Engineering Specification

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

Series PWFLAIO-IRON

Locksmith® Residential Filox® Iron, Hydrogen Sulfide and Manganese Reduction Systems

Connection Sizes: 1 1/4"

Flow Rates: Up to 12 gpm (45 lpm)

The Watts Pure Water Locksmith® Series PWFLAIO-IRON Filox® AIO residential filtration system is a proven backwashing media solution for reducing iron, hydrogen sulfide and manganese in your water. Designed for reliability and performance, it combines air injection oxidation (AIO) with advanced media filtration to deliver consistent water quality improvement.

The Watts-exclusive Locksmith controller integrates AIO functionality into a single, highly capable control platform. It supports 1-1/4" single, Twin alternating, and multi-tank progressive flow softeners and filters without requiring additional controllers. The system manages all operational functions, including air draw and air volume control, and can operate external devices for flexible system configurations across a wide range of applications.

Engineered for residential use, these systems support flow rates up to 12 gpm (45 lpm) with media bed sizes ranging from 1 to 2 cubic feet. Higher flow demands can be met by installing multiple units in parallel. Captured contaminants are removed through automatic, programmable backwashing cycles that clean the media and return the system to service without manual intervention.

Filox media provides a chemical-free method for treating red staining iron, hydrogen sulfide odors (rotten egg smell), and black staining manganese. Using AIO technology, oxygen is introduced into the water to oxidize contaminants, which are then captured by the catalytic Filox media. With an 80% or greater manganese dioxide content, Filox delivers industry-leading oxidation efficiency and high flow capacity per cubic foot compared to other iron reduction medias.

⚠ 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.

WATTS® pure water



PWFLAIO-IRON

Features and Benefits

- No oxidizing chemical needed for regeneration
- Media performance and efficiency improved through AIO process
- Higher flow rates with smaller system space requirement than competing models
- No bad tastes, odors or staining caused by iron, hydrogen sulfide or manganese
- Watts Locksmith proprietary electronic controller allows user friendly programmable function for application specific required control
- Fully adjustable backwash and flush cycles

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.

WATTS®

Operating Parameters

Water Pressure . . . . . 30 psi to 80 psi (205 kPa to 5.5 bar)

Temperature . . . . . 34 - 110°F (1 - 43°C)

Operating Ambient Temperature . . . 34° to 120°F (1° to 52°C)

Power Supply Input Voltage . . . . . 100-120 VAC

Power Supply Input Frequency . . . . 50/60 Hz

Power Supply Output Voltage . . . . . 15 VDC

Power Supply Output Current . . . . . 500 mA (per control valve)

pH. . . . . 6.56 to 9

H2S. . . . . Up to 3 ppm

Iron . . . . . Up to 10 ppm

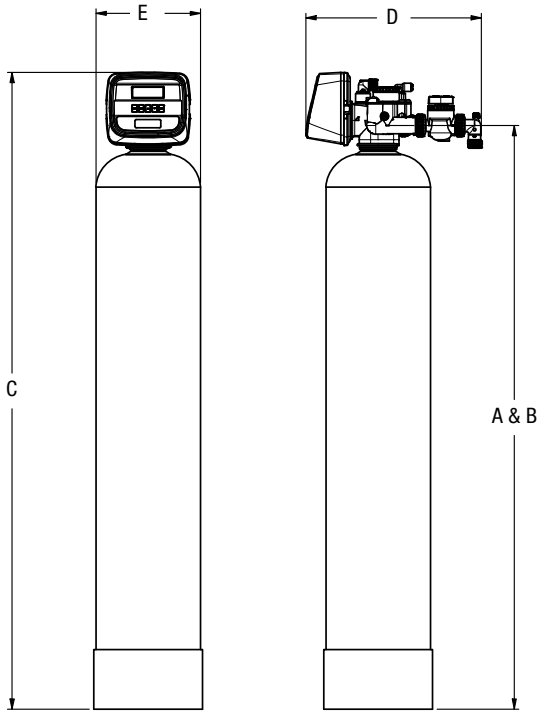
Manganese . . . . . Up to 5 ppm

Water known to have heavy loads of dirt and debris may require pre-filtration prior to the water filtration system.

*Due to the presence of air in the media tank the maximum operating pressure of the system is 80 psi. To prevent exceeding the maximum of 80 psi, a pressure regulator is required on this system or warranty is voided.

For all other guideline information please contact your Watts representative.

Series PWFLAIO-IRON



Dimensions & Weights

Series PWFLAIO-IRON

Call customer service (800-659-8400) if you need assistance with technical details.

MODEL NO.	DIMENSIONS										WEIGHT	
	A		B		C		D		E			
	in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lb*	*kg*
PWFLAIO125IRON1	50 1/2	1283	50 1/2	1283	55 1/2	1410	11 3/4	298	9 1/2	241	167	76
PWFLAIO125IRON15	56 1/2	1435	56 1/2	1435	61 3/4	1568	12 1/4	311	10 1/2	267	235	107
PWFLAIO125IRON2	55	1397	55	1397	60	1524	13 1/4	337	12 1/2	318	318	144

Specification and Ordering Information

MODEL NO.	ORDERING CODE	TANK SIZE	PIPE SIZE	MEDIA (CU FT)	PEAK SERVICE FLOW (GPM)*	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT. (LBS.)
PWFLAIO125IRON1	7101345	9x48	1 1/4	1	6	7.5	12" x 10" x 56"	167
PWFLAIO125IRON15	7101346	10x54	1 1/4	1.5	9	10	12" x 11" x 62"	235
PWFLAIO125IRON2	7101347	12x52	1 1/4	2	12	15	13" x 13" x 60"	318

NOTICE

Flow rates, dimensions, and capacities are per tank. Pipe size, tank size, and space requirements are in inches. Backwash flow rate may vary depending on temperature changes or specific bed expansion requirements.

NOTICE

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

USA: T: (800) 659-8400 • Watts.com/PureWater
Canada: T: (905) 332-4090 • Watts.ca/PureWater
Latin America: T: (52) 55-4122-0138 • Watts.com/PureWater

© 2026 Watts