

# HF-LF Series

HOUSINGS  
HY-FLOW AND LARGE FLOW  
LOW PRESSURE



## MAIN APPLICATIONS:

- DESALINATION
- WATER TREATMENT
- FINE CHEMICAL
- FOOD & BEVERAGE
- POWER GENERATION
- PAINTS AND RESINS
- PHARMACEUTICAL
- MICROELECTRONIC
- GALVANIC
- HYDRAULIC
- STEEL MILL
- GENERAL INDUSTRY

## CHARACTERISTICS:

- Construction 100% 316-SS.
- V-Clamp or Rathmann type swing bolts closure.
- Conform to 2014/68/UE PED Directive.
- Conform to 2014/34/UE ATEX Directive.
- 1935/2004/CE certification available upon request.
- V-Clamp design suitable for liquids Gr. 1 and 2 filtration.
- Rathmann type swing bolts design suitable for both liquids and gas Gr. 1 and 2 filtration.
- Side entry bottom outlet (*other nozzles arrangement available as option*).
- Suitable for pressure up to 8 bar (*V-Clamp*) or 10 bar (*Rathmann bolts*).
- Designed for MHF and MHL series depth cartridges or PMHF and PMHL series pleated cartridges.
- Suitable to hold 1 to 3 cartridge stacks up to 40" long (*standard*).
- Arrangement with larger cartridges quantity available on request.
- Ideal for high flow-rate and low spare parts cost.
- Cartridges reusable stainless steel core available in two design: welded to the tube sheet (*standard*) or dismantable (*optional*).
- O-ring head/body seal.
- 430 SS adjustable legs (*only for single cartridge design*).
- Hydraulic test on 100% of manufactured units.
- Customization for OEM customers.

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a **mott** company



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## TECHNICAL DATA

### MAX. WORKING CONDITIONS

8 bar @ 80 °C (V-Clamp)  
 10 bar @ 100 °C (Rathmann)

### CONSTRUCTION MATERIAL

- BODY:**  
 - 316L SS / 304 SS (option)  
**V-CLAMP (R):**  
 - 316 SS micro cast  
**MICRO CAST HEAD (F):**  
 - 316 SS micro cast  
**MACHINED HEAD (M):**  
 - 316L SS  
**ADJUSTABLE LEGS:**  
 - 430 SS

### FINISHING

- A38:  
 Internal electropolishing  
 Extnal manual polishing  
 - A44:  
 Glass bead blasted

### GASKETS

- EPDM max. 120 °C  
 - Viton max. 230 °C  
 - Silicone max. 230 °C  
 - FEP max. 250 °C  
 - PTFE max. 250 °C

### IN/OUT

- 2" GAS-M  
 - 2.1/2" GAS-M  
 - 3" GAS-M  
 - DN 100 PN 16  
 - DN 150 PN16

### VENT

- 3/8" GAS-F

### TUBE SHEET DRAIN

- 1/2" GAS-F

### ACCESSORIES

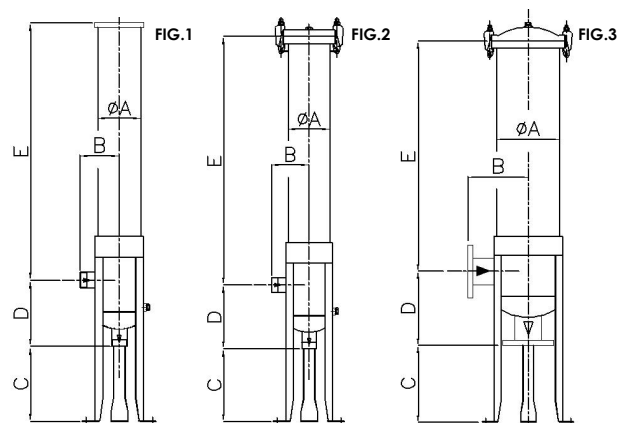
- Pressure gauge  
 - Vent valve  
 - Flanged connections

## Dimensions:

Model	Cartridge	Q max. m <sup>3</sup> /h	Dimensions [mm]					In/out	Vol. [lt]	Weight [kg]	Fig.
	Type x q.ty		A	B	C	D	E				
HFR014	MHF 1x40"	30	168.3	144	[1]	170.5	1027	2" / 3" Gas-m	24	32	1
LFR014	MHL 1x40"	50	204	168	[1]	207.5	975	2" / 3" Gas-m	35	39	1
HFR034	MHF 3x40"	90	273	240	[1]	310	1035	DN 100/150 PN16	80	70	1
HFM014	MHF 1x40"	30	168.3	154	[1]	185	1090	2" / 3" Gas-m	26	42	2
LFF014	MHL 1x40"	50	204	170	[1]	236	987.5	2" / 3" Gas-m	36	50	2
HFF034	MHF 3x40"	90	273	240	[1]	310	1012	DN 100/150 PN16	85	80	3
LFM034	MHL 3x40"	150	355.6	280		300	410	DN 150 PN 16	140	130	3

Max. flow-rate referred to 50 µm cartridges.  
 Clean delta-P 0.15 bar.  
 Shown flow-rates change depending on  
 installed filtration rating.

1] "C" dimension adjustable, according to  
 the selected model



## Max. working pressure:

Fluid	Model						
	HFR014	LFR014	HFR034	HFM014	LFF014	HFF034	LFM034
Liquid Gr. 2	8 bar	8 bar	8 bar	10 bar	10 bar	10 bar	10 bar
Liquid Gr. 1	8 bar	5.5 bar	2.5 bar	10 bar	10 bar	10 bar	10 bar
Gas Gr. 2	Not suitable			7.5 bar	5.5 bar	2 bar	1.3 bar
Gas Gr. 1	Not suitable			1.8 bar	1.3 bar	0.5 bar	0.3 bar

Where the 2014/68/EU PED Directive is applicable, in case of dangerous liquids Gr. 1,  
 the max. working pressure must be reduced. For different pressures contact ASCO Filtri.

**Contact us for any further information.**

We reserve the right to change the data of this specification without notice.

ASCO Filtri S.p.A.

Viale delle Scienze, 8  
 20082 Binasco (MI) - Italy

Phone: +39 02 89703.1

Fax: +39 02 89703.410

E-mail: info@ascofiltri.com

Web: www.ascofiltri.com

**ASCO**  
**FILTRI**  
 a mott company