Engineering Specification

Job Name _____ Contractor _____

Job Location _____ Approval _____

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

Approval _____ Representative _____

Series FLL-100

Locksmith® Residential Filox® Filtration Systems

Connection Sizes: 1"

Flow Rates: Up to 24 gpm (91 lpm)

Watts Locksmith® Series FLL Filox® filtration systems are time tested, highly effective backwashing media filtration systems for the reduction of iron, manganese and hydrogen sulfide from water.

These systems use the exclusive Watts Locksmith® controller, a single integrated control board capable to support external device operation, enabling flexible system configurations to meet a wide range of application needs.

These systems are designed for residential applications with flow rates up to 24 gpm (91 lpm) with media bed sizes ranging from 1 to 4 cubic feet in size. If higher flow rates are required, multiple units can be installed in parallel. The media bed is cleaned of captured sediment by periodic backwashing and flushing. This cleaning cycle is time clock demand initiated and can be programmed to occur at any time that is convenient for the user. All steps of the cleaning cycle as well as returning to service are fully automatic and do not require manual actuation.

Filox media filtration systems are a unique, chemical free, approach to reducing red staining iron, rotten egg smelling hydrogen sulfide, and black staining manganese in your water. These systems utilize the natural dissolved oxygen (DO) in the water as oxidation agents. Additional oxidizers such as chlorine can also be introduced when DO is lacking. Together the oxidants and contaminants are introduced onto the surface of our catalytic filtration media. The media catalyzes the oxidation of the contaminants and then traps the impurities. Our Filox media is an advanced form of manganese dioxide (MD). Virtually all iron, hydrogen sulfide, and manganese reduction medias have some percentage of MD. At 80% or greater, Filox boasts the highest percentage of MD and the highest flow rates per cubic foot of all of the iron reduction medias on the market today.



FLL-100

Features

- 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

⚠ 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 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.

Operating Parameters

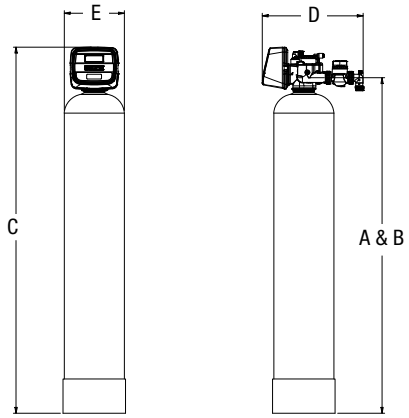
pH	6.56 to 9
Water Pressure*	30 psi to 125 psi (205 kPa to 8.5 bar)
Temperature	34 - 110°F (1 - 43°C)
H2S	Up to 3 ppm
Iron	Up to 10 ppm
Manganese	Up to 5 ppm
Operating Ambient Temperature	34° to 120°F (1° to 52°C)
Power Supply Input Voltage	100-120 VAC
Power Supply Input Frequency	50/60 Hz
Power Supply Output Voltage	15 VDC
Power Supply Output Current	500 mA (per control valve)

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

*It is established that when daytime water pressure exceeds 80psi (5.5 bar), the maximum pressure rating of 125psi (8.6bar) can be exceeded. A pressure regulator is required on this system or warranty is voided.

For all other guideline information please contact your Watts representative.

Series FLL-100



Dimensions & Weights

Series FLL-100

Call customer service if you need assistance with technical details.

MODEL NO.	DIMENSIONS										WEIGHTS	
	A		B		C		D		E			
	in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lb*	*kg*
NF09-L10F	50 1/2	1283	50 1/2	1283	55 ½	1410	16 1/4	413	9 1/2	241	167	76
NF10-L10F	56 1/2	1435	56 1/2	1435	61 3/4	1568	16 1/4	413	10 1/2	267	235	107
NF12-L10F	55	1397	55	1397	60	1524	16 1/4	413	12 1/2	318	318	144
NF14-L10F	67	1702	67	1702	72 1/4	1835	17 1/2	445	14 3/4	375	460	209
NF16-L10F	68 1/4	1734	68 1/4	1734	73 1/2	1867	18 1/2	470	16 3/4	425	611	277

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.)
NF09-L10F	68112319	9x48	1	1	6	7.5	16" x 10" x 56"	167
NF10-L10F	68112320	10x54	1	1.5	9	10	16" x 11" x 62"	235
NF12-L10F	68112321	12x52	1	2	12	15	17" x 13" x 60"	318
NF14-L10F	68112322	14x65	1	3	18	20	18" x 15" x 74"	460
NF16-L10F	68112323	16x65	1	4	24	25	20" x 17" x 74"	611

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

The use of additional oxidizing agents (oxygen, chlorine, ozone, hydrogen peroxide, potassium permanganate, etc) is recommended. Oxidizers will enhance the performance of Filox. They oxidize the media, which enables Filox to perform quicker and keep cleaner. It is always a safe practice to install an oxidation method upstream (in front) of the Filox bed. Do not exceed 4 ppm free chlorine in the feed water stream or bed damage may occur.

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