

## AUTO-KLEAN® Models EG & EGS Filter System



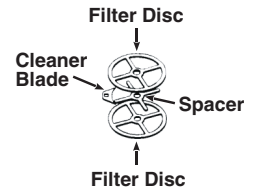
The Auto-Klean model EG and Super Auto-Klean model EGS are all metal cleanable edge filters that can be cleaned without interrupting flow. Designed for long service life, the filter sump is gasket sealed and attached to the filter head by a clamping ring and four bolts to allow removal without disturbing inlet/outlet pipe connections. Mounting holes are drilled and tapped to permit installation on a vertical surface. A vent and sludge drain are provided for safe and easy system operation. Auto-Klean Model EGU is the same as the model EG, but is listed by Underwriters' Laboratory (UL File MP 485) as suitable for service on oil burner fuel supply lines with operating parameters up to 100 psi and 158 gallons per hour. Motorized versions, Models MEG and MEGS, are available. Consult your CUNO Representative for more information.

APPLICATIONS		
■ Adhesives	■ Lubricating oils	■ Bunker "C"
■ Quenching oils	■ Cooling oils	■ Cutting oils
■ Diesel oils	■ Fuel oils	■ Tar
■ Wax	■ Grease	■ Syrups

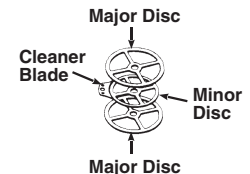
### THEORY OF OPERATION

The Auto-Klean cartridge is an assembled unit composed of a stack of alternating metal discs and spacers of uniform thickness on a rotatable metal shaft. The thickness of the spacer determines the degree of filtration. Auto-Klean Model EG is available in spacings from 0.003" to 0.015", while Model EGS is available in 0.0015" spacing.

Cleaning blades are mounted on a stationary rod adjacent to the cartridge stack and extend into the openings between the discs. Turning the cartridge handle rotates the disc and spacer assembly past the fixed cleaner blades. By rotating the cartridge, in either direction, the particles lodged between the discs are positively removed or "combed" from the surface without interruption of flow. Drain the sump as often as experience indicates is necessary.



The Super Auto-Klean filter refines the design of Auto-Klean for a higher degree of filtration while maintaining all the ease of use of the original design. By using discs of a smaller diameter as spacers, a second filtration area is formed. The first filtration area, like the Auto-Klean, is between the larger or major discs, while the second area is between the inside diameter of the major disc and the outside diameter of the smaller or "minor" disc. The radial gap created by the major and minor discs determines the degree of filtration.



### SPECIFICATIONS

Table 1 provides the models EG and EGS general specifications.

TABLE 1. - EG & EGS SPECIFICATIONS		
	EG	EGS
GENERAL FILTER DATA		
Inlet/Outlet	1" or 1 1/2" NPTF	
Max. Operating Pressure	200 psi @ 200°F	
Sludge Capacity		
5" Ctg.	16.2 in <sup>3</sup>	
8" Ctg.	11 in <sup>3</sup>	
Cartridge Diameter	2 1/4"	
Cartridge Length	5" or 8"	
Spacings	0.003", 0.005", 0.008", 0.012, or 0.015"	0.0015"
MATERIALS OF CONSTRUCTION		
Head	Cast Iron	
Sump	Drawn Steel	
Head Gasket	Buna/Cork	
Gland Packing	Aramid Fiber	
Cartridge	Steel or 304 S.S.	Steel or 304 S.S.

FEATURE	BENEFIT
■ Cleanable design	■ Eliminates used filter cartridge disposal
■ Positive cleaning action with no interruption of flow or service	■ Maximizes process up-time
■ Rugged all metal construction for trouble-free operation	■ Can handle highly viscous fluids
	■ Economical solution to long term filtration needs

## FLOW CAPACITY

Flow rates (Table 2), at various viscosities, for the EG and EGS filters are based on clean fluid with pressure drop of 3 psi. Flow rates for other viscosity fluids are approximately proportional. Select a filter model according to the nature and concentration of the contaminant to be removed.

