

**Waterite**

markets a  
full range of  
automatic filters,  
accessories and  
optional  
equipment.  
See your dealer  
for full details.



**Fusion<sup>2</sup>**  
Water Conditioners

Waterite offer a wide range of water conditioners including the chemical-free air-over water iron removers, manganese greensand filters for iron and manganese removal and NextSand for turbidity reduction. We also offer other media and resin filters for color and specialty conditioning needs.  
See your dealer for more information.

The **Fusion<sup>2</sup>** collection of electronic water softeners, conditioners and filters.  
State of the art performance with  
down to earth value.

Made to handle the toughest water problems, problem-free.



**Series F2 Premium Performance**

- Fully adjustable cycle times and sequences
- Premium *Intelogic Ultra*® control
- High-performance *Excelclear* resin
- Capacities from 20K to 150K grains
- Twin tank or brine cabinet models
- Upflow or downflow brining



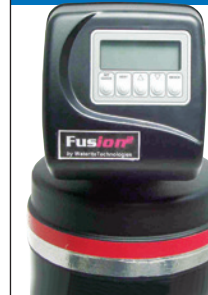
**Fusion<sup>2</sup>**  
softeners feature  
**Waterite**  
F2 control valves

**Series F2TC Value and Simplicity**



- Midnight Black tank jacket and brine tank
- F2TC series time clock valve
- Capacities from 20K to 150K grains
- Extra-rigid moulded brine tank
- *Excelclear* softening resin
- Push-button programming
- Downflow brining
- Twin tank or brine cabinet models

**Series F2 Advanced**



- Electronic *Intelogic*® control
- Clock or metered brining
- Upflow or downflow brining
- Extra rigid moulded brine tank
- *Excelclear* softening resin
- Capacities from 20K to 150K grains
- Twin tank or brine cabinet models

**Waterite**  
[www.waterite.com](http://www.waterite.com)

# Fusion<sup>2</sup>

## Easy Water Softener Sizing Guide

### WATER HARDNESS FORMULA

$$\boxed{\phantom{0000}} + \boxed{\phantom{0000}} + \boxed{\phantom{0000}} = \boxed{\phantom{0000}}$$

Measures hardness (grains per gallon)      Iron content\* X5 (Mg per litre)      Manganese Content\* X10 (Mg per litre)      Total equivalent hardness

### TOTAL SOFTENER CAPACITY FORMULA

$$\boxed{\phantom{0000}} \times \boxed{\phantom{0000}} \times \boxed{\phantom{0000}} = \boxed{\phantom{0000}}$$

Total equivalent hardness (see above formula)      # of people in household X 60      Days between regeneration X 1.25 (3 days recommended)      Total softener capacity required (A)

Find the water softener required by matching the "Total softener capacity required" figure (A) to the "Hardness capacity required" figures in the chart below.  
(round up to match figures on chart below)

### WATER SOFTENER SIZE CHART

Hardness capacity required	Fusion <sup>2</sup> softener models F/	Mineral tank size	Resin bed size (CF)
24,000	(CA) 20/F2TC/F2	8 X 35	0.75
30,000	(CA) 30/F2TC/F2	(10 X 35) 9 X 42	1.0
40,000	40/F2TC/F2	10 X 44	1.3
50,000	50/F2TC/F2	10 X 54	1.7
60,000	60/F2TC/F2	12 X 48	2.0
75,000	75/F2TC/F2	13 X 54	2.5
90,000	90/F2TC/F2	14 X 65	3.0
120,000	120/F2TC/F2	14 X 65	4.0

#### Sizing Tips:

\*Where iron exceeds 3 mg/l or manganese exceeds .05 mg/l, an aeration iron remover or a greensand filter should be considered.

Use an automatic feeder for a resin bed cleaner (Rez-Up) where iron is present in the raw water.

Consider a reverse osmosis drinking water system for domestic water use in your home when using a water softener.

Waterite has a family to choose from!



