unit.

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Operation Instructions:

1. Follow all instructions from chemical manufacturer.

2. With the discharge trigger handle in the closed position, open the air inlet valve and solution inlet vavle.

3. To start foaming, point discharge handle assembly at area you wish to foam and squeeze the trigger handle to begin foaming. Release the trigger handle to stop foaming.

4. While the unit is running and discharging product, adjust the needle valve, located inside the control box, as needed to regulate the wetness or dryness of the foam following the steps below:
   a. Close needle valve completely in clockwise direction.
   b. Open needle valve in counter-clockwise direction 2 complete turns.
   c. Continue to open needle valve in ¼ turn increments, allowing 30 seconds between adjustments, until desired consistency of foam is achieved.

After Use Instructions:

We recommend depressurizing the unit after each use.

1. Close the discharge trigger handle.

2. Shut off the air and solution supply to the unit by closing the air inlet valve and solution inlet valve.

3. Open the discharge trigger handle to relieve any pressure remaining in the system.

4. Close the discharge trigger handle after all pressure has been released from the unit. Store the unit with the discharge trigger handle in the closed position.

Maintenance Instructions:

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

Note: Always ensure that the unit has been depressurized, and disconnected from the air supply before conducting any maintenance.

- Inspect all hoses for leaks or excessive wear. Make sure all hose clamps are in good condition and properly secured.
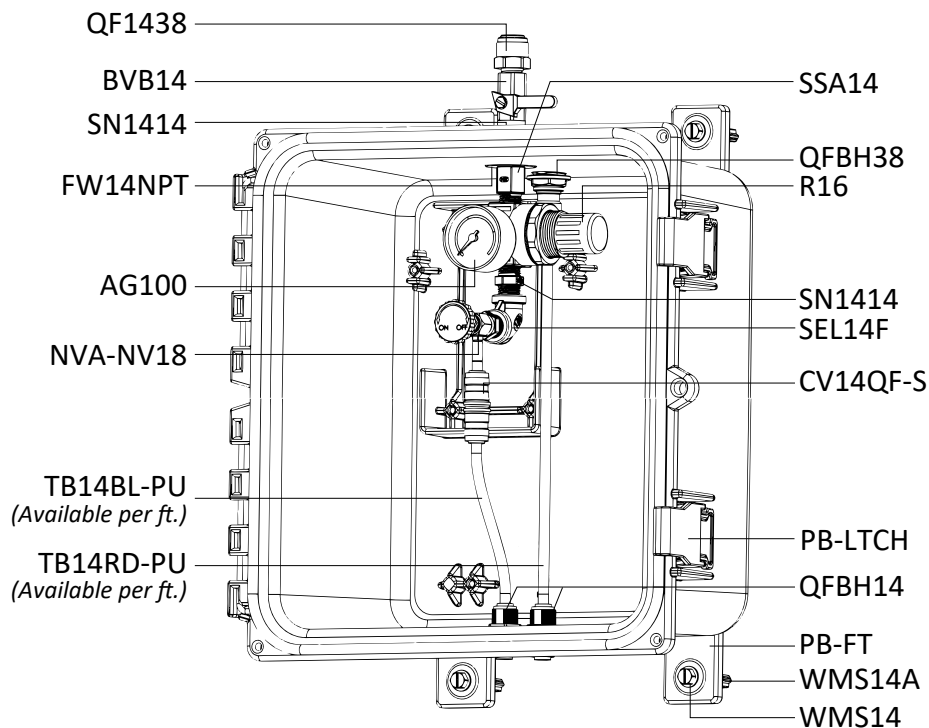
Troubleshooting Instructions:

- Check to ensure that the discharge tubing has no kinks that could obstruct fluid flow.

- If foam discharge is inconsistent or sporadic, the needle valve and/or air regulator may be set improperly. If this occurs, readjust the needle valve as described in *Operation Instructions*.

- Make sure proper foaming chemical and concentration is being used.

- If foam comes out wet, no matter where the needle valve is positioned, the check valve may need to be replaced.

