

## HARMSCO® BETTERFILTERS® FOR COMMERCIAL AND PUBLIC POOLS



Harmsco® Betterfilters® provide sparkling clean water and save energy and space.

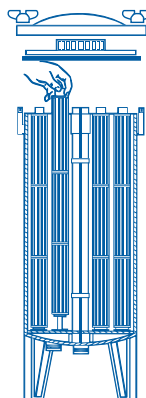
Betterfilters® are constructed of low carbon T-316 stainless steel, electro-chemically polished to deliver a ten-year, pro-rated warranty.

Harmsco® filters install quickly and easily, require no costly waste disposal systems, and come ready for use with Harmsco's reusable SuperTuf/6™ Polyester-plus cartridges for maximum operating performance and a long service life.



Model No.	Max. NSF Flow Rate*	Max. NSF Pool Size Public Pools	Number Of Cartridges	Filter Area	Height	Height Clearance	Service Floor Space	Pipe In And Out	Approx. Shipping Weight
BF168	63 GPM	22,680 Gal.	28	168 sq.ft.	30"	48"	18" x 18"	2" NPT	82 lbs.
BF252	94.5 GPM	34,020 Gal.	42	252 sq.ft.	40"	68"	18" x 18"	2" NPT	101 lbs.
BF336	126 GPM	45,360 Gal.	56	336 sq.ft.	52"	87"	18" x 18"	3" NPT	125 lbs.
BF450	168.75 GPM	60,750 Gal.	75	450 sq.ft.	42"	73"	20" x 20"	3" NPT	169 lbs.
BF600	225 GPM	81,000 Gal.	100	600 sq.ft.	52"	90"	20" x 20"	3" NPT	195 lbs.
BF900FL	337.5 GPM	121,500 Gal.	150	900 sq.ft.	48"	76"	28" x 28"	4" Flange	291 lbs.
BF1200FL	450 GPM	162,000 Gal.	200	1,200 sq.ft.	58"	93"	28" x 28"	4" Flange	328 lbs.

Cartridge filters remove easily for cleaning or replacement.



10 year pro-rated limited warranty on all filters prepared for fresh-water service. 1 year warranty on all Harmsco filters specialty-coated for salt-water service.

All Harmsco® Betterfilters® are NSF certified for commercial pool applications. Harmsco®, Betterfilters® and SuperTuf® are registered trademarks of Harmsco, Inc.

Note: Salt water units have identical capabilities and dimensions. "SW" is added to model designation to indicate units prepared for salt. (Example: Betterfilter 450SW.)

Initial pressure drop across any commercial unit at NSF tested and certified flow rates never exceeds 3 psi. (0.2 BAR).

**HEAVY SWIM LOADS REQUIRE ADDITIONAL FILTER AREA.**



**HARMSCO®**  
Clean & Clear Filtration Since 1958

## PURCHASE AND OPERATIONAL COST COMPARISON OF A TYPICAL 160,000 GAL. PUBLIC POOL FILTRATION SYSTEM

Cartridge Filtration 2 BF1200FL Units	Manual Sand Filtration Compared to 2 BF1200FL Units	Automatic Sand Filtration Compared to 2 BF1200FL Units
Average cost to end users: <b>\$12,000</b>	<b>\$16,000</b>	<b>\$21,750</b>
Average installation costs: <b>\$1,950</b>	<b>\$3,250</b>	<b>\$4,050</b>
Average length of time between cleaning cartridges or automatic backflushing: <b>30-90 days</b>	<b>30-90 days</b>	<b>30-90 days</b>
Gallons of water needed to clean cartridges or backflush: <b>100- 800</b>	<b>2,000-5,000</b>	<b>2,000-5,000</b>
Time required for one man to clean two BF1200FL units or backflush: <b>1-3 hours</b>	<b>15-30 minutes</b>	<b>not applicable</b>
Estimated cost of chemically treated, heated, and filtered water which is disposed of during filter cleaning: <b>\$.50-\$.1.50</b>	<b>\$20-\$150</b>	<b>\$20-150</b>
Estimated cost of make-up water to replace that lost during cleaning of filters or cartridges: <b>\$.12-\$.96</b>	<b>\$2.40-\$6.00</b>	<b>\$2.40-\$6.00</b>
Estimated annual expenditure for media, taking into consideration the 15-20 year typical life of a sand bed (with typical replacement cost of \$2,000) and the 1-2 year replacement of cartridges: <b>\$900-\$1,832</b>	<b>\$133-\$200</b>	<b>\$133-\$200</b>
Minimum cubic footage required for filtration plant: <b>50 cu. ft.</b>	<b>560-680 cu. ft.</b>	<b>560-680 cu. ft. min.</b>
Floor load factor: <b>1,400 lbs.</b>	<b>11,000-13,000 lbs.</b>	<b>11,000-13,000 lbs.</b>
Cost per sq. ft. in space required (based on average initial investment of \$50-\$75 per sq. ft. for commercial quality filter room): <b>\$625-\$937.50</b> <b>(12.5 sq. ft.)</b>	<b>\$2,400-\$7,350</b> <b>(48-96 sq. ft.)</b>	<b>\$2,400-\$7,350</b> <b>(48-96 sq. ft.)</b>
Initial installation costs: <b>\$13,950</b> <b>\$14,575-\$14,887 (indoors)</b>	<b>\$19,250</b> <b>\$21,650-\$26,600 (indoors)</b>	<b>\$25,580</b> <b>\$27,980-\$32,930 (indoors)</b>
Annual operational costs (\$10 per man hour): <b>\$1,027.44-\$2,221.52</b>	<b>\$431.80-\$2,132.00</b>	<b>\$431.80-\$2,132.00</b>
Total costs over 5 years, excluding building factor. *Plus initial investment for cubic space and floor load: <b>\$19,087-\$25,067</b>	<b>\$24,431-\$29,910*</b>	<b>\$30,760-\$36,240*</b>



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**Harmsco® Filtration Products™**



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