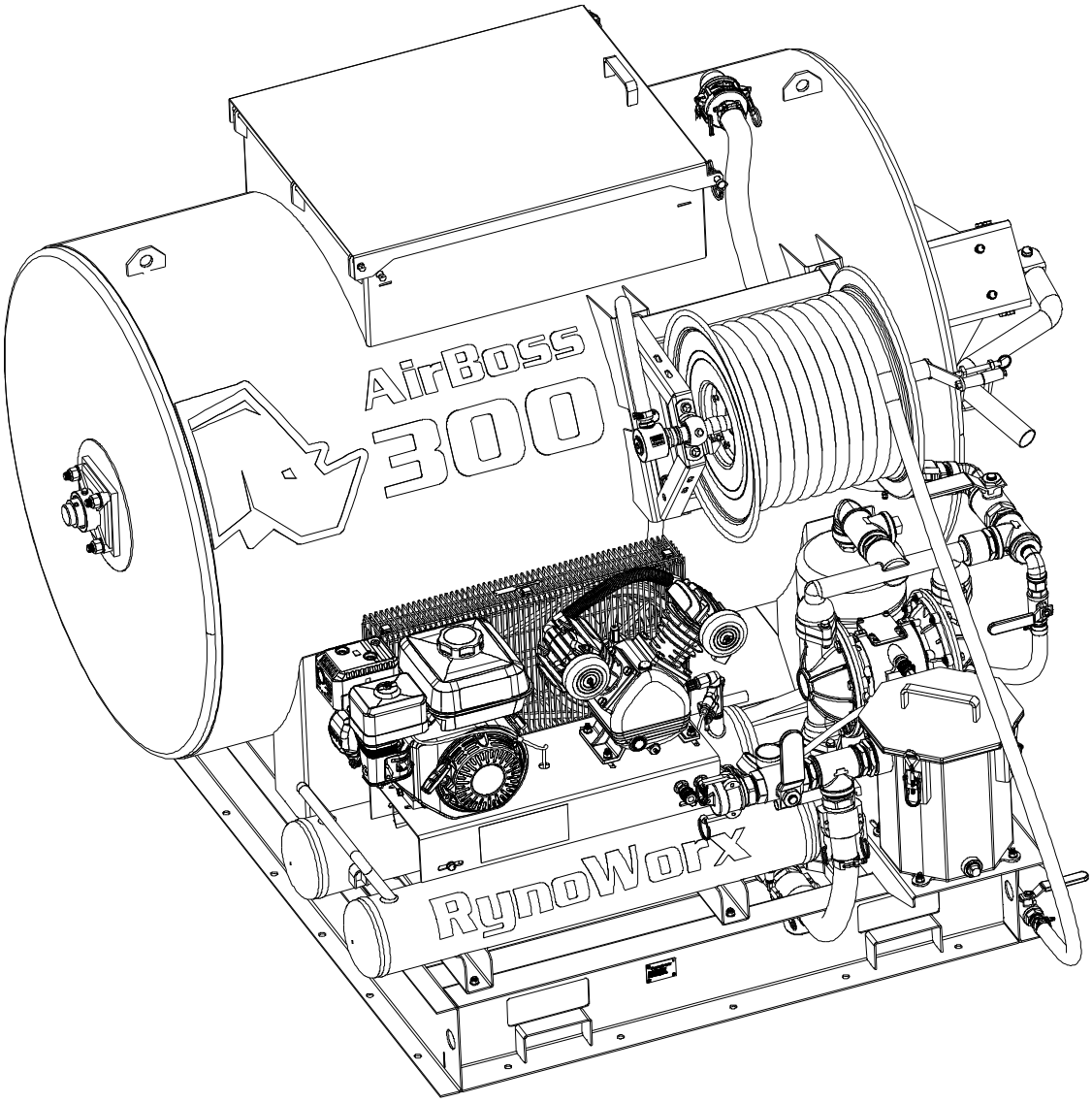
RynoWorx

AirBoss 300
Operator's Manual



RA-SSY-0025

RA-SSY-0026

*RA-SSY-0026 Pictured Above

RC-SUM-0010 - Rev 4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1 SAFETY & GENERAL INFORMATION

⚠ Warnings

⚠ Failure to follow all safety precautions can result in serious injury or death

⚠ RynoWorx Inc. assumes no liability for any accident or injury incurred through improper use of machine

⚠ CHECK ENGINE AND COMPRESSOR OIL LEVELS BEFORE FIRST USE

⚠ Read all instructions and warnings in this manual as well as the engine manufacturer's manual before operating this equipment

⚠ Verify all seals and clamps for all connections are tightened before each use of this equipment

⚠ This equipment is designed for outdoor use only

⚠ Be sure to always wear personal protective equipment when operating this equipment. Eyes, Gloves, Hearing

⚠ Carefully read all Material Safety Data Sheets (SDS) for sealer products being used before operating this equipment. Refined coal tar, and Asphalt Emulsion sealers can cause health risks if not properly handled

⚠ Only genuine replacement parts should be used for any replacements or repairs. Do not attempt to modify or alter this product in any way

⚠ Observe all caution and warning signs on machine

⚠ Do not leave unattended when running

⚠ Never point the spray wand at another person

⚠ Keep all body parts out of lid opening when the unit is running

⚠ Keep hands and arms clear while opening and closing the lid

⚠ Keep the tank lid closed during operation

⚠ Do not let any sealer freeze or dry inside the unit’s plumbing

⚠ Never enter the tank with sealer inside

⚠ Always drain the tank and let any residual sealer dry before entering the tank

⚠ Replace any hoses that show wear, fraying or splits. Be sure all joints are leak proof

⚠ Shut down and allow compressor engine to cool prior to refilling the gas tank

⚠ Never operate near an open flame or use any type of flame to unclog the plumbing

⚠ Check all operation manuals for warnings, cautions and to ensure proper maintenance procedures are followed

⚠ Always turn the gas off on the engine before transporting

⚠ Only stainless-steel thread seal tape should be used, as the parts are aluminum and stainless steel. Regular Teflon based thread seal tape will not work

Required Tools

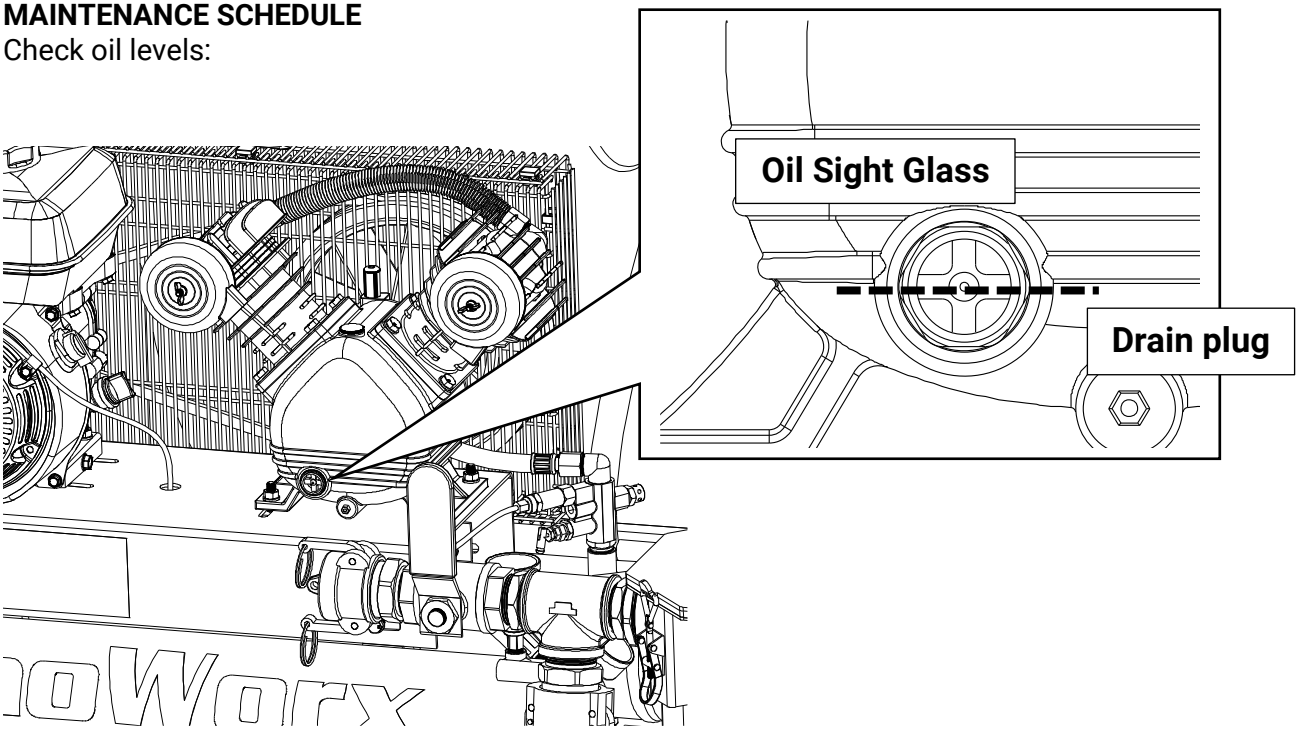
Your AirBoss spray system should arrive completely assembled. No tools are required to begin operation.

Suggested tools to have on hand:

- 12" Pipe Wrench (with 2.5" Jaw)
- Adjustable wrench (1.5” width) or Channel Lock pliers
- Ratchet set
- Allen Key Set
- Screwdriver Set
- Stainless steel thread tape
- Power Drill
- Drum or tote mixer
- 5 gallons of clean water for priming and cleaning (not including what you need to mix with your sealer)

Compressor Details

MAINTENANCE SCHEDULE
Check oil levels:



Compressor oil should be level with the red dot at the center of the sight glass shown above.

Compressor Oil Capacity: 8oz / 250ml

30 weight compressor oil (200 hours – every 2nd oil change)
Or
ISO 46 synthetic (500 hours – every 5th oil change)

Engine Details

Your AirBoss system is equipped with either an RH265 or an SH265

MAINTENANCE SCHEDULE

After first 5 Hours

● Change oil (NOT required since the system ships with full-synthetic oil)

Every 100 Hours or Annually

● Change oil.
● Clean/replace foam element.
● Replace air intake paper element.
● Clean air intake cooling areas.
● Clean spark arrestor (if equipped).
● Replace fuel filter (if equipped).

Every 300 Hours or Annually[2]

● Change oil (KOHLER PRO 10W-50 oil only).

Notes:

1. Perform these procedures more frequently under severe, dusty, dirty conditions.
2. Option only if using KOHLER® PRO oil.

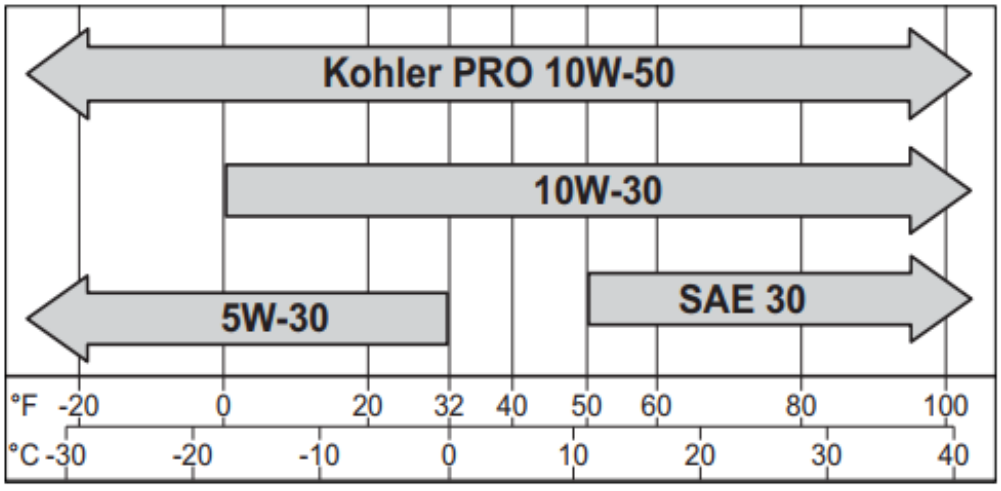
REPAIRS/SERVICE PARTS

Kohler genuine service parts can be purchased from Kohler authorized dealers. To find a local Kohler authorized dealer visit KohlerEngines.com or call 1-800-544-2444 (U.S. and Canada).

Engine Oil Capacity: 16oz / 500ml

OIL RECOMMENDATIONS

All-season KOHLER® PRO 10W-50 Synthetic Oil is the ideal oil for KOHLER engines. It is specifically formulated to extend the oil change interval to 300 Hours. Contact your Kohler authorized dealer for availability.300-Hour oil change intervals are exclusive to and only authorized on KOHLER engines that utilize the KOHLER PRO 10W-50 Synthetic Oil. Alternative engine oils may be used with KOHLER engines but require 100-Hour oil change intervals for proper maintenance. Oil must be API (American Petroleum Institute) service class SJ or higher. Select viscosity based on air temperature at time of operation as shown below.



FUEL RECOMMENDATIONS

⚠ WARNING

● Explosive Fuel can cause fires and severe burns.
● Do not fill fuel tank while engine is hot or running.

● Gasoline is extremely flammable and its vapors can explode if ignited. Store gasoline only in approved containers, in well ventilated, unoccupied buildings, away from sparks or flames. Spilled fuel could ignite if it comes in contact with hot parts or sparks from ignition. Never use gasoline as a cleaning agent.

