The 433-S Series takes the AlRaider 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.
### 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

* 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.

### TYPICAL SYSTEM INSTALLATION

**TREATED WATER SUPPLY**

**AERATED VAPORS EXHAUSTED TO OUTSIDE**

**5 GAL PRESSURE TANK**

**PRESSURE GAUGE**

**VENT PIPE - 2” OR 3” (INSTALLER SUPPLIED)**

**UNTREATED WATER FROM WELL (EXISTING TANK)**

**BLOWER**

**SUBMERSIBLE PUMP**

**BYPASS**

* Sold Separately (20 Gal Tank Needed for 433-S50X)