- If the unit foams at a reduced pressure:
  o Check the air compressor supplying the unit. If the pressure is less than 40 psi (2.8 bar), turn the foam unit off until the compressor can catch up.
  o If the air supply to the unit is sufficient, check the air gauge inside the control box. The air pressure should be roughly equivalent to the incoming solution pressure.
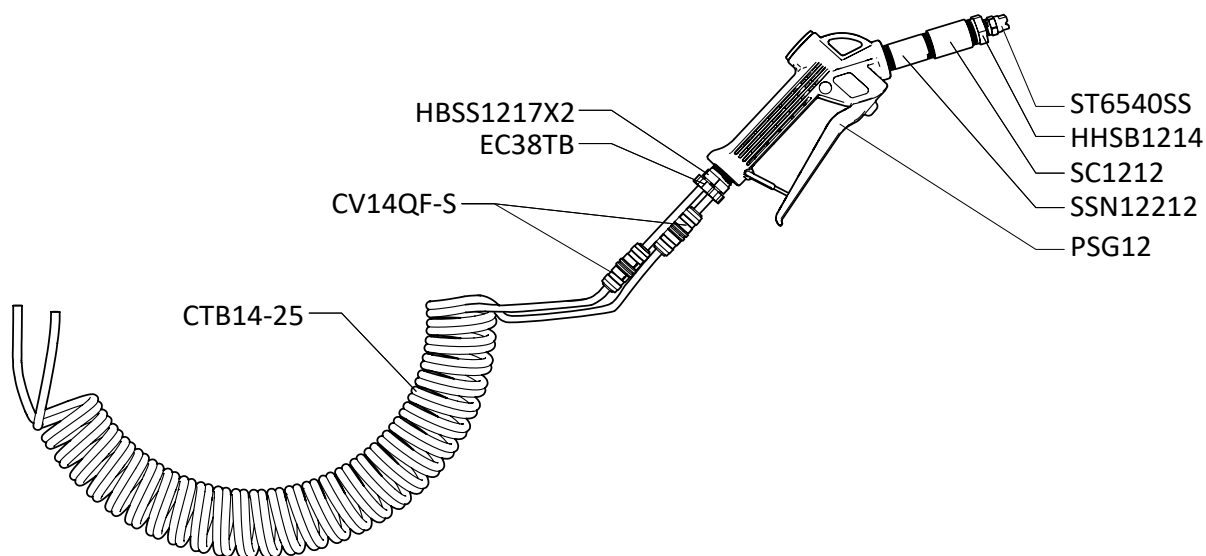
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CONTROL BOX
ITEM NUMBER: FI-STN-LVTL-CB

QF1438

BVB14

SN1414

FW14NPT

AG100

NVA-NV18

TB14BL-PU
(Available per ft.)

TB14RD-PU
(Available per ft.)