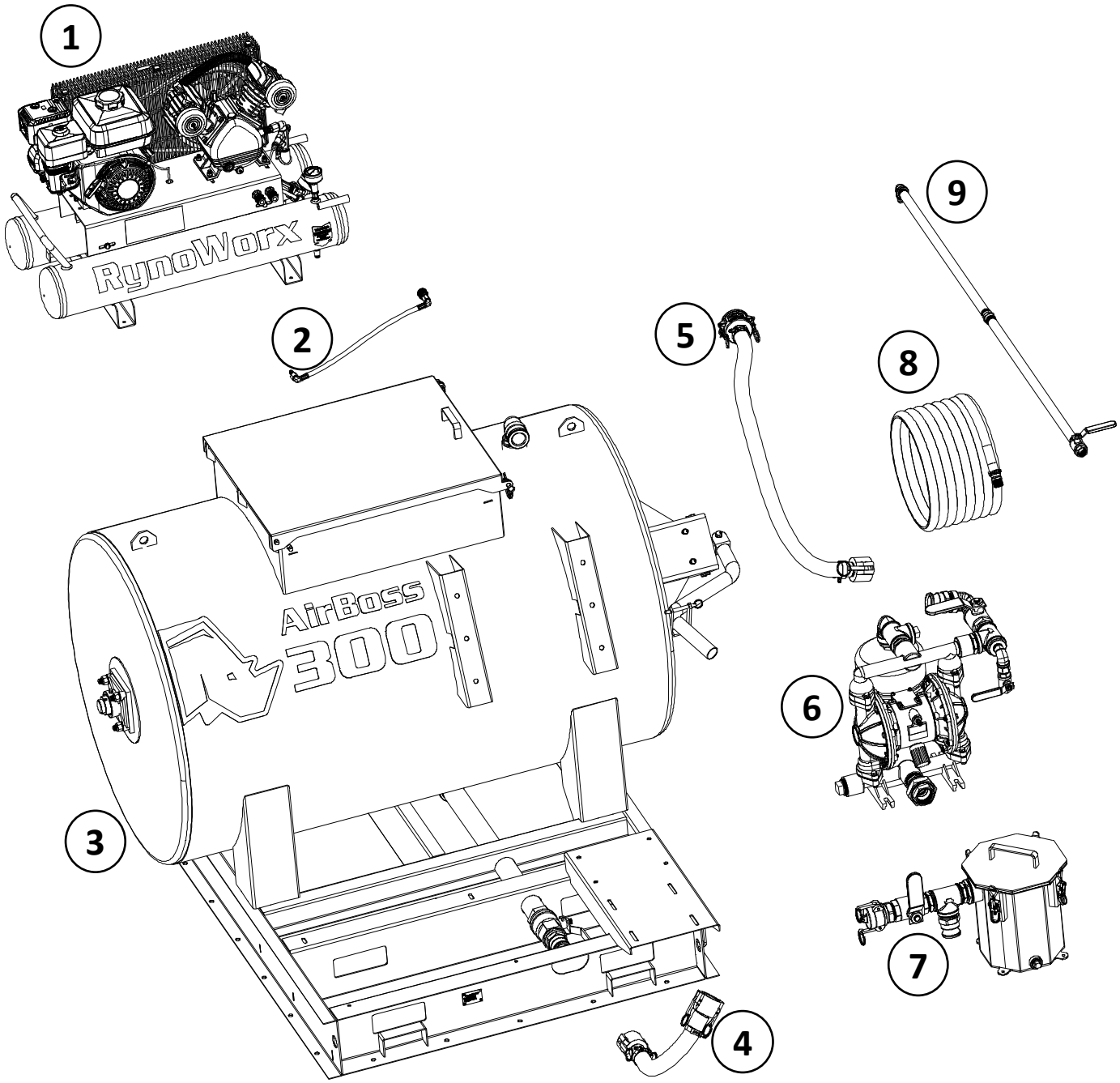
NOTE: E15, E20 and E85 are NOT approved and should NOT be used; effects of old, stale or contaminated fuel are not warrantable.
Fuel must meet these requirements:
● Clean, fresh, unleaded gasoline.
● Octane rating of 87 (R+M)/2 or higher.
● Research Octane Number (RON) 90 octane minimum.
● Gasoline up to 10% ethyl alcohol, 90% unleaded is acceptable.
● Methyl Tertiary Butyl Ether (MTBE) and unleaded gasoline blend (max 15% MTBE by volume) are approved.
● do not add oil to gasoline.
● do not overfill fuel tank.
● do not use gasoline older than 30 days.

STORAGE
If engine will be out of service for 2 months or more follow procedure below.

1. Add Kohler PRO Series fuel treatment or equivalent to fuel tank.
2. Run engine 2-3 minutes to get stabilized fuel into fuel system (failures due to untreated fuel are not warrantable).
3. Change oil while engine is still warm from operation (NOT required if using KOHLER PRO 10W-50 full-synthetic oil).
4. Remove spark plug(s).
5. Pour about 1 oz. of engine oil into cylinder(s).
6. Replace spark plug(s)
7. Crank engine slowly to distribute oil.
8. Store engine in a clean, dry place

2 PART DIAGRAMS

No	P/N	Qty	Description
1	RA-CMP-0007	1	9 Gallon Twin Tank Compressor with Kohler SH265 Engine
2	RA-HFA-0031	1	1/4" Compressor Air Hose with Quick Connect Fittings
3	RA-TNK-0014	1	300 Gallon Sealcoat Tank with Agitation Complete Assembly
4	RA-HFA-0028	1	1.5" Intake Hose Assembly
5	RA-HFA-0029	1	1.5" Return Hose Assembly
6	RA-PFA-0001	1	Pump with Fitting Assembly - 1.5" Air Op
7	RA-FIT-0101	1	3 Gallon Filter Pot Assembly with Fittings
8	RA-HFA-0027	1	3/4" x 75' Spray Hose Assembly (3/4" NPT)
9	RA-SWA-0005	1	3/4" Commercial Spray Wand - Air Op



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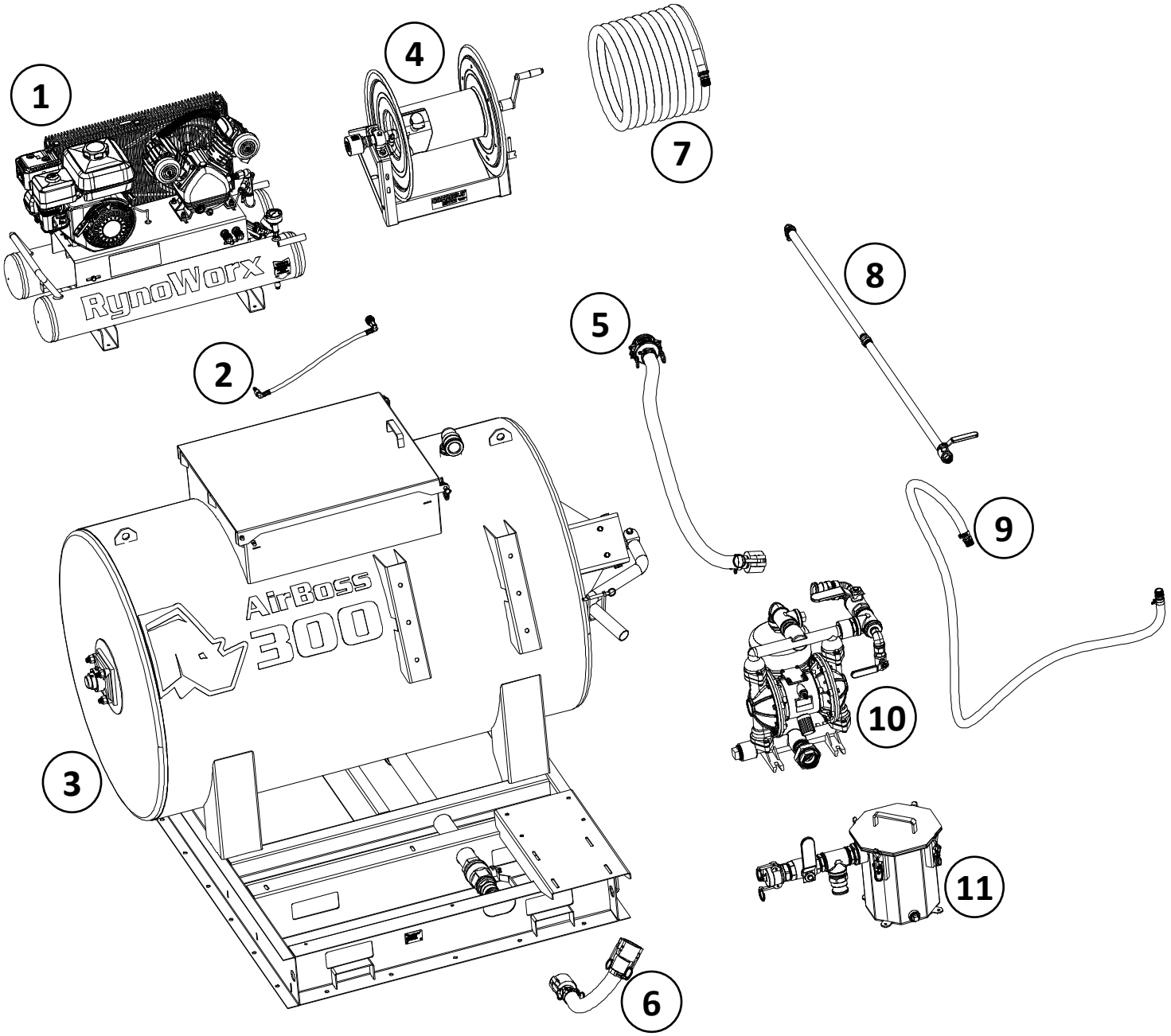
P/N:	Model	Rev:
RA-SSY-0025	AirBoss 300 Base	1

No	P/N	Qty	Description
1	RA-CMP-0007	1	9 Gallon Twin Tank Compressor with Kohler SH265 Engine
2	RA-HFA-0031	1	1/4" Compressor Air Hose with Quick Connect Fittings
3	RA-TNK-0014	1	300 Gallon Sealcoat Tank with Agitation Complete Assembly
4	RA-HRL-0008	1	Coxreel - 3/4" x 100' - 1125 Series Hand Crank Hose Reel
5	RA-HFA-0029	1	1.5" Return Hose Assembly
6	RA-HFA-0028	1	1.5" Intake Hose Assembly
7	RA-HFA-0032	1	3/4" x 100' Spray Hose Assembly (3/4" NPT)
8	RA-SWA-0005	1	3/4" Commercial Spray Wand - Air Op
9	RA-HFA-0035	1	3/4" NPT - Pump to Hose Reel
10	RA-PFA-0001	1	Pump with Fitting Assembly - 1.5" Air Op
11	RA-FIT-0101	1	3 Gallon Filter Pot Assembly with Fittings



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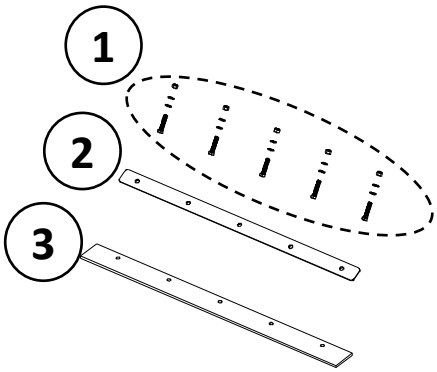
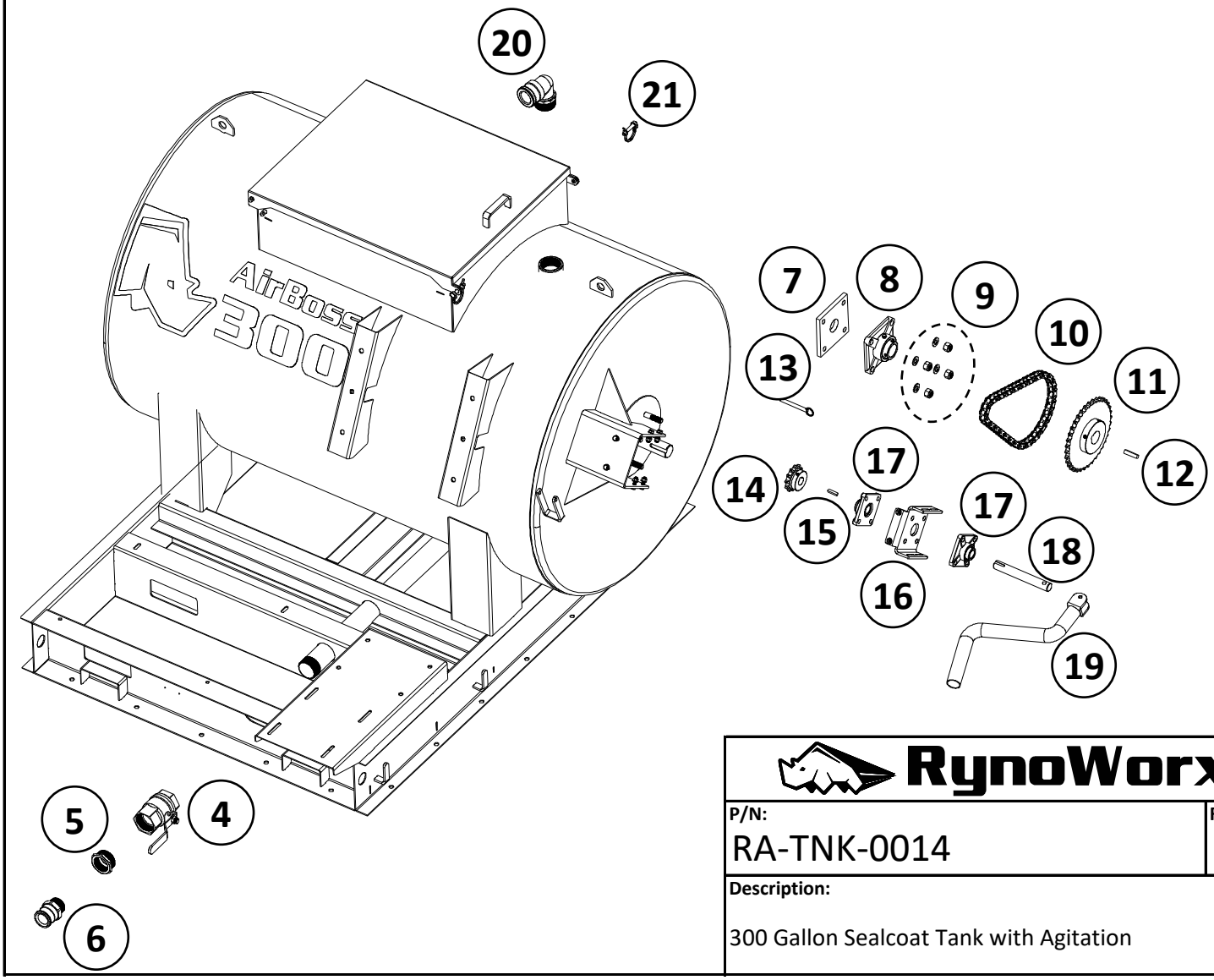
P/N:	Model	Rev:
RA-SSY-0026	AirBoss 300 Loaded	1

No	P/N	Qty	Description
1	RK-FAS-0092	1	Fastener Kit - Agitation Sweep Gasket
2	RC-AGT-0004	1	Agitation Gasket Clamp
3	RC-GSK-0039	1	Agitation Sweep Gasket
4	RC-VLV-0013	1	2" NPT Full Port Ball Valve - SS304
5	RC-FIT-0110	1	Reducer Bushing - 2" NPT to 1.5" NPT - SS304
6	RC-FIT-0089	1	1.5" Male Camlock - Male NPT
7	RC-GSK-0040	1	Agitation Bearing Gasket
8	RC-BRG-0002	1	40 mm 4 Bolt Flange Bearing
9	RK-FAS-0093	1	Fastener Kit - Agitation 40 mm Bearing to Tank Endcap
10	RA-CHN-0002	1	Roller Chain Loop - Single Strand, 1/2" Pitch, 50 Links
11	RC-SPK-0007	1	Roller Chain Sprocket - 36 Teeth, 1/2" Pitch for 40 mm Shaf
12	RC-KEY-0001	1	3/8" x 3/8" x 1.5" Machine Key
13	RC-PIN-0013	1	3/8" Steel Ring-Grip Quick-Release Pin - ZP
14	RC-SPK-0008	1	Roller Chain Sprocket - 12 Teeth, 1/2" Pitch for 25 mm Shaf
15	RC-KEY-0002	1	1/4" x 1/4" x 1.25" Machine Key
16	RC-FAB-0215	1	Agitation Bracket
17	RC-BRG-0004	2	25 mm 4 Bolt Flange Bearing
18	RC-AGT-0005	1	25 mm Agitation Shaft
19	RC-AGT-0006	1	Agitation Handle
20	RC-FIT-0043	1	2" NPT Adapter 90° ro 2" Male Camlock
21	RC-PIN-0008	2	3/8" x 1-3/8" Lock Pin with Retainer