YOUR Fusion<sup>2</sup> DEALER

Manufactured and Marketed by

**Waterite**



[www.waterite.com](http://www.waterite.com)

# Fusion<sup>2</sup> Water Conditioner Model Guide

FOR RESIDENTIAL AND LIGHT COMMERCIAL APPLICATIONS

## The Inside Story:

### The Waterite F Series Automatic Control Valve

The Waterite F-Series control valve is the heart of the Fusion<sup>2</sup> family of filters and selective ion exchange water conditioners. The latest generation of design assures years of trouble free service. With service and backwash rates up to 27 GPM, Waterite F-series valves feature integrated circuit boards, proven piston technology and multiple sequence programming. The valve may be disassembled and serviced in minutes, making it a breeze to service.



FILTER TYPE	FILTER MODEL	TANK SIZE	CF MEDIA	NORMAL/PEAK FLOW GPM	B/W RATE GPM
Paterson Iron Filter	P1054F2	10 X 54	1.5	2.5 / 5.0	5.0
	P1248F2	12 X 48	2.0	3.0 / 6.0	7.0
	P1354F2	13 X 54	2.5	4.0 / 8.0	10.0
IRON FIST Filters	FPF9K	9 X 40	0.8	2.0 / 4.0	15.0
	FPF10K	10 X 47	1.0	2.5 / 5.0	18.0
Multi-Media Filters	FMF10A	10 X 47	1.0	2.5 / 5.0	5.0
	FMF15A	10 X 54	1.5	3.0 / 6.0	7.0
	FMF20A	12 X 48	2.0	4.0 / 8.0	10.0
	FMF25A	13 X 54	2.5	4.5 / 9.0	11.0
	FMF30A	14 X 65	3.0	5.0 / 10.0	12.0
	FMF40A	16 X 65	4.0	7.0 / 14.0	15.0
Carbon Filters	FCF10A	10 X 47	1.0	2.5 / 5.0	5.0
	FCF15A	10 X 54	1.5	3.0 / 6.0	5.0
	FCF20A	12 X 48	2.0	4.0 / 8.0	7.0
	FCF25A	13 X 54	2.5	4.5 / 9.0	8.0
	FCF30A	14 X 65	3.0	5.0 / 10.0	10.0
	FCF40A	16 X 65	4.0	7.0 / 14.0	12.0
Filter Ag Filters	FAF10A	10 X 47	1.0	2.0 / 4.0	5.0
	FAF15A	10 X 54	1.5	2.5 / 5.0	5.0
	FAF20A	12 X 48	2.0	3.0 / 6.0	7.0
	FAF25A	13 X 54	2.5	4.0 / 8.0	8.0
	FAF30A	14 X 65	3.0	5.0 / 10.0	10.0
	FAF40A	16 X 65	4.0	7.0 / 14.0	12.0
MTM Filters	FMT10A	10 X 47	1.0	2.5 / 5.0	5.0
	FMT15A	10 X 54	1.5	3.0 / 6.0	5.0
	FMT20A	12 X 48	2.0	4.0 / 8.0	7.0
	FMT25A	13 X 54	2.5	5.0 / 10.0	10.0
Greensand Filters	FMG10A	10 X 47	1.0	2.5 / 5.0	5.0
	FMG15A	10 X 54	1.5	3.0 / 6.0	7.0
	FMG20A	12 X 48	2.0	5.0 / 8.0	10.0

**Fusion<sup>2</sup>**  
www.waterite.com



YOUR Fusion<sup>2</sup> FILTER AND WATER CONDITIONER DEALER

**Fusion<sup>2</sup>**

Automatic Water Filters and  
Specialty Conditioners.

A FUSION OF WATER TECHNOLOGY AND PRACTICALITY.

**Waterite**

brings pure water to life

# The **Fusion<sup>2</sup>** collection of electronic water conditioners and filters.

High performance systems to meet residential or light commercial water conditioning challenge.

## **Fusion<sup>2</sup>** Specialty Ion Exchange Water Conditioners

The fully electronic **Intellogic<sup>®</sup> Ultra** control features clock or metered brining, multiple cycle sequencing, and upflow or downflow brining. An extra-rigid brine tank and Midnight Black tank jacket complete the package. High-performance **Excelclear** selective reduction anion or cation resins for nitrates, organic colour, uranium and other contaminants. Mixed bed systems with the **Fusion<sup>2</sup>** static valve are available for deionization applications with Waterite's own MBX115 resin. Systems available from .7 CF to 5.0 CF with peak service flow rates up to 25.0 GPM.