SSA14

QFBH38

R16

SN1414

SEL14F

CV14QF-S

PB-LTCH

QFBH14

PB-FT

WMS14A

WMS14

HOSE AND WAND ASSEMBLY
ITEM NUMBER: PSGATL212SS-ST-MX-CTB14-25-CV

HBSS1217X2

EC38TB

CV14QF-S

CTB14-25

ST6540SS

HHSB1214

SC1212

SSN12212

PSG12

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ITEM NUMBER	DESCRIPTION
AG100	AIR GAUGE - 1/8IN NPT - 0-100 PSI MARKINGS - DRY MODEL
BVB14	BALL VALVE - BRASS - NICKEL PLATED - AIR INLET VALVE - 1/4IN FPT X 1/4IN FPT
CTB14-25	1/4IN OD COILED TWIN LINE BONDED BLUE AND RED TUBE - POLYURETHANE - 25FT REACH
CV14QF-S	1/4 TUBE X 1/4 TUBE CHK QUICK FIT-SMALL
EC38TB	EAR CLAMP - OETIKER - STAINLESS STEEL - FOR 3/8IN OD TUBE
FW14NPT	FLAT WASHER FOR 1/4IN NPT - STAINLESS - 0.57IN ID X 1.28IN OD X 0.08IN THK
H14CL-PV	1/4IN ID 3/8IN OD CLEAR HOSE - PVC - AVAILABLE PER FT
HBB103217	HOSE BARB 10-32 MPT X B4 FITTING
HBB103217W	FIBER WASHER FOR HBB103217 - W/ BARB
HBSS1217X2	HOSE BARB - STAINLESS STEEL - 1/2IN MPT X TWIN .170IN BARB
HBSS1438	STAINLESS HOSE BARB 1/4 MPT X 3/8 BARB
HHSB1214	HEX HEAD STAINLESS BUSHING 1/2 MPT X 1/4 FPT
HHSB1418	HEX HEAD STAINLESS BUSHING 1/4 MPT X 1/8 FPT
MXPES-34	MIXING MEDIA - WHITE POLYESTER - WAD - FINE POROSITY - 3/4IN DIAMETER X 7/8IN TALL
NVA-NV18	NEEDLE VALVE ASSEMBLY - 1/8IN FITTING - INCLUDES VALVE, HANDLE, SET SCREW
NV1032HNDL	BLACK HANDLE FOR NEEDLE VALVE
NV1032SETS	SET SCREW FOR HANDLE
NV18	NEEDLE VALVE-1/8 IN MPT-10-32F-VALVE ONLY-NO SETS-NO HANDLE
P18	PLUG - 1/8IN MPT - 304 STAINLESS STEEL - SQUARE HEAD
PBA-12117	POLY BOX ASSEMBLY - 12IN X 11IN X 7IN - GRAY POLYPROPYLENE - INCLUDES BRAND LABEL AND MOUNTING HARDWARE
PB12117-LID	POLY BOX LID - GRAY POLYPROPYLENE - FOR PBA-12117 - INCLUDES PB-GSKT ROPE SEAL
PB-FT	POLY BOX FOOT - GRAY POLYPROPYLENE - FOR PBA-12117 AND PBA-16138
PB-LTCH	POLY BOX LATCH - GRAY POLYPROPYLENE - TWO PIECES ASSEMBLED - FOR PBA-12117 AND PBA-16138
PB-PIN	STAINLESS STEEL HINGE PIN FOR PB16138 AND PB12117
PB12117-BOX	POLY BOX - GRAY POLYPROPYLENE - FOR PBA-12117
PSG12	POLY SPRAY GUN WITH 2X 1/2IN STRAIGHT THREAD - GRAY HANDLE WITH RED CLIP - 316SS INTERNAL SPRING - INCLUDES 2X O-RING

PSGORV	O-RING FOR PSG12-VITON
QF1438	QUICK FIT-1/4 MPT X 3/8 OD TUBE-POLYPROPYLENE
QFBH14	BULKHEAD 1/4IN TUBE POLYPROPYLENE
QFBH38	BULKHEAD 3/8IN TUBE POLYPROPYLENE
QFR3814	REDUCER 3/8IN TUBE TO 1/4IN TUBE - POLYPROPYLENE
QFSOV38	SHUT OFF VALVE 3/8IN TUBE POLYPROPYLENE
R16	REGULATOR - AIR - 2X 1/4IN FPT AND 2X 1/8IN FPT PORTS - NO BOWL AND FILTER - NO GAUGE
S1034-FH-HL	SCREW - #10 X 3/4IN - STAINLESS STEEL - FLAT HEAD PHILLIPS - HILO THREAD
SC1212	S.S. COUPLER 1/2IN BY 1/2IN
SEL14F	S.S. ELBOW 1/4IN FPT X 1/4IN FPT
SN1414	STAINLESS HEX NIPPLE 1/4 MPT X 1/4 MPT
SSA14	STAINLESS ADAPTOR 1/4 MPT X 1/4 FPT
SSC38	SCREW BAND CLAMP - STAINLESS STEEL - FOR 3/8IN HOSE
SSN12212	1/2IN NPT SCH40S PIPE NIPPLE - STAINLESS - 2 1/2IN LONG
ST6540SS	SPRAY TIP-65 DEGREE-4.0 GPM-STAINLESS-1/4 MPT
SN1414	STAINLESS HEX NIPPLE 1/4 MPT X 1/4 MPT
SSA14	STAINLESS ADAPTOR 1/4 MPT X 1/4 FPT
SSC34	SCREW BAND CLAMP - STAINLESS STEEL - FOR 3/4IN HOSE
SSC38	SCREW BAND CLAMP - STAINLESS STEEL - FOR 3/8IN HOSE
T5	1/2 POLY TEE
TB12N-PE	1/2IN OD NATURAL TUBE - POLYETHYLENE - AVAILABLE PER FT
TB14BL-PU	1/4IN OD BLUE TUBE - POLYURETHANE - AVAILABLE PER FT
TB14RD-PU	1/4IN OD RED TUBE - POLYURETHANE - AVAILABLE PER FT
WMA-HH	WALL MOUNT BRACKET ASSEMBLY - HOSE HANGER - INCLUDES MOUNTING HARDWARE
WMS14	WALL MOUNT SCREW - #14 X 1 1/4IN - STAINLESS STEEL - HEX HEAD SLOTTED
WMS14A	WALL MOUNT SCREW ANCHOR -#14 X 1 1/4IN - PLASTIC - 5/16IN DRILL SIZE