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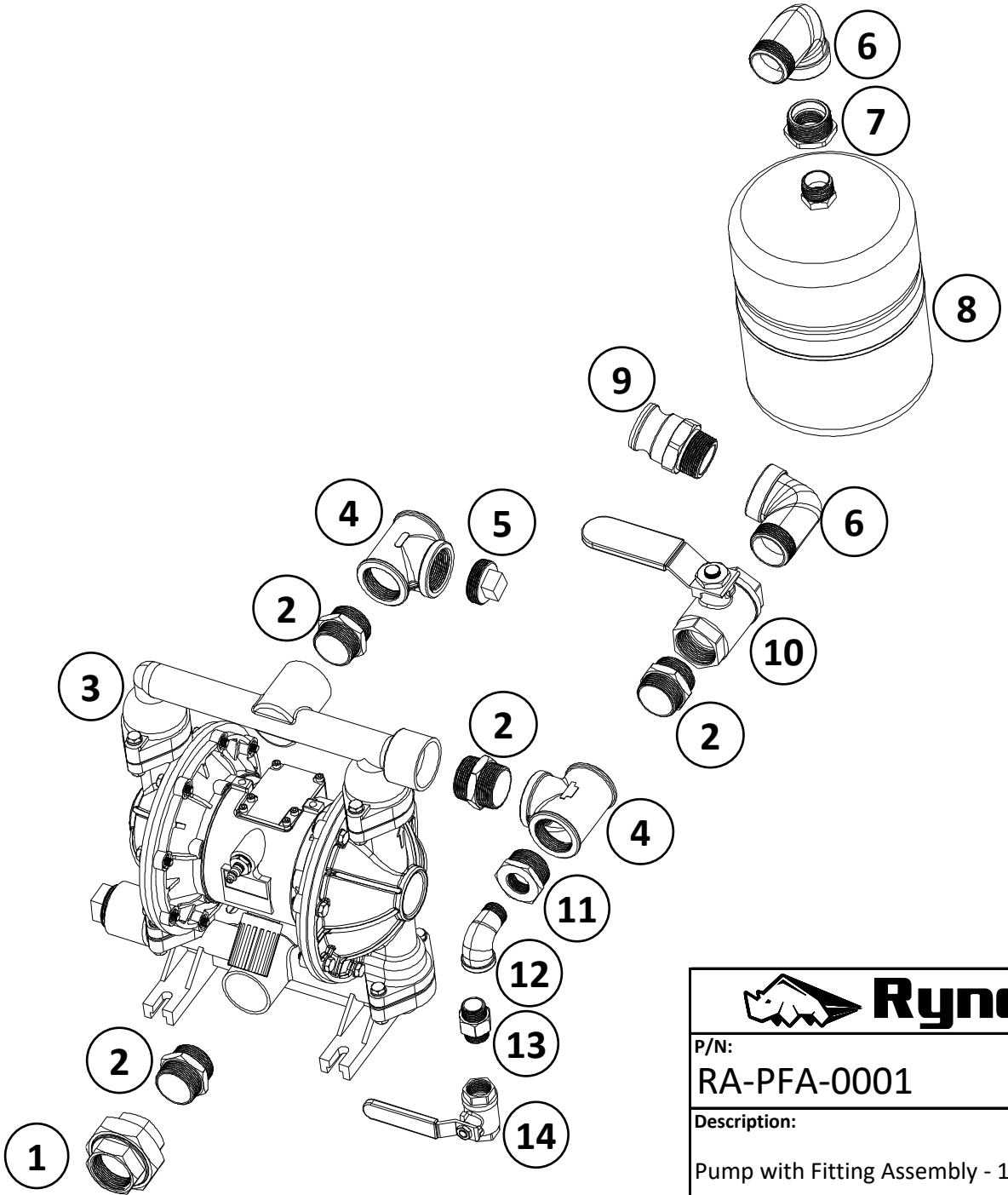
P/N:	Rev:
RA-TNK-0014	1

Description:

300 Gallon Sealcoat Tank with Agitation

No	P/N	Qty	Description
1	RC-FIT-0115	1	1.5" NPT Union
2	RC-FIT-0097	4	1.5" NPT Hex Nipple - SS304
3	RA-PMP-0005	1	1.5" Air Operated Diaphragm Pump
4	RC-FIT-0100	2	Tee - 1.5" NPT - SS304
5	RC-FIT-0104	1	1.5" NPT Plug - External Square Drive - SS304
6	RC-FIT-0105	2	1.5" 90 Degree Street Elbow - SS304
7	RC-FIT-0098	1	Reducer Bushing - 1.5" NPT to 1" NPT - SS304
8	RA-TNK-0013	1	Expansion Tank - 1" Male NPT - (145 psi max, 2.1 Gallons)
9	RC-FIT-0089	1	1.5" Male Camlock - Male NPT - Aluminum Fitting
10	RC-VLV-0020	1	1.5" NPT Full Port Ball Valve - SS304
11	RC-FIT-0099	1	Reducer Bushing - 1.5" NPT to 3/4" NPT - SS304
12	RC-FIT-0093	1	3/4" NPT 90 Degree Street Elbow - SS304
13	RC-FIT-0094	1	3/4" NPT Hex Nipple - SS304
14	RC-VLV-0009	1	3/4" NPT Full Port Ball Valve



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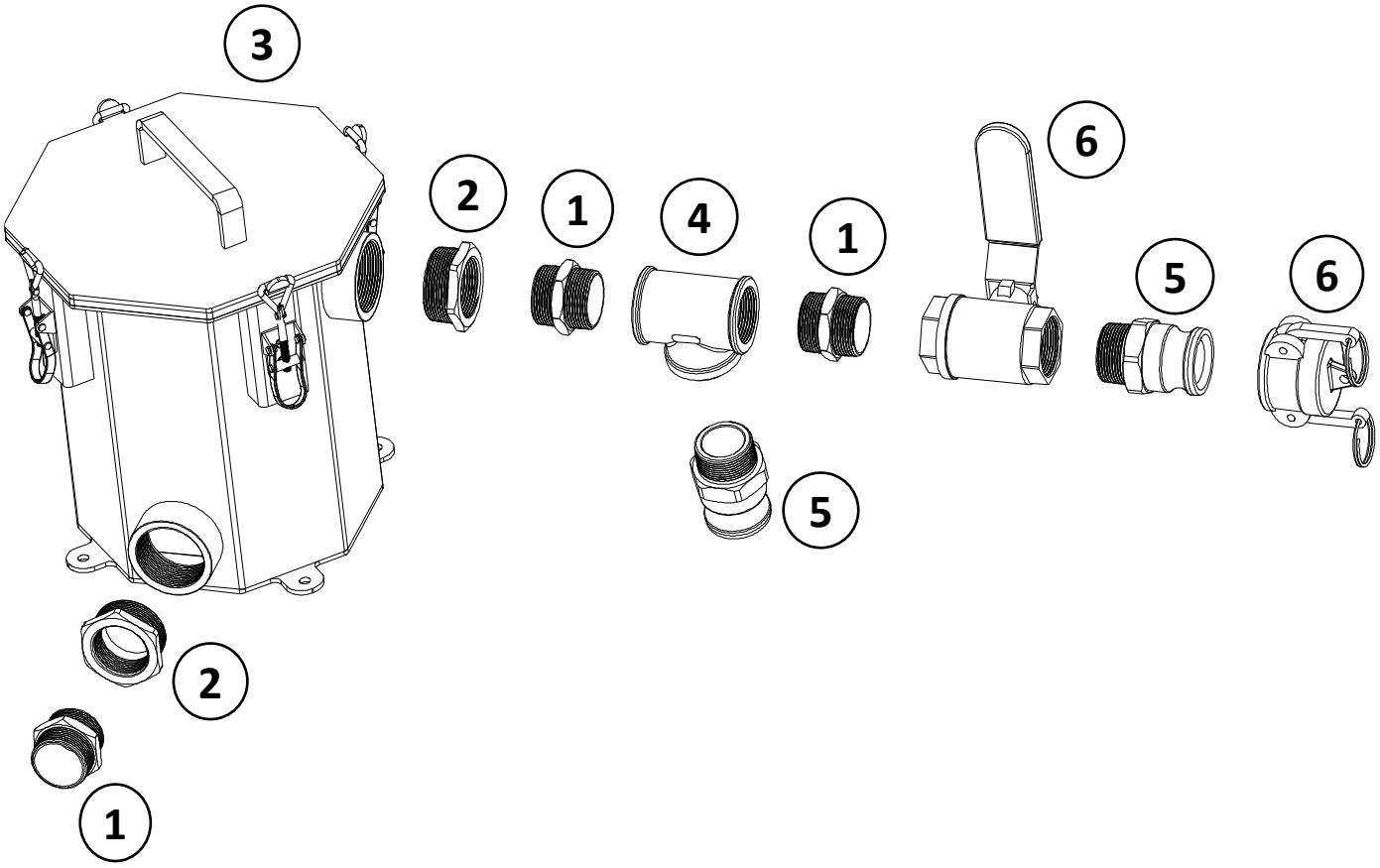
P/N:	Rev:
RA-PFA-0001	1

Description:

Pump with Fitting Assembly - 1.5" Air Op

No	P/N	Qty	Description
1	RC-FIT-0097	3	1.5" NPT Hex Nipple - SS304
2	RC-FIT-0110	2	Reducer Bushing - 2" NPT to 1.5" NPT - SS304
3	RA-FPT-0004	1	3 Gallon Filter - Complete Assembly
4	RC-FIT-0100	1	Tee - 1.5" NPT - SS304
5	RC-FIT-0089	2	1.5" Male Camlock - Male NPT - Aluminum Fitting
6	RC-FIT-0092	1	1.5" Female Camlock Cap - Aluminum - 150 Type DC



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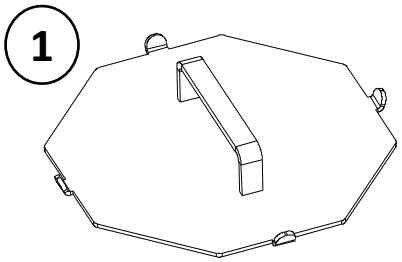
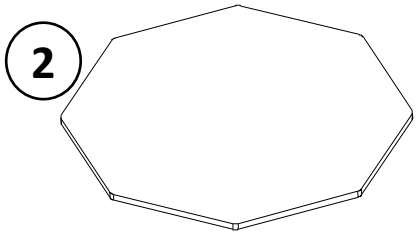
P/N:	Rev:
RA-FIT-0101	1

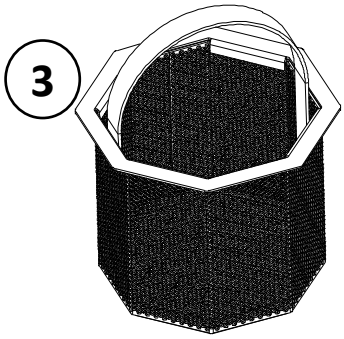
Description:

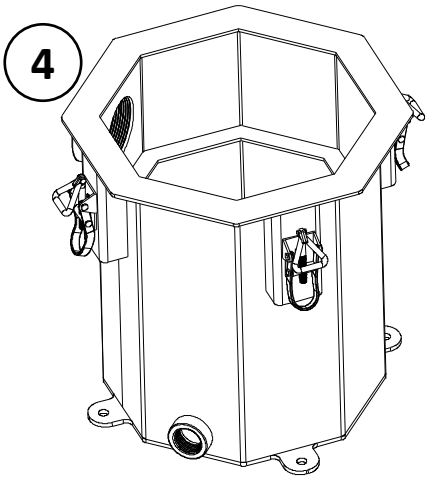
3 Gallon Filter Pot Assembly with Fittings

No	P/N	Qty	Description
1	RC-FPT-0002	1	3 Gallon Filter Lid
2	RC-GSK-0041	1	Basket Strainer Gasket
3	RC-FPT-0005	1	3 Gallon Filter Basket - 5.5 mm Holes
4	RC-FPT-0001	1	3 Gallon Filter Body
5	RC-FIT-0113	1	3/4" NPT Plug with External Square Drive - SS304



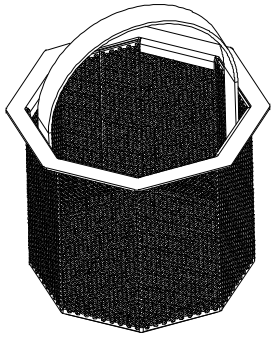






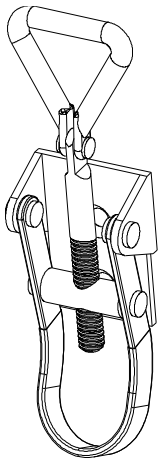
Alternate Size Filter Basket (inlcuded with tank systems)

