RESIDENTIAL DUCT

HSA EQUIPMENT SETUP AND MAINTENANCE

2025

Technical Data Sheet
HomeSeal Advance

SECTION 1: Product Details

Product Name HomeSeal Advance

Description Patented Aeroseal duct sealing system with built in wireless and GSM modules suitable for residential applications. The unitary system includes "Aerosuite" software that controls the machine and provides a user-friendly interface for monitoring sealing process, measuring PreSeal and PostSeal leakages, and printing certificates.

User Interface Laptop with Aerosuite Software

SECTION 2: Product Specifications

Power Requirements	3 X 120V/15A – HSA Core System
Power	3300W (three separate circuits required)
Communication	USB, Wifi, GSM
Wifi range	200 ft. *Wifi range is dependent on ambient weather conditions, home construction materials*
Operating temperature	40 °F to 140 °F
Storage temperature	Above 32 °F
Weight	75 lbs.
Dimensions	27" (l) x 20.5" (w) x 18" (h) 5.77 ft^3
Frequency	60 Hz

aeroseal DUCT

Sealing range	Up to 1600 CFM_{25} (Pduct > 10 Pa)
Measurement range	15 to 1600 CFM_{25} (+/- 5% Accuracy)
Fan capacity	600 CFM
Add-on fan capacity	N/A
Fan static (max)	660 Pa
Sealant injection	Dual speed pump (0-48 ccm/58 ccm depending on operating conditions)

SECTION 3: Other Utilities / Accessories Needed for Aeroseal Process

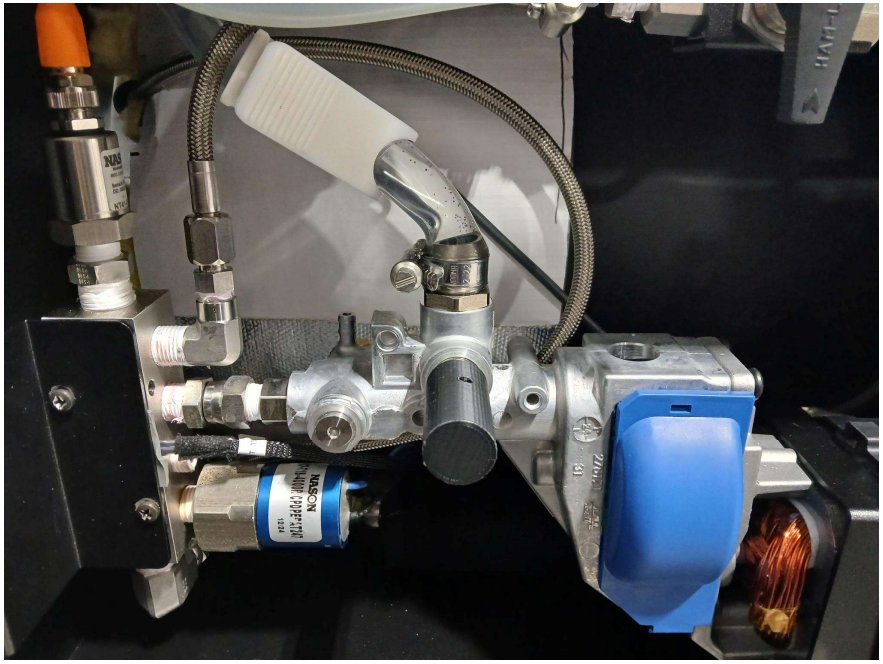
	MINUMUM REQUIREMENTS
Generator (optional)	6500W (for operating machine and accessories)
Air scrubber	> MERV 13 filtration (3 - 10 micron particles) capability 1 x 120V/10A; 1200W power requirements

