

# 3M™ Water Filtration Products

SPEC# \_\_\_\_\_

QUANTITY \_\_\_\_\_

application:

**ESPRESSO EQUIPMENT**

model:

## CFS6090-C & CFS6135-C



CFS6090-C

The 3M CFS6090-C & CFS6135-C water treatment systems are designed to reduce hard scale build-up on espresso machine boilers and maintain efficient brewing machine operations. High capacity sodium ion exchange resin reduces hard scale that causes equipment break down and increased energy consumption. Premium activated carbon reduces chlorine taste and odor and bitterness associated with poor water quality. The optional system with flush valve eliminates the need for additional fittings.

### PRODUCT BENEFITS

- Valve-in-head design simultaneously shuts off and vents water with 1/4 turn, allowing for simple and virtually trouble-free cartridge change-outs.
- 3/8" NPT vertical ports.
- CFS6090-C removes hardness up to 700 grains and the CFS6135-C removes hardness up to 1,100 grains. High capacity carbon ensures a variety of impurities are reduced.
- Sanitary Quick Change (SQC) encapsulated cartridges reduce contamination during change-outs.
- NSF and/or FDA CFR-21 compliant materials.

### PRODUCT SPECIFICATIONS

Model Number	Part Number	Reduction Claims	Capacity	System Flow Rate	Application	Replacement Cartridge	Qty	Sizing
CFS6090-C	55993-02	Hardness Chlorine Taste & Odor	700 Grains	0.5 gpm (1.9 lpm)	Up to 20 Grains Hardness	SWC900-C	1	See Formula*
CFS6135-C	55993-04		1,100 Grains			SWC1350-C	1	
CFS6135-C w/Flush Valve	55993-09		1,100 Grains			SWS1350-C	1	

To determine sizing:  
Divide the grain capacity of the system by the incoming water hardness to determine gallons (liters) of water treated.

Example:

$$\frac{\text{System Capacity}}{\text{Incoming Hardness}} = \text{Gallons Treated}$$

Incoming hardness @ 15 grains/gallon  
System capacity @ 1,100 grains  
Gallons (liters) treated = 73 gal. (276 lit.)



# CFS6090-C & CFS6135-C

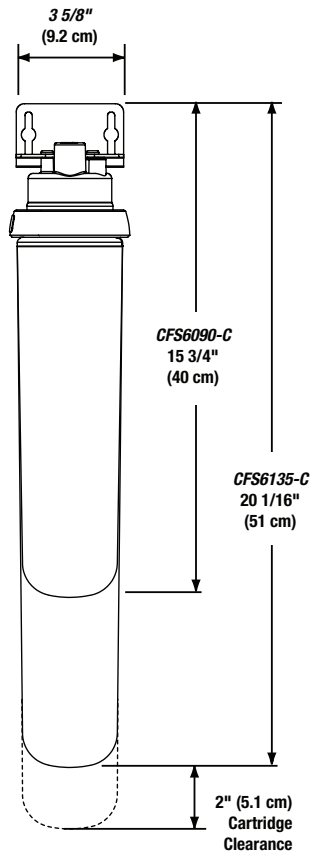
# 3M™ Water Filtration Products

SPEC# \_\_\_\_\_

QUANTITY \_\_\_\_\_

MODEL NUMBER \_\_\_\_\_

PART NUMBER \_\_\_\_\_



**⚠ WARNING: To reduce the risk associated with the ingestion of contaminants:**

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

3M Purification Inc. recommends regularly scheduled maintenance and replacement of the filter cartridge(s) in order for the product to perform as advertised/sold. 3M Purification Inc. shall not be liable for system failures due to improper maintenance.

## LIMITED WARRANTY

3M Purification Inc. warrants CFS6090-C & CFS6135-C only to be free from defects in material and workmanship for five (5) years from the date of purchase. This warranty does not cover failures resulting from abuse, misuse, alterations or damage not caused by 3M Purification Inc. or failure to follow installation and use instructions. No warranty is given as to the service life of any filter cartridge or membrane as it will vary with local water conditions and consumption. **3M PURIFICATION INC. MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOMER OR USAGE OF TRADE.** If the Product fails to satisfy this Limited Warranty during the warranty period, 3M Purification Inc., at its option, will replace the Product or refund your Product purchase price. This warranty does not cover labor. **The remedy stated in this paragraph is Customer's sole remedy and 3M Purification Inc.'s exclusive obligation. For additional information, see the entire Limited Warranty located in the product Installation and Operation Instruction Manual.**

**Limitation of Liability:** 3M Purification Inc. will not be liable for any loss or damage arising from this 3M Purification Inc. product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability. Some states and countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

## PHYSICAL SPECIFICATIONS

- System is a single vessel design.
- 3/8" NPT vertical ports.
- System reduces carbonate hardness through the use of ion exchange resin.
- Resin has no color throw in the effluent water.
- System incorporates chlorine taste and odor reduction.
- System maximum operating pressure of 125 psi (862 kPa) and operating temperatures of 100°F (37.8°C).
- Each system has a service flow rate of 0.5 gpm (1.9 lpm).
- System materials are FDA CFR-21 and/or NSF compliant.
- Cartridges are sanitary in design, requiring no contact with the filter media during cartridge change-out.

## IMPORTANT: INSTALLATION TIPS

**These installation tips are for informational purposes only and are not intended to be used as actual installation instructions. CAUTION: To reduce the risk associated with property damage due to water leakage:**

- **Read and follow** Use Instructions before installation and use of this system.
- Installation and use **MUST** comply with all state and local plumbing codes.
- **Protect from freezing**, remove filter cartridge when temperatures are expected to drop below 40°F (4.4°C).
- **Do not install on hot water supply lines.** The maximum operating water temperature of this filter system is 100°F (37.8°C).
- **Do not install** if water pressure exceeds 125 psi (862 kPa). If your water pressure exceeds 80 psi (552 kPa), you must install a pressure limiting valve. Contact a plumbing professional if you are uncertain how to check your water pressure.
- **Do not install** where water hammer conditions may occur. If water hammer conditions exist you must install a water hammer arrester. Contact a plumbing professional if you are uncertain how to check for this condition.
- The disposable filter cartridge **MUST** be replaced every 12 months, at the rated capacity or if a noticeable reduction in flow rate occurs.