P/N	Description
RC-FPT-0003	3 Gallon Filter Basket - 4 mm Holes



Replacement Latch

P/N	Description
RC-LCH-0001	Latch



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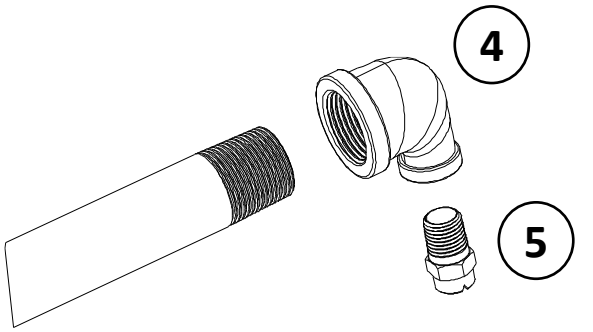
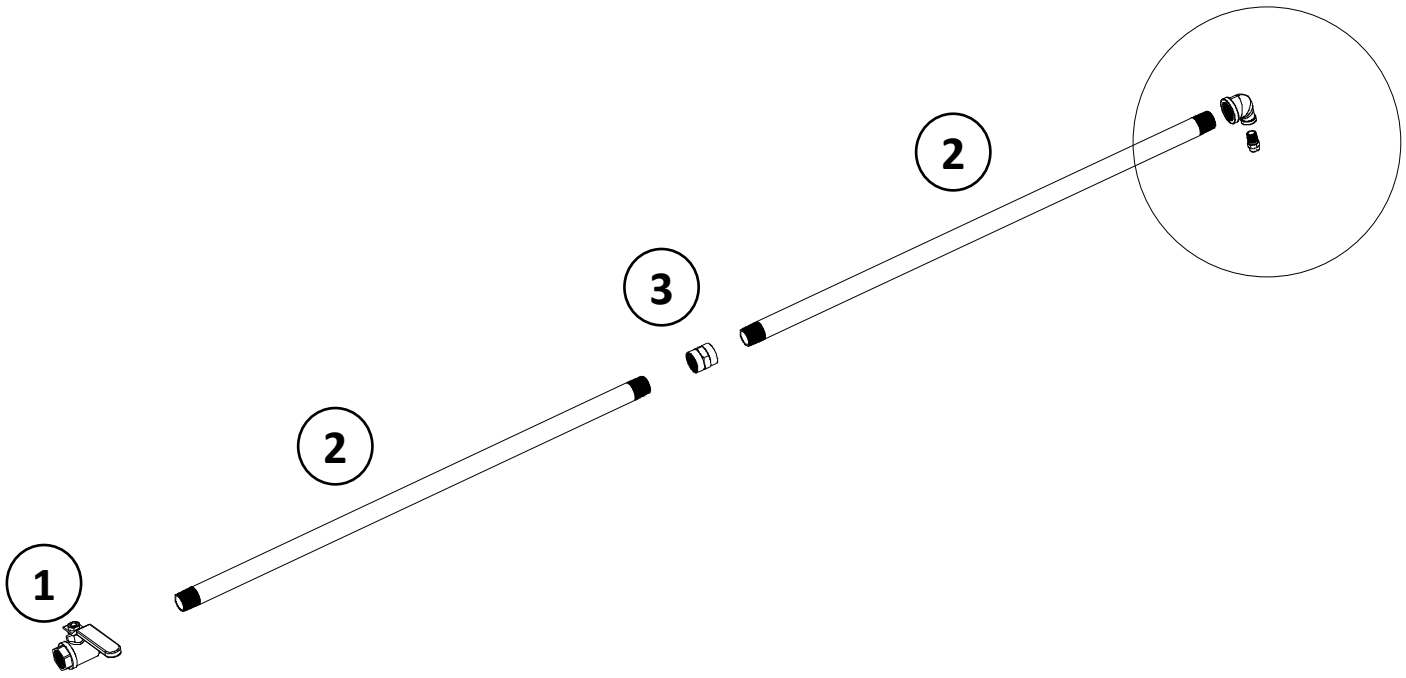
P/N:	Rev:
RA-FPT-0004	1

Description:

3 Gallon Filter Pot - Complete Assembly

No	P/N	Qty	Description
1	RC-VLV-0009	1	3/4" NPT Full Port Ball Valve
2	RC-PIP-0003	2	30" - 3/4" Threaded NPT Aluminum Tube
3	RC-FIT-0010	1	3/4" NPT Brass Coupler
4	RC-FIT-0096	1	90 Degree Elbow Reducer, 3/4 x 3/8" NPT Female
5	RC-STP-0012	1	3/8" NPT Hardened Steel Spray Tip 80/70





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P/N:	Model	Rev:
RA-SWA-0005	Spray Wand Air Op	1

3 OPERATION

3.1 Operation Guidelines

- The AirBoss system was pre-tested for leaks before shipping, however, we recommend that you test the system using WATER to ensure you do not have leaks before moving onto sealant
- The air-pump is self-priming
- Flush clean water through the pump and hoses at the end of each day
- Place any used spray tips into a soapy water solution at the end of each day
- Do not let sealant dry onto the spray tips
- Put the spray tips into a container with soapy water when finished with them
- Clean the spray tips with soft nylon brushes only
- Have clean water available at the job site for emergency rinsing
- Clean the strainer daily to ensure proper sealant flow
- Check the engine oil levels daily
- Check the compressor oil levels daily

⚠ WARNING
● Turn the engine off for extended work stoppages (10+ minutes), such as breaks, lunches, or other unplanned work stoppages
● avoid recirculating for more than 10 minutes at a time
NOTE: Apart from wasting fuel, this may cause your sealant to become foamy, which can introduce excessive air into the lines and can introduce inconsistent spray intensity.
● Foamy sealant can take an hour or more to return to a useable state.
● Set fuel control to OFF while traveling (if equipped)

Spray Tip

Each system ships with 5 sizes of spray tips (80/20, 80/30, 80/40, 80/50, 80/100). The spray wand (RA-SWA-0005) included with your AirBoss will have an 80/70 tip installed on it. The 2 numbers used to designate the spray tip size denote the spray fan angle and tip flow when sprayed at 40 psi (for example, an 80/30 has an 80° spray fan angle and has approximately 3.0 GPM of flow when sprayed at 40 psi). Increasing or decreasing the regulator pressure will also increase or decrease the tip flow rate from the 40 psi rating.

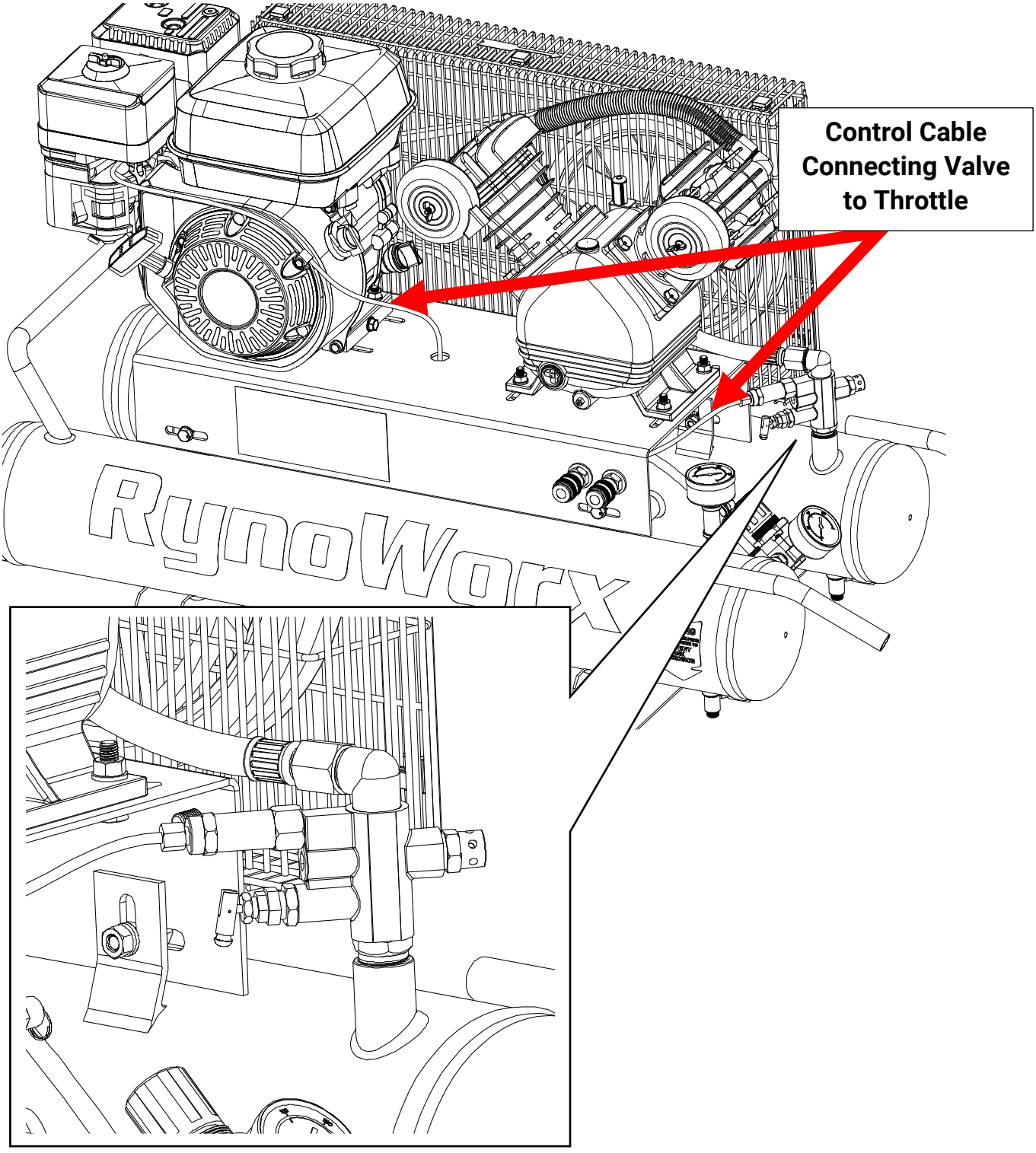
Tip sizes like an 80/20 or 80/30 are ideal for smaller jobs, like driveways, while larger tips are more suitable for large driveways and parking lots. You will also need to consider the type of product you are working with. Coal tar products have less solids in them and should work trouble free with any of the included sizes. Emulsion based sealers have more solids in them, and require 80/50 tips or larger to work effectively.

When selecting the operating pressure for your job, always go with the lowest pressure required to create your desired spray pattern. Pressure tends to vary over the life of the spray tip as it becomes worn, the consistently of the mix can also cause variations in the pressure. The life span of a spray tip can vary with different factors such as sand load usage, but tips typically last for around 700 gallons of sealer.

Filter baskets

Your system comes with 2 sizes of filter baskets. 4 mm (approx. 5/32”) and 5.5 mm (approx. 7/32”). We recommend using the larger basket for emulsion and sealers with more solid, and the smaller filter for coal tar sealers.

3.2 Compressor Operation



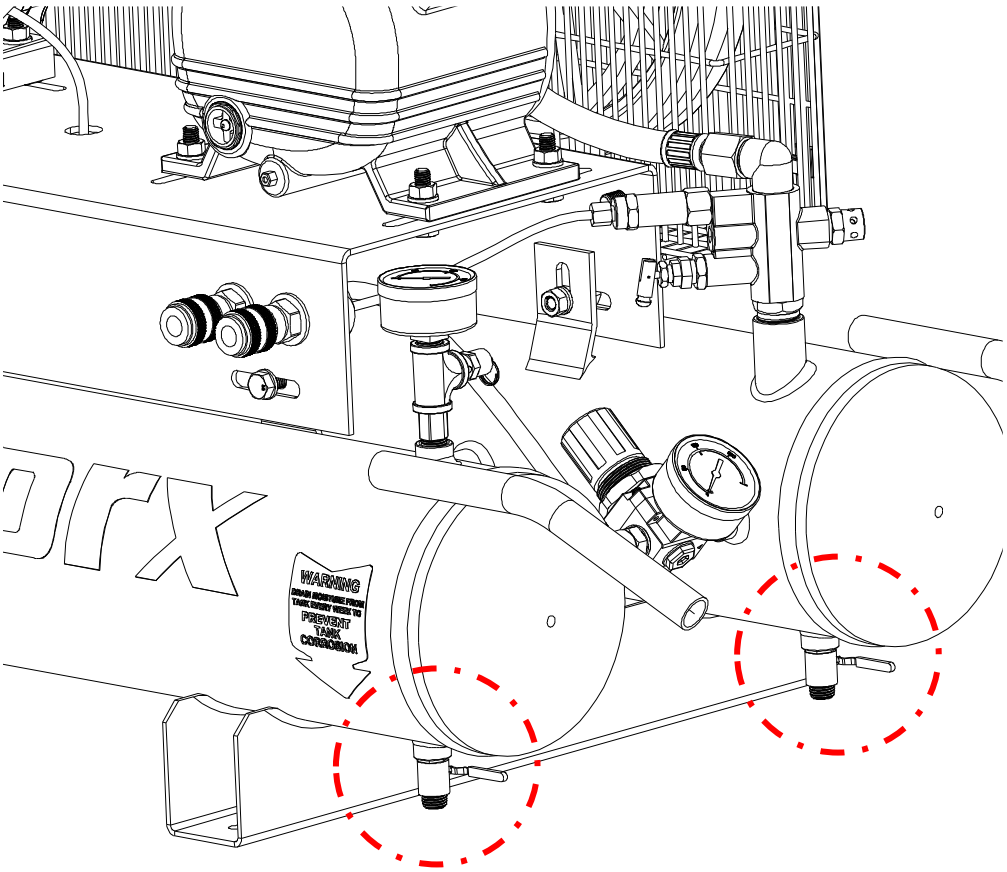
Auto Idle Throttle Control Cable

Your AirBoss Spray system is equipped with an auto idle kickdown to lower engine RPM when not running the compressor. This cable runs from the brass valve to the throttle on your engine.

This sensor is attached between the compressor and the tank and will reduce the engine RPM when the target PSI has been achieved.

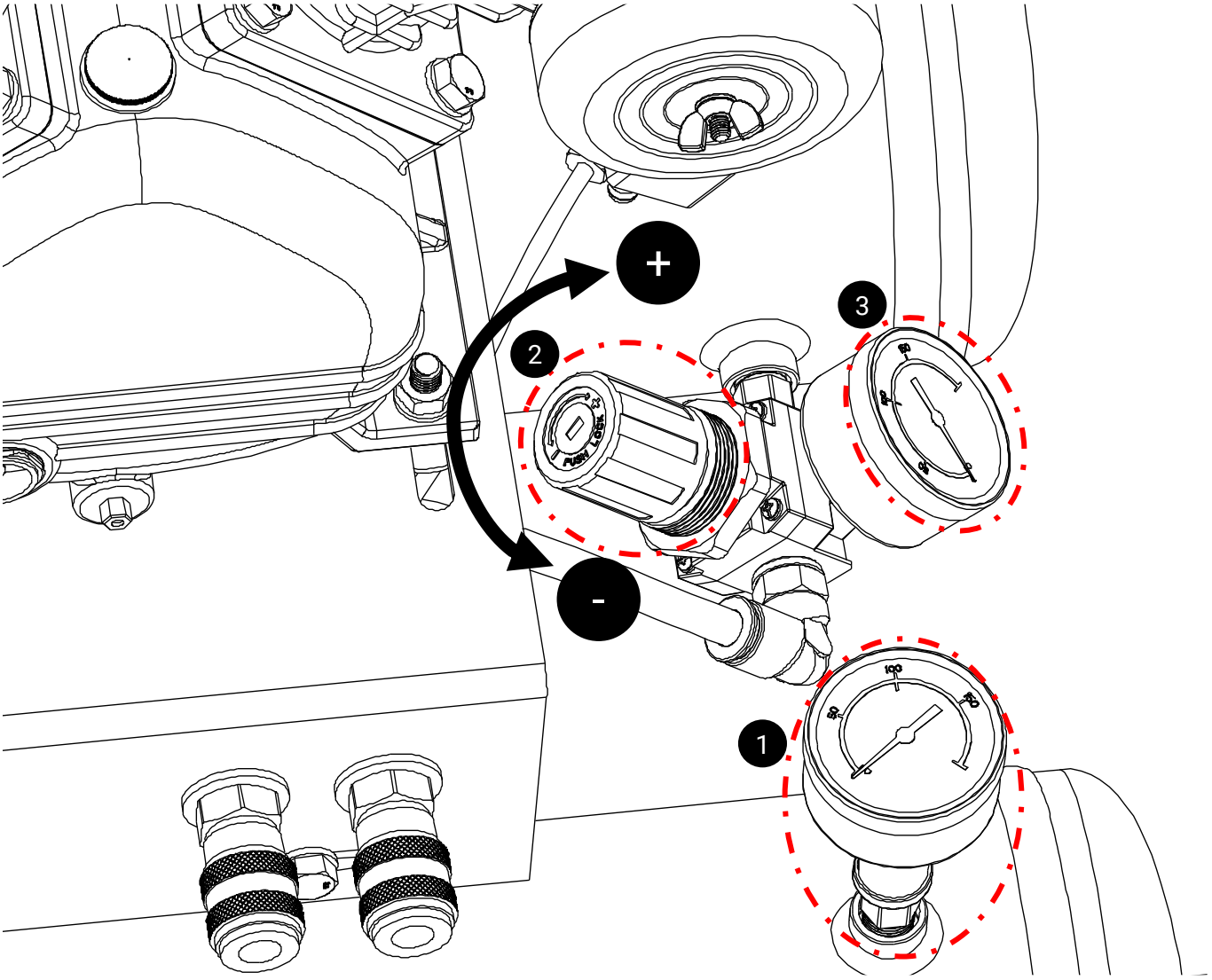
Compressor & Air Tanks:

NOTE: You must fully open the pressure relief valves at the bottom of **BOTH** tanks at the end of each day. Condensation can form and shorten the life of the tanks.