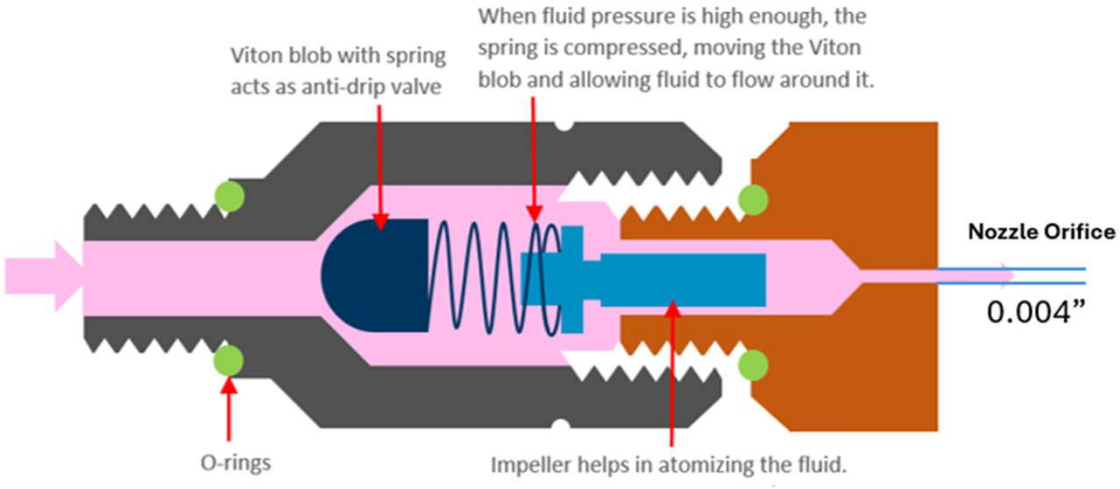
2025-AR-HSADataSheet

225 Byers Road, Miamisburg, OH 45342 aeroseal.com

HSA - AEROSOLIZING SEALANT

PUMP PRODUCES HIGH PRESSURE SEALANT TO THE NOZZLE @ **2750 – 3250 PSI**

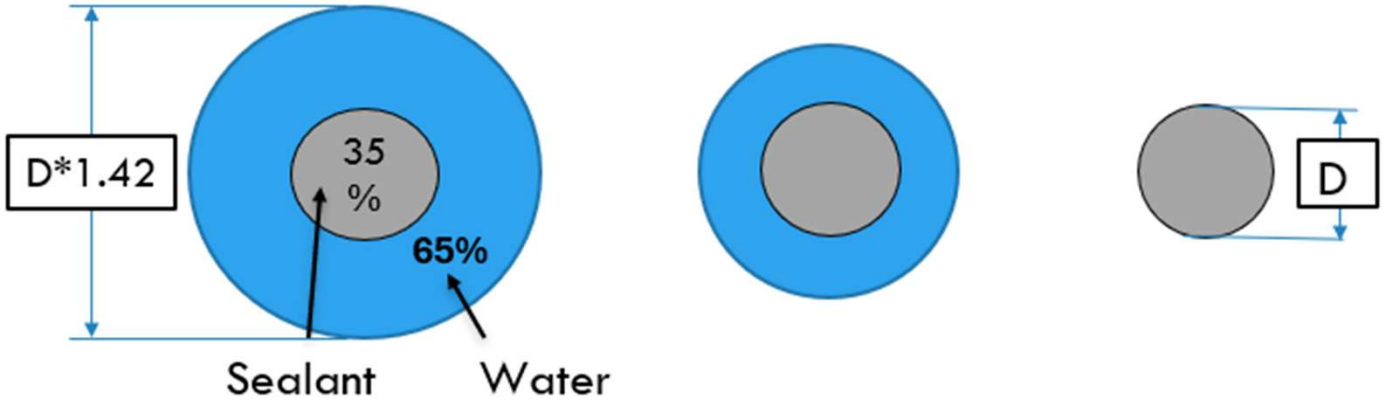


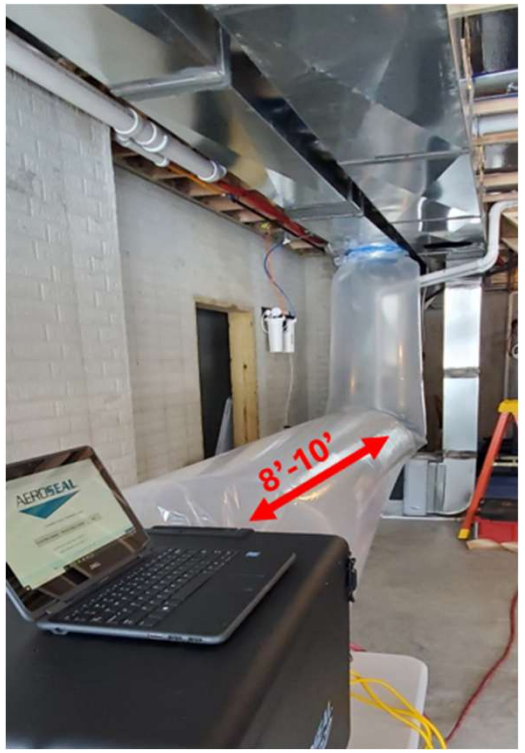


*HUMAN HAIR DIAMETER:
0.0006” – 0.007”

EVAPORATING AIRBORNE SEALANT

AEROSEAL SEALANT IS **MOSTLY WATER**.
THE SEALANT LEAVES THE NOZZLE AS A **DROPLET**
THE HEATED AIR INSIDE THE LAYFLAT IS NECESSARY TO **EVAPORATE**
THE WATER AWAY AND TURN THEM INTO USABLE **SEALANT PARTICLES**





SAFETY

- **Operation of this equipment can be hazardous due to mechanical and electrical components. Only trained personnel should operate and service this equipment.**

- **When working on this equipment, observe precautions in the Operations Manual, on tags, and on labels attached to or shipped with the equipment and other safety precautions that may apply. Follow all safety instructions.**

- **Follow all local and national codes.**

ACCESSORIES AND SUPPLIES

ACCESSORY PACKAGES

		HomeSeal Advance Basic Duct Sealing Package	HomeSeal Advance Standard Duct Sealing Package	HomeSeal Advance Fleet Add-On Duct Sealing Package	HSA - Lease System with Basic Supplies
	Part Number	**FR00177**	**FR00176**	**FR00178**	**FR00179**
FR00165	HSA Core System	Y	Y	Y	LX00179
FR00167	HSA Required Accessories	Y	Y	Y	Y
FR00168	HS Basic Supplies Kit	Y	N	N	Y
FS00156	Duct Seal LT (4 Gallons)	Y	N	N	Y
TBD	HS Advanced Supplies Kit	N	Y	N	N
TBD	Duct Seal LT (20 Gallons)	N	Y	N	N
FR00101	Wye Kit - 10" Clamp and Flange	N	Y	N	N
	Technical Training	Y	Y	N	Y
	Kickstart Training	Y	Y	N	Y

SUPPLY KITS

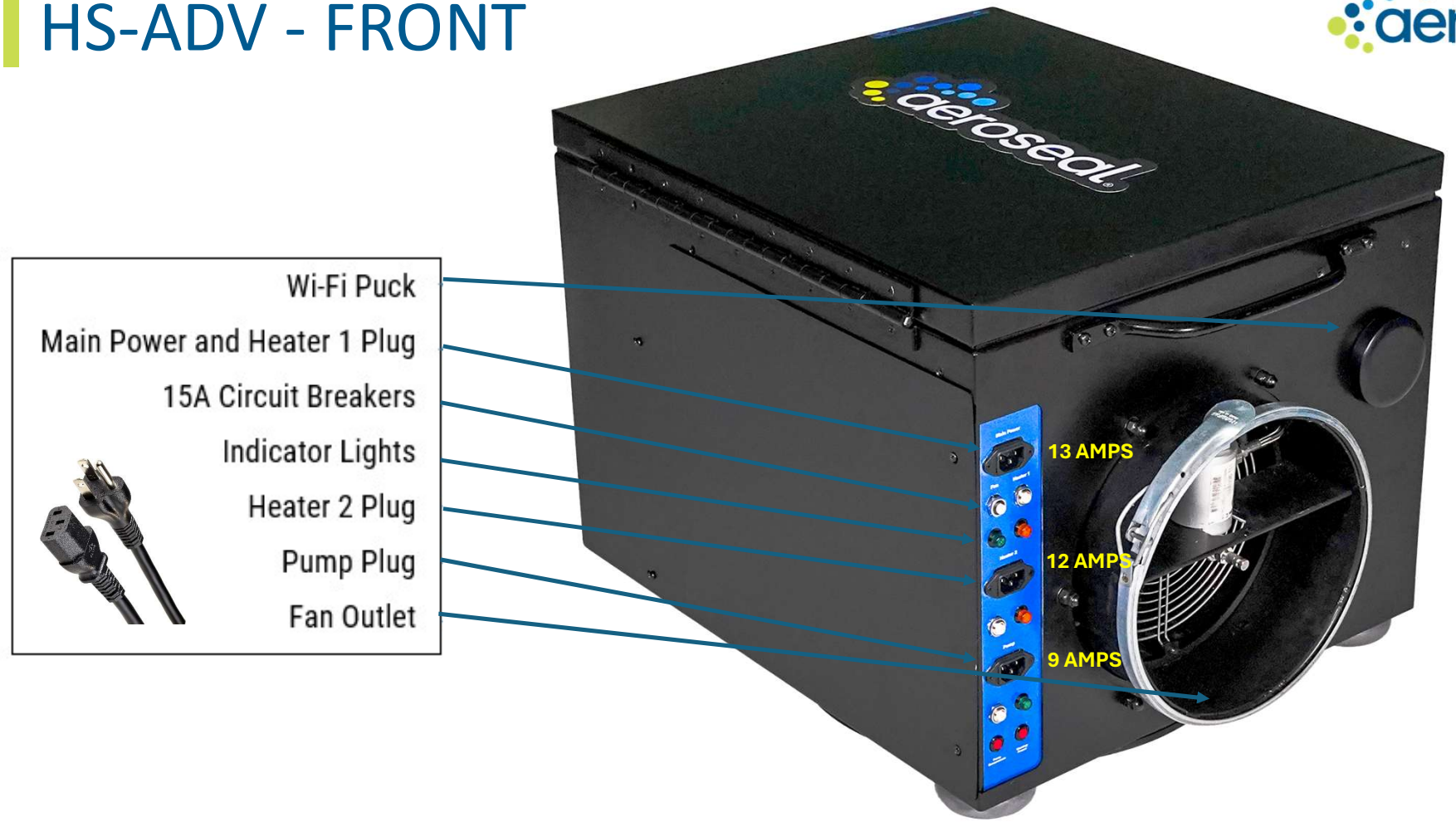
SUPPLY KIT COMPARISON			
		Basic Supply Kit	Upgraded Supply Kit
FS00108	ALL PURPOSE CLEANER (12 QUART SP	1	1
FS00114	LAYFLAT TUBING 36" 275'/ROLL	1	2
FS00105	BLUE DUCT MASK	18	24
FS00160	Corrugated Plastic	3	6
FS00107	FOAM, CLOSED CELL	8	8
CS00115	LIQUID, FOG JUICE	1	1
LP00141	FOG MACHINE	1	1