## **Fusion<sup>2</sup>** Chemical-Free **Paterson** Iron Remover

Waterite's wide range of water conditioners includes the original Paterson chemical-free iron remover, a highly effective solution to iron staining and rusty water. This rugged system injects air to oxidize ferrous (clear water) iron and removes the resulting ferric (red water) iron from your water supply. Features include the famous Micronizer air injector, Midnight Black tank jacket and the F2TC fully automatic valve. Waterite's patented Paterson system never needs chemicals! Available in 1.5, 2.0 and 2.5 CF sizes with service flow rates up to 8.0 GPM. Dealer will specify contact tank size required.

## **IRON FIST<sup>®</sup>** H<sub>2</sub>S and Iron Filter Systems

Iron Fist systems use Pyrolox(tm) catalytic media to eliminate the corrosion, odour and staining due to H<sub>2</sub>S and iron in drinking water without the need of any chemical media regeneration or contact tanks. Fully automatic, each system comes with the Waterite valve 5-year limited warranty and a limited 10-year warranty on the mineral tank.



## **Fusion<sup>2</sup>** Multi Media and Special Media Filters

Each water filter application can present a unique set of challenges. Waterite's **Fusion<sup>2</sup>** filter family can help meet them all. Available with a wide selection of media, **Fusion<sup>2</sup>** filters can be tailored to meet individual customer needs, up to 4.0 CF with service flow rates up to 14.0 GPM. Waterite automatic filters and conditioners are also commonly used for pre-treatment of commercial reverse osmosis systems.



- Multi-media sand and gravel filtration for the reduction of turbidity (suspended particulate) to approximately 15 microns. Crushed aggregate filtration (Filter Ag(tm), crushed pumice) for the reduction of fine suspended particulate to approximately 30 microns.
- Waterite's **CENTURION**, **CENTURION 'C'** and **CENTURION '7'** high performance, acid washed activated carbon filters are commonly used for the reduction of chlorine and its by-products, THMs, VOCs, organic colour, H<sub>2</sub>S, odors and particulate.

Waterite Technologies, Inc. is registered and licensed to import, stock and furnish potassium permanganate by Health Canada.

**Fusion<sup>2</sup>** water conditioners feature **Waterite** control valves



## **Fusion<sup>2</sup>** Manganese Greensand and MTM<sup>™</sup> Filters

Useful for filtration when elevated iron, hydrogen sulphide and manganese are found in the water supply. Both of these proven filtration medias require periodic regeneration with potassium permanganate. Manganese greensand is a natural, mined material and MTM is a manufactured media. MTM has an advantage in applications requiring a lower backwash rate to achieve optimum bed expansion. Models are available up to 2.5 CF with peak service flows up to 10.0 GPM.

All MTM and MG filter systems are equipped with the Waterite F2TC control valve, potassium permanganate feeder, the initial dose of potassium permanganate and a Midnight Black tank jacket.



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## Residential Water Filtration Systems

### Built to Outlast. Designed to Perform.

The CC Series is engineered for residential filtration, supporting a wide range of automatic backwashing filters designed to tackle common water quality issues. These systems are ideal for removing contaminants such as sediment, iron, sulfur, chlorine, and acidity—ensuring cleaner, safer water throughout the home.

### Compatible Filtration Options Include:

- **Taste & Odor Filters** – Granular activated carbon removes chlorine and organic compounds that cause unpleasant smells & flavors.
- **Chloramine Filters** – Catalytic carbon targets chloramines in municipal water, improving taste and reducing chemical residues.
- **Manganese Greensand Plus** – Oxidizes and filters iron, manganese & sulfur; requires chemical regeneration for optimal performance.
- **Next-Sand™ Turbidity Filters** – Filters particles down to 3–5 microns & excels in high-turbidity applications with superior flow rates.
- **Neutralizing Filters** – Raises the pH of acidic water to prevent corrosion and protect plumbing systems.