Setting the desired pressure:

1. Gauge that displays the current pressure in the tanks
2. Regulator valve to adjust desired operating air pressure
    - Clockwise to increase pressure, counter-clockwise to decrease
    - Push to lock, pull to unlock
3. Gauge that displays the operating air pressure

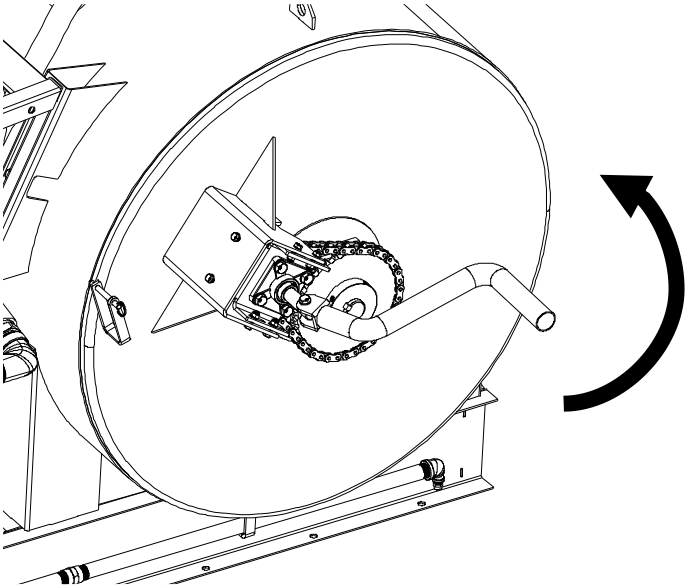


Note: the regulator will be set to 90 psi from the factory

3.3 System Modes

Notes:

- If using aggregate while operating, we suggest that you turn the agitation handle a few times hourly to prevent aggregate from settling
- Agitation handle is approximately 3:1 (3 turns of handle = 1 turn inside tank)
- After work stoppages of more than 30 minutes, we recommend recirculating for 2-3 minute before resuming work



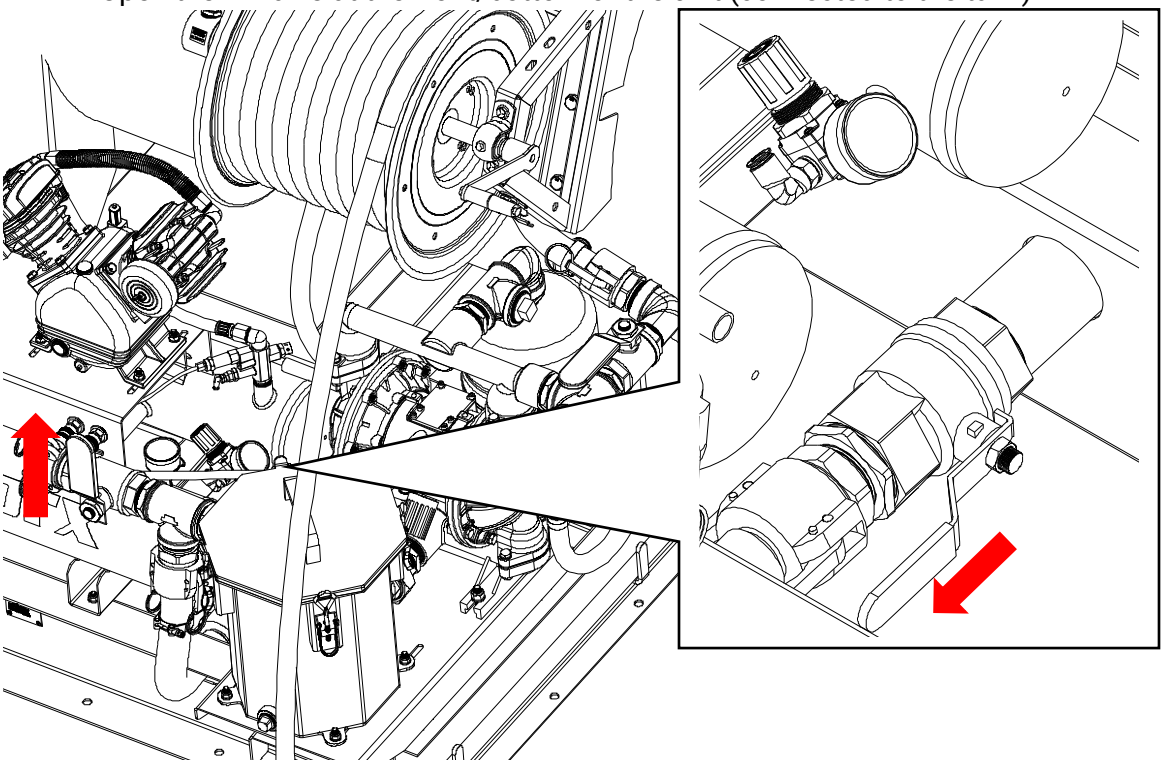
Always turn the agitation handle counter-clockwise

3.3.1 Input Modes

1) Main 300-gallon Tank

This is going to be the way you will be operating most of the time. Feeding from your main 300-gallon tank.

- Close the 1.5” valve at the front/top of the unit (connected to the filter pot)
- Open the 2” valve at the front/bottom of the unit (connected to the tank)

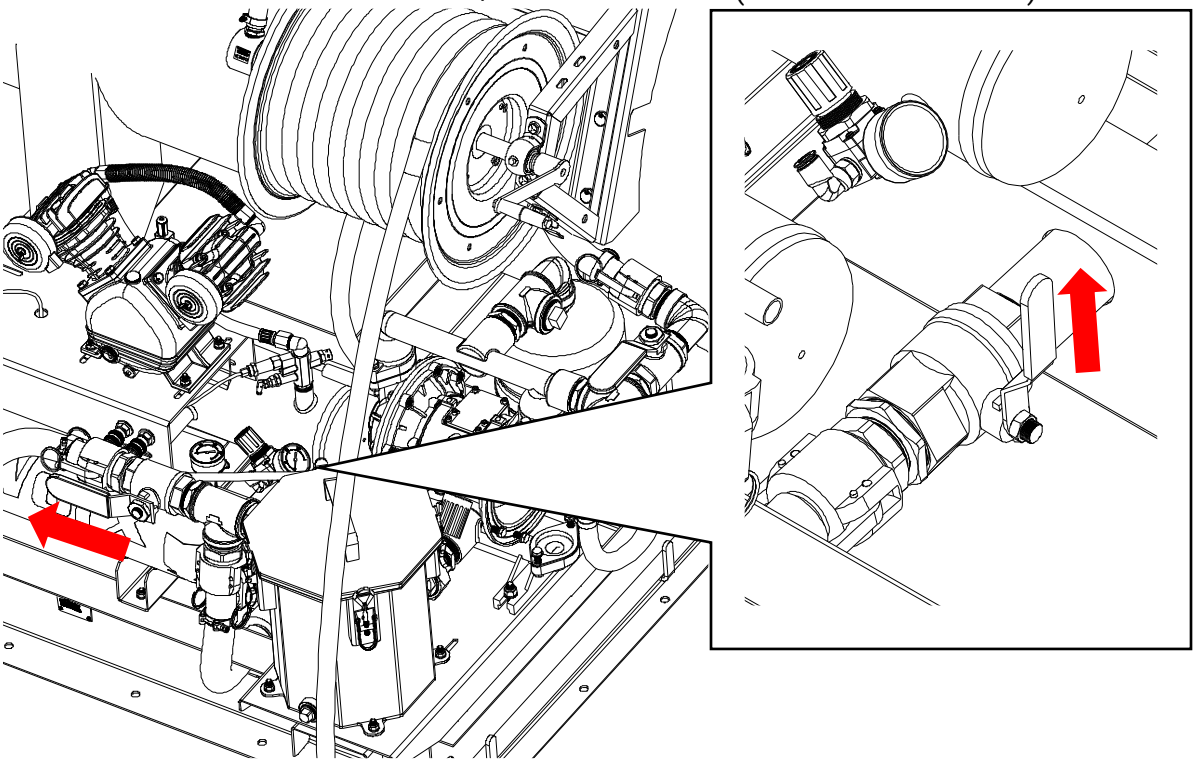


2) **Secondary Input Source/ Transfer**

This is primarily going to be for re-filling your 300-gallon tank from a secondary source, such as a barrel or tote.

However, this secondary source can also be used for general spraying as well (spraying directly from a tote or barrel)

- Open the 1.5” valve at the front/top of the unit (connected to the filter pot)
- Close the 2” valve at the front/bottom of the unit (connected to the tank)

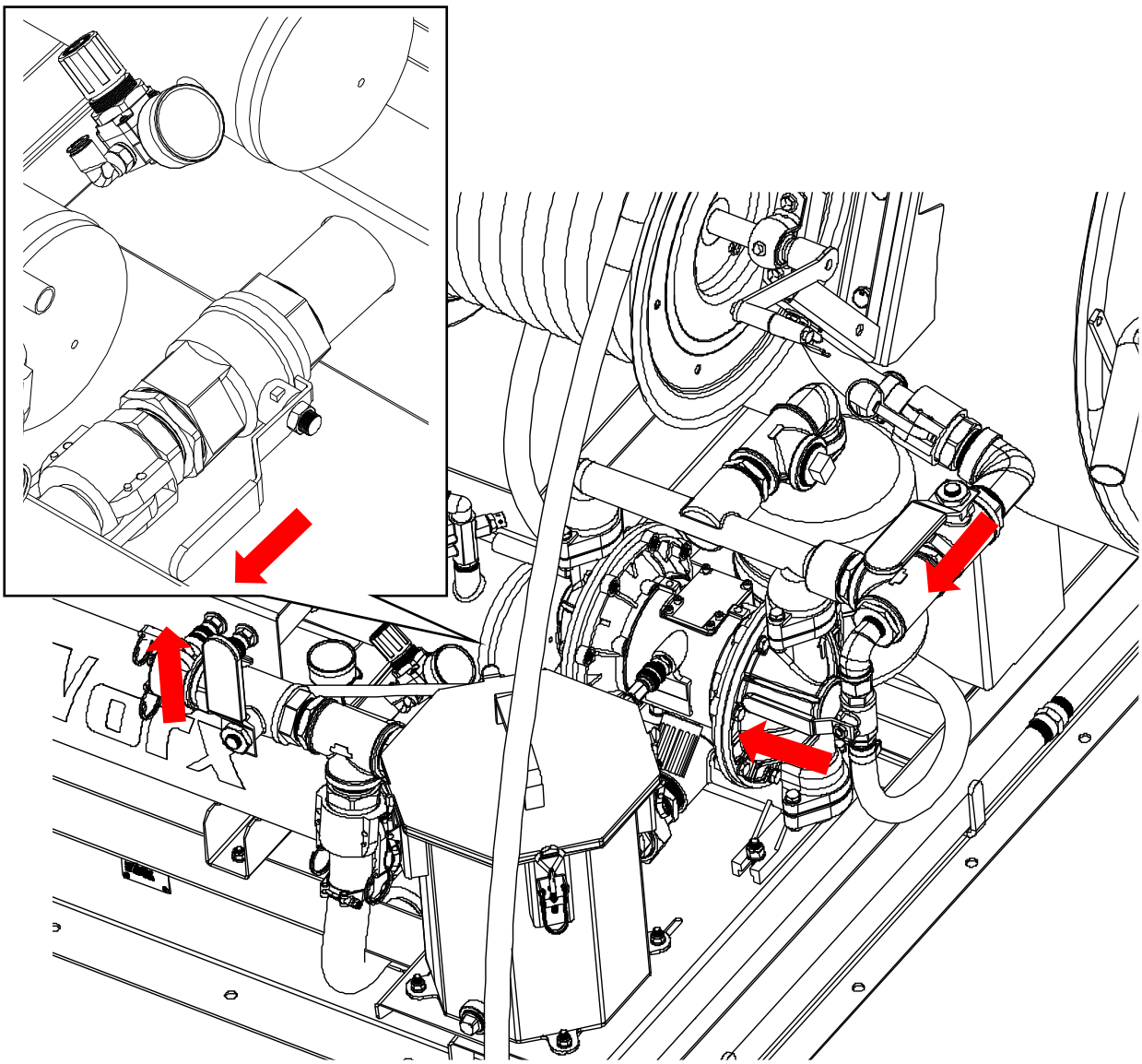


3.3.2 Output Modes

1) Recirculation Mode

This is one of 2 ways that you can mix your product. This will output back into the 300-gallon tank to help mix your product before beginning work

