

MEGA-CHT Liquid Filter



Advantages:

- Availability of wide range of absolute ratings, from 0,8 to 70 microns.
- Unique morphology of filtration medium: graded pore structure changes with infinite small increments.
- Fiber diameter is controlled and corresponds to efficiency, thus the structure is rigid and void volume is optimal.
- Filter cartridge is made of 100% food grade polypropylene.
- Filter housing construction is heavy duty type, with flange closing and swing bolt closure for ease of service.
- Filter housing construction is very compact.
- Housing is made of AISI 316L steel with mirror polish finish as standard.
- Other filter housings materials and finishes are available.
- Filter can be made with a vast selection of inlet/outlet connections.

MEGA-CHT filter is a result of our long experience in production of "melt blown" filter cartridges. Classical filter candles were introduced many years ago in form of string wound cartridges. Dimensions of such cartridges were optimized to accommodate string wounding process. With introduction of modern polypropylene melt blown process, this standard of dimensions was adapted. However kinetics of melt-blown process have many limitations and therefore the structure of "classical size" filter candle made with this modern process is not fully optimized.

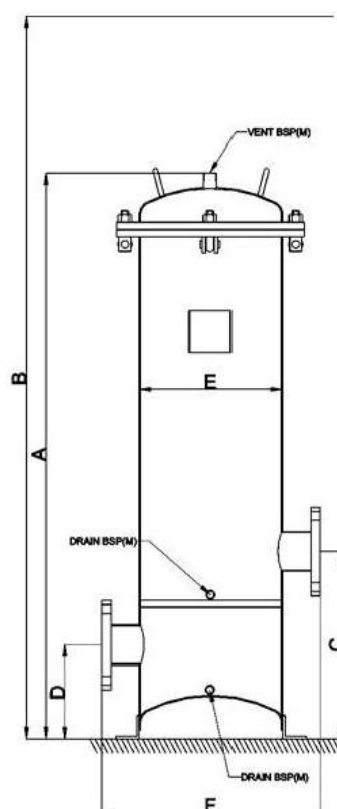
Our extensive analysis of filters working in the field, in real-world conditions, along with testing of different filter structures led us to this new product development. Due to much better controlled pore gradient in MEGA-CHT filter Dirt-Holding-Capacity per volume of filtration medium is several times higher than in other filter products existing on the market. Because cost of filter is more or less proportional to volume of filtration medium, overall filtration cost drops significantly, when MEGA-CHT is used. Along with very competitive pricing of filter housings, customer gets significant savings both in capital investment cost and running filtration cost. Because MEGA-CHT filter candles are much larger, significantly fewer cartridges for the given flow are needed, customer saves also on labor: filter housings that would normally require hours to change out a few tens of filter candles, now can be serviced in true few or a few minutes. Very often, normally necessary, duplex installations are not needed anymore.

One 1500 mm MEGA-CHT filter cartridge can replace up to 40 classical 10" modules. Filters are made in 3 lengths: 20", 40" and 60" and wide spectrum of ratings.

MEGA-CHT filter housings are made of high quality stainless steel material 304 or 316L. Mirror polish finish is standard, while more industrial grade satin (glass beaded) finish is also available. Standard MEGACHT filter housings accommodates one three or four cartridges in different lengths, covering wide spectrum of typical industrial applications. Larger housings are available on special request.

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Housing symbol	Cartridge length	Number of cartridge	Standard connection	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
OF-1MCHT20	20"	1	DN50	800	1260	220	110	DN150	310
OF-1MCHT30	30"	1	DN50	1060	1770	220	110	DN150	310
OF-1MCHT40	40"	1	DN50	1370	2310	220	110	DN150	310
OF-1MCHT60	60"	1	DN50	1650	2350	220	110	DN150	310
OF-3MCHT30	30"	3	DN65	1190	1870	350	175	DN250	430
OF-3MCHT40	40"	3	DN65	1440	2370	350	175	DN250	430
OF-3MCHT60	60"	3	DN80	1800	2420	350	175	DN250	430
OF-4MCHT30	30"	4	DN80	1220	1900	400	200	DN300	470
OF-4MCHT40	40"	4	DN80	1440	2370	400	200	DN300	470
OF-4MCHT60	60"	4	DN100	1830	2420	400	200	DN300	470
OF-8MCHT30	30"	8	DN125	1350	2000	450	200	DN400	570
OF-8MCHT40	40"	8	DN125	1500	2370	450	200	DN400	570
OF-8MCHT60	60"	8	DN125	2000	2700	450	200	DN400	570



Ordering information

Filter housing	Number of cartridge	Type	Cartridge length [inch]	Material	Cartridge finish	Sealing
OF	1	MCHT	20	04 = AISI 304	EC	B = NBR
	3		30	06 = AISI 316	ECM	E = EPDM
	4		40	06L = AISI 316L	ECM2	S = Silikon
	8		60			V = Viton

Surface finish

S = Satin (glass beaded)

P = Polished

EP = Electropolished

Connection size

40 = DN40

50 = DN50

65 = DN65

80 = DN80

100 = DN100

125 = DN125

150 = DN150

200 = DN200

Connection type

FL = Flange

BSP = Thread

TC = Tri-Clamp

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Standard parameters of cartridges

Temperature and pressure drop

Polypropylene cartridge					
T [°C]	0-40	50	60	70	82
ΔP [bar]	4,0	3,0	2,0	1,0	0,5

Polyamide cartridge					
T [°C]	0-60	70	100	130	148
ΔP [bar]	7,0	5,0	4,0	2,0	1,0

Efficiency and water flow data

Cartridge symbol	Nominal flow [m3/h]	Maximum flow [m3/h]
60MCHT08	6	10
60MCHT1	10	20
60MCHT3	15	30
60MCHT5	20	40
60MCHT10	25	50
60MCHT20	30	55
60MCHT30	40	55
60MCHT40	40	60
60MCHT50	40	60
60MCHT70	40	60

Cartridge symbol	99,99%	99,98%	99,9%	99%	95%	90%
60MCHT08*	1,0	0,8	0,7	0,6	0,5	0,4
60MCHT1*	1,2	1	0,8	0,7	0,6	0,5
60MCHT3	3,6	3,0	2,8	2,0	1,0	0,7
60MCHT5	6,0	5,0	4,0	3,0	2,5	2,0
60MCHT10	12	10	7,8	6,0	4,6	4,0
60MCHT20	25	20	17	12	9	7
60MCHT30	36	30	25	19	15	12
60MCHT40	50	40	34	28	20	17
60MCHT50	60	50	40	30	25	20
60MCHT70	84	70	55	45	35	27

* extrapolated values

Ordering information

Cartridge length [inch]	Type	Efficiency [micron]	Closure	Filter medium	Seal	Special options
20	MCHT	08 = 0,8	EC	none = polypropylene	B = NBR	HP = High Pressure
30		1 = 1,0	ECM		E = EPDM	
40		3 = 3,0	ECM2	N = Polyamid	S = Silicone	
60		5 = 5,0		PE = Polyester	V = Viton	
		10 = 10				
		20 = 20				
		30 = 30				
		40 = 40				
		70 = 70				