PARTS KIT- CONTENTS

HS-ADV EXTERIOR FEATURES

1. NOZZLE CONNECTION POINT
2. AIR OUTLET / LAYFLAT CONNECTION POINT
3. CARRYING HANDLES
4. POWER CONNECTIONS

HS-ADV - FRONT


Wi-Fi Puck
Main Power and Heater 1 Plug
15A Circuit Breakers
Indicator Lights
Heater 2 Plug
Pump Plug
Fan Outlet
13 AMPS
12 AMPS
9 AMPS

EASILY FIND POWER NEEDED FOR YOUR EQUIPMENT

Generac GP6500 Portable Generator 7680

An alternative In-Home Solution Is to use Electric dryer or Stove outlet for fan box heaters

HS-ADV - REAR

USB Plug

Ambient Pressure Port

Reference Pressure Port

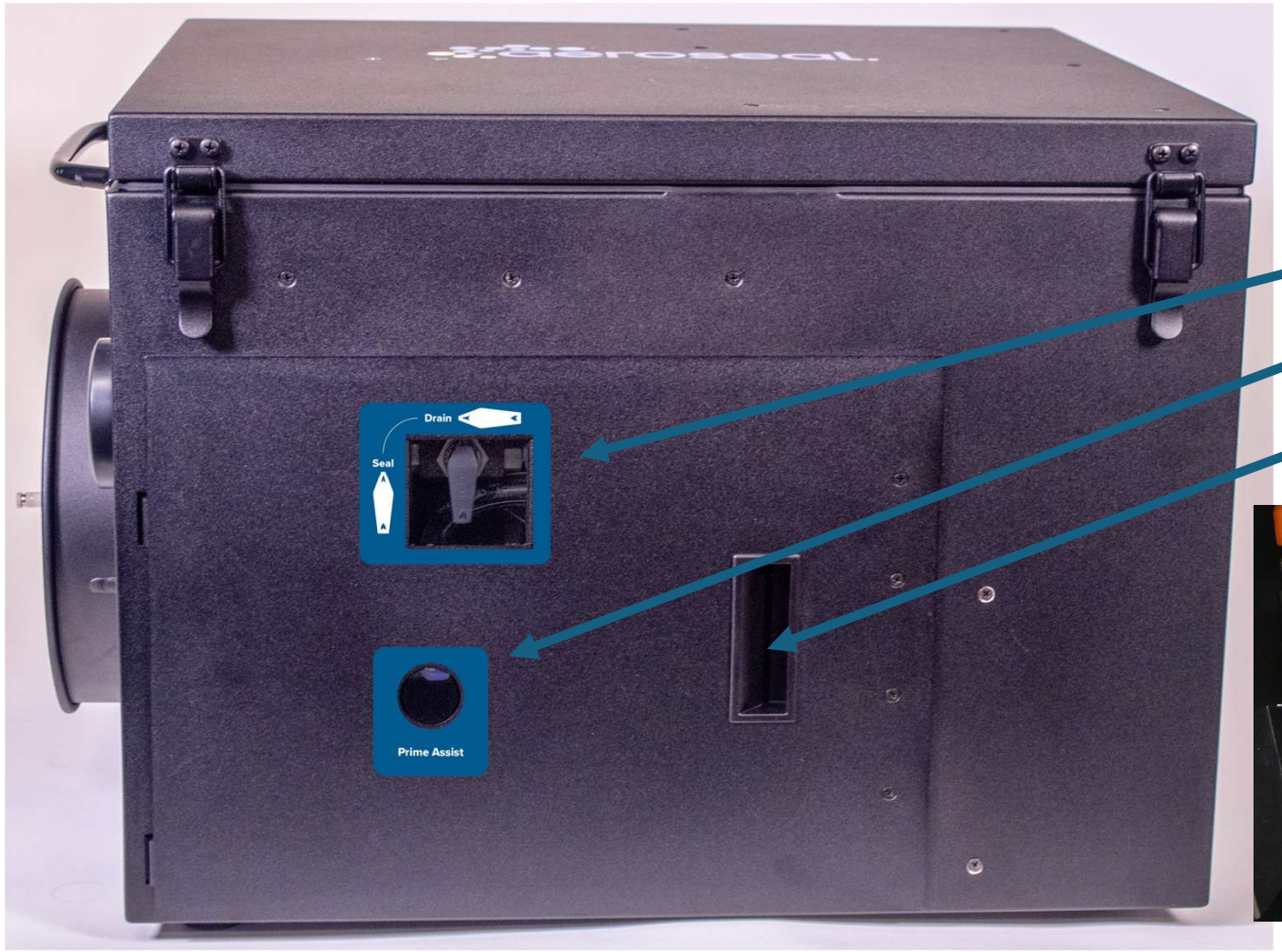
Duct Pressure Port

Gate Movement Indicator Light

Automatic Gate

HS-ADV., Rear

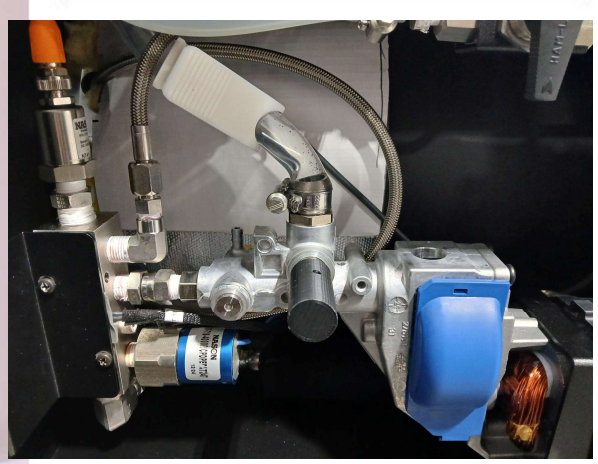
HS-ADV – PUMP SIDE OF BOX



Pressure Drain Knob

Prime Assist Button

Pump Access Door



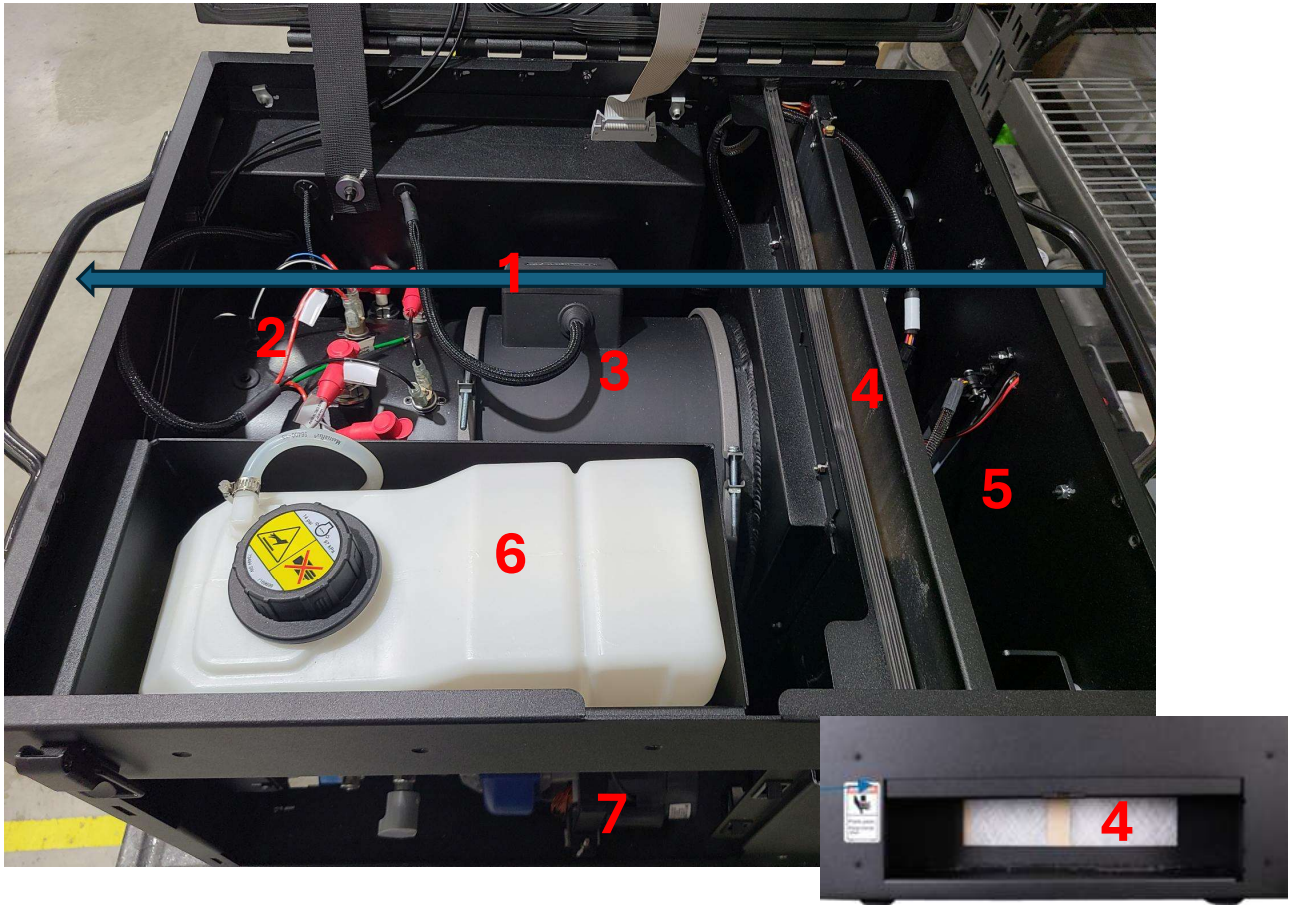