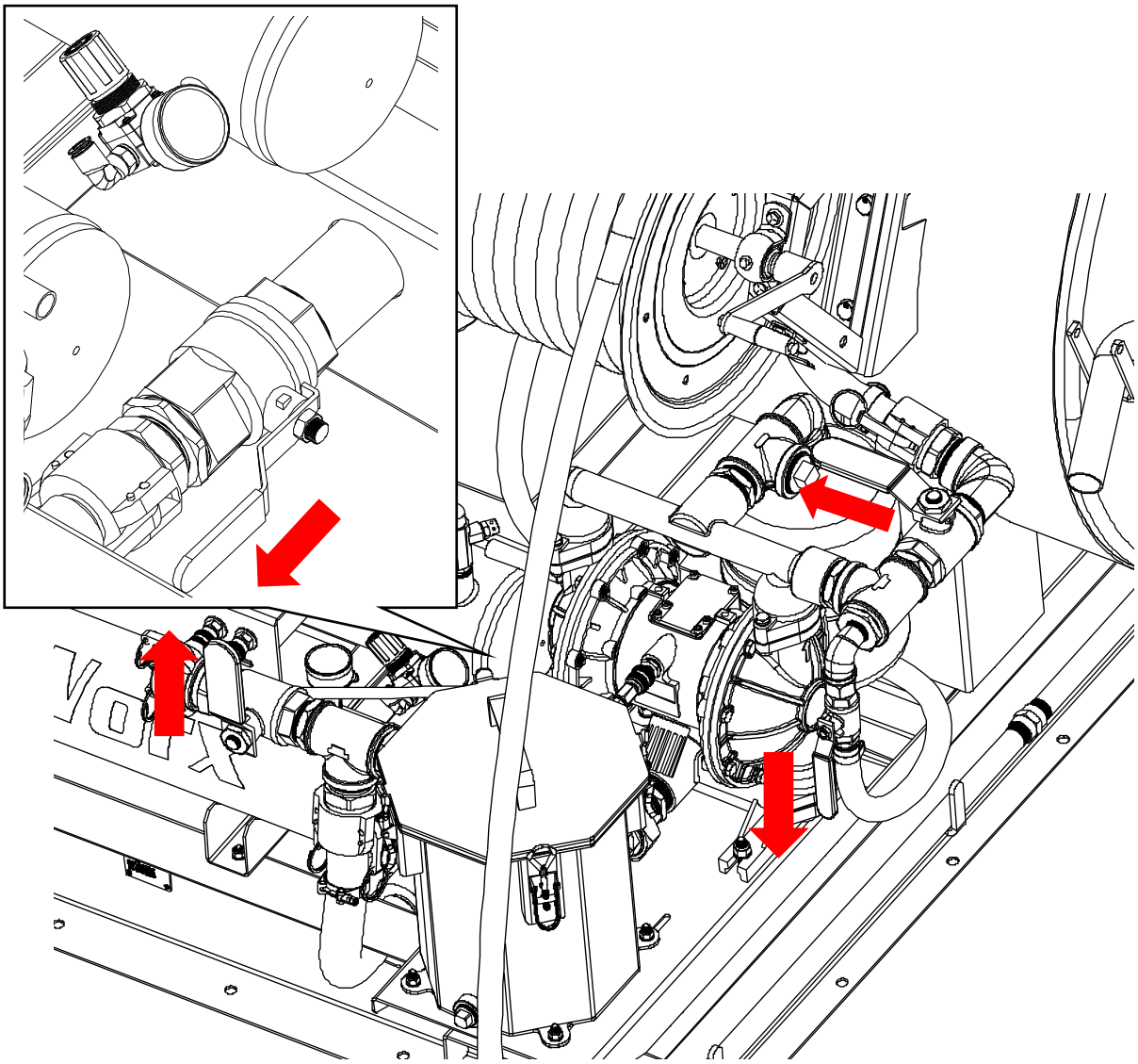
- Close the 1.5” valve at the front/top of the unit (connected to the filter pot)
- Open the 2” valve at the front/bottom of the unit (connected to the tank)
- Open the 1.5” valve at the back/top of the unit (connected to the pump)
- Close the ¾” valve at the back/top of the unit (connected to the pump)



2) Spray Mode

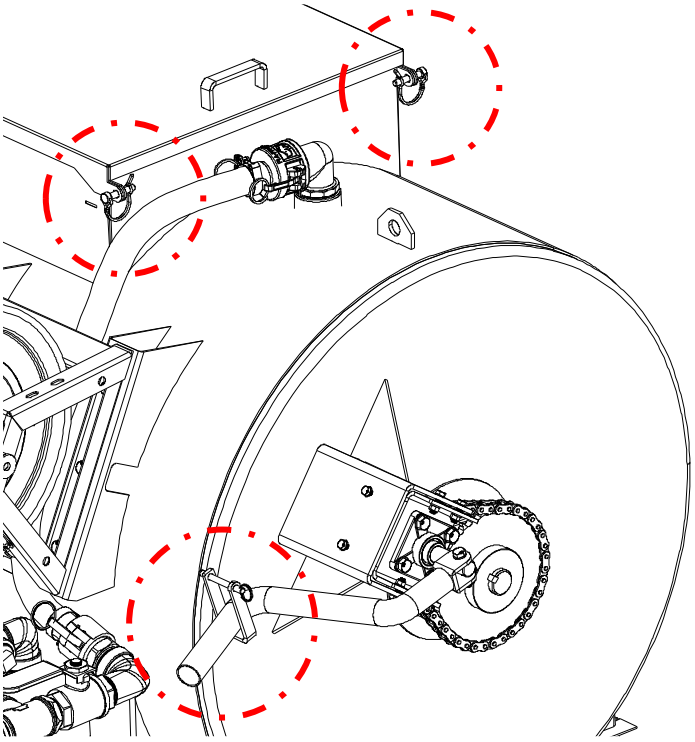
This is how you will be operating your system most of the time. Spraying through your spray wand.

- Close the 1.5” valve at the front/top of the unit (connected to the filter pot)
- Open the 2” valve at the front/bottom of the unit (connected to the tank)
- Close the 1.5” valve at the back/top of the unit (connected to the pump)
- Open the ¾” valve at the back/top of the unit (connected to the pump)



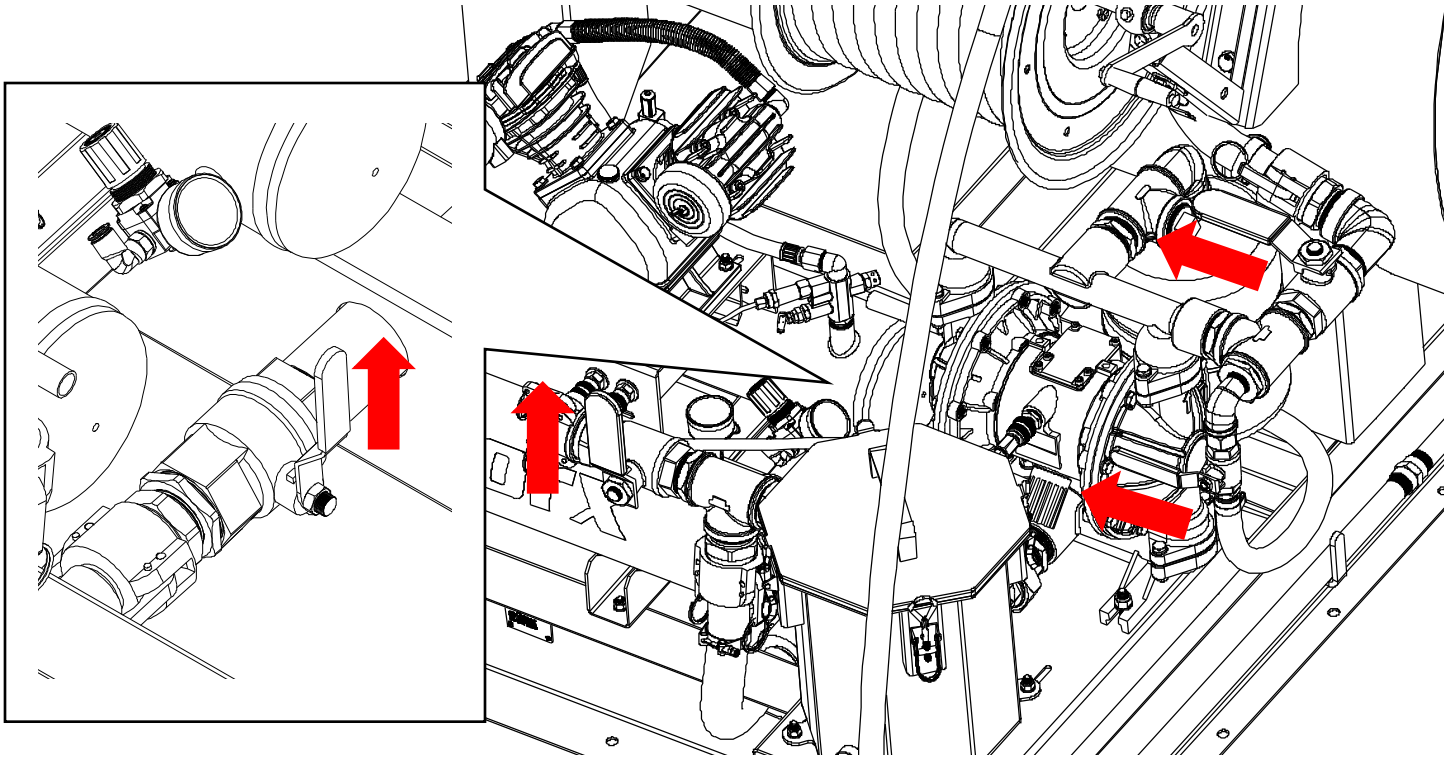
3) Travel Mode

Make sure to secure the pins on the manway as well as the pin on the agitation handle before transporting the unit.



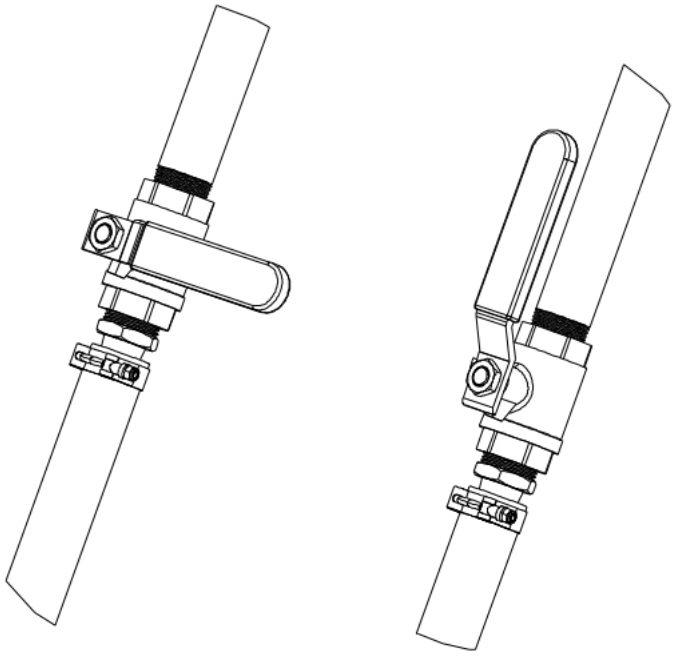
In order to reduce any risks of spillage while traveling, we recommend that you close ALL FOUR valves whenever traveling with the unit.

- Close the 1.5” valve at the front/top of the unit (connected to the filter pot)
- Close the 2” valve at the front/bottom of the unit (connected to the tank)
- Close the 1.5” valve at the back/top of the unit (connected to the pump)
- Close the ¾” valve at the back/top of the unit (connected to the pump)



3.3.3 Spray Wand Operation

The spray wand included with this system has a ball valve handle to accurately control the flow of sealer. Please refer to the following diagram for the valve positions.

