
USER MANUAL

**MODEL NUMBER:
CFS-TL**

**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 depressurize 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 (7 bar).
- Do not exceed a fluid temperature of 100°F (37°C).
- Always flush the unit with fresh water for 5 minutes 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.

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

REQUIREMENTS	
Compressed air requirements	40-80 psi (3-5 bar) with 3-6 cfm (85-170 l/min)
Liquid temperature range	40-100°F (4.4-37°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 (3 to 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 spray gun 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 (CT25) 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 (HBSS1438) provided in the parts package to the air inlet valve (BVB14) 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 (QFSOV14) 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 could negatively impact the function of the unit.

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Operation Instructions:

1. Follow all instructions from chemical manufacturer.
2. With the discharge trigger handle (PSG12) in the closed position, open the air inlet valve (BVB14) and solution inlet valve (QFSOV14)
3. To start foaming, point discharge handle assembly at area you wish to foam and squeeze the trigger handle (PSG12) to begin foaming. Release the trigger handle to stop foaming.
4. While the unit is running and discharging product, adjust the needle valve (NV18, NV1032HNDL, NV1032SETS), 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 (PSG12).
2. Shut off the air and solution supply to the unit by closing the air inlet valve (BVB14) and solution inlet valve (QFSOV14).
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: Before performing any maintenance, ensure that the unit has been depressurized according to the "After Use Instructions."

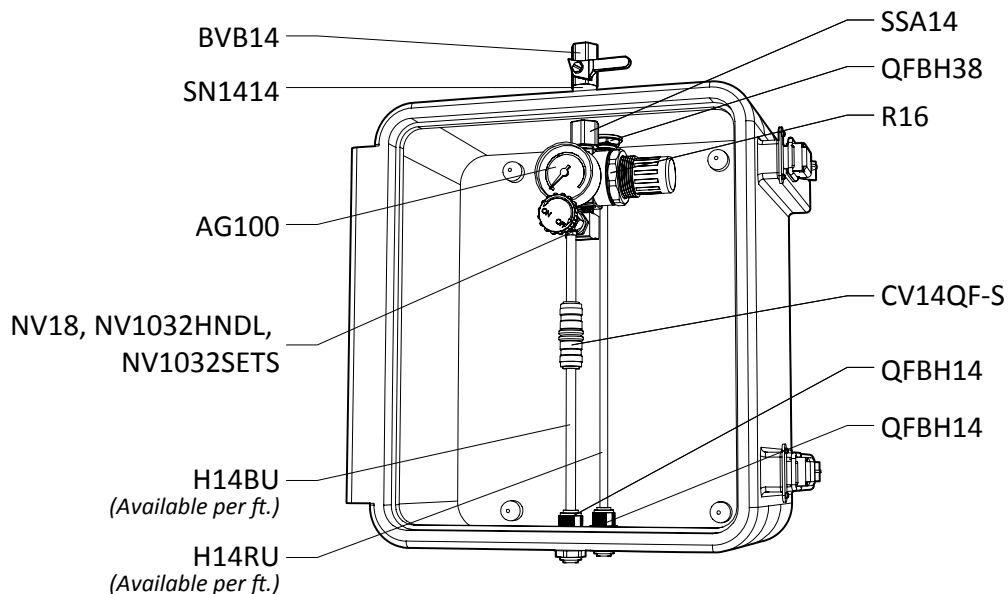
- Inspect hoses for leaks or excessive wear. Make sure all hose clamps are in good condition and properly secured.

Troubleshooting Instructions:

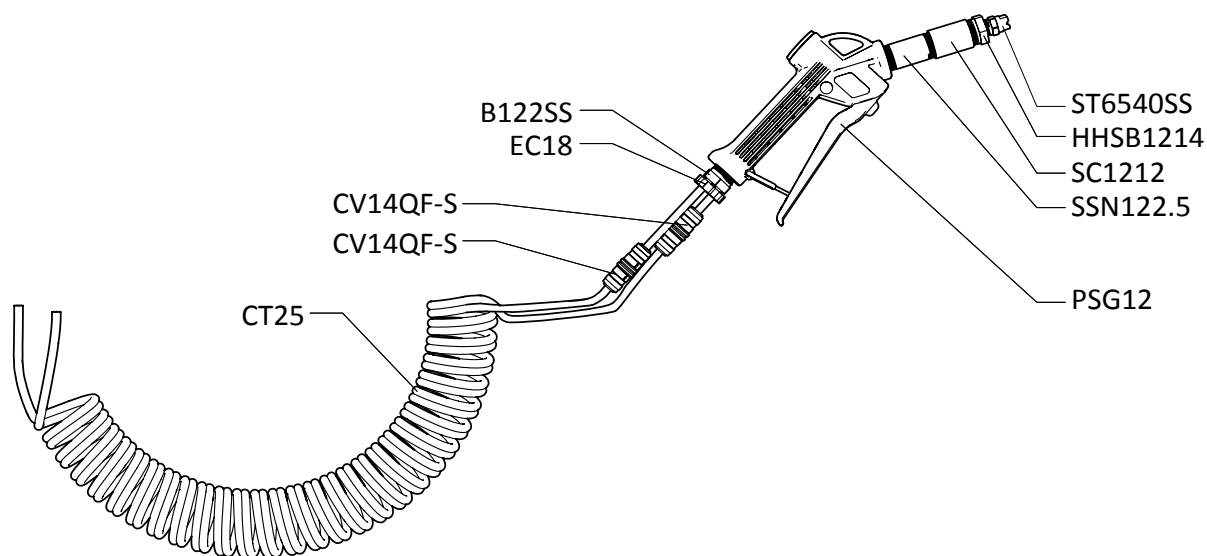
- Check to ensure that the discharge tubing has no kinks that could obstruct fluid flow.
- If foam discharge is inconsistent or sporadic, the needle valve (NV18) and/or air regulator (R16) may be set improperly. If this occurs, readjust the needle valve (NV18) as described in Operation Instructions.
- Make sure proper foaming chemical and concentration is being used.
- If foam comes out wet, no matter where the needle valve (NV18) is positioned, the check valve (CV14QF-S) 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, 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 (AG100) inside the control box. The air pressure should be roughly equivalent to the incoming solution pressure.