HS-ADV – ELECTRONICS BAY

HS-ADV., Electronics Side

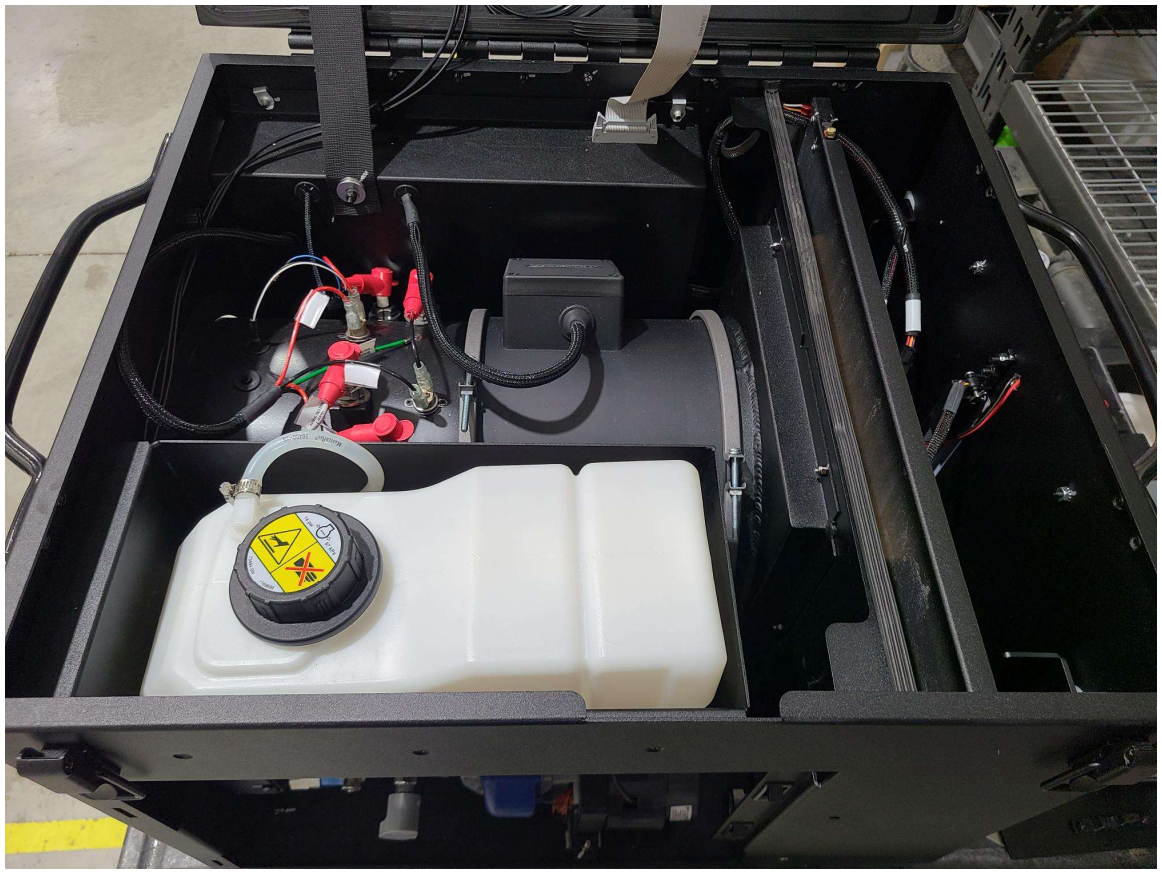
ACCESS ONLY WITH SPECIFIC INSTRUCTIONS FROM TECHNICAL SUPPORT

HS-ADV - INTERIOR

1. AIRFLOW DIRECTION
2. HEATER CYLINDER
3. FAN
4. 10X10 FILTER RACK
   - (MERV 1 FILTERS - ONLY)
5. AUTO-INLET GATE
6. SEALANT RESERVOIR
7. DETACHABLE PUMP PANEL



HS-ADV – FILLING THE RESERVOIR



HS-ADV – NOZZLE ATTACHMENT

Remove the attached nozzle/nozzle plug and attach a new nozzle to the adapter by using the nozzle tool

Tighten both the body and head.

HS-ADV – LAYFLAT ATTACHMENT

Connect one end of 36” layflat to the fan box ring. Engage the 10” clamp and **insert the retainer pin**. Connect the other end of the layflat to the injection point flange.

HSA – MAINTENANCE