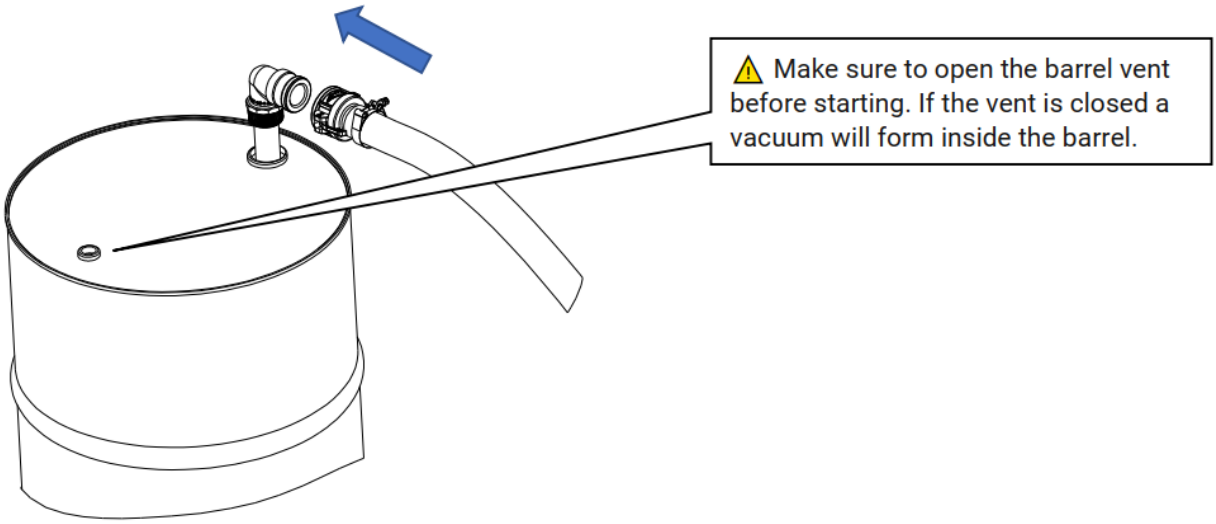


Spray wand valve closed Spray wand valve open

3.4 Transferring Sealer from a Drum
(Transfer kit sold separately)

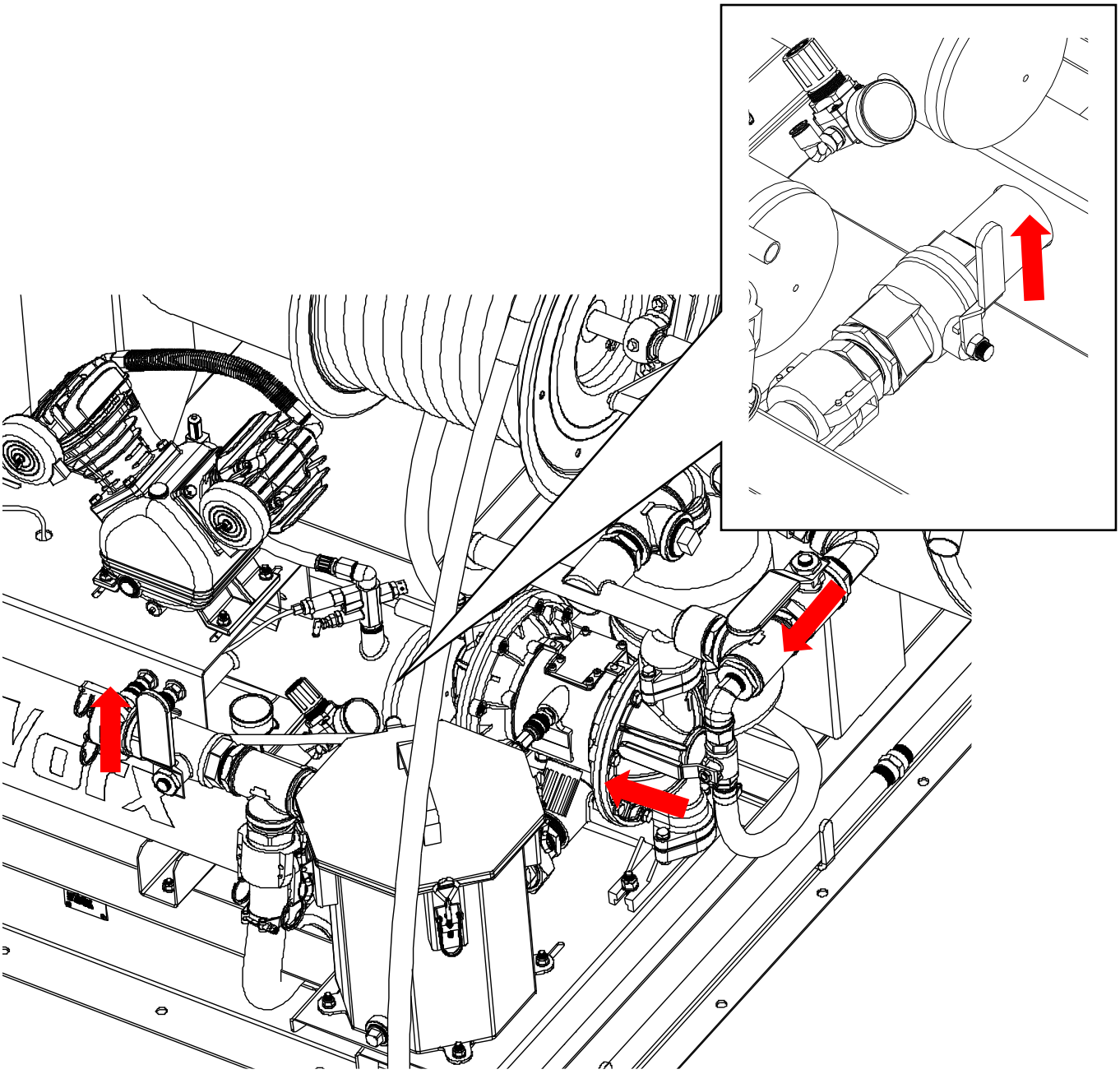
Mix the sealer with a drum mixer for several minutes before transferring

1. Insert the transfer tube into the barrel's 2" NPT opening
2. Open any vents in the barrel
3. Connect the female cam lock on the 15' transfer hose to the transfer tube.

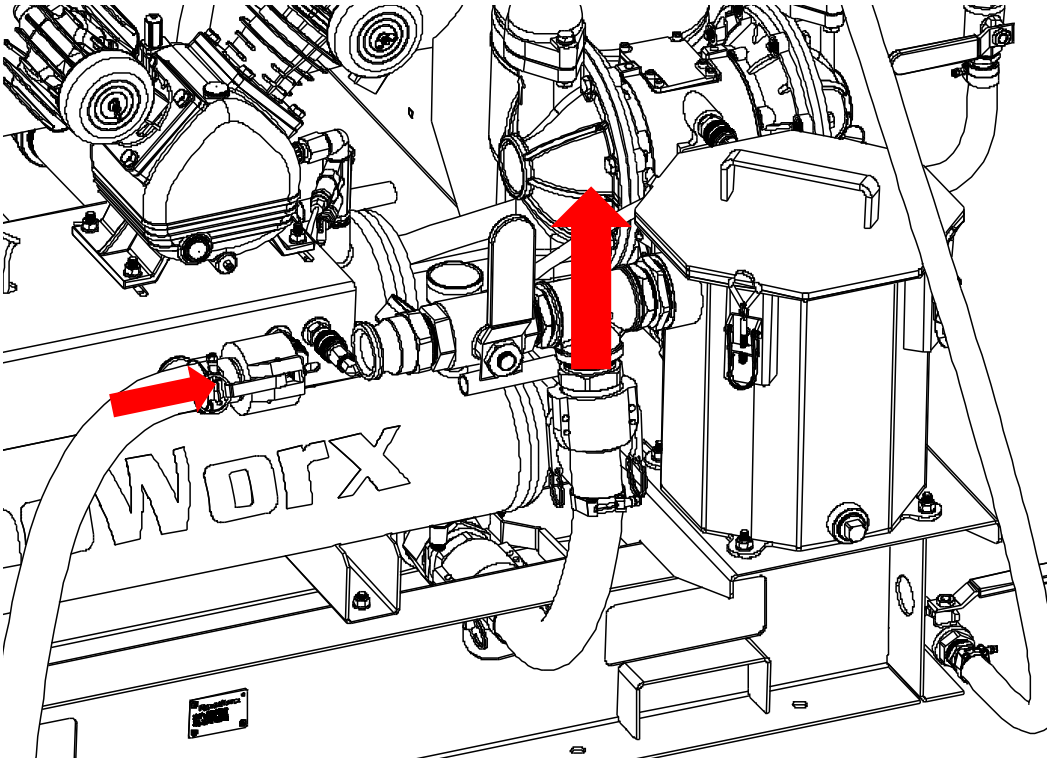


4. Set up the valves on the unit to prepare for transfer.

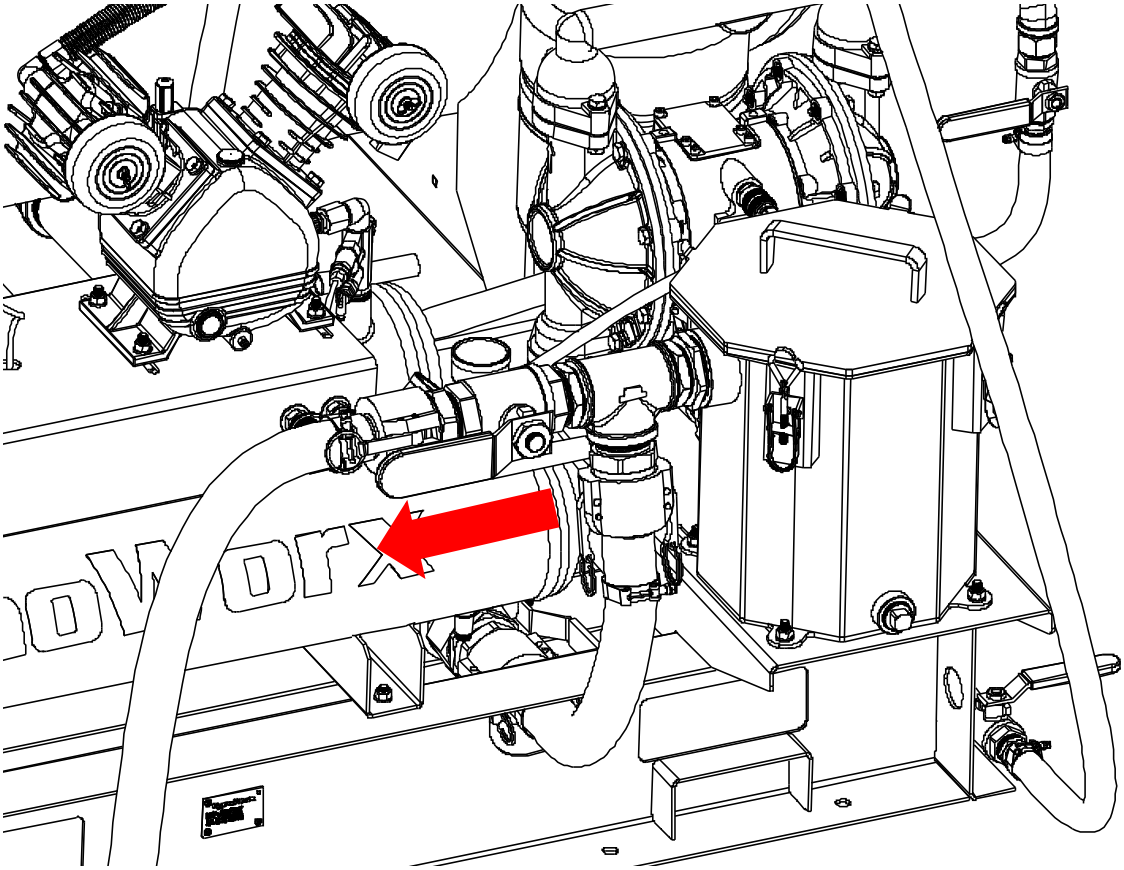
- Close the 1.5” valve at the front/top of the unit (connected to the filter pot)
- Close the 2” valve at the front/bottom of the unit (connected to the tank)
- Open the 1.5” valve at the back/top of the unit (connected to the pump)
- Close the ¾” valve at the back/top of the unit (connected to the pump)



5. Remove the cap and connect the other end of the transfer hose to the SECONDARY input on the AirBoss



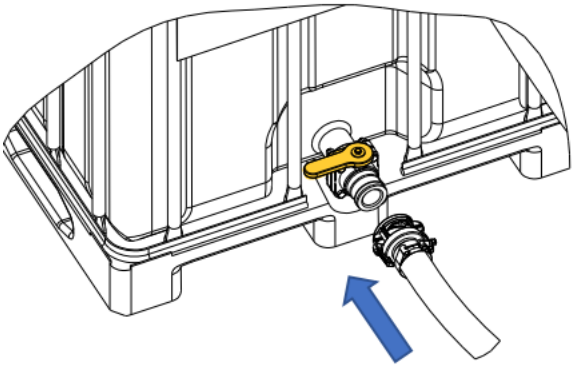
6. Open the 1.5” valve at the front/top of the unit (connected to the filter pot)



7. Start the pump to begin transferring sealer.

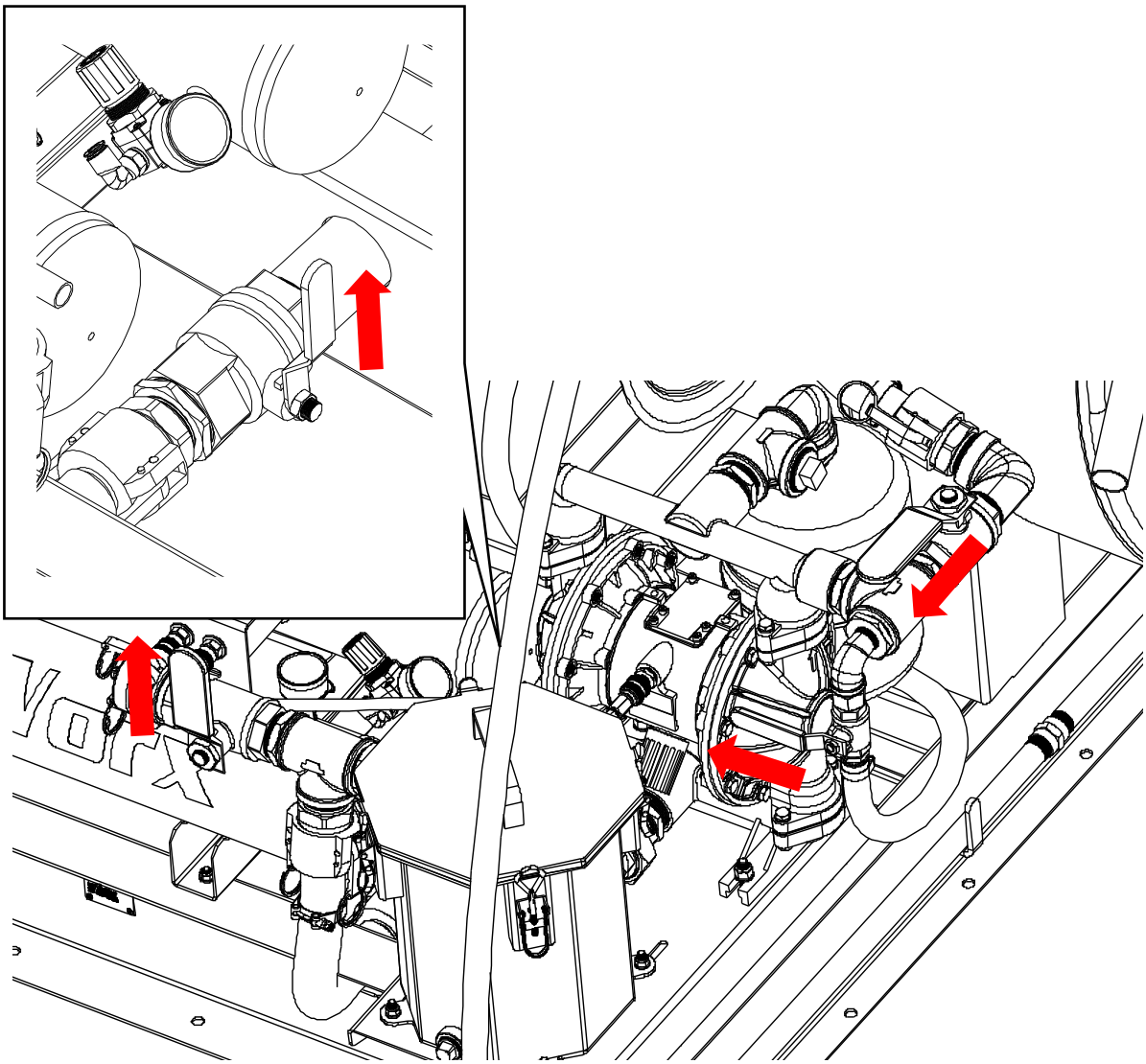
3.5 Transferring Sealer from a Tote
(Transfer kit sold separately)

1. Mix the sealer with a drum mixer for several minutes before transferring
2. Connect the 2” female cam lock on the 15’ transfer hose to outlet port on the tote.

