
USER MANUAL

**PART NUMBER:
99210**

Wall Mount Foam Unit

English (V1.3)



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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 ball 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.
- 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.

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.

Specifications:

Hose 70 feet reinforced hose, 1/2 inch inside diameter
(21.3 meters reinforced hose, 12.7 mm inside diameter)
Foam Output..... 20 to 45 gallons/minute
(75 to 170 liters/minute)
Foaming Distance 25 to 30 feet (7 to 9 meters)

Requirements:

Compressed Air Pressure Requirements: Air Regulator (R25) is factory set at 50 psi (3.4 bar).
For best results, increase air regulator (R25) to 80psi (5 bar) to compensate for the 70 feet of hose. Operating range is 40 to 80 psi (3 to 5 bar) with 5 to 10 CFM (141.6 to 283.3 L/min)

Liquid Temperature 40°F to 100°F (4.4°C to 37°C)

Chemical Requirements: Follow all directions on Dakota Wash HD Labels and Safety Data Sheets (SDS).

Acceptable Products:

- Dakota Wash HD Concentrate
Part No. 99223
- Dakota Wash RTU
Part No. 99227



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Installation Instructions:

1. Remove all components from packaging.
2. Select desired area to mount the control box. We recommend mounting the control box approximately 52 inches off the ground. The chemical suction line must reach the bottom of the chemical container. The bottom of the chemical container should not be positioned higher than the bottom of the control box.
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. Mount the hose hanger (SSHH-F) in a convenient location using the remaining two screws and anchors provided in the parts package.
6. Attach the discharge hose assembly (H34-50/H34-50-AP) to the discharge hose barb (HBSS1234/HB1234) and secure it with the larger hose clamp provided in the parts package.
7. Connect the air inlet hose barb (HBSS1438) provided in the parts package to the air inlet valve (BVB14) located on the side 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.

Operation Instructions:

1. Follow all directions on the Dakota Wash HD Concentrate label and dilute accordingly. Place the chemical suction line into a drum of pre-mixed Dakota Wash HD Ready-To-Use.
2. With the discharge ball valve (HV60) in the closed position, open the air inlet valve (BVB14).
3. Slowly open the discharge ball valve (HV60) to begin foaming. The discharge ball valve (HV60) should be completely open while foaming.
4. Check for proper air pressure on the air gauge (AG100). Ensure the air regulator (R25) is set to 80 psi (5 bar), or "high green, just below red-line."
5. While the unit is running and discharging product, adjust the needle valve (NV14Y), located inside the control box, as needed to regulate the wetness or dryness of the foam following the steps below:
 - a. Close needle valve (NV14Y) completely in clockwise direction.
 - b. Open needle valve (NV14Y) in counter-clockwise direction 3 complete turns.
 - c. Continue to open needle valve in ¼ turn increments, allowing 30 seconds between adjustments, until desired foam consistency, similar to that of shaving cream, has been achieved.

After Use Instructions:

We recommend depressurizing the unit after each use.

1. Shut off the air supply to the unit by closing the air inlet valve (BVB14).
2. Open the discharge ball valve (HV60) to relieve any pressure remaining in the unit.
3. Close the discharge ball valve (HV60) after all pressure has been relieved from the unit. Store the unit with the discharge ball valve (HV60) 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 disconnected from the air supply and depressurized according to the "After Use Instructions" above.

- After 2 weeks of use, or earlier, change out the check valve (CV38) with the included gray check valve.
- Inspect the pump (P56) for wear and leaks.
- Inspect all hoses for leaks or excessive wear. Make sure all hose clamps are in good condition and properly secured.
- Replace the filter (AFR25) located within the air regulator (R25) as needed. Clean by unthreading the air regulator bowl (ABR25) from the air regulator (R25).
- Check the chemical suction line and strainer for debris and clean as needed.
- Drain your air compressor tank on a regular basis to help extend pump life. An air source with a high moisture content will accelerate pump wear. Note: If your air source has a high moisture content, you may wish to install a water separator before the unit.