IMPORTANT: The HS-ADV. must not be stored in freezing conditions as the pump/reservoir is always filled with fluid. Allowing the pump/reservoir to freeze can crack the pump casting and void the manufacturer's warranty.

Maintenance Activities

Tasks	Frequency			Est. Labor (mins)
	EverySeal	Daily	Monthly	
Replace Nozzle Assembly	●			2
Check Air Filters		●		2
Clean Exterior of Equipment with Buckeye Workout Cleaner			●	5
Clean & Flush Inlet Check Valve			●	20
Replace 25 Micron Filter & Clean Filter Housing			●	20
Laptop: AeroSuite Sync & Update			●	5
Laptop: Complete Windows Update			●	10

If assistance is required, please contact Technical Support at 1-800-772-6459

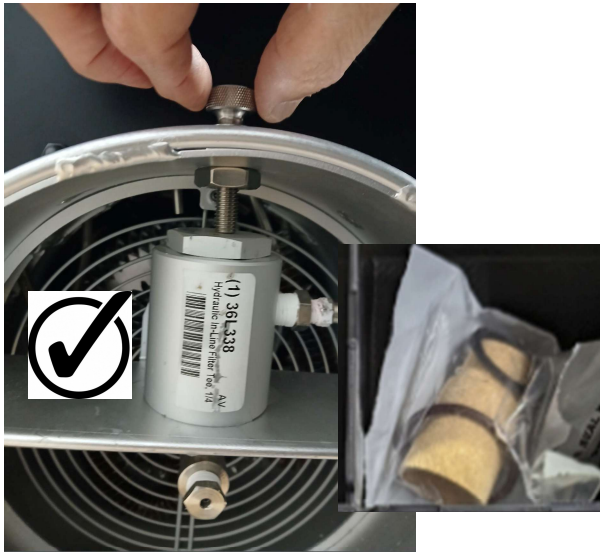
HSA – GENERAL CLEANING INSTRUCTIONS

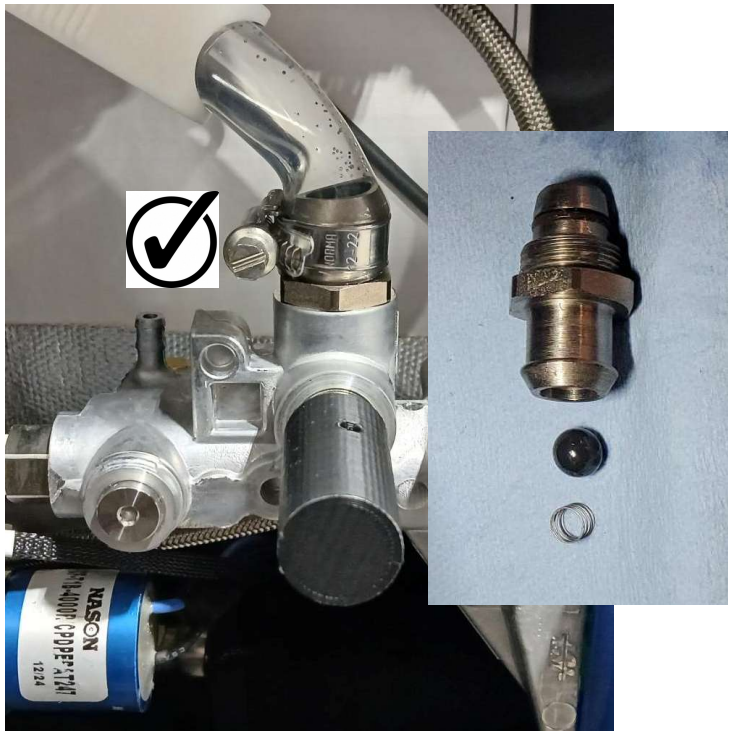
At least every month:

Inlet Check Valve and 25 µm Filter

must be cleaned and maintained to ensure no sealant accumulates.

