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# Multi bag filter

#### **MBH** and **MBQ**

### 1. Introduction

For a wide number of filtration applications bag filters are a simple, easy to use and economical choice. Filtration Group supplies a wide range of filter bags and bag filter housings. MBH and MBQ multi bag filters are ideally suited where high filtration capacities are needed. These bag filters are available for 3 to 12 bags, with filtration areas of 1.5 to 6 m², in different materials and specifications. The MBH and MBQ range is available as a non-code version and in PED 2014/68/EU cat: II, for non-hazardous and hazardous liquids. Filtration Group bag filters are excellent for use in the filtration of liquids containing higher concentrations of coarse solids. They are particularly beneficial when handling batches of (various) liquids. They are also especially suitable for end filtration or polishing of liquids with extremely low concentrations of solids.









#### 2. Features

- Easy to use, good interior sealing and accessibility.
- The filters are available in stainless steel 304 or 316.
- All components are stainless steel.
- The MBH multi bag filter housing has a standard cover closure with eye bolts. The cover is opened using a davit arm as a standard construction. Optional there is also a spring assisted and a hydraulic version.
- The MBQ multi bag filter housing has a quick release cover closure with a spring assisted cover opening mechanism.
- The housings are available either as non-code (PED 2014/68/EU article 3, paragraph 3) or PED 2014/68/EU category 2, suitable for non-hazardous and hazardous liquids
- O-ring sealing: standard in EPDM. Viton®, PTFE encapsulated Viton® and silicone available on request.
- Support baskets are standard and are constructed in perforated stainless steel.
- Excellent sealing between unfiltered liquid and filtered liquid is achieved by a hold-down device. The filter bag seals with a feltcovered Snap-Collar ring or plastic flange, which tightly fits into the housing.
- Liquid displacer units are available to further reduce the dead volume inside the filter bags.
- The housings are equipped with 4 legs.
- There is a safety locking mechanism on the MBQ housings, which will only allow the housing to be used if deployed. It also has a safety pressure valve release mechanism, which is automatically activated when opening the housing.

## 3. Standard specifications

Design pressure: 10 bar(g)
Design temperature: 90 °C

Operating temperature depending on the filter media and gaskets

: used Design: ASME

Approval: PED 2014/68/EU

article 4, paragraph 3or category II(other codes on request)

Maximum differential pressure

design: 2.5 bar operating: 2.5 bar

## 4. Options

A specific Edible Oil version is also available.

## 5. Filter bags

Filtration Group supplies a wide range of filter bags in different materials, pore sizes, dimensions and models to fit in our housings as well as those of other manufacturers

For detailed information about amaFlow filter bags, please see respective Data Sheets.

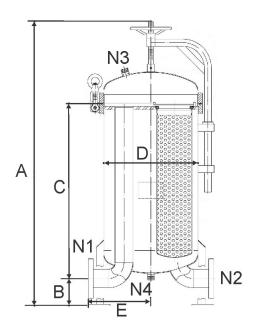








## 6. Dimensions



#### Nozzle specification

N1	Inlet
N2	Outlet
N3	Vent
N4	Drain
N5	Pressure gauge 1/2" (MBQ)

# 7. Dimensions

#### **MBH Model**

	Height A [mm]	Nozzle height B [mm]	Height C [mm]	Diameter D [inch]	Standout E [mm]	N1 N2	N3 N4	Volume [dm³]
3	1431	145	875	20"	329	4"	1"	175
4	1464	145	878	22"	354	4"	1"	227
6	1599	170	948	28"	475	6"	1"	310
8	1739	205	1023	32"	556	8"	1"	450
12	1937	280	1105	38"	683	12"	1"	600
ME	Q Model							
	Height A [mm]	Nozzle height B [mm]	Height C [mm]	Diameter D [inch]	Standout E [mm]	N1 N2	N3 N4	Volume [dm³]
3	1325	155	-	22"	354	4"	1"	175
4	1325	155	-	22"	354	4"	1"	227
6	1450	180	-	28"	475	6"	1"	310
8	1580 -	215	-	32"	556	8"	1"	450
12	1700	250	_	38"	683	10"	1"	600

Dimensions are for reference only. Use dimensional drawing for installation purposes.

 $Subject \ to \ technical \ alteration \ without \ prior \ notice.$ 

# 8. Ordering code

Example







MBH 3	180	Α	4F	D	NC
Type Number	of Model	Material	Inlet/outlet	Cover closing	Category
filter bag	js –				
MBH 3	180 =	A =	4F = DN100 flanges	D = Davit arm and eye bolts	NC = Non-code, PED article 3, paragraph
MBQ4	Size 2	Stainless	(for 3+4 bags)	(standard for MBH)	3
6	bags	steel 304	6F = DN150 flanges	S = Spring assisted (standard	P2 = PED 2014/68/EU Category 2 (for
8	_	S =	(for 6 bags)	for MBQ, optional for MBH)	hazardous and non-hazardous liquids)
12		Stainless	8F = DN200 flanges	H = Hydraulic assisted (optional	
		steel 316	(for 8 bags)	for MBH)	
			10F = DN250 flanges		
			(for 12 bags, MBQ)		
			12F = DN300 flanges		
			(for 12 bags, MBH)		



