INSTALLATION GUIDE

SMALL COMMERCIAL APPLICATIONS

IMPORTANT

Confirm system sizing, equipment placement and grounding requirements for the specific building before installation.

Plumber's Choice Water Systems | Technical Support: 615-866-6100 ext. 3

1. INSTALLATION REQUIREMENTS

SAFETY

Keep the unit at least 2 ft. from pacemakers or implanted medical devices. Use a licensed electrician when proper grounding cannot be verified.

Package Contents

- Flow-Tech Elite unit
- Four clamps
- One jumper wire

Recommended Tools

- Outlet ground tester or multimeter
- Flow-Tech signal tester
- Screwdriver and wire strippers
- Mounting hardware appropriate for the wall surface

Site Requirements

- A properly grounded electrical system.
- A second grounding point through conductive plumbing or an approved alternate grounding method.
- Accessible conductive piping at the selected installation point. For PEX or other plastic piping, connect at available copper or conductive equipment nipples.
- A properly grounded electrical outlet near the unit.
- For electric water heaters, low-watt-density heating elements are required.

Commercial Planning Notes

System sizing	Confirm the correct Elite configuration for pipe size, equipment load, number of heaters and plumbing layout.
Placement	Install near the primary water-heating or mechanical equipment whenever practical.
Multiple loops	Facilities with multiple heaters, recirculation loops, wings or isolated plumbing zones may require additional planning or units.

2. INSTALLATION

1

SELECT THE INSTALLATION POINT

Install the unit near the primary water heater, boiler or mechanical equipment serving the protected plumbing network.

2

MOUNT THE UNIT

Secure the Flow-Tech Elite unit to the wall using two appropriate fasteners. Keep the unit visible and accessible for future inspection.

3

CONNECT THE COLD-SIDE SIGNAL LEAD

Attach one clamp to conductive piping on the cold-water supply. Connect the yellow signal wire to this clamp. Cut excess wire if needed - do not coil it.

4

CONNECT THE HOT-SIDE JUMPER

Attach a second clamp to conductive piping on the hot-water outlet. Use the supplied jumper wire between the cold-side connection and hot-side clamp. Strip wire ends to ensure clean conductive contact.

5

VERIFY GROUNDING

Confirm the outlet is properly grounded with an outlet tester or multimeter. Confirm the plumbing system or approved alternate provides the second grounding point.

6

CONNECT POWER

Plug the unit into the grounded outlet. Do not coil the power cord or secure it directly to piping. Fold excess cord accordion-style and loosely secure it.

7

ALLOW STARTUP

The unit will complete a self-diagnostic startup lasting approximately 80 seconds. If no error message appears, proceed to signal testing.

DO NOT: coil the signal wire, coil the power cord, install on heavily corroded galvanized piping, or proceed when grounding cannot be confirmed.

3. SIGNAL TESTING & STARTUP

1. Hold the Flow-Tech signal tester against the conductive pipe several inches upstream of the cold-side clamp. Confirm the tester illuminates.

2. Test several inches downstream of the hot-side clamp. Confirm the tester illuminates.

3. For plastic or non-conductive plumbing, test at the nearest metal fixture, angle stop or conductive equipment connection.

4. When signal is detected on both sides, the installation is complete. Signal strength may vary throughout large or plastic plumbing networks.

Quick Troubleshooting

No signal detected	Confirm conductive test location, grounded outlet, clean clamp contact and that no wire is coiled.
Low current / unstable reading	Recheck grounding and the second ground point. Plastic systems may require technical support.
Short circuit or current changed	Inspect signal wire routing and connections. Move the signal wire away from ground straps or wires.
Screen not illuminated	Confirm power and outlet operation. Contact technical support if the display remains off.

Post-Installation

- Confirm that facility staff know where the unit is located and that the display should remain illuminated.
- Existing scale may break loose during the initial descaling period. Inspect strainers, aerators, valves and equipment screens as needed.
- Schedule a 90-120 day follow-up to confirm operation and remove loosened scale from water-heating equipment where appropriate.
- Flow-Tech Elite helps control scale; it does not remove hardness minerals or eliminate evaporative spotting.

NEED INSTALLATION OR SIZING SUPPORT?

Call 615-866-6100 ext. 3 before completing a questionable installation.