This will include fully flushing the system with clean water.



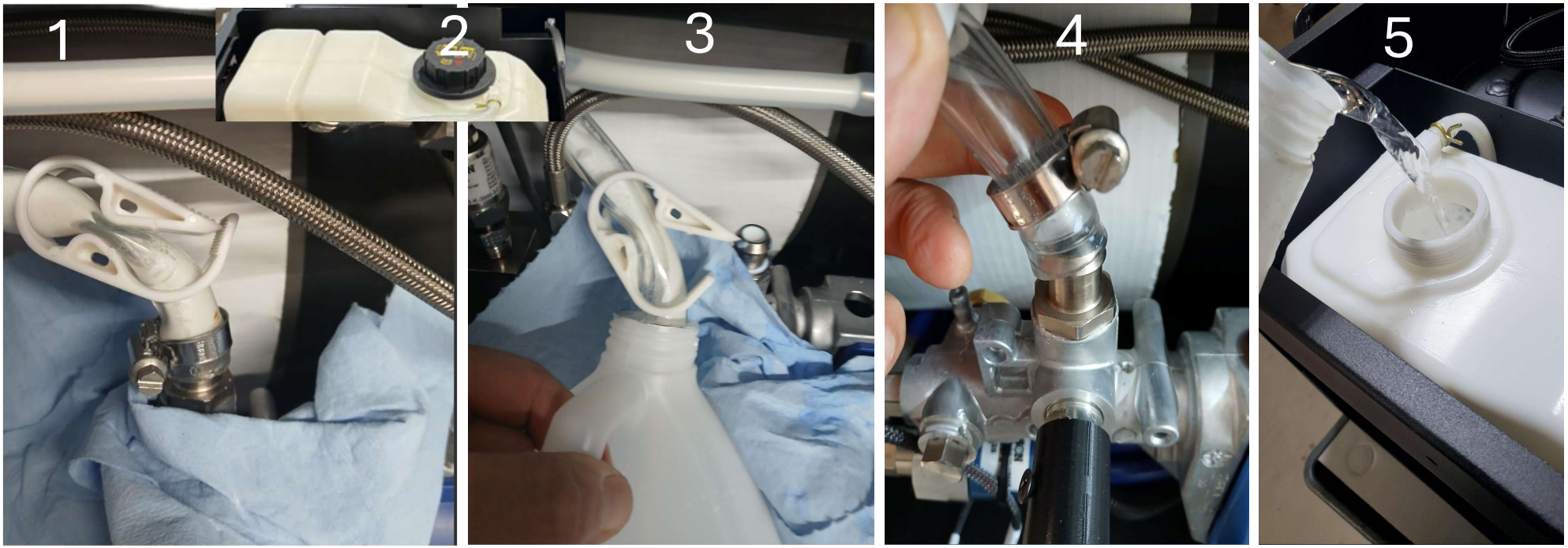


MAINTENANCE PREP

- **PARTS KIT** INCLUDES TOOLS AND REPLACEMENT PARTS
- PLUG IN THE **MAIN** AND THE **PUMP** CORDS
- **WATER** SOURCE AVAILABLE
- WASTE **BUCKET AND TOWELS**

RECAPTURE SEALANT

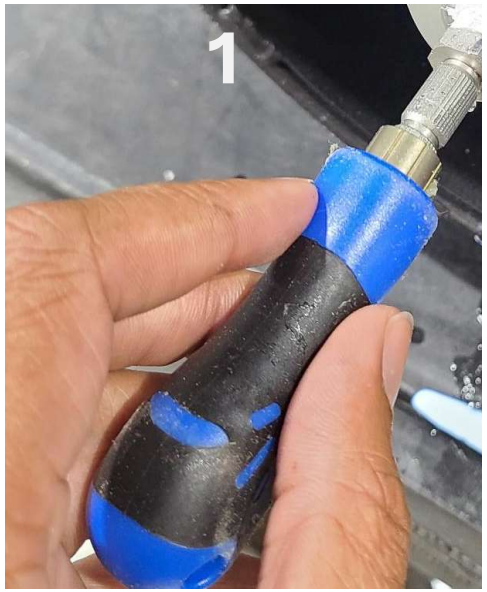
1. **CLOSE WHITE CLAMP** ON SEALANT HOSE, LOOSEN CLAMP AND **REMOVE HOSE**
2. **REMOVE CAP** ON RESERVOIR
3. **PLACE A SEALANT JUG** UNDER THE HOSE TO CAPTURE LEFTOVER SEALANT
4. **REATTACH HOSE** AND CLAMP REOPEN WHITE CLIP
5. **REFILL** RESERVOIR WITH **WATER**



REMOVE NOZZLE HOUSING

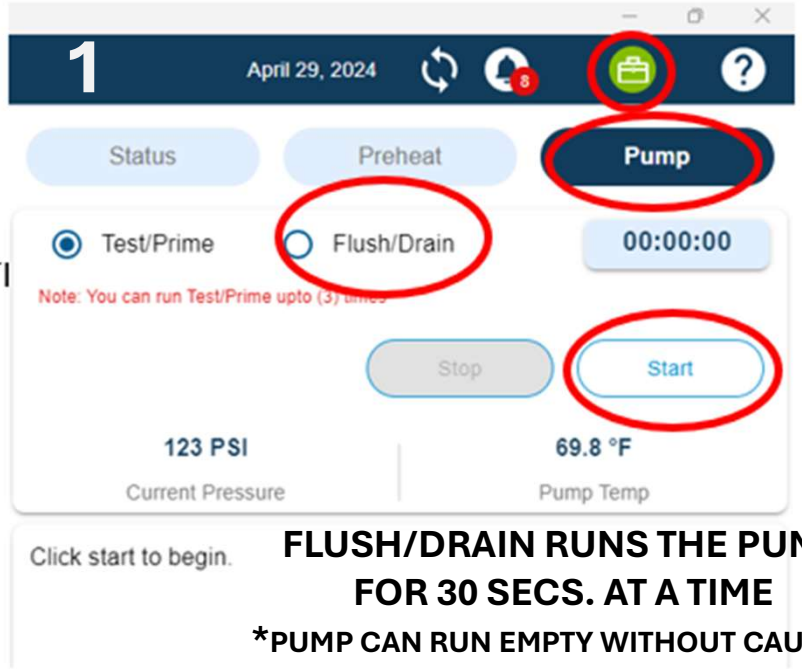
1. **REMOVE NOZZLE**
2. **LOOSEN** SET SCREW
3. **LIFT OUT** FILTER HOUSING WITH UPWARD-AND-FORWARD MOTION