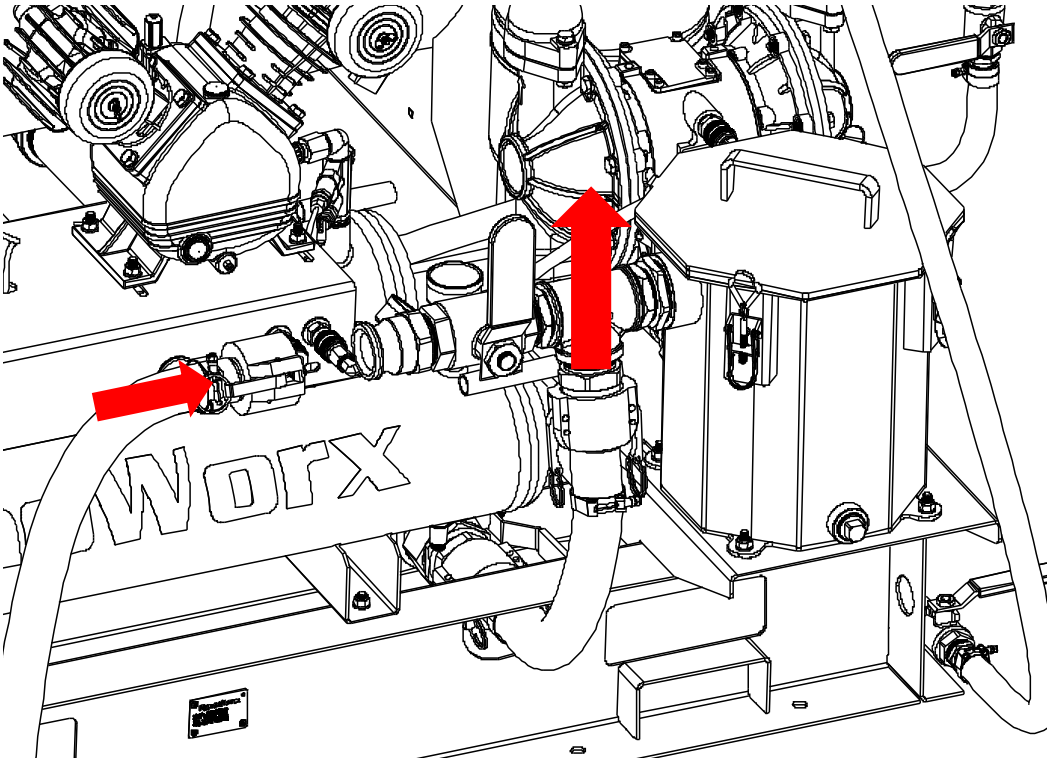


3. Set up the valves on the unit to prepare for transfer.

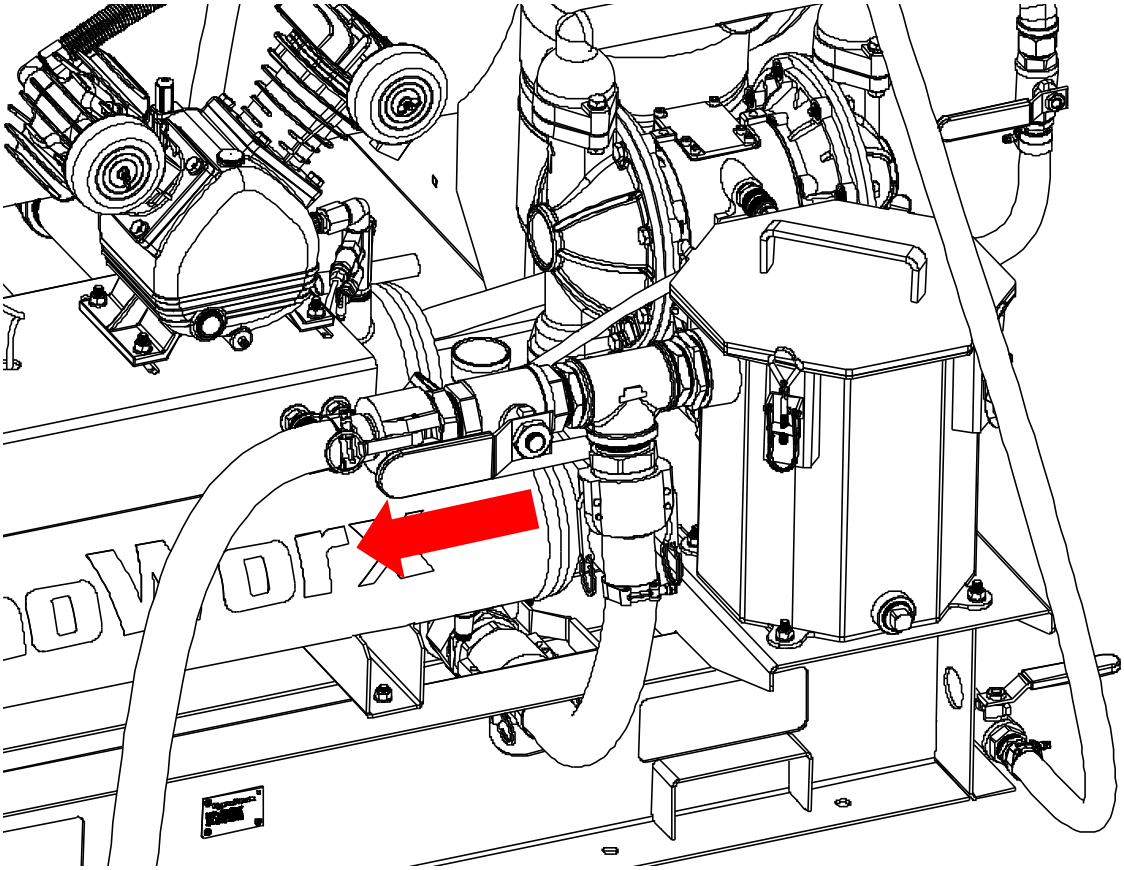
- Close the 1.5” valve at the front/top of the unit (connected to the filter pot)
- Close the 2” valve at the front/bottom of the unit (connected to the tank)
- Open the 1.5” valve at the back/top of the unit (connected to the pump)
- Close the ¾” valve at the back/top of the unit (connected to the pump)



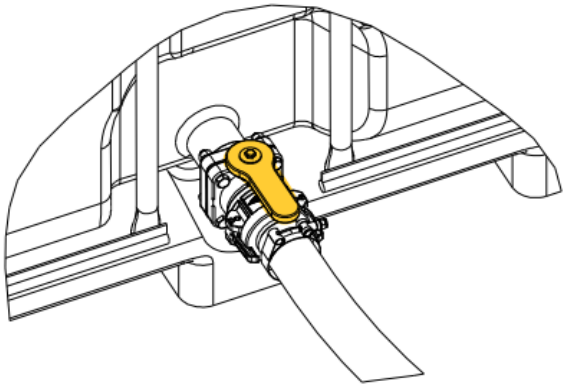
4. Remove the cap and connect the other end of the transfer hose to the SECONDARY input on the AirBoss



5. Open the 1.5” valve at the front/top of the unit (connected to the filter pot)



6. Open the valve at the tote outlet.



7. Loosen the lid on the top of the tote
8. Start the pump to begin transferring sealer.

3.6 Starting the Engine

Your AirBoss is equipped with either a Kohler SH265 or a Kohler RH265 engine.

Kohler - RH265

Choke:

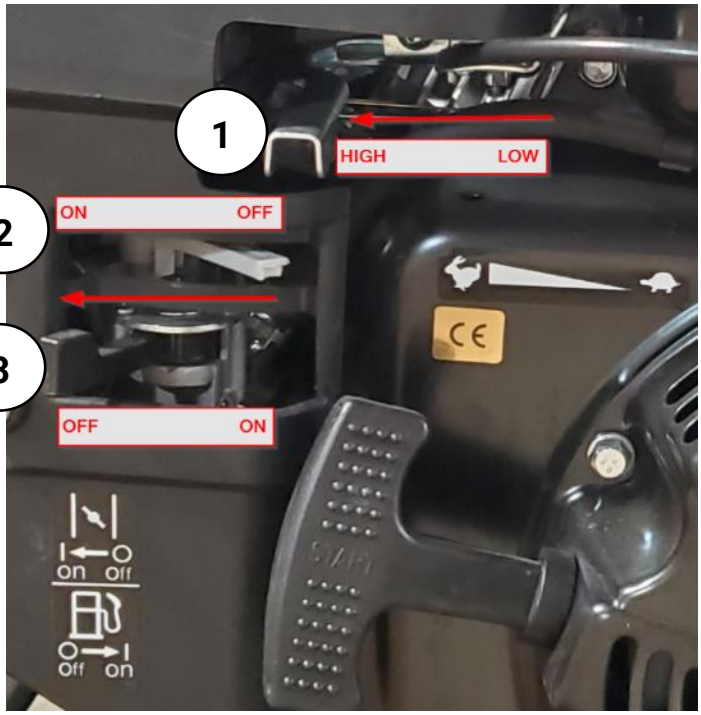
Full:

Low:

Off:

Kohler - SH265

1. **Engine RPM**
2. **Choke**
3. **Fuel**



SH265 Starting:

1. Turn the fuel shut-off valve to ON position
2. Turn the engine on/off switch to ON position
3. Start the engine as follows:
   Cold engine:
   a. Place the throttle control midway between the SLOW and FAST positions
   b. Place the choke control into the ON position
   Warm engine:
   a. Place the throttle control midway between the SLOW and FAST positions
   b. Return the choke to OFF position as soon as the engine starts
   c. A warm engine usually does not require the choke on
4. Slowly pull the starter handle until just past compression-STOP! Return the starter handle; firmly pull straight out to avoid excessive rope wear from the starter rope guide
5. Gradually return the choke control to OFF position after the engine starts and warms up. Engine/equipment may be operated during warm up period, but it may be necessary to leave the choke partially on until the engine warms up

RH265 Starting:

1. Turn the engine on/off switch to the ON position
2. Start the engine as follows:
   Cold engine: Place the lever in the choke position
   Warm engine: Place the lever in the full throttle/ FAST position
3. Slowly pull the starter handle until just past compression-STOP! Return the starter handle; firmly pull straight out to avoid excessive rope wear from the starter rope guide
1. Gradually move the lever to FAST position after engine starts and warms up. The engine/equipment may be operated during the warmup period, but it may be necessary to leave the choke partially on until the engine warms up fully

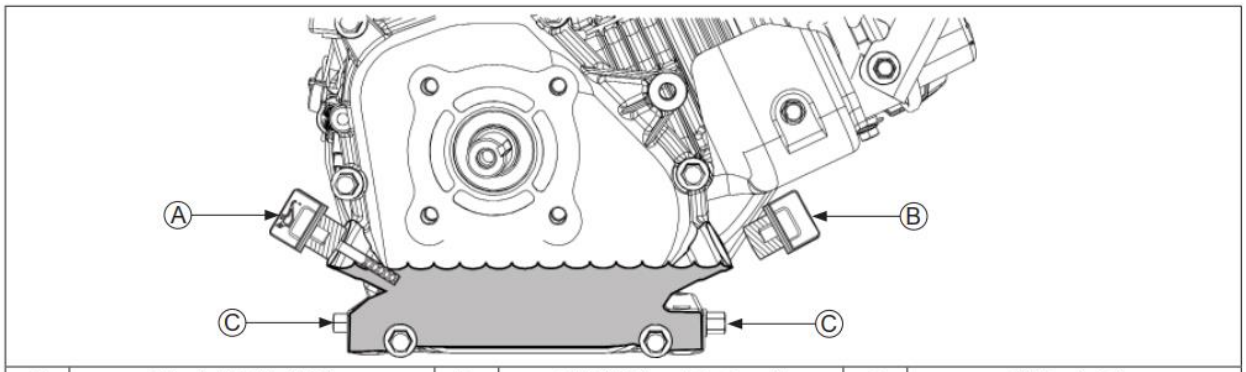
4 MAINTENANCE

Table A: Maintenance Schedule

Maintenance Procedure	Before Each Use	After Each Use	End of Day	Every 100 Hours	Every 200 hours
Check Engine Oil Level	X				
Check Compressor Oil Level	X				
Close compressor tank drain valves (both)	X				
Check all connections for all hoses, spray wands, belts, transfer kits.	X				
Check sealer consistency inside tank. Add water to compensate for evaporation.	X				
Use agitation cycle to circulate sealer for 2-3 minutes.	X				
Clean spray tips		X	X		
Open both compressor tank drain valves			X		
Flush lines with water			X		
Clean strainer			X		
Change compressor oil					X
Change engine oil, clean engine air filters				X	
Inspect manual agitation system: external gaskets and internal paddle mechanism including replaceable paddle gaskets				X	
Inspect and tighten any clamps, screws, or other fasteners				X	

4.1 Changing Engine Oil

Place the engine on a level surface and place a suitable container under the drain plug bolt



A	Dipstick/Oil Fill Plug	B	Oil Fill Plug (Optional)	C	Oil Drain Plug

1. Remove the oil filler cap
2. Remove the drain plug bolt and drain plug washer
3. Drain the oil into a suitable container

   Please dispose of used oil in a manner that is compatible with the environment. We suggest you take used oil in a sealed container to your local recycling center or service station for reclamation. Do not throw it in the trash, pour it on the ground, or pour it down a drain.

4. Install the drain plug bolt with a new drain plug washer and tighten it to the specified torque
   a. Torque 18 N·m (13 ft. lb.)
5. Fill the crankcase with new oil, up to the point of overflowing filler neck, or to the FULL line on the dipstick
   Do not add commercial additives to the oil
   Do not mix gasoline into the oil

6. After adding the oil, check the oil level on the dip stick.
7. Install and tighten the oil filler cap securely
8. Make sure there are no oil leaks

4.2 Spark Plug Maintenance

Engine is equipped with following spark plugs:

Gap	0.76 mm (0.030 in.)
Thread Size	14 mm
Reach	19.1 mm (3/4 in.)
Hex Size	15.9 mm (5/8 in.)

4.3 End of season maintenance

1. Drain as much sealant from the tank into long term storage containers.
   a. You can connect the recirculation hose to the storage tank and use the system to push sealant into the container
   b. or use gravity feed
2. Partially fill the tank with water 15-20% full
3. Recirculate into the storage tank until only water comes out of the hose

4. Switch to spray mode and spray into the storage container until you see water coming out of the spray wand
5. Reconnect the hoses back to the AirBoss
6. Run the pump in re-circulate for several minutes to remove as much residue from the recirculate hoses
7. Run the pump in spay mode for several minutes to remove as much residue from the spray hose and wand
8. Manually rotate the agitation handle several times to clean off the paddles
9. Drain all the water from the tank
10. Run the system in recirculate mode until water is no longer flowing
11. Run the system in spray mode until water is no longer flowing
12. Stop the engine
13. Disconnect and drain all the hoses, and spray wand.
14. Open the drain plug at the bottom of the filter canister
15. Let any water drain from filter canister
16. Replace the drain plug
17. Power wash both the inside and outside of the bulk tank.
18. Drain the tank
19. Remove spray tip from spray wand
20. Submerge spray tip(s) and the quick connect end of the spray wand in soapy water for several minutes.
21. Clean the tips and quick connect fitting with a **NYLON** bristle brush (not brass or other metal brush)
22. Perform an oil change
23. Fog & Stabilize engine:
    1. Add fuel stabilizer to the gas tank
    2. Run the engine for 2-3 minutes to circulate the stabilizer
    3. Turn off the engine
    4. Remove the air filter cover
    5. Start the engine
    6. Spray engine fogger into the air intake until you see heavy smoke and the engine stalls
       * If the engine does not stall on its own, turn the kill switch to off manually while spraying until the engine completely stops
    7. Re-install the air filter
    8. Remove the spark plug
    9. Pull the pull cord gently until the piston is near the bottom
    10. Spray engine fogging oil into the spark plug hole
    11. Turn the crank 2 full revolutions by pulling the pull cord gently this is to assure even coating on cylinder wall
    12. Replace the spark plug and spark plug wire
    13. If possible, store equipment out of weather in a shed or garage
        a. If this is not possible, cover it with a tarp
    14. Store spare sealant in a place where it will not freeze