### Smart Electronic Control

The CC Series valve features an enhanced electronic control platform that makes installation fast and simple—while still giving professionals the flexibility to customize factory settings as needed. This advanced design supports fine-tuning for specific home conditions, ensuring consistent, high-quality performance. Ideal for residential backwashing filter applications, it delivers a dependable, plug-and-play experience with room for tailored adjustments.

### Key Features:

- **Engineered for Versatility** – Handles a wide range of residential water filtration needs, including sediment, iron, sulfur, chlorine, and acidity removal for cleaner, safer water.
- **Durable Construction** – Built with corrosion-resistant materials for long-lasting reliability in demanding water conditions.
- **High Flow Rates & Low Pressure Drop** – Engineered for efficient water flow without compromising filtration quality.
- **Automatic Backwash Cycle** – Keeps your filter operating at peak efficiency by flushing out impurities and preventing media fouling—automatically.
- **Usage-Based Monitoring** – The metered design measures real water flow, allowing for more accurate diagnostics and easier troubleshooting.



## Specifications:

### Nextsand - Sediment & Turbidity Filter

Model Number	Flow Rate (GPM)		Media Ft3	Mineral Tank Size	Type of Regen	Pipe Size
	Service	Peak				
WTCC-1044-BNS	5	8	1.00	10x44	Time Clock/Metered	3/4" & 1"
WTCC-1054-BNS	5	8	1.50	10x54		
WTCC-1252-BNS	9	15	2.00	12x52		
WTCC-1354-BNS	11	18	2.50	13x54		
WTCC-1465-BNS	12	21	3.00	14x65		
WTCC-1665-BNS	16	25	4.00	16x65		
WTCC-1865-BNS	18	25	5.00	18x65		

### Coconut Carbon - Taste & Odour Filter

Model Number	Flow Rate (GPM)		Media Ft3	Mineral Tank Size	Type of Regen	Pipe Size
	Service	Peak				
WTCC-1044-BCF	3	5	1.00	10x44	Time Clock/Metered	3/4" & 1"
WTCC-1054-BCF	3	5	1.50	10x54		
WTCC-1252-BCF	4	8	2.00	12x52		
WTCC-1354-BCF	5	9	2.50	13x54		
WTCC-1465-BCF	6	10	3.00	14x65		
WTCC-1665-BCF	7	14	4.00	16x65		
WTCC-1865-BCF	9	17	5.00	18x65		

### Catalytic Carbon - Chloramine Filter

Model Number	Flow Rate (GPM) <sup>4</sup>		Media Ft3	Mineral Tank Size	Type of Regen	Pipe Size
	Service	Peak				
WTCC-1044-BCC	2	3	1.00	10x44	Time Clock/Metered	3/4" & 1"
WTCC-1054-BCC	2	3	1.50	10x54		
WTCC-1252-BCC	3	4	2.00	12x52		
WTCC-1354-BCC	4	5	2.50	13x54		
WTCC-1465-BCC	4	6	3.00	14x65		
WTCC-1665-BCC	5	7	4.00	16x65		
WTCC-1865-BCC	5	9	5.00	18x65		

### pH Neutralizing Filter

Model Number	Flow Rate (GPM)		Media Ft3	Mineral Tank Size	Type of Regen	Pipe Size
	Service	Peak				
WTCC-1044-BPH	2	3	1.00	10x44	Time Clock/Metered	3/4" & 1"
WTCC-1054-BPH	2	3	1.50	10x54		
WTCC-1252-BPH	3	4	2.00	12x52		
WTCC-1354-BPH	3	5	2.50	13x54		
WTCC-1465-BPH	4	6	3.00	14x65		
WTCC-1665-BPH	4	7	4.00	16x65		
WTCC-1865-BPH	5	9	5.00	18x65		

