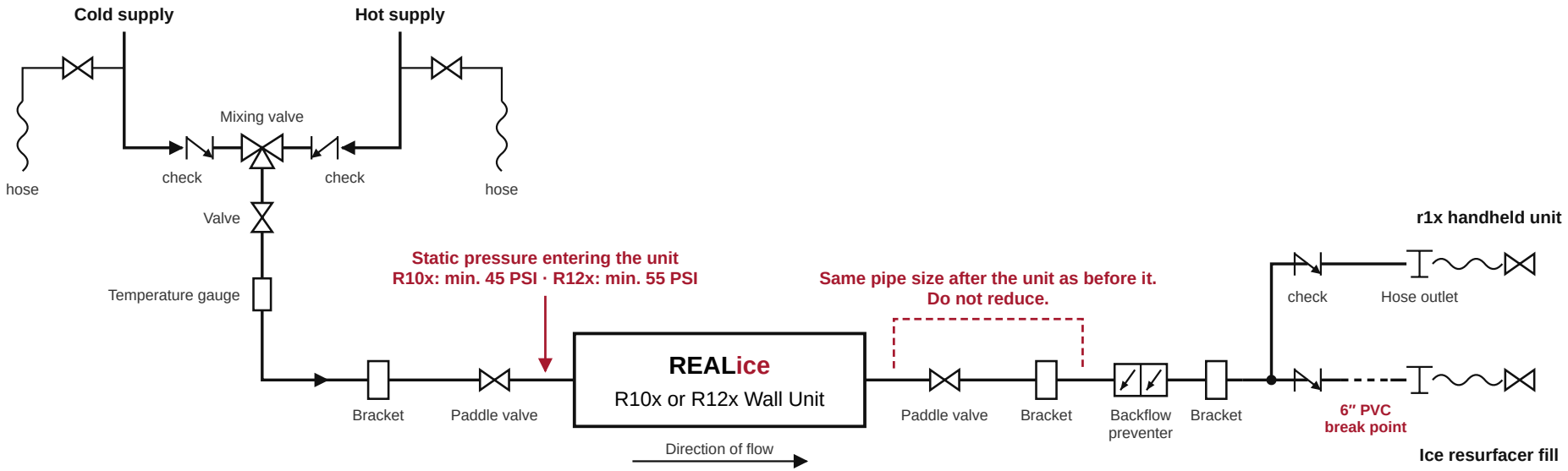
REALice Wall Unit Installation Diagram

R10x and R12x
Version 7 · October 2026



REQUIREMENTS BY MODEL

	R10x	R12x
Minimum static pressure entering the unit	**45 PSI**	**55 PSI**
Unit connection	1¼″	2″
Pipe after the unit	Same size as the pipe before the unit	

If the minimum static pressure cannot be achieved, a booster pump must be installed.

IMPORTANT NOTES

- This schematic is for illustration purposes only.
- All national safety and local plumbing codes must be followed during installation.
- Depending on your local plumbing code, the backflow preventer (RP valve) may need to be moved upstream of the REALice system.

INSTALLATION NOTES

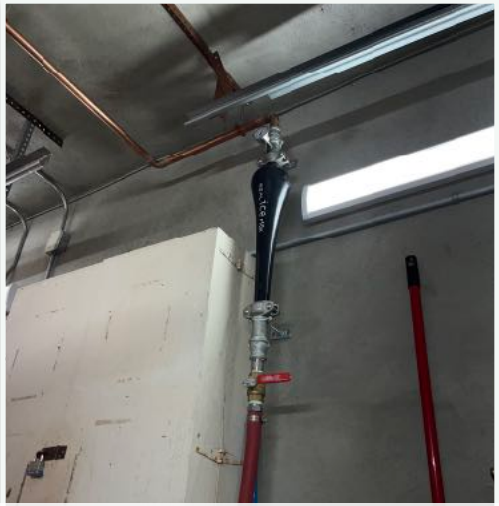
1. **Pipe size.** Keep the pipe after the REALice wall unit the same size as the pipe going in. A reduced pipe after the unit restricts the flow and the water will not be treated properly.
2. **Paddle valves.** Install paddle valves both before and after the REALice wall unit. They allow the unit to be fully drained and provide accurate control of static pressure.
3. **Draining the wall unit.** The REALice wall unit must be drained and left empty between floods. This prevents water from freezing inside the unit, which has occurred in the past.
4. **PVC break point.** Install a 6″ PVC break point between the fill hose and the supply line. It protects the REALice wall unit and the piping if the fill hose is left in the ice resurfacer tank.
5. **Security brackets.** Secure the piping to the wall both before and after the REALice wall unit.
6. **Mixing valve.** A thermostatic mixing valve or ball valves on the cold and hot supply are recommended, but not mandatory.

