

DCN Series Cartridge Filter Housings

CUNO
Fluid Purification



DCN Model Filter housings are designed to meet general purpose industrial and commercial filtration needs. All wetted welded surfaces are constructed in stainless steel. External surfaces are blasted for a consistent, easy care finish. Fully electropolished units in SS316L are available for use in more demanding applications. The DCN housings are designed to accommodate up to a maximum flow of 220 gallon per minute.

APPLICABLE FILTER CARTRIDGES

The standard DCN housings accept double open ended (DOE) style cartridges. On request, they can easily be fabricated to accept single open ended (SOE) style cartridges. Most models of CUNO filter can be use with the DCN Housing.

Micro-Wynd® II	Poro-Klean®	MPF-J
Micro-Klean® III	Micro-Screen®	Betapure®
PolyKLEAN™	BevASSURE™	Polynet™
Beta-Klean™	LifeASSURE™	Betafine®
Petro-Klean™	Electropor™	Polypro®
Econo-Klean™	Act. Carbon	

FEATURES

- ◆ All wetted welded surfaces are constructed of stainless steel
- ◆ Locator tube extension on shouldered seal plate that fits solidly into cartridge core
- ◆ Spring seal assemblies
- ◆ V-band clamp closure
Removable cartridge post design
- ◆ Fully electropolished finish available as option for 316L stainless steel housing

BENEFITS

- ◆ Material is compatible with many fluids, ideal for use in a wide variety of applications.
- ◆ Shouldered seal plate assures alignment of cartridge and ensures positive cartridge seal
- ◆ Design accept the use of 9- $\frac{3}{4}$ " to 10" modular cartridges, providing for greater flexibility
- ◆ Provides quick and easy cartridge change-out
Cartridge post lifts out for easy cleaning
- ◆ Minimum particulate adhesion to wetted surface for use in critical applications

N1	INLET
N2	OUTLET
N3	DRAIN
N4	VENT

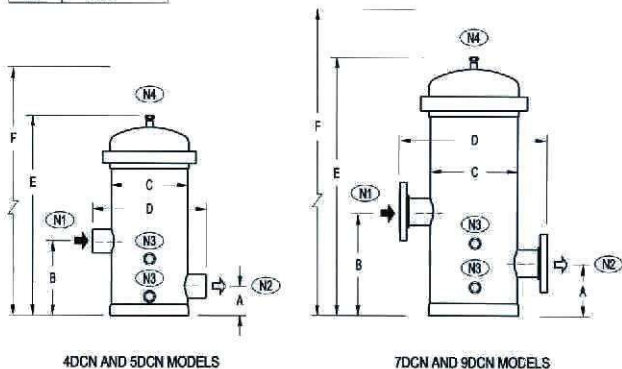


TABLE 1 : STANDARD HOUSING DIMENSIONS

FILTER MODEL	CONNECTION (inches)			STANDARD DIMENSION (millimeter)						Approx. Wt. (Kg)
	Inlet / Outlet	Drain	Vent	A*	B*	C	D	E*	F**	
4DCN-1	1-1/2" NPT-F	3/4" NPT-F	1/4" NPT-F	80	200	206	310	585	795	16
4DCN-2								845	1325	18
4DCN-3								1085	1690	21
5DCN-1	2" NPT-F							585	795	16
5DCN-2								845	1325	18
5DCN-3								1085	1690	21
5DCN-4		1365	1970	24						
7DCN-2	3" Flange ANSI 150#	3/4" NPT-F	1/4" NPT-F	153	304	273	433	943	1450	55
7DCN-3								1197	1960	60
7DCN-4								1450	2465	65
9DCN-3								1197	1960	60
9DCN-4	1450							2465	65	

* Leg Installation : Add 19 mm for 4DCN & 5DCN models. Add 25 mm for 7DCN & 9DCN models

** "F" is the space required to remove cartridge

STANDARD MODEL SPECIFICATIONS

The maximum operating temperature and pressure is the rating for the housing only. The filter cartridge capabilities will dictate process limits.

Maximum operating Pressure	150 psi (10 Bars)
Maximum operating Temperature	250°F (121°C)
Basic Material of Construction	SS 304 or SS 316L stainless steel
External Surface Finish	◆ Matt Surface (standard) ◆ Electro-polished available for SS 316L model
Gasket Material	◆ Nitrile (standard) ◆ EPR & Viton (optional)

CAUTION : DO NOT USE FOR STEAM, AIR OR COMPRESSED GAS FILTRATION

FLOWRATE

Table 2 lists the maximum flow rate at various viscosities in gallons per minute (GPM) for each DCN model filter housing.

Inlet / Outlet	Water	Viscosity				
		80 SSU	150 SSU	300 SSU	600 SSU	1000 SSU
1-½"	65	65	48	39	27	19
2"	105	90	85	77	68	55
3"	175	155	140	115	90	75
3"	220	200	180	150	120	100

Use data in the table 2 only as a guide in establishing the maximum housing flow capacity; do not use it for filter sizing. Once a flow rate for a selected cartridge is known, use table to check whether the housing's flow rate falls within the recommended guidelines.