### Manganese Greensand Plus Filter

Model Number	Flow Rate (GPM)		Media Ft3	Mineral Tank Size	Type of Regen	Pipe Size
	Service	Peak				
WTCC-1044-BMG	2	6	1.00	10x44	Time Clock/Metered	3/4" & 1"
WTCC-1054-BMG	2	6	1.50	10x54		
WTCC-1252-BMG	3	9	2.00	12x52		
WTCC-1354-BMG	3	9	2.50	13x54		
WTCC-1465-BMG	4	12	3.00	14x65		
WTCC-1665-BMG	5	16	4.00	16x65		
WTCC-1865-BMG	6	21	5.00	18x65		



**WATERITE, INC.**  
**PRODUCT SPECIFICATION SHEET**  
**SF-CSOF-020**

**CERTIFIED WATER SOFTENER**  
**Fusion 2**

**A. GENERAL SPECIFICATIONS**

**CLASSIFICATION** Demand or Timed Initiated Regeneration  
**VALVE MANUFACTURER** Clack  
**VALVE MODEL** F2CC-Metered  
 F2TC-Time Clock

**WATERITE METERED MODEL:**

**F20F2NS, F30F2NS, F45F2NS,  
 F60F2NS, F75F2NS, F90F2NS**

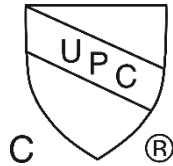
**WATERITE TIME CLOCK MODELS**

**F20F2TCNS, F30F2TCNS, F45F2TCNS,  
 F60F2TCNS, F75F2TCNS, F90F2TCNS**

<b>Fusion 2</b>	<b>F20F2NS</b>	<b>F20F2TCNS</b>	<b>F30F2NS</b>	<b>F30F2TCNS</b>	<b>F45F2NS</b>	<b>F45F2TCNS</b>	<b>F60F2NS</b>	<b>F60F2TCNS</b>	<b>F75F2NS</b>	<b>F75F2TCNS</b>	<b>F90F2NS</b>	<b>F90F2TCNS</b>
<b>Resin Volume (FT3)</b>	0.75		1.00		1.50		2.00		2.50		3.00	
<b>Resin Depth</b>	27" (68.5cm)		29" (73.6 cm)		36" (91.4 cm)		37" (94 cm)		36" (91.4 cm)		38" (96.5CM)	
<b>RESIN MANUFACTURER</b>	Waterite											
<b>RESIN TYPE</b>	ExcelClear 001X7NANS 7% Standard Mesh											
<b>MEDIA TANK</b>	Ø8x44" 2.5"nps		Ø9x48" 2.5"nps		Ø10x54" 2.5"nps		Ø12x48" 2.5"nps		Ø13x54" 2.5"nps		Ø14x65" 2.5"nps	
<b>OPERATING PRESSURE</b>	20-100 psi (1.4-7.0 kg/cm2)											
<b>OPERATING TEMPERATURE</b>	35-100 deg F (1-37 deg C)											
<b>MAX. FLOW RATE:</b>	9.0 gpm (34 lpm)		10.3 gpm (39 lpm)		10.3 gpm (39 lpm)		15.9 gpm (60 lpm)		15.9 gpm (60 lpm)		15.9 gpm (60 lpm)	
<b>PRESSURE DROP @ MAX. FLOW RATE</b>	15 psi (0.98 kg/cm2)											
<b>MAX FLOW RATE TO DRAIN DURING REGENERATION</b>	1.7gpm (6.4 lpm)		2.2gpm (6.4lpm)		2.7 gpm (10 lpm)		3.9gpm (15 lpm)		4.5 gpm (17 lpm)		5.3 gpm (20 lpm)	
<b>SALT TYPE/GRADE</b>	High Grade Sodium Chloride											
<b>BRINE TANK DIMENSIONS</b>	15X15X35" (38x38x89 cm)						Ø18x40" (0.45x1.0m)					

**CERTIFICATION:**

Certified by IAPMO to CSA B843.1



**B. ELECTRICAL SPECIFICATION**

Controller Operating Voltage	12 Vac	Input Supply Frequency	60Hz
Motor Input Voltage	12 Vac	Electronic Operating Voltage	3.5 Vac
Transformer Output Voltage	12 Vac-500ma	Transformer Input	115Vac-10watt

See Owner's Manual for user responsibility, use restrictions and limitations, parts and service availability, and warranty.

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