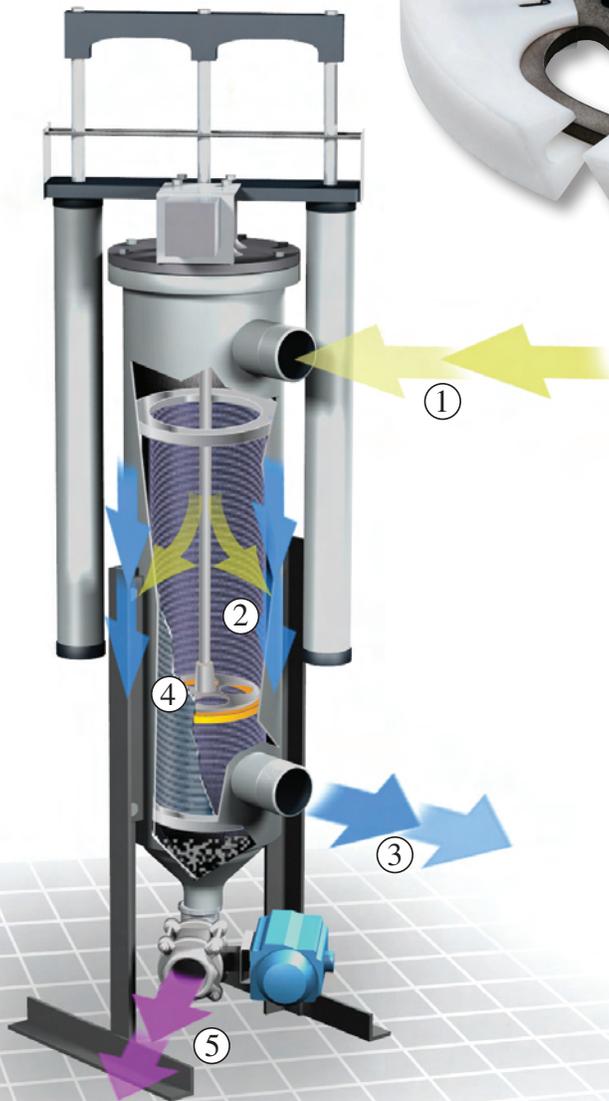


# Disc Power



Our unique circular cleaning disc design (MCF 824-Series design shown) ensures intimate contact with the screen to thoroughly and uniformly clean the media.



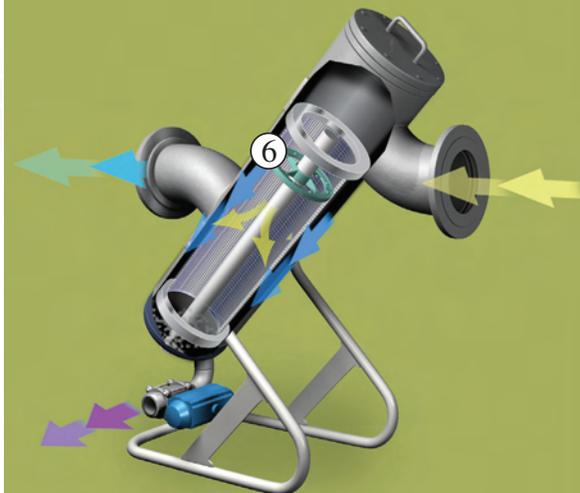
In Eaton's DCF mechanically cleaned filter unit, incoming fluids (1) are channeled from the interior cylinder through a wire screen (2) to the outer cylinder and out the discharge port (3). A cleaning disc (4) travels down and up inside the cylinder to periodically clear the filter screen. Particles are collected at the bottom of the housing where they can be discharged (5).



## How it works

Eaton's mechanically cleaned filters are based on a simple concept: A cylindrical stainless steel housing contains a filter screen; unfiltered liquids enter the inlet; solids are deposited on the interior surface of the filtration screen; and filtered fluid exits at the outlet.

When the media requires cleaning (based on time, differential pressure, or manual selection), a spring loaded cleaning disc travels down and up, wiping the media clean of concentrated solids in both strokes. Once the debris is removed from the slotted screen, the cleaning disc directs the contaminant to the bottom of the housing and out of the flow path. This cleaning process happens while the filter remains in service, thereby maintaining process efficiency and dramatically reducing loss of valuable product.



Eaton MCF and MCS operate in much the same manner as DCF units, but add the advantage of a magnetically coupled disc mechanism (6). This unique design eliminates the need for internal seals and reduces maintenance costs.



Powering Business Worldwide

# TECHNICAL INFORMATION

## Mechanically Cleaned Filters & Strainers



	<b>DCF-400</b>	<b>DCF-800</b>	<b>DCF-1600</b>	<b>DCF-2000</b>	<b>MCF-824</b>	<b>MCS-500</b>	<b>MCS-1500</b>
Approx Weight - lbs (kg)	35 (16)	75 (34)	215 (97.5)	564 (256)	200 (91)	350 (159)	775 (352)
Service Height - in (mm)	62 (1575)	69 (1753)	102 (2591)	80 (2032)	64 (1626)	66 (1676)	102 (2591)
Volumetric Capacity-gal (L)	0.94 (3.5)	3.9 (14.8)	11 (41.6)	11 (41.6)	11 (41.6)	18.7 (70.8)	49.2 (186.2)
Purge Chamber Capacity-gal (L)	0.0313 (0.119)	0.2 (0.74)	1.5 (6)	1.5 (6)	1.3 (5)	0.56 (2.1)	1.1 (4.1)
Filtration Surface Area - in <sup>2</sup> (cm <sup>2</sup> )	112 (722)	264 (1703)	610 (3935)	610 (3935)	610 (3935)	610 (3935)	1508 (9729)
Flow Rate Range at 100μ - gpm (m <sup>3</sup> /hr)	2–20 (0.45–4.5)	20–60 (4.5–13.6)	60–200 (13.6–45.4)	30–200 (6.8–45.4)	30–200 (6.8–45.4)	up to 500 (up to 114)	up to 1500 (up to 342)
Temp. max F (C)	350° (177°)	350° (177°)	350° (177°)	160° (71°)	180° (82°)	180° (82°)	180° (82°)
Pressure, max- psi (bar)	300 (21)	150 (10.5)	150 (10.5)	150 (10.5)	150 (10.5)	150 (10.5)	150 (10.5)

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