When sizing a filter, the amount of contaminant to be removed needs to be considered in addition to the flow rate and desire pressure drop. Lower initial pressure drop enhances filter cartridge life.

CARTRIDGE REQUIREMENT

The DCN Housing accepts both single and multiple lengths filter cartridges. Table 3 lists the number of cartridges required for each model

MODEL	Nominal Cartridge Length			
	1-High	2-High	3-High	4-High
4DCN1	4	-	-	-
4DCN2	8	4	-	-
4DCN3	12	-	4	-
5DCN1	5	5	-	-
5DCN2	10	5	-	-
5DCN3	15	-	5	-
5DCN4	20	-	-	5
7DCN2	14	7	-	-
7DCN3	21	-	7	-
7DCN4	28	-	-	7
9DCN3	27	-	9	-
9DCN4	36	-	-	9

STANDARD DCN HOUSING ORDERING GUIDE

Use Table 4 below to order standard DCN housing. Refer to non standard ordering guide for "special" housing.

MODEL	SS304	SS316L
4DCN1	4DCN1-B-GA-ANF	4DCN1-E-GA-ANF
4DCN2	4DCN2-B-GA-2NF	4DCN2-E-GA-2NF
4DCN3	4DCN3-B-GA-2NF	4DCN3-E-GA-2NF
5DCN1	5DCN1-B-GA-ANF	5DCN1-E-GA-ANF
5DCN2	5DCN2-B-GA-2NF	5DCN2-E-GA-2NF
5DCN3	5DCN3-B-GA-2NF	5DCN3-E-GA-2NF
5DCN4	5DCN4-B-GA-2NF	5DCN4-E-GA-2NF
7DCN2	7DCN2-B-GA-3RF	7DCN2-E-GA-3RF
7DCN3	7DCN3-B-GA-3RF	7DCN3-E-GA-3RF
7DCN4	7DCN4-B-GA-3RF	7DCN4-E-GA-3RF
9DCN3	9DCN3-B-GA-3RF	9DCN3-E-GA-3RF
9DCN4	9DCN4-B-GA-3RF	9DCN4-E-GA-3RF

DCN HOUSING ORDERING GUIDE (NON STANDARD)

Housing Series	Cartridge Height	Housing Material	Cover Gasket	Inlet / Outlet Connection Size / Type		Special Option
4DCN 5DCN 7DCN 9DCN	1 - 1 high 2 - 2 high 3 - 3 high 4 - 4 high	B - SS304 E - SS316L	GA - Nitrile GB - EPR GC - Viton	A - 1.5 (a) 2 - 2" 3 - 3" (a)	NF - NPT Female BF - BSP Female NM - NPT Male BM - BSP Male RF - ANSI 150# RF flange	S - Single-Open End Cartridge E - Electropolish Finish (SS316L model only)

Note (a) Applicable for 4DCN1 and 5DCN1 only
(b) 3" inlet / outlet connection sizes are only available in flanges

SPARE PART LISTING

ITEM	DESCRIPTION	Models 4DCN & 5DCN		Models 7DCN & 9DCN	
		SS304	SS316L	SS304	SS316L
1	Cartridge post 1-High	6681701-CN	3915040-CN	6681701-CN	3915040-CN
2	Cartridge post 2-High	6681702-CN	3915050-CN	6681702-CN	3915050-CN
3	Cartridge post 3-High	6681703-CN	3915060-CN	6681703-CN	3915060-CN
4	Cartridge post 4-High	6681704-CN	3915070-CN	6681704-CN	3915070-CN
5	Pressure plate assembly	64533-02A-CN	64532-02A-CN		
6a	Pressure plate			64537-03-CN	
6b	Spring			6343932-CN	
6c	Seal plate			6343705-CN	
6d	Spacer			6344032-CN	
10	V-Band clamp	37563-33-CN		37563-34-CN	
11	Nitrile gasket (standard)	37920-01-CN		37920-91-CN	
12	EPR gasket	37564-37-CN		37564-92-CN	
13	Viton gasket	37564-34-CN		37564-93-CN	

WARRANTY

Seller warrants its equipment against defects in workmanship and material for a period of 12 months from date of shipment from the factory under normal use and service and otherwise when such equipment is used in accordance with instructions furnished by Seller and for purpose disclosed, in writing at the time of purchase, if any. Any unauthorized alteration or modification of the equipment by Buyer will void this warranty. Seller's liability under this warranty shall be limited to the replacement or repair, F.O.B. point of manufacture, of any defective equipment or part which, having been returned to the factory, transportation charges prepaid, has been inspected and determined by the Seller to be defective. THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, and FITNESS FOR ANY PARTICULAR PURPOSE OR USE, OR ANY OTHER MATTER. Under no circumstances shall Seller be liable to Buyer or any third party for any loss of profits or other direct or indirect cost, expenses, losses or consequential damages arising out of or as a result of any defects in or failure of its products or any part or parts thereof or arising out of or as a result of parts or components incorporated in Seller's equipment but not supplied by the Seller.



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