

Swimming Pool Cartridge Filter

General:

1. It is the intent of these specifications to describe a free standing cartridge filter – herein referred to as ‘filter’ designed specifically for swimming pool and spa applications. The specification is based on the Swim Clear Cartridge filter manufactured by Hayward Industries.
2. This specification includes criteria for the following CSI Master Format components:
 - 2.1. Division 13 – Special Construction
 - 131000 Special Facility Components
 - 131100 Swimming Pools
 - 131700 Tubs and Pools
 - 2.2. Division 22 - Plumbing
 - 220150 Operation & Maintenance of Pool Systems
 - 220650 Schedules for pool and fountain plumbing systems
 - 225000 Pool and Fountain plumbing.
 - 225119 Pool Water Treatment
3. The filter shall meet the criteria of the following standards:
 - UL – Underwriters’ Laboratory
 - NSF – National Sanitation Foundation
 - ASTM – American Society for Testing and Materials
 - IAMPO – International Association of Mechanical and Plumbing Officials
4. The filter shall be supplied to its site of installation in its original manufacturer’s packaging. The package shall clearly state the model name, model number and country of manufacture. The package shall include the relevant operating and installation instructions. The filter shall be appropriately labelled clearly indicating the manufacturer’s name. The manufacturer’s name/registered logo shall be molded into the body of the filter
5. The filter shall be a manufactured by a company with at least 10 years of proven product experience. The manufacturing facility shall be a permanent, established facility that meets the relevant codes.
6. The system shall be fabricated and fully assembled by the original equipment manufacturer.
7. The filter shall be factory tested and shall be certified by NSF. Filter performance should match the performance as stated in the product literature. All filter material that comes into contact with water shall meet NSF 50 specifications.
8. The filter should have a working pressure of 50 psi. The test pressure shall be four times the working pressure.
9. The filter shall be guaranteed by the manufacturer for workmanship, materials and performance for a period of 2 years. The warranty will not include abusive or improper treatment of the filter during construction or under operation.



Model Number	Effective Filtration Area	Public Design Flow Rate	Dimensions W x A	Clearance B x C
C2030	225 sq.ft	84 gpm	24" x 32 ½"	18 x 15
C3030	325 sq.ft	122 gpm	24" x 34 ½"	18 x 16
C4030	425 sq.ft	150 gpm	24" x 40 ½"	18 x 18
C5030	525 sq.ft	150 gpm	24" x 46 ½"	18 x 22
C7030	700 sq.ft	150 gpm	24" x 52 ½"	18 x 28

Flow Rate Based on .375 gpm/sq.ft

PRODUCT SPECIFICATION SHEET

Product:

1. Filter Capacity:

The filter system shall consist of _____ tanks each with a total effective area of _____ sq. ft. When operating at _____ gpm per square foot of filter area, the filter system will have a capacity of filtering _____ gallons in _____ hours.

2. Filter Tank:

- 2.1. The tank shall be simplex floor mounted made from durable glass reinforced co-polymer.
- 2.2. The tank shall be _____ thick and shall be 18" in diameter with a side shell height of _____ and
- 2.3. The filter tank shall be in two parts: top and bottom which will be self-aligning and secured together with a heavy-duty, tamper proof one-piece clamp.
- 2.4. The filter tank shall be equipped with a 1 1/2" integral drain for clean-out and flushing of the tank.
- 2.5. The tank shall be equipped with an air relief valve and a pressure gauge.

3. Face piping and internal Distribution System:

- 3.1. Filter internal equipment shall include a top manifold configuration. The top closure plate shall prevent the elements from lifting.
- 3.2. A non-corrosive top closure plate shall prevent the elements from lifting and allowing unfiltered water to by-pass the media during operation.
- 3.3. The filter shall be equipped with 2" or 2 1/2" connections with full 2" internal piping

4. Filter Media:

- 4.1. The filter shall be equipped with Quad-Cluster cartridges.
- 4.2. The cartridges shall be a high quality 4 oz. high quality reinforced polyester.
- 4.3. The cartridges shall have a filtration orange of 10-20 microns
- 4.4. When the difference between the inlet and outlet pressure exceeds 10 psi the cartridges shall be removed from the tank and cleaned with a hose.

