

3M Purification

CUNO™ DDS Series



Cuno™ DDS Series brass edge filter is designed for maximum economy where the required flow capacity is low. The DDS filter is cleanable without interruption of flow by one turn of cleaning handle. The sump and head are sealed by induction brazing. A drain is provided for removal of sludge. Specifications for the DDS filter are listed below:

FILTER DATA

Inlet / Outlet Connection	3/8" NPTF
Drain	1/4" NPTF
Max. Operating Pressure	(1723kPa) @ 93°C
Sludge Capacity	65 ml
Shipping Weight	1.13kg
Cartridge Diameter	32 mm
Cartridge Length	42 mm
Spacings	75, 125, 200 µm (0.003", 0.005" or 0.008")

CONSTRUCTION MATERIALS

Head and Sump:	Brass
Gland Packing:	Aramid Fiber
Cartridge:	Brass

FILTER FLOW CAPACITY

The Cuno™ DDS Series model filter flow rates listed below are based on clean fluid at 3 psi (20kPa) pressure drop. Flows at other viscosities are approximately proportional. Select a spacing (degree of filtration) according to the nature and concentration of the contaminant to be removed.

Micron Rating	Spacing	Screen Mesh Equiv.	Free Area (cm ²)	Viscosity (SSU)			
				100	300	700	2000
				Flow (lpm)			
75	0.003"	200	7.0	9.8	6.4	3.4	2.0
125	0.005"	120	10.0	13.2	9.0	5.2	3.0
200	0.008"	70	14.0	17.0	11.7	7.2	4.1

Features & Benefits

All brass materials

- Durable construction for long service life
- Economical solution to long term filtration needs

Positive cleaning action with no interruption in flow or service

- Maximises productivity uptime

Cleanable Filter Elements

- Eliminates used filter disposal

Applications

Fuel Service

Cooling Coils

Lubricating oils

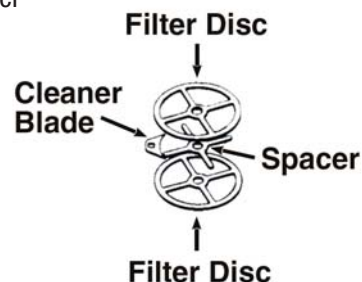
Cutting oils



THEORY OF OPERATION

The Cuno™ DDS Series 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. Cuno™ DDS Series is available in spacings from 75 (0.003”) to 200 (0.008”) microns.

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 discs 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 “combined” from the surface without interruption of flow. Drain the sump as often as experience indicates is necessary.



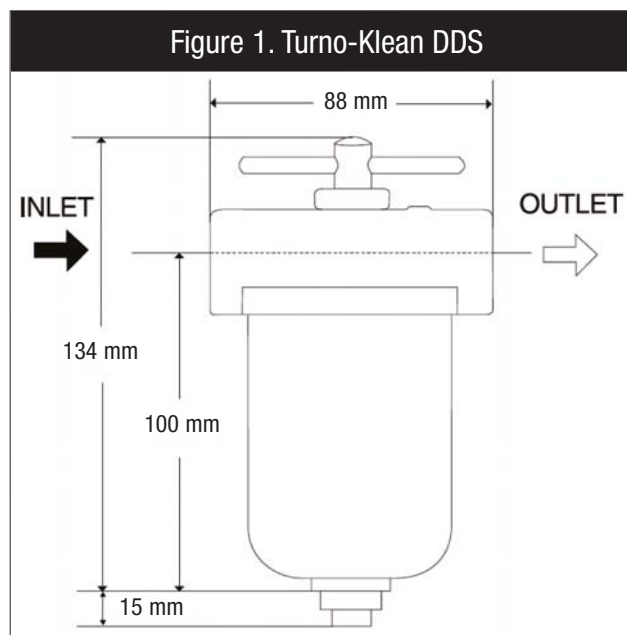
FILTER DIMENSIONS

The Cuno™ DDS Series model filter dimensions are shown in figure 1. These dimensions should be used for rough plumbing only. Note that enough space to accommodate sludge draining should be considered during installation.

FILTER CATALOGUE NUMBERS

Model	Spacing	Micron Rating	Catalogue Number
DDS	0.003”	75	70020105907
	0.005”	125	70020105915
	0.008”	200	70020105923

For replacement parts, contact your 3M Purification representative



Important Notice

The information described in this literature is accurate to the best of our knowledge. A variety of factors, however, can affect the performance of the Product(s) in a particular application, some of which are uniquely within your knowledge and control. INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING THE SAME WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR USE. IN NO EVENT WILL 3M PURIFICATION BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION.

It is your responsibility to determine if additional testing or information is required and if this product is fit for a particular purpose and suitable in your specific application.

Limitation of Liability

3M Purification Pty Limited will not be liable, to the extent permitted by law, for any loss or damage from the use of the Product(s), whether direct, indirect, special, or consequential, regardless of the legal theory asserted, included warranty, contract, negligence or strict liability.



3M Purification Pty Limited

140 Sunnholt Road
Blacktown NSW 2148
AUSTRALIA

Tel. 1300 367 362

Fax. 1800 671 599

www.3mpurification.com.au

New Zealand

PO BOX 33-246

North Shore 0740

Auckland, NEW ZEALAND

Tel. 0800 362 886

Fax. 0800 362 880

www.3m.com/nz