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Troubleshooting Instructions:

- If the foam is not discharging or is sputtering, switch out the check valve (CV38) with the included gray check valve. This should be done after 2 weeks of continued use or earlier.
- Check to ensure that the discharge hose is uncoiled properly, and that there are no kinks that could obstruct fluid flow.
- Check the air regulator bowl (ABR25) and air filter (AFR25) for debris such as water, oil, or rust particles. Clean by unthreading the air regulator bowl (ABR25) from the air regulator (R25).
- If the needle valve (NV14Y) is open too far, the pump (P56) may cycle improperly due to lack of air pressure. If this occurs, close and readjust the needle valve (NV14Y) as described in Operation Instruction #5. Pump noise should be consistent if the settings are correct and the foam is near the consistency of shaving cream.
- Make sure proper foaming chemical and concentration are being used.
- If air passes through the pump (P56) without cycling, the pump needs to be replaced.
- If solution backs up into the air regulator bowl (ABR25), the check valve (CV38) needs to be replaced.
- If foam comes out wet, no matter where the needle valve (NV14Y) is positioned, the check valve (CV38) may need to be replaced.
- Check for proper air pressure on the air gauge (AG100). The air regulator (R25) is factory set at 50 psi (3.4 bar), this should be manually set around 80 psi (5 bar) or "high green, just below red-line" on the air gauge. Operating range is 40 to 80 psi (3 to 5 bar) with 5 to 10 CFM (141.64 to 283.30 l/min).
- If the unit operates at a reduced pressure:
 - Check the air compressor supplying the unit. If the pressure is less than 40 psi, turn the unit off until the compressor can catch up.
 - Check the air gauge (AG100), it should read near 80 psi (5 bar). If the air gauge reads more or less than 80 psi (5 bar), adjust the pressure by turning the knob on the top of the air regulator (R25).
- Check the chemical suction line and strainer for debris or damage. Clean or replace as needed. To prevent damage to the unit, the strainer (STR14/FV2) must always be used.
- **If you feel you are going through too much product too quickly, it is likely that you are and the foam is too wet. To correct this, adjust the needle valve (NV14Y) in the control box as described in Operation Instruction #5 to obtain the desired consistency.**

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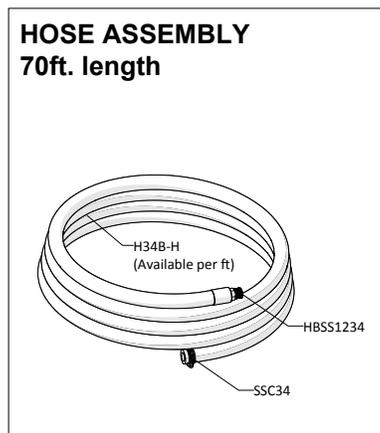
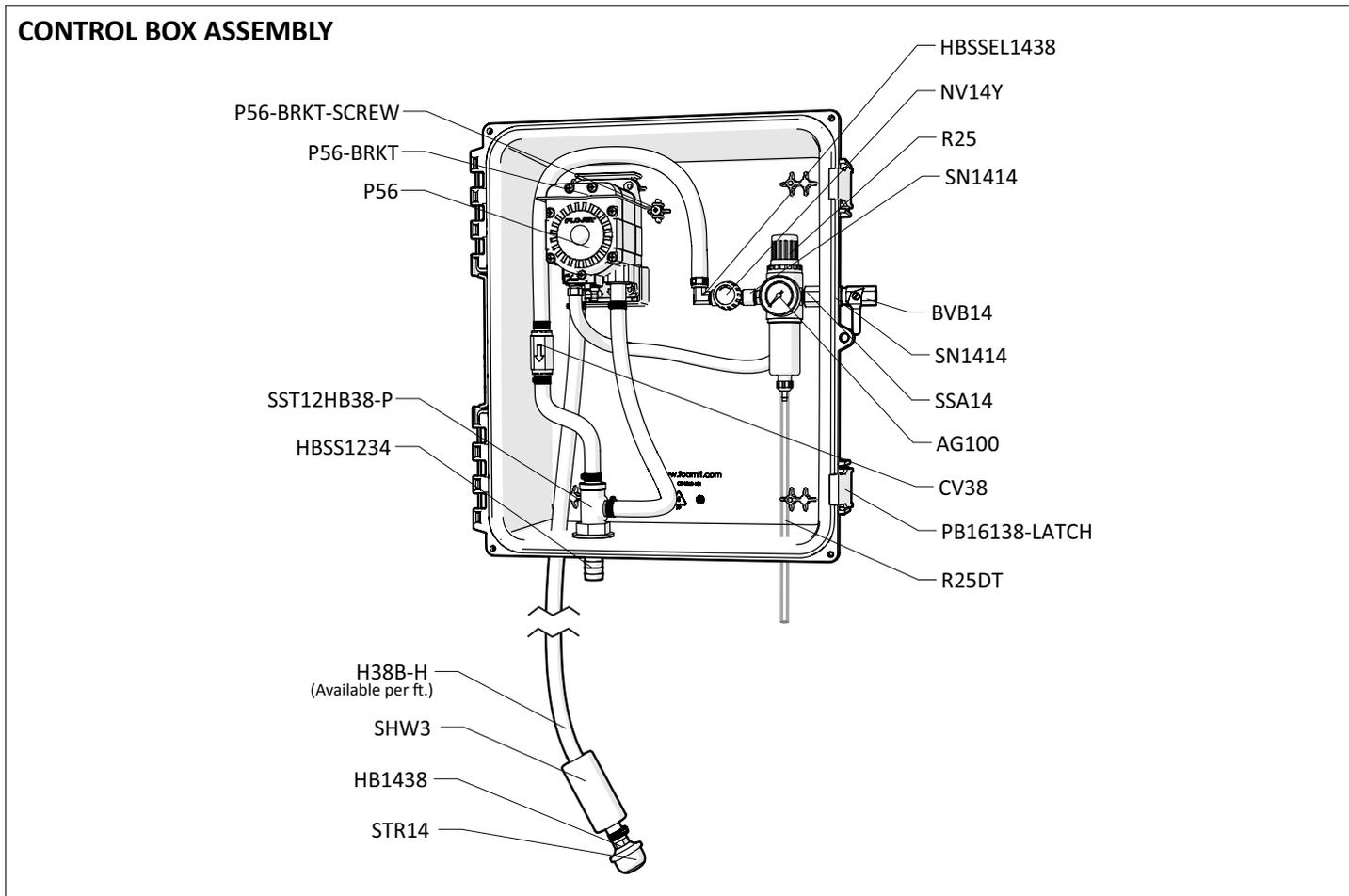


