

For Residential Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series OFRES

Whole House OneFlow® Residential Anti-Scale Systems

Connection Sizes: 1" (25mm) MNPT

Flow Rates: Up to 16 gpm (60 lpm)

OneFlow® Residential Anti-Scale Systems provide a home with protection from internal hardness related scale formation on plumbing surfaces. Water using appliances and plumbing fixtures also enjoy a longer lifespan because hardness scale build up on internal parts no longer occurs. These systems are specifically designed for residential applications. OneFlow® Residential systems should be installed at the point-of-entry to a home to treat both the hot and the cold water.

OneFlow® Residential systems prevent scale by transforming dissolved hardness minerals into harmless, inactive microscopic crystal particles. These crystals stay suspended in the water and are passed to drain, thereby having a greatly reduced ability to react negatively like dissolved hardness does. These systems require very little maintenance, no backwashing, no salt, and no electricity. Typical hardness problems, especially build-up of scale in pipes, water heaters, boilers, fixtures, and appliances are no longer a concern.

OneFlow® Residential systems are not water softeners or chemical additives (like anti-scalants or sequestrants). They are scale prevention devices with proven third party laboratory test data and years of successful applications. OneFlow® Residential systems are the one water treatment device that effectively provides scale protection in the home and are a great salt-free alternative to water softening (ion exchange) or scale sequestering chemicals.

⚠ WARNING

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.



OFRES



One Flow media is certified by the Water Quality Association (WQA) to NSF/ANSI Standards 42, 61, and 372.

Features

- Chemical free scale prevention and protection – converts hardness minerals to harmless, inactive microscopic crystals making OneFlow® an effective alternative technology to a water softener for the prevention of scale due to water hardness
- Virtually maintenance free – No salt bags or other chemicals to constantly add
- No control valve, no electricity and no wastewater
- Uses environmentally friendly “green” technology
- Improves efficiency of all water using appliances – both hot† and cold
- Simple sizing & installation
- Perfect system for towns or communities where water softeners are banned or restricted
- OneFlow® - Residential systems do not remove minerals or add sodium to the water supply
- OneFlow® - Residential systems can be installed as a pre-treatment to reverse osmosis (OneFlow® should be the last stage in treatment unless a point-of-use system is being used downstream.)
- Systems include a bypass valve for a simplified installation

NOTICE

†Always install OneFlow® Residential systems before the water heating device.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

Feed Water Chemistry Requirements

⚠ WARNING

****Copper**

Pursuant to the EPA drinking water standards, the copper concentration permitted is up to 1.3 ppm. Typically originating from new copper plumbing, high levels of copper can foul OneFlow media. For applications with copper concentration greater than 1.3 ppm, please contact Watts Pure Water Technical Service at 1-800-224-1299. To further minimize any problem with excess copper, avoid applying excessive flux on the inner surfaces of the pipe and use a low-corrosivity water soluble flux listed under the ASTM B813 standard.

NOTICE

*****Silica**

OneFlow® media does not reduce silica scaling. While silica tends to have a less significant effect on scale formation than other minerals, it can act as a binder that makes water spots and scale residue outside the plumbing system difficult to remove. This 20 ppm limitation is for aesthetic purposes.

pH	6.5-8.5
Hardness (maximum)	25 grains (427 ppm CaCO ₃)
Water Pressure	15 psi to 100 psi (1.03 bar to 6.9 bar)
Temperature	40° F to 100° F (5°C to 38°C)
Free Chlorine	<2 ppm
Iron (maximum)	0.3 ppm*
Manganese (maximum)	0.05 ppm*
Copper	1.3 ppm**††
Oil & H ₂ S	Must be Removed Prior to OneFlow
Phosphates	Must be Removed Prior to OneFlow
Silica (maximum)	20 ppm***
TDS	1500 mg/l****

NOTICE

††These systems prevent hardness related scale formation inside the plumbing system of the home at influent hardness levels of 25 grains per gallon of calcium carbonate and less. Due to variances in water chemistry certain aesthetic conditions external of the plumbing system may not be attained. Water known to have heavy loads of dirt and debris should be prefiltered. Recommended housing kit PWHIB10FF and filter cartridge PWPL10FFM20. Not for use on closed loop systems.

****All other contaminants must meet the requirements of the USEPA Safe Drinking Water Act. Specific Mineral and Metal MCL's, identified in Watts published Feed Water Chemistry Requirements, supersedes the USEPA SDWA.

MODEL	CONNECTION SIZE	MINERAL TANK SIZE	MEDIA LITERS	MAXIMUM SERVICE FLOW (GPM)*	PRESSURE DROP (PSI)**	FLOOR SPACE (L X W X H)
OFRES-0835	1" MNPT	8" X 35"	2	8	<5	13" X 9" X 40"
OFRES-0935	1" MNPT	9" X 35"	3	12	<5	13.5" X 10" X 40"
OFRES-1035	1" MNPT	10" X 35"	4	16	<5	14" X 11" X 40"

*Exceeding maximum flow can reduce effectiveness and void warranty.

**Pressure drop at maximum service flow rate.

Replacement Media

OFRES-0835RM Media should be replaced every 3 years

OFRES-0935RM Media should be replaced every 3 years

OFRES-1035RM Media should be replaced every 3 years

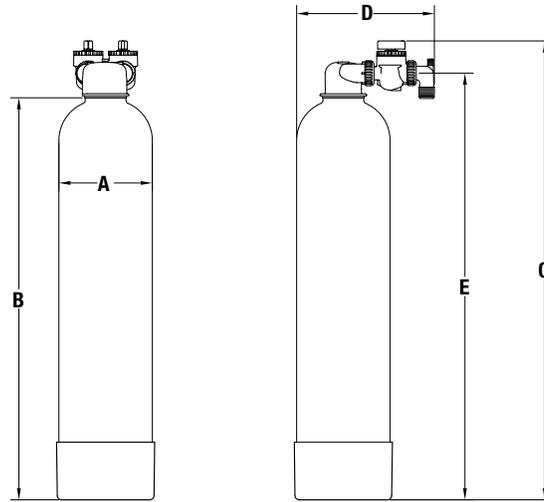
NOTICE

Maximum service flow rate is for intermittent use only and is not to be interpreted as continuous service flow rate capability. These systems are designed to treat the domestic water used in a single family dwelling. For higher volume applications please contact your Watts representative.

Standards

Independent scientific testing has confirmed Template Assisted Crystallization (TAC) technology provides scale reduction of over 95+%. Testing was conducted under protocol based on DVGW W512 test to access control of scale formation.

Dimensions – Weights



PART NO.	TANK	IN	OUT	OVERALL HEIGHT	OVERALL DEPTH	SHIPPING WEIGHT	
	(A&B)	(E)	(E)	(C)	(D)	lbs.	kgs.
OFRES-0835	8" x 35"	37"	37"	40"	12"	19	9
OFRES-0935	9" x 35"	37"	37"	40"	12.5"	23	10
OFRES-1035	10" x 35"	37"	37"	40"	13"	25	11

The overall height and the height of the fitting varies due to material variations and assembly tolerances. Please allow additional clearances above the tank for making connections.



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