

# The Murdock Company, Inc.



## MicroExact™

### 1MC SERIES

#### Single Cartridge Vessels

We offer a complete line of single cartridge models for flow rates from 3 GPM options include, cast iron head carbon steel sump, brass nickel plated head 304 stainless steel sump, 304 stainless steel head and sump and 316 stainless steel head and sump. Standard 250 psi pressure ratings and pipe threads from 1/2" NPT, to 1" NPT, optional flange, BSP, grooved and sanitary connections available.

### Features

- Designed for industrial and commercial filtration applications
- Low Cost
- High Quality
- Flow Rates from 3 to 30 gpm
- Up to 250 psig
- Available in Mild Steel, Stainless Steel and Brass Nickel Plated
- Standard drain Petcock
- Automatic centering of cartridges on bottom seal plate while centering springs align cartridge ends with each other at the filter head
- Unitized construction of shell center post and bottom for simple handling
- Optional T-handling top nut eliminates need for tools
- Optional bracket head can be wall mounted

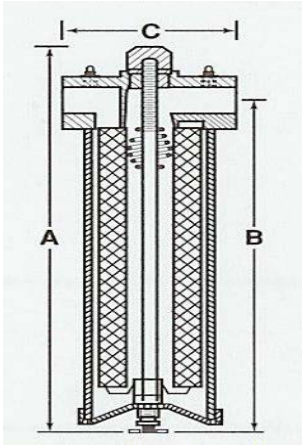
### Specifications

Cartridge configuration	1 4"	1 5"	1 9 3/4" OR 10"	1 19 1/2" OR 20"	1 29 1/4" OR 30"
Product code, brass nickel head / 304L sump	1MCBA4	1MCBA5	1MCBA10	1MCBA20	1MCBA30
Product code, 304L head / 304L sump	1MCA4	1MCA5	1MCA10	1MCA20	1MCA30
Product code, 316L head / 316L sump	1MCS4	1MCS5	1MCS10	1MCS20	1MCS30
Product code, C/S head C/S sump	1MCC4	1MCC5	1MCC10	1MCC20	1MCC30
Flow rate, maximum GPM	3	5	10	20	30
Flow rate, maximum LPM	94	189	284	378	378
Flow rate, maximum 3M/HR	5	12	17	24	24
Standard cartridge length	4"	5"	9 3/4" 10"	19 1/2" OR 20"	29 1/4" OR 30"
Number of standard cartridges	1	1	1	1	1
Number 10" cartridge (butt seal)	4"	5"	1	2	3
Standard pipe size	1/2", 3/4", 1" NPT	1/2", 3/4", 1" NPT	1/2", 3/4", 1" NPT	1/2", 3/4", 1" NPT	1/2", 3/4", 1" NPT
Standard drain size	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT
Pressure drop (vessel only, psi)	<1	<1	<1	<1	<1
Standard pressure rating (psi/bar)	250-10	250-10	250-10	250-10	250-10
Temperature rating (max. F/C)*	250° / 149°	250° / 149°	250° / 149°	250° / 149°	250° / 149°
Shipping weight (lbs.)	5	7	9	12	15

\*Housing only; cartridge temperature specifications should also be considered.

Note: Flow rates are for guidelines only. Actual flow rates are based on the fluid, viscosity, cartridge type, micron rating and other factors.





Dimensions Model	A	B	C
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Dimensions Model	A	B	C
1MC 4"	7.750"	4.0625"	4.125"
1MC 5"	8.500"	5.0625"	4.125"
1MC 10"	13.750"	11.0625"	4.125"
1MC 20"	23.750"	21.0625"	4.125"
1MC 30"	33.750"	31.0625"	4.125"

Note:  
Information contained in this bulletin is believed to be reliable. It is the users responsibility to determine the suitability.

## 1MC MODELS Cartridge Options

			
<b>Wound</b>	<b>Pleated polyester</b>	<b>Fiber glass</b>	<b>Melt blown</b>

## Options & spare parts

Part Number	Description	Part Number	Description
B501	Mounting bracket (single cartridge)	B034-B-1/2	Head- Brass Nickel Plated- 1/2" NPT
EP-S	Electro-polishing (single cartridge)	B034-B-3/4	Head- Brass Nickel Plated- 3/4" NPT
F-1-316	1" flange (pair) 316	B032-B-1	Head- Brass Nickel Plated- 1" NPT
BSP-1-316	1" BSP (pair) 316	B032-C-1/2	Head-Cast Iron-1/2" NPT
F-75-316	3/4" flange (pair) 316	B032-C-3/4	Head-Cast Iron-3/4" NPT
SF-75-316	3/4" sanitary pipe fittings (pair) 316	B032-C-1	Head-Cast Iron-1" NPT
BSP-75-316	3/4" BSP (pair) 316	B032-4-S	Head-Stainless Steel 316- 1/2" NPT
GP-25	1/4" NPT gauge port (each)	B032-6-S	Head-Stainless Steel 316- 3/4" NPT
B0041-B	Shell gasket, Buna-N	B032-8-S	Head-Stainless Steel 316- 1" NPT
B0041-EPR	Shell gasket, EPDM	1MCC-4	Body Only – 3 3/4" cartridge carbon steel
B0041-T	Shell gasket, Teflon	1MCC-5	Body Only – 4 7/8" cartridge carbon steel
B0041-V	Shell gasket, Viton	1MCC-10	Body Only – 10" cartridge carbon steel
B0041-S	Shell gasket, Silicone	1MCC-20	Body Only – 20" cartridge carbon steel
B072-B	Cap nut gasket, Buna-N	1MCC-30	Body Only – 30" cartridge carbon steel
B072-EPR	Cap nut gasket, EPDM	1MCA-4-316	Body Only – 4" cartridge 316L
B072-T	Cap nut gasket, Teflon	1MCA-5-316	Body Only – 5" cartridge 316L
B072-V	Cap nut gasket, Viton	1MCA-10-316	Body Only – 10" cartridge 316L
B072-S	Cap nut gasket, Silicone	1MCA-20-316	Body Only – 20" cartridge 316L
B105-S	Centering Spring	1MCA-30-316	Body Only – 30" cartridge 316L
B301-S	Vent Screw- Stainless Steel	2022-8	Drain Petcock- 1/8"
B080	Vent Screw - Gasket	2104-S-316	Drain Plug – 1/8"
B071-S-TH-316	T-handle & nut, 316L stainless steel		
B071-TH-BNTH	T-handle & nut, brass / nickel		
B071-BN	Cap Nut (Standard for Series 1MCC, 1MCBA)		
B071-S-316	Cap Nut (Standard for Series 1MCA, 1MCS)		

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Bulletin: 1MC-2006.01

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