HARMSCO® UP-FLOW FILTERS

Up-Flow -

A design so superior it's patented!

Harmsco® Up-Flow Cartridge Filters outperform conventional filter designs!

Venting valves are not necessary and filtration efficiency is improved.

Fail safe wing nuts

Wing nuts are used so no tools are required. Finger tight is generally sufficient. Hex nuts are recommended with 75 inch lbs. of torque above 100 psi.





Features:

- Rugged 304 stainless steel construction (316 optional)
- Electro-polished for increased resistance to corrosion
- Extensive choice of cartridge micron ratings and media including carbon
- Flow rates to 800 GPM
- Pressure rated to 150 psi and hydrostatically tested
- Individual studs for safe, secure lid closure
- Easy cartridge installation, removal and service
- Optional high temperature ratings
- Chemical resistant coating optional

Specifications:

Filter vessel & metal components 304 stainless steel, electropolished for increased resistance to corrosion.

Holding rods, lifting rods & standpipes CPVC, standard models; 304 stainless steel, All-Stainless models

CPVC, standard models; 304 stainless steel, All-Stainless models.

Rim gaskets EPDM, standard. Buna-N and Viton available.

O-Rings Buna-N, standard. EPDM and Viton available.

Bottom seals

Natural gum rubber, standard. EPDM and Buna-N available.

Wing nuts

Brass. (Brass hex nuts and stainless steel flat washers available.)

Temperature Rated to 140° F (60° C) with CPVC rods, pipe caps, standpipes and standard Harmsco cartridges.

To 200°F (93°C) for all stainless models with stainless steel rods, pipe caps and standpipes and Harmsco

High-Temp cartridges. Temperature limits vary and depend on pressure and time under load.

Rated for pressures to 150 psi (10 bar) maximum.

Up to 800 GPM (Typical flow rates are 4-6 GPM per single length (9-3/4") Harmsco cartridge.

Published data is for guidelines only. Please consult pressure drop charts.)



Pressure

Flow

Harmsco® Filtration Products

P.O. Box 14066, North Palm Beach, FL 33408 (561) 848-9628 • Toll Free: (800) 327-3248 Fax: (561) 845-2474 • e-mail: sales@harmsco.com





Harmsco® Up-Flow Filters



Up to 24

8 Triples

8RD 29-1/4

Typical Competitive Multi-Cartridge Filters

Up to 7

7RD 9-3/4

7 Singles

Potential for air entrapment.

Flow rate (M3HR)

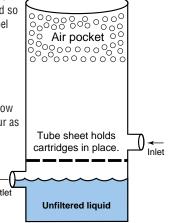
Cartridges

With outlets located **below** inlets, air travels upward so vents are needed to expel air that can accumulate within the filter vessel during operation.

Potential for by-pass

With outlets located below inlets, by-pass can occur as unfiltered liquid drains downward to the sump while the cartridges are removed. This may result in by-pass when the filter is put back

into service.



Up to 14

7 Doubles

7RD 19-1/2

Up to 16

8RD 19-1/2

8 Doubles

Up to 21

7 Triples

7RD 29-1/4

Harmsco® HIF Up-Flow Filters

Up to 42

14 Triples

14RD 29-1/4

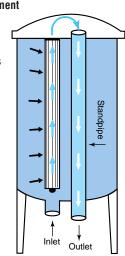
Up to 75

25 Triples

25RD 29-1/4

No air entrapment

Air is self purged from Harmsco® Up-Flow filters because outlets (top of standpipes) are at the high point of the filters.



MADE IN U.S.A.

No by-pass during service

Up to 150

50 Triples

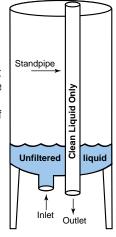
50RD 29-1/4

No liquid can by-pass Harmsco® filters during servicing because outlet standpipes are always on the "clean side" of the filter.

Up to 100

50RD 19-1/2

50 Doubles



Up to 200

100RD 19-1/2

100 Doubles

Harmsco® All Stainless Filter Housing

Filters come with stainless steel holding rods, bottom plate and standpipes for high temperatures 200°F, (93°C) and aggressive chemicals. O-rings are Buna-N; rim gaskets are EPDM; other options, including viton available.

Note:

Optional 222 by flat end configuration accepts seven cartridges and is available for HIF 7SS through HIF 24SS.



Model	Flow Rate	Pipe Size	Ship Wt.
HIF 7SS	To 30 GPM	1-1/2"	30 lbs. 14 Kg
HIF 14SS	To 60 GPM	1-1/2"	40 lbs. 18 Kg
HIF 16SS	To 75 GPM	2"	42 lbs. 19 Kg
HIF 24SS	To 100 GPM	2"	52 lbs. 24 Kg



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