TABLE 2. - EG & EGS FLOW RATES						
SPACING	SCREEN MESH EQUIV.	FREE AREA (IN <sup>2</sup> )	VISCOSITY IN SSU			
			100	300	700	2000
Flow in GPM						
<b>Super Auto-Klean 5" Cartridge</b>						
0.0015	400	2.6	34	21	11	4.6
<b>Auto-Klean 5" Cartridge</b>						
0.003	200	6.2	18	12	6.5	2.9
0.005	120	8.7	25	16	9	4.2
0.008	70	12.2	30	21	12	5.9
0.012	50	16.2	30	23	13	6.1
0.015	40	15.1	30	26	15	7.5
<b>Super Auto-Klean 8" Cartridge</b>						
0.0015	400	4.2	45	32	17	7
<b>Auto-Klean 8" Cartridge</b>						
0.003	200	9.8	24	16	9.5	4.7
0.005	120	13.9	29	20	12	6.1
0.008	70	19.5	30	25	16	8.3
0.012	50	25.9	30	27	17	8.7
0.015	40	24.1	30	30	18	9.4

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## WARRANTY

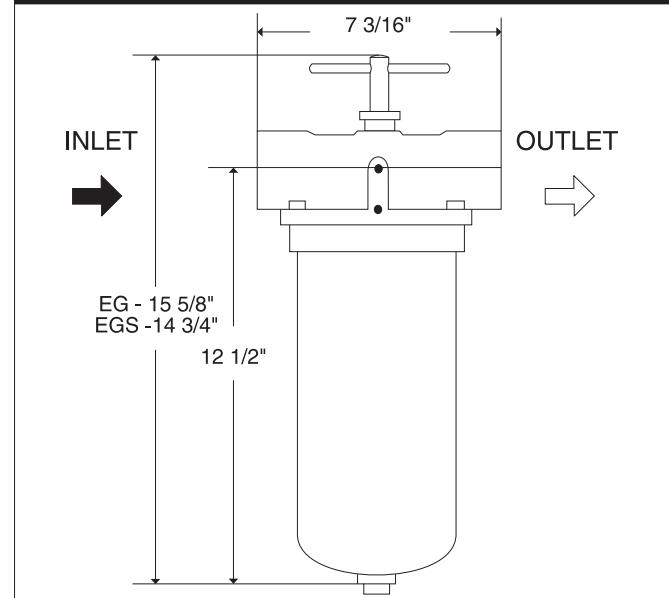
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## CATALOG NUMBERS

MODEL	INLET OUTLET NPT	CARTRIDGE		FILTER CATALOG NUMBER	REPLACEMENT CARTRIDGE NUMBER
		Material	Length		
EG	1"	Steel	5"	12318-25-50-XXXX	14145-08-50-XXXX
	1"	Steel	8"	12320-29-50-XXXX	14145-17-50-XXXX
	1 1/2"	Steel	8"	11076-29-50-XXXX	14145-17-50-XXXX
	1 1/2"	S.S.	8"	11076-29-40-XXXX	14145-17-40-XXXX
EGS	1"	Steel	5"	12838-21-50-0015	12840-03-50-0015
	1"	Steel	8"	12838-22-50-0015	12840-04-50-0015
	1 1/2"	Steel	8"	12907-16-50-0015	12840-04-50-0015
	1 1/2"	S.S.	8"	12907-16-40-0015	12840-04-40-0015
Model EG Spacings (XXXX)				0.003" = <b>0030</b> 0.005" = <b>0050</b> 0.015" = <b>0150</b>	0.008" = <b>0080</b> 0.012" = <b>0120</b>

For replacement parts, consult your CUNO representative.

## Auto-Klean Models EG & EGS Dimensions



a 3M company

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