Do Not remove braided tubing from filter housing



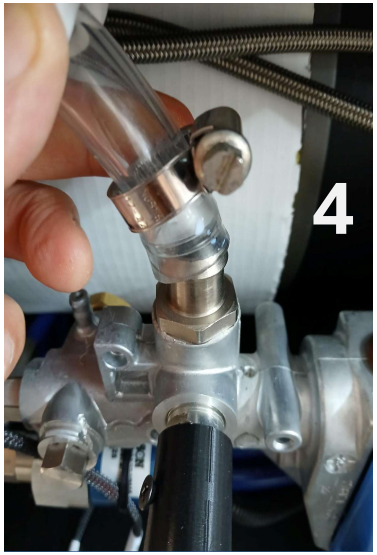
FLUSH PUMP

1. **OPEN SOFTWARE** “PUMP- FLUSH/DRAIN” FUNCTION
2. **DIRECT OUTLET** INTO A WASTE BUCKET
3. **START FLUSH** WITH CLEAN WATER UNTIL WASTE-WATER RUNS CLEAR- REPEAT AS NEC.*
4. **REMOVE** HOSE AND CLAMP



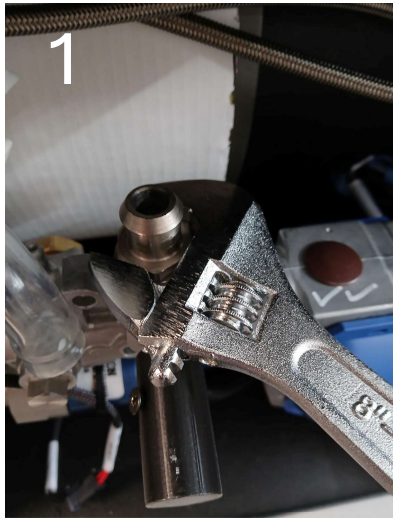
FLUSH/DRAIN RUNS THE PUMP FOR 30 SECS. AT A TIME

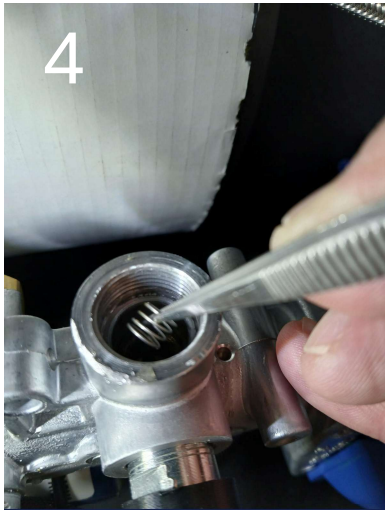
PUMP CAN RUN EMPTY WITHOUT CAUSING DAMAGE TO THE PUMP

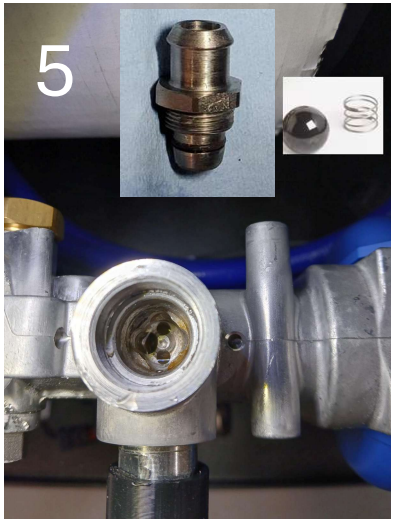


INLET BARB FITTING

1. **REMOVE INLET BARB** WITH WRENCH
2. **INSPECT O-RING** CONDITION- **REPLACE** AS NECESSARY (SPARE IN PARTS KIT)
3. **REMOVE BALL** FROM VALVE BODY USING THE 4-PRONG REMOVAL TOOL (PROVIDED)
4. **REMOVE SPRING** WITH THE TWEEZERS (PROVIDED)
5. **CLEAN BALL, SPRING, AND VALVE BODY** OF ANY SEALANT DEPOSITS