PLUMBING LEGEND

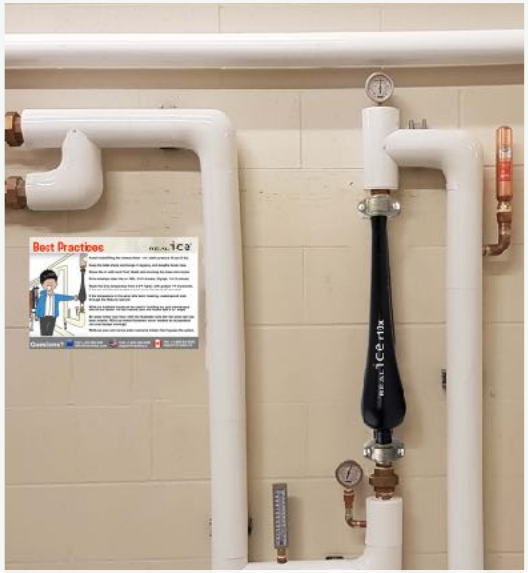
	Valve
	Check valve
	Thermostatic mixing valve or ball valves
T	Temperature gauge
	Security bracket
	Backflow prevention
	Hose outlet
	Flexible hose
	PVC break point

REALice system installation examples for R10x and R12x

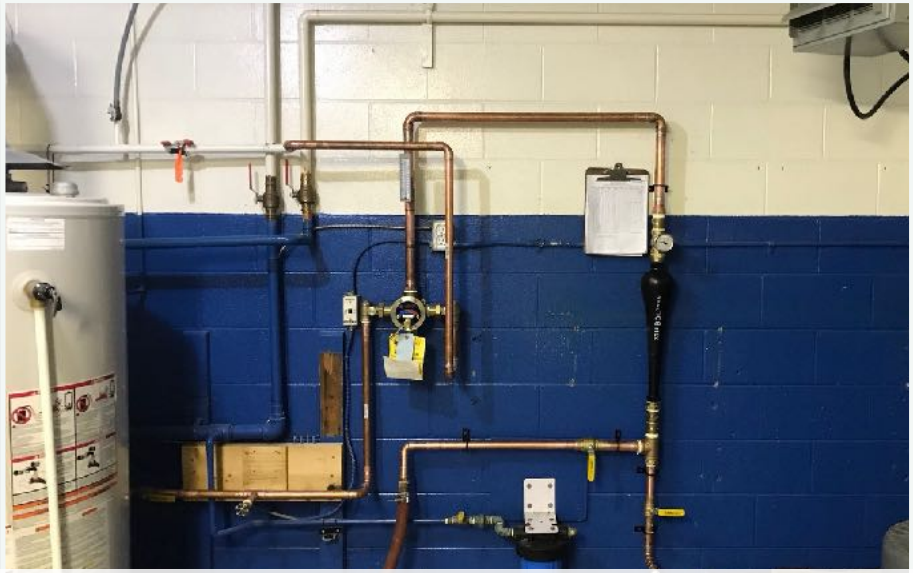
R10x with 1 ¼” brass (male) adaptors installed horizontally.
Cold and hot water supply controlled with ball valves.



R10x with 1 ¼” Victaulic (male) adaptors
installed vertically with added plastic piping after the system, as a pre-determined breaking point.



R10x with 1 ¼” Victaulic (male) adaptors
installed vertically, with water flowing upwards.



R10x with 1 ¼” brass (male) adaptors
installed vertically with Leonard TM-80-AT mixing valve.

R12x installed vertically, water flowing upwards with 2” Victaulic (male) adaptors and Leonard TM-150-AT mixing valve.