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

CONTROL BOX ITEM NUMBER: CFS-TL-CB



HOSE AND WAND ASSEMBLY ITEM NUMBER: CFS-TL-HA25



READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

ITEM NUMBER	DESCRIPTION
AG100	1.5 INCH DRY MODEL 20 DUAL SCALE GAUGE
B122SS	1/2in S.S. MALE BY TWIN .170 BARB
BEL14F14M	BRASS ELBOW 1/4in FPT X 1/4in MPT
BH142015	BUTTON HEAD SOCKET CAP - 1/4 - 20 x 1.5 STAINLESS STEEL
BVB14	AIR INLET VALVE - VA BRS 025-4F4F-BT, NICKEL
CT25	25ft COILED 1/4in POLY URETHANE RED/BLUE TUBING
CV14QF-S	1/4 TUBE X 1/4 TUBE CHK QUICK FIT-SMALL
EC18	OETIKER CL AMP - 11.3
FWLG14	.569 ID X 1.28 OD X .08 THICK FLAT WASHER SS 18-8
H14BU	1/4in OD BLUE POLYURETHANE TUBING - Available per ft.
H14C	1/4in ID CLEAR POLYVINYL TUBING - Available per ft. (3/8 in OD)
H14RU	1/4in OD RED POLYURETHANE TUBING - Available per ft.
H38CP	3/8 IN OD POLYETHYLENE TUBING - NATURAL - Available per ft.
HBB103217	10-32 B4 HOSE BARB
HBB103217W	FIBER WASHER FOR HBB103217 - W/ BARB
HBSS1438	STAINLESS HOSE BARB 1/4 MPT X 3/8 BARB
HHBB1418	HEX HEAD STAINLESS BUSHING 1/4in X 1/8in
HHSB1214	HEX HEAD S.S. REDUCER BUSHING 1/2 X 1/4
NV1032HNDL	BLACK HANDLE FOR NEEDLE VALVE
NV1032SETS	SET SCREW FOR HANDLE
NV18	NV2SV-B,6.5T DS,1/8M,10-32F
P18	PLUG 1/8 MPT HEX HEAD 304 SS
PB1211-A	GRAY POLY BOX 12 X 11 X 6
BKSS	BOX KEEPER STAINLESS STEEL
BLSS	Stainless Steel Latch

PB1211-GSKT	3/32 INCH THICK GSKT WITH PSA
PB1211-P	GRAY POLY BOX 12 X 11 X 6
PBFT-SS	POLY BOX SS FOOT
PL1211-P	12X11 INCH POLYETHYLENE LID
RIVSS-18-4	1/8 Stainless Rivet/Stainless Mandrel - Length .400 - Grip Range (.188 - .250)
S142058-VS	1/4-20 X 5/8 PHIL TRUSS MACHINE SCREW 18-8 W/#516 VIBRASEAL ORANGE PATCH
WMS14	14 X 1 1/4 HEX W/H SMS SLOTT, S/S
WMS14A	5/16 X 1 1/2 STRAIGHT PLASTIC ANCHOR
PSG12	1/2 IN POLY SPRAY GUN W/ GRAY HANDLE & 316SS
PSGORV	PSG12 O RING-VITON
QF1438	MALE CON. 1/4in MPT X 3/8in 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	PB21649-N500 W/6 BAR SPRING
S142058-VS	1/4-20 X 5/8 PHIL TRUSS MACHINE SCREW 18-8 W/#516 VIBRASEAL ORANGE PATCH
SC1212	S.S. COUPLER 1/2in BY 1/2in
SN1414	STAINLESS 1/4MPT X 1/4MPT NIPPLE
SSA14	SS304 MALE/FEMALE ADAPTOR 1/4 NPT X 1/4 NPT
SSC38	WORM GEAR CLAMP, S/S (.25-.63)
SSN122.5	STAINLESS 304 NIPPLE 1/2IN X 2.5 IN
ST6540SS	VEEJET NOZZLE S.S. 6540
WAAD-.75	WADDING FOR PUMP-UP FOAMER - 3/4in DIA.