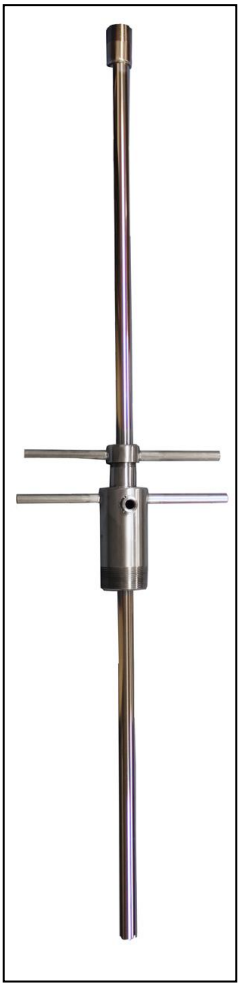
Air Operated Drum Dispenser



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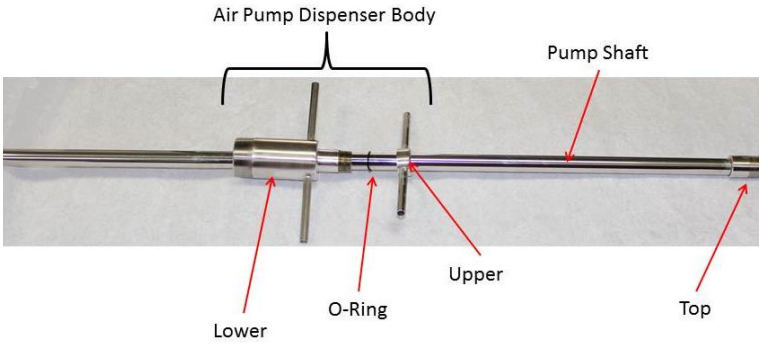
DESCRIPTION

The LEADER EVAPORATOR Air Operated Drum Dispenser is designed to aid in the transfer of maple syrup from storage drums. The drum dispenser is adjustable to allow pumping down to the bottom of the barrel or from levels above if there is concern for accumulated material in the barrel bottom.

EQUIPMENT DESCRIPTION

The unit operates by building pressure in the drum and forcing the syrup up the pump shaft.

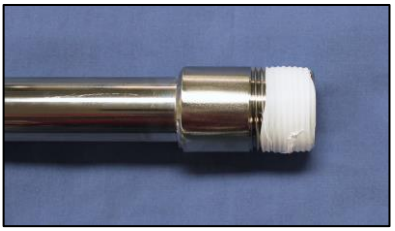


OPTIONAL SPARE PARTS AND SUPPLIES

ITEM	LEADER ORDER #	DESCRIPTION / PHOTO
Regulator Assembly	63074	
1” Stainless Steel Ball Valve	60106	
1” Quick Coupler B	47147	
1” Braided Hose	70285	
Air Pump O-Ring	70171	
1” Stainless Steel Street Elbow	72126	
1” Quick Coupler A	47146	
1” Adapter	47109	
1” Stainless Steel Band Clamp	60043	

SETUP OF THE DRUM DISPENSER

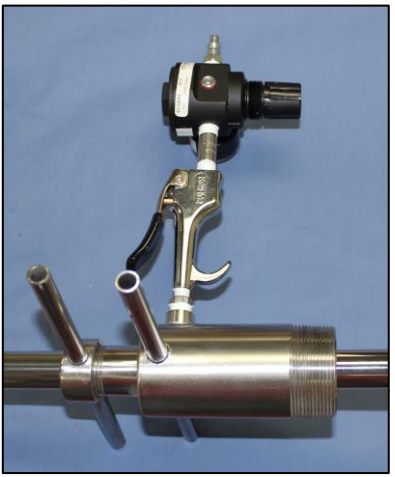
NOTE: In order to ensure control of air pressures involved, this document specifies the use of the air regulator assembly LEADER Order #: 63074. Air pressure in the drum must be controlled to a maximum of 15 psi (or less dependent on the type of drum in use) to minimize safety issues as the drum is pressurized. Use only the amount of pressure necessary to dispense syrup from the barrel.



1. Wrap Teflon tape around the threads of the coupler at the top of the pump shaft.

2. Thread a 1" quick coupler style A onto the coupler and tighten.

3. Teflon tape the exposed threaded end of the regulator assembly.



4. Thread the regulator assembly into the bottom part of the air pump dispenser body and tighten.

5. Teflon tape the threads of a 1” stainless steel street elbow, a 1” PVC adapter and a 1” quick coupler style B..

6. Thread the 1” stainless steel street elbow onto the threads of the 1” quick coupler style B and tighten.

7. Thread a 1” stainless steel ball valve onto the taped threads of the 1” stainless steel street elbow and tighten.

8. Thread the 1” PVC adapter into the stainless steel ball valve and tighten

9. Obtain a length of 1” ID food grade braided hose as required for the transfer operation. Slide one end of the braided hose over the 1” PVC adapter. Place a 1” stainless steel band clamp over the hose and adapter and tighten.
10. During the first use check all fittings to ensure there are no leaks. Repair as necessary.

OPERATING THE DRUM DISPENSER

1. Remove the bung cover from the drum to be used.
2. Loosen the top section of the air dispenser body so the pump shaft moves easily.
3. Lower the pump shaft into the drum. Thread the bottom section of the air dispenser body into the drum and tighten.
4. Adjust the pump shaft:
    a. If the syrup does not contain unwanted material settled to the bottom of the drum, the pump shaft can be lowered to the bottom of the drum
    b. If the syrup contains unwanted sediment in the bottom of the drum, raise the pump shaft up high enough to prevent pumping the unwanted material.
5. Tighten the top section of the air dispenser body down onto the bottom section. This will hold the pump shaft in place.

6. Open the locks on the quick connector B and position over the quick connector on the top of the pump shaft. Lock the quick connectors together.

7. Connect the compressed air hose to the regulator assembly.
8. Place the outlet end of the braided hose into the container to receive the syrup.
9. Open the stainless steel ball valve on the outlet.
10. Start the transfer by pressing the handle of the air gun of the regulator assembly. Verify the air regulator is reading 15 psi or less.
11. Continue transferring using the air gun of the regulator assembly until a "gurgling" sound is heard. Immediately close the stainless steel ball valve and release the air gun.
12. Disconnect the compressed air hose from the regulator assembly and bleed the air pressure from the drum by pressing the handle of the air gun of the regulator assembly.

MAINTENANCE

Use only non-chlorinated water when cleaning the unit.

AFTER EACH USE:

Cleaning The Unit

1. Remove the outlet hose assembly from the top of the pump by unlocking quick coupler style B.

2. Remove the pump from the drum by unscrewing from the bung hole.
3. Rinse out the outlet hose assembly and the pump shaft with hot non-chlorinated water.

PERIODIC

1. Inspect the tubing for wear or damage. Replace as necessary.
2. Inspect all the fittings for damage or leakage. Replace or repair as necessary.
3. If pump won't seal, replace the O-ring (Leader Order #: 70171).

END OF SEASON

1. Clean the unit as described in the Cleaning the Unit section.
2. Inspect all the hoses for wear or damage. Replace as necessary.
3. Inspect the fittings for damage or leakage. Replace or repair as necessary.
4. Carefully inspect the regulator assembly ensuring it is functioning and remains set to 15 psi or less.
5. Place the pump assembly into a clean container and protect it from dirt and pests.

FEEDBACK

Please use the following e-mail address (feedback@leaderevaporator.com) to suggest improvements or enter comments on this document. Reference the document title in your note. You may also contact LEADER Customer Service.