

# 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 <sup>1</sup>	PSI RANGE <sup>2</sup>	RADON REDUCTION <sup>4</sup>	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 <sup>3</sup> @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 <sup>3</sup> @40PSI	40-60	up to 99+%	35"H x 34.25"W x 22"L

\* 2 year limited warranty. Inquire for details.

<sup>1</sup> Flow rate out of system must be balanced to be less than flow rate into system.

<sup>2</sup> Range may vary slightly

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

<sup>4</sup> 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

**Floater Switches:** Three Floats: Middle Floater to Turn System On/Off; Upper Floater Guards against Overflow; Lower Floater 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

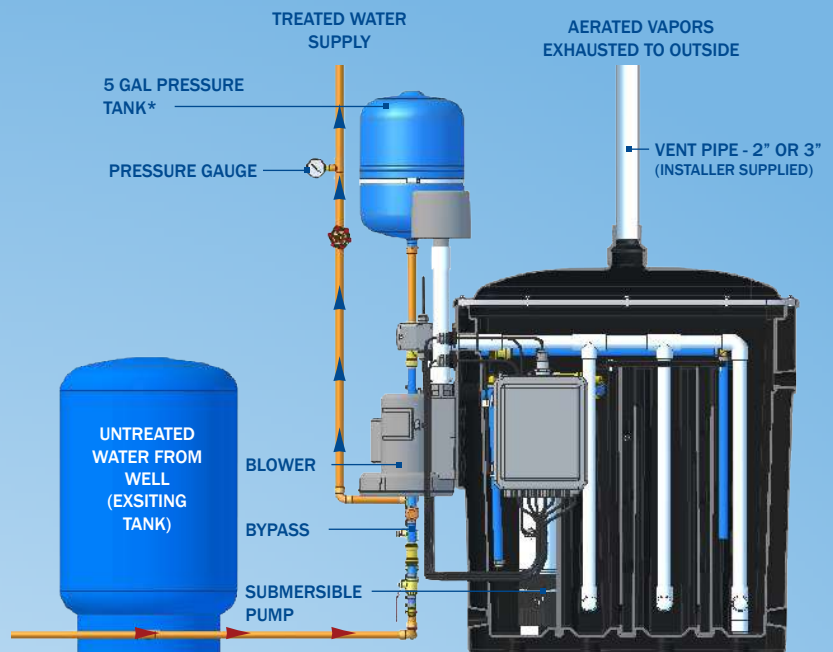
**Tank:** Double Wall Insulated NSF Rated for Potable Water

**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)

Professional Water Systems, Inc.  
963 Ethan Allen Highway  
Ridgefield, CT 06877  
1-800-432-6897

**RadonAway**  
The world's leading radon fan manufacturer