

3M Housings HC Series

For 700 Series Filter Elements

The HC filter housings are constructed from 316 L or 304 stainless steel and manufactured in accordance to design and construction code EN13445 Group 3. They have a maximum pressure rating design of 10 bar g and can be used in temperatures up to 90 °C.

The HC Series filter housings are fully compliant with the European Pressure Equipment Directive (PED) and are available in a variety of sizes to accommodate 1, 3, 5 or 7 of 3M™ 700 Series filter cartridges, in either of two available lengths.

Pressure Equipment Directive 97/23/CE

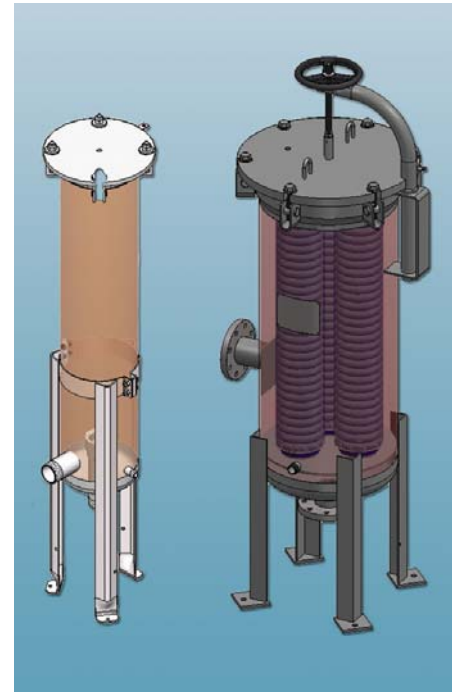
HC vessels are built to PED 97/23/CE Category 3.3 “Sound Engineering Practice” as standard. The vessel designs have been developed so that they can be manufactured for the highest demanding applications - Group 1 (Hazardous Gas) - upon request from existing and known production documentation. All dimensions remain as shown here.

ATEX Directive 94/9/CE

The HC housings are not ATEX approved as standard.

They can be approved for use in ATEX condition 11/2/G/T5 upon request.

The user of these housings must ensure that they are used in accordance with the requirements of these PED and ATEX directives at all times. Please consult your local 3M Purification representative for any other classification or further information.



Model	Number of Filter Cartridges	Material	Connections types	Drain Size (BSPT)	Vent Size (BSPT)	Maximum Flow Rate (m ³ /hr)
01 HCB	1	304L	2" BSP Male	1/2"	1/4"	18
03 HCB	3	or 316L	DN80	1"	1/2"	54
05 HCB	5	Stainless	DN100	1"	1/2"	90
07 HCB	7	Steel	DN150	2"	1"	126

The Maximum Operating Pressure Range is from -1 to +10 bar g.
The Operating Temperature Range is from 0 to 90 °C.

	Model							
	01 HCB		03 HCB		05 HCB		07 HCB	
	#1 ²	#2 ²	#1 ²	#2 ²	#1 ²	#2 ²	#1 ²	#2 ²
H - Clearance	1690 ¹	2190 ¹	2400	2920	2130	2650	2240	2760
B - Overall Unit Height	955	1215	1650	1910	1760	2020	1940	2200
C - Floor to Outlet	445 ¹	455 ¹	300		350		450	
A - Floor to Inlet	645 ¹	645 ¹	800		850		950	
G1			345		350		410	
G2			294		320		370	

* Dimensions are for overall space requirements only. For all other uses, request a certified drawing.
¹ Maximum dimension
² #1 = height of cartridge is 28 3/4", #2 = height of cartridge is 39"

Applications

Prefilters or final filters for:

- Acids and bases
- Amines
- Beer and wine
- Bottled water
- Carbon beds solvents
- Completion fluids
- Deep wells
- RO membranes
- DI resins
- Edible oils
- EDM fluids
- Ultrapure water
- Fructose
- Wastewater
- Glycol
- Waterflood
- Groundwater clean-up
- Workover fluids
- Laundry water
- Liquor
- Machine coolants
- Magnetic media
- Makeup water
- Organic
- Photo chemicals
- Plating solutions
- Desalination
- UF membranes
- Storm water