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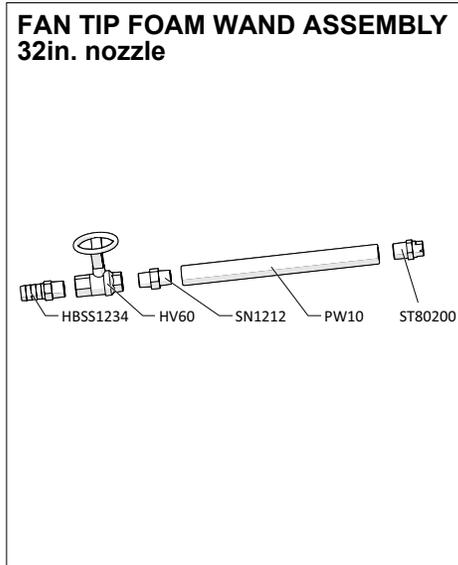
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PARTS DIAGRAMS - UNITS WITH STANDARD FITTINGS



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ITEM NUMBER	DESCRIPTION
AG100	1.5 INCH DRY MODEL 20 DUAL SCALE GAUGE
BVB14	AIR INLET VALVE - VA BRS 025-4F4F-BT, NICKEL
CV38	PVC CHECK VALVE 3/8 BARBS - SS SPRING
EC14-2	OETIKER CLAMP 13.8
F34SS-L	SS CRIMP FERRULE 1.90inches X 1.5 inches LONG
FV2	FOOT VALVE, VITON, BLUE
FWLG14	.569 ID X 1.28 OD X .08 THICK FLAT WASHER SS 18-8
FWP12	7/8 ID X 1.5 OD X 0.05 THK SSFW
FWP78	7/8in BY .137 BY 1 1/4in FLATWASHER 18-8 PLN
H14B-H	1/4 INCH BLUE HOSE - GOODYEAR HORIZON - Available per ft.
H34B-H	3/4 INCH BLUE GOODYEAR HORIZON HOSE - Available per ft.
H38B-H	3/8 INCH BLUE GOODYEAR HORIZON HOSE - Available per ft.
HB1234	1/2in MPT X 3/4in HOSE BARB
HB1238	1/2in MPT X 3/8in HOSE BARB
HB1438	1/4in MPT X 3/8in HOSE BARB (PLASTIC)
HB3434	POLY HOSE BARB 3/4in X 3/4in
HBSS1234	STAINLESS HOSE BARB 1/2 X 3/4
HBSS1438	STAINLESS HOSE BARB 1/4 MPT X 3/8 BARB
HBSSSEL1438	STAINLESS HOSE BARB ELBOW 1/4 INCH NPT X 3/8 HOSE BARB
HBSSSEL1814	304 STAINLESS ELBOW 1/8 INCH NPT X 1/4 INCH HOSE BARB
HHPB1214	HEX HEAD POLY REDUCER BUSHING 1/2in X 1/4in
HHSB1238	HEX HEAD S.S. REDUCER BUSHING 1/2in X 3/8
HV34	3/4in POLY BALL VALVE
HV60	1/2in STAINLESS BALL VALVE - w/ WELDED NUT
NV14Y	FLOW CONTROL VALVE - INCLUDES BLACK KNOB
NV14Y-HNDL	KNOB FOR 2839-1/4 NEEDLE VALVE
P56	5700 PUMP WITH SANTOPRENE SEALS - INCLUDES HOSE BARBS, AIR FITTING, AND AIR PORT
P56K	5700 PUMP WITH KALREZ SEALS - INCLUDES HOSE BARBS
P56V	5700 PUMP WITH VITON SEALS - INCLUDES HOSE BARBS
20756103B	Polypro G57 Air Port x HB Straight, w/ Viton o-ring
HB14P	1/4in BRASS HB AIR FITTING /G57/P56
HB5638	HOSE BARB FOR P56 PUMP
HB5638K	HOSE BARB FOR P56K PUMP
HB5638V	HOSE BARB FOR P56V PUMP
P56-BRKT	PUMP BRACKET- STAINLESS STEEL
P56-BRKT-SCREW	HI LO SCREW FOR RETAINING P56-BRKT
PB16138	POLYPROPYLENE CONTROL BOX - WORKING DIMS 16x13x8 - PUMP MOUNT

PB16138-GSKT	NEOPRENE GASKET 0.220 INCH ROUND CORD STOCK - 61.125 INCHES
PB16138-LATCH	LATCH FOR PB16138
PB16138-PIN	STAINLESS STEEL HINGE PIN FOR CONTROL BOX PB16138 - 1/8 x 4 3/4 x 1/2inches
PBFT-PP	MOUNTING FEET FOR POLYBOX - PB16138 - POLYPROPYLENE
PL16138	CONTROL BOX LID - POLYPROPYLENE - 16x13x8 - HINGED LOCKABLE LID
PW10	3/4in BLACK POLY PRO X 10in - FPTBE - SCH.80
PW10AP	3/4in BLACK POLY PRO X 10in - FPTOE & MPTOE - SCH.80
R25	AIR REGULATOR - 1/4ft TWO PORT 1/8ft TWO PORT - INCLUDES FILTER AND BOWL
AFR25	AIR FILTER for R25
ABR25	METAL AIR BOWL for R25
R25DT	CLEAR TUBING FOR R25 DRAIN
S1034FHL	10 X 3/4 PHIL FLAT HI-LO THRD SCREW 18-8
SHW3	3in LONG COATED WEIGHT
SN1212	1/2in HEX STAINLESS STEEL NIPPLE
SN1414	STAINLESS 1/4MPT X 1/4MPT NIPPLE
SSA14	SS304 MALE/FEMALE ADAPTOR 1/4 NPT X 1/4 NPT
SSC34	WORM GEAR CLAMP, S/S (.75-1.25)
SSC38	WORM GEAR CLAMP, S/S (.25-.63)
SSHH-F	S.S. LASER CUT HOSE HANGER - FLAT STOCK
SST12HB38-P	STAINLESS TEE COMBO 1/2in FPT X 3/8 in BARB
ST80200	VEEJET NOZZLE, 80200
STR14	40 MESH SUCTION LINE STRAINER 1/4 MNPT
T5	1/2 POLY TEE
W387	S.S. 304 SPRAY WAND 3/8in MPT X 7in LONG - THREAD ON ONE END
WMS14	14 X 1 1/4 HEX W/H SMS SLOTT, S/S
WMS14A	5/16 X 1 1/2 STRAIGHT PLASTIC ANCHOR
WS-20CFM	TSUNAMI WATER SEPARATOR 20 CFM



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