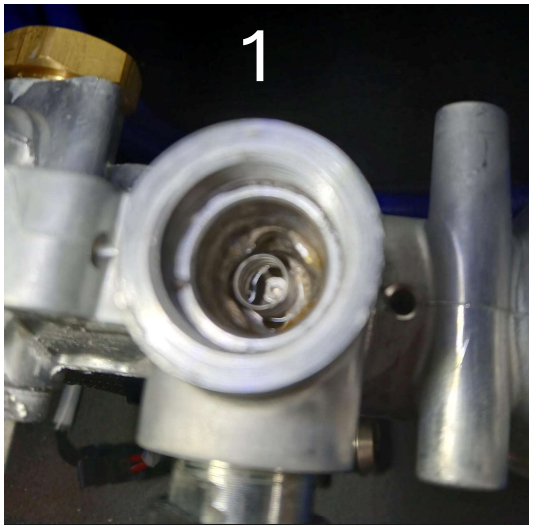


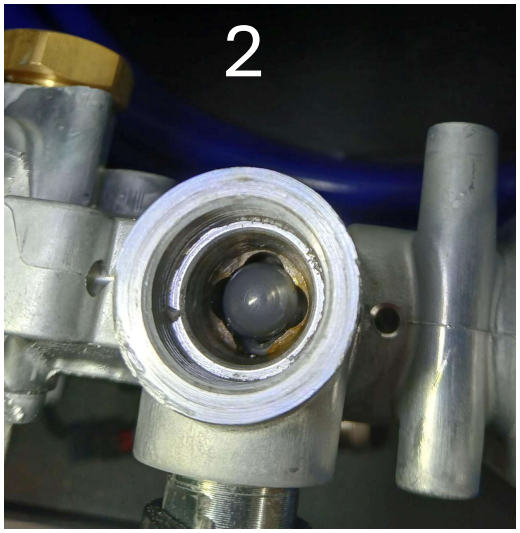


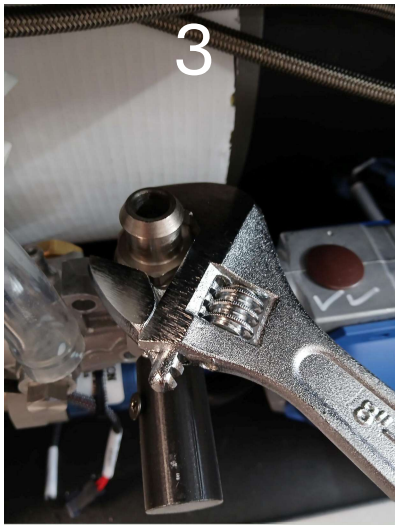


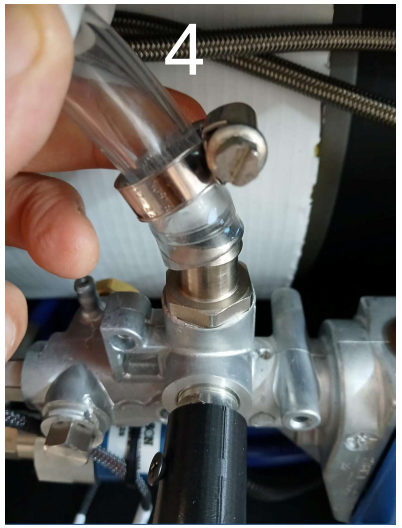
REASSEMBLE INLET VALVE

1. **PLACE SPRING** INTO THE VALVE IN THE UPRIGHT POSITION
2. **PLACE BALL** ON SPRING
3. **REPLACE BARB FITTING** – TIGHTEN WITH WRENCH
4. **RECONNECT** BARB/HOSE AND CLAMP







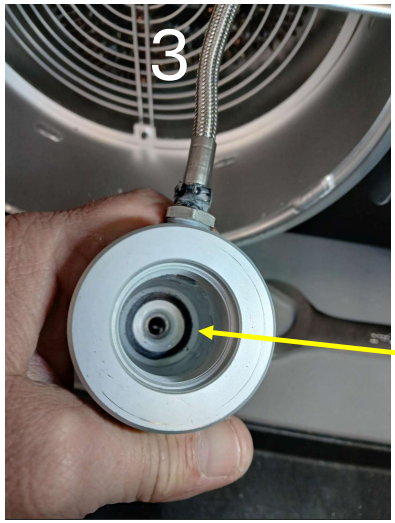


FILTER

1. **REMOVE CAP** OF FILTER HOUSING (WRENCHES PROVIDED)
2. **REMOVE FILTER** AND SPRINGS
3. **CLEAN AND FLUSH** FILTER HOUSING AND SPRINGS
4. **REPLACE FILTER** CONE AND BOTH **O-RINGS** (PROVIDED)

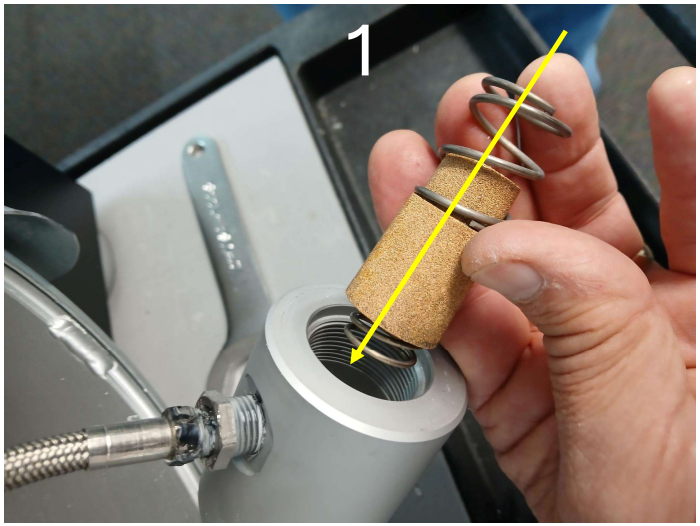
(2) 0-RINGS IN BAG.

1. FOR THE CAP
2. FOR THE BOTTOM OF FILTER HOUSING



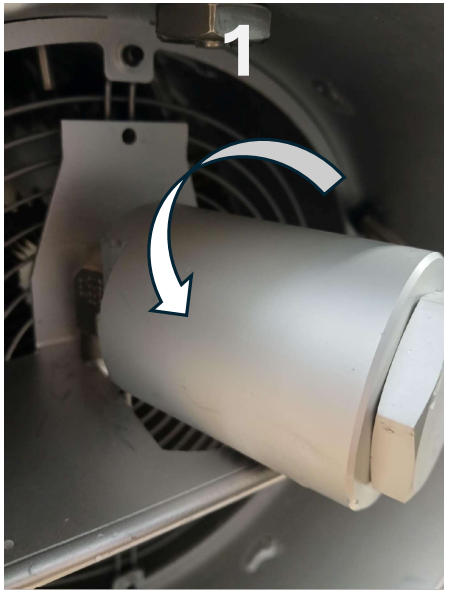
FILTER REASSEMBLY

1. **PLACE** NEW FILTER AND THE COILS INTO HOUSING AS SHOWN
2. **REPLACE CAP** WITH THE UPPER COIL INSIDE CAP RECESS
3. **ENSURE** the O-Ring is not squeezed into the gap. The O-Ring should fully seat into the indent of the housing
4. **TIGHTEN** WITH WRENCHES-cap should “bottom-out” and be flush after tightening.



FINAL STEPS

1. **PLACE FILTER HOUSING** BACK INTO THE SLOT ON THE FANBOX
2. **TIGHTEN** SET SCREW
3. **CLEAN AND LUBE** INLET GATE TRACKS AND INSPECT/REPLACE FILTER (MERV 1 ONLY)



AD-HOC MAINTENANCE

IF ANY OF THE FOLLOWING SYMTOMS OCCUR,
INDIVIDUAL ITEMS CAN BE ISOLATED AND SERVICED SEPARATELY

- USING THE PRIME ASSIST BUTTON FREQUENTLY TO FREE UP THE CHECK VALVE TO BUILD PRESSURE
  - ➢ **CLEAN-CHECK BALL VALVE**

- WEAK OR INTERMITANT SPRAY FROM NOZZLE
  - ➢ **CLEAN FILTER HOUSING AND REPLACE FILTER**

- GATE RESTRICTION ALARMS
  - ➢ **CLEAN / LUBE GATE TRACKS**