

Professional Water Systems, Inc.



AIRaider™ 433-S Series

The "S" Stands for Submersible Pump.

The Best Aeration System for Radon in Water Keeps Getting Better!

The 433-S Series takes the AIRaider 433's nearly 20 years of proven effectiveness and dependability and adds the benefits of a built-in submersible pump.

- ✓ **Easier Installation**
No separate pump and pipes to install.
- ✓ **Smaller Footprint**
Unobtrusive, compact design.
- ✓ **Easy Maintenance**
Fully accessible, for easy cleaning from the top.
- ✓ **Quieter Operation**
The built-in pump reduces audible level of pump noise.
- ✓ **No Sweating**
The double-wall foam-insulated tank will not sweat.
- ✓ **Hands-Free Startup**
When switch is on, the S50X model will start automatically as needed.
- ✓ **Lead Free**
Meets SDWA Reduction of Lead in Drinking Water Act requirements.



Tank Features Include:

Attractive look

All mechanicals are on one side for cleaner aesthetics.

Versatile electrical connections

The electrical panel can be mounted on either side to allow left or right connections.

Internal tank design

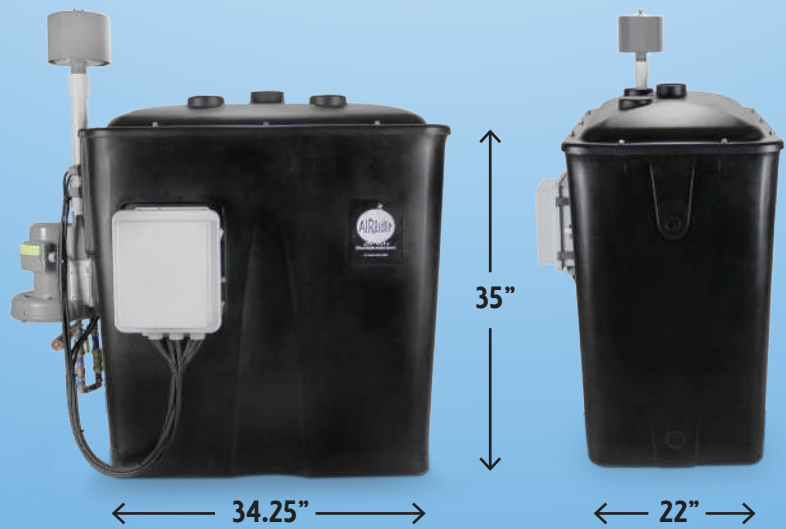
Removable baffles improve already easy cleaning and maintenance of the 433 series.

Lid sealing method

Molded-in brass t-nuts and stainless steel machine screws provide a tight, mechanically positive seal.



AlRaider™ 433-S Series



MODEL*	P/N	SYSTEM VOLTAGE	BLOWER	PUMP	PLUMBING CONNECTION	FLOW RATE ¹	PSI RANGE ²	RADON REDUCTION ⁴	TANK DIMENSIONS
433-S50	28360	115V UL Listed Control Panel	0.5hp Regenerative Blower 5.0 Max Amp	½ hp Submersible 10.6 Max Amp	¾" Shark Bite	up to 16 GPM ³ @40PSI	40-60	up to 99+%	35"H x 34.25"W x 22"L
433-S50X	28361	115V UL Listed Control Panel	0.5hp Regenerative Blower 5.0 Max Amp	½ hp Submersible 10.6 Max Amp	¾" Shark Bite	up to 16 GPM ³ @40PSI	40-60	up to 99+%	35"H x 34.25"W x 22"L

* 2 year limited warranty. Inquire for details.

1 Flow rate out of system must be balanced to be less than flow rate into system.

2 Range may vary slightly

3 GPM dependent upon repressurization selection. Higher flow rates will require proper sizing. Please call for sizing and technical assistance.

4 Site-specific characteristics and system implementation may affect performance.

PERFORMANCE & TECHNICAL INFORMATION

Blower: Regenerative Blower 3500 RPM 0.5HP 600 Watt

Pump: Integral Stainless Steel Submersible Repressurization Pump

Pump Controller: Pressure Regulator with 40/60 Pressure Outlet to Regulate Pump Pressure, Flow and to Reduce On/Off Cycling.
(Pressure Regulator Not Included in 433-S50X).

Solenoid Valves: Normally Closed Metal Housed Class F120 VAC Buna-N Seal Brass Valve Body ¾" NPT

Float Switches: Three Floats: Middle Float to Turn System On/Off; Upper Float Guards against Overflow; Lower Float Protects Pump from Potential "Run Dry" Condition

Electrical Requirements: Dedicated Circuit

433-S50 115VAC: Use a 20amp breaker and, at minimum, 12/2 with ground electrical wire

433-S50X 115VAC: Use a 20amp breaker and, at minimum, 12/2 with ground electrical wire

Radon Reduction: Up to 99+%

Water Inlet, Outlet and Bladder/Repressurization Tank Connections:

¾" Quick-Connect Shark Bite to Suit ¾" Pex or Copper

Vent Outlet: 3" for use with 2" or 3" PVC Vent Pipe (Supplied by Installer)

Air Inlet: Via 10 Micron Filter

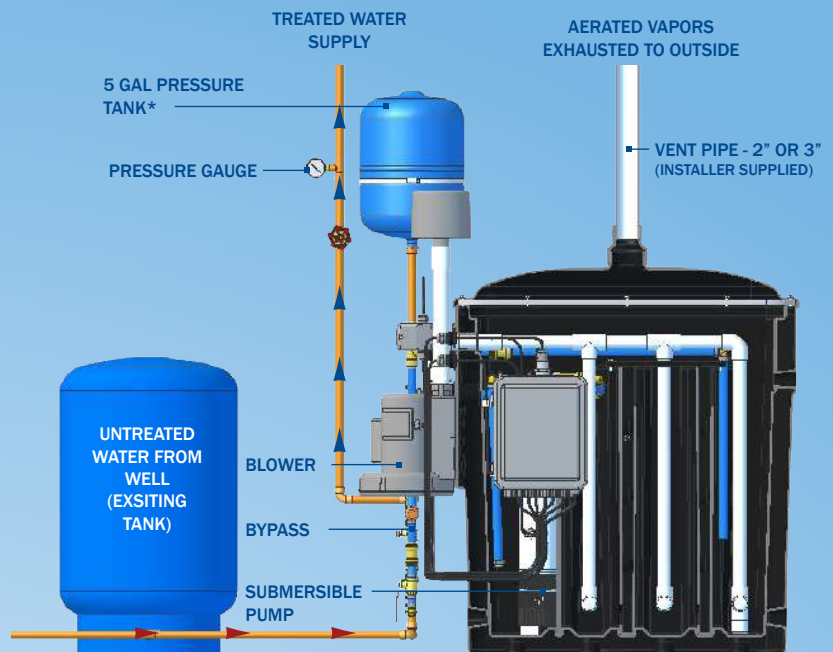
Tank: Double Wall Insulated NSF Rated for Potable Water

Tank Operating Capacity: Up to 42 Gallons (Total Internal Volume 65 gallons)

Repressurization Tank*: Minimum 5 Gallon Tank for S50; Minimum 20 Gallon Tank Required for S50X.

* Sold Separately

TYPICAL SYSTEM INSTALLATION



*SOLD SEPARATELY (20 GAL TANK NEEDED FOR 433-S50X)

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RadonAway
The world's leading radon fan manufacturer