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REVOLUTION™

Item No. 81300C Revolution Aeration System



OWNER'S MANUAL

Application, Installation, Start up, and Operation

Manufactured by:

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Revolution™ Description

The Revolution™ is a deluxe air injection and release system with a bypass valve for ease of service. It is built around a PVC head incorporating a built-in micronizer (nozzle and venturi), internal air release float, and instrumentation, all in one package. The pressure gauges allow the installer to make adjustments to suit the best air draw. The bypass valve allows for easy service or replacement.



Revolution™ Application

1. The Revolution™ is designed to work with submersible well pump installations operated by a pressure switch and pressure tank.
2. The Revolution™ is not designed to work with jet pump systems or constant pressure systems
3. The Revolution™ should be installed in accordance with applicable state and local plumbing codes.



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FIGURE 1



Revolution™ Installation Instructions

1. Install the Revolution™ between the submersible well pump and pressure tank. Refer to figure 1.
2. Turn off power to well pump and drain the well piping to the pressure tank.
3. Pipe the 1" inlet of the bypass valve directly to the incoming well line from submersible pump.
4. Pipe the 1" outlet of the bypass valve directly to the pressure tank.
5. The air release connection, the 3/8" John Guest fitting under the bypass, can be piped to a desired location. This may intermittently drip as it releases the excess air. Refer to figure 2. The inlet air connection, the 1/4" MPT fitting, can be piped to a desired location. Refer to figure 3.



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FIGURE 2



Revolution™ Start-up Instructions

1. With a screw driver, manually unscrew the brass bypass screw counterclockwise to open the bypass port. Refer to figure 3. This will keep initial inlet pressure to a minimum. **Do not exceed 100 PSI inlet pressure.** The inlet pressure gauge is the bottom gauge. Refer to figure 2.
1. Turn on power to well pump and manually adjust brass bypass screw to the desired air draw. Refer to air draw charts below.
2. Shine a light behind mineral tank to confirm water level is consistently 14 to 18" below top of tank.

Revolution™ Operation Notes

1. When the well pump is filling the Revolution™ the nozzle and venturi draws air into the mineral tank as air draw charts indicate.
2. As the air is drawn into the mineral tank, the water level drops to approximately 14" below top of mineral tank and the air release float assembly opens allowing excess air to be released through the air release connection. Refer to figure 2.
3. As the air is released from the mineral tank the water level raises to approximately 10" below the top of the mineral tank and the air release float assembly closes.



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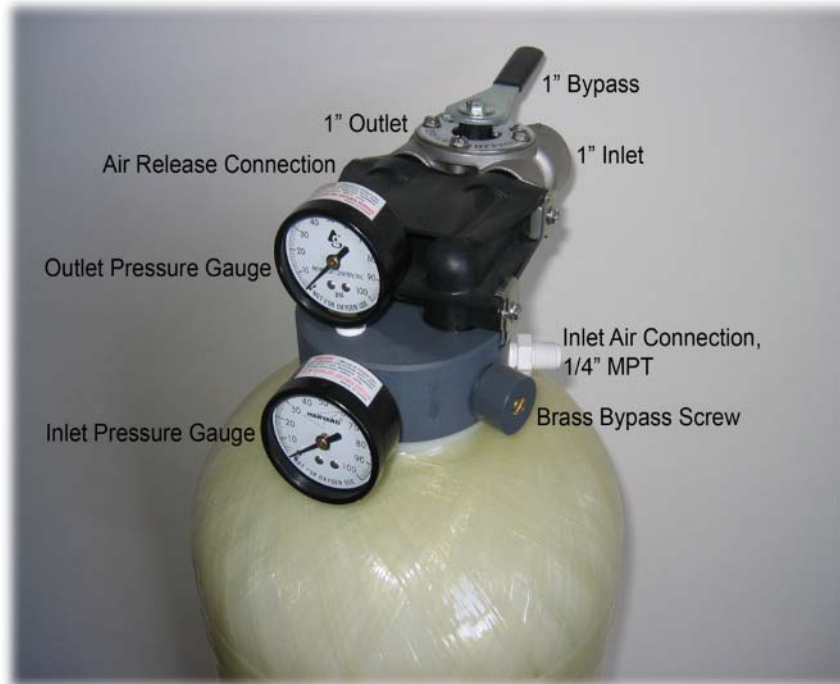


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FIGURE 3



Revolution™ Air Draw Charts

5 GPM flow		
CFH air draw	Inlet Pressure Gauge	Outlet Pressure Gauge
6.5	80	30
4.5	80	40
2.5	80	50
Stops draw	80	52



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7.5 GPM flow		
CFH air draw	Inlet Pressure Gauge	Outlet Pressure Gauge
6.5	80	30
4.0	80	40
.75	80	50
Stops draw	80	53

10 GPM flow		
CFH air draw	Inlet Pressure Gauge	Outlet Pressure Gauge
12.5	80	30
11	80	40
8	80	50
Stops draw	80	52

15 GPM flow		
CFH air draw	Inlet Pressure Gauge	Outlet Pressure Gauge
9	80	30
6	80	40
1	80	50
Stops draw	80	54