



*Turno-Klean<sup>®</sup>*  
*Self-Cleaning Filters*





**For Cartridge Selection**

*See over*

Data sheet of TURNO-KLEAN and SUPER TURNO-KLEAN Cartridges for the various Housing Series.

CARTRIDGES								HOUSINGS
GRADE (µm)	TYPE	DIMENSIONS		MATERIAL			P/N	SERIES
		DIAMETER inch	LENGTH inch	CS	SS	Standard		
35	UBTS	2" 1/4	5"	CS		yes	1460110	EGLS / AK 200 S / TK 200 S
35	UBTS	2" 1/4	5"		SS		1460210	EGLS / AK 200 S / TK 200 S
35	UBTS	2" 1/4	8"	CS		yes	1460310	EGLS / AK 200 S / TK 200 S
35	UBTS	2" 1/4	8"		SS	yes	1460410	EGLS / AK 200 S / TK 200 S
75	UBTS	2" 1/4	5"	CS		yes	1460111	EGLS / AK 200 S / TK 200 S
75	UBTS	2" 1/4	5"		SS		1460211	EGLS / AK 200 S / TK 200 S
75	UBTS	2" 1/4	8"	CS		yes	1460311	EGLS / AK 200 S / TK 200 S
75	UBTS	2" 1/4	8"		SS	yes	1460411	EGLS / AK 200 S / TK 200 S
75	UBT	2" 1/4	5"	CS		yes	1450521	AK 200 / TK 200
75	UBT	2" 1/4	5"	CS		yes	1450511	EGL
75	UBT	2" 1/4	5"		SS		1450621	AK 200 / TK 200
75	UBT	2" 1/4	5"		SS	yes	1450611	EGL
75	UBT	2" 1/4	8"	CS		yes	1450721	AK 200 / TK 200
75	UBT	2" 1/4	8"	CS		yes	1450711	EGL
75	UBT	2" 1/4	8"		SS	yes	1450821	AK 200 / TK 200
75	UBT	2" 1/4	8"		SS	yes	1450811	EGL
75	UAT	1" 1/4	4" 1/2	CS			1492001	G
75	UAT	1" 1/4	4" 1/2		SS		1492002	G
125	UBTS	2" 1/4	5"	CS			1460113	EGLS / AK 200 S / TK 200 S
125	UBTS	2" 1/4	5"		SS		1460213	EGLS / AK 200 S / TK 200 S
125	UBTS	2" 1/4	8"	CS		yes	1460313	EGLS / AK 200 S / TK 200 S
125	UBTS	2" 1/4	8"		SS	yes	1460413	EGLS / AK 200 S / TK 200 S
125	UBT	2" 1/4	5"	CS		yes	1450523	AK 200 / TK 200
125	UBT	2" 1/4	5"	CS		yes	1450513	EGL
125	UBT	2" 1/4	5"		SS		1450623	AK 200 / TK 200
125	UBT	2" 1/4	5"		SS	yes	1450613	EGL
125	UBT	2" 1/4	8"	CS		yes	1450723	AK 200 / TK 200
125	UBT	2" 1/4	8"	CS		yes	1450713	EGL
125	UBT	2" 1/4	8"		SS	yes	1450823	AK 200 / TK 200
125	UBT	2" 1/4	8"		SS	yes	1450813	EGL
200	UBT	2" 1/4	5"	CS			1450524	AK 200 / TK 200
200	UBT	2" 1/4	5"	CS		yes	1450514	EGL
200	UBT	2" 1/4	5"		SS		1450624	AK 200 / TK 200
200	UBT	2" 1/4	5"		SS	yes	1450614	EGL
200	UBT	2" 1/4	8"	CS		yes	1450724	AK 200 / TK 200
200	UBT	2" 1/4	8"	CS		yes	1450714	EGL
200	UBT	2" 1/4	8"		SS	yes	1450824	AK 200 / TK 200
200	UBT	2" 1/4	8"		SS	yes	1450814	EGL
200	UAT	1" 1/4	4" 1/2	CS			1492007	G
200	UAT	1" 1/4	4" 1/2		SS		1492008	G
300	UBT	2" 1/4	5"	CS			1450525	AK 200 / TK 200
300	UBT	2" 1/4	5"	CS		yes	1450515	EGL
300	UBT	2" 1/4	5"		SS		1450626	AK 200 / TK 200
300	UBT	2" 1/4	5"		SS	yes	1450615	EGL
300	UBT	2" 1/4	8"	CS		yes	1450725	AK 200 / TK 200
300	UBT	2" 1/4	8"	CS		yes	1450715	EGL
300	UBT	2" 1/4	8"		SS	yes	1450825	AK 200 / TK 200
300	UBT	2" 1/4	8"		SS	yes	1450815	EGL
380	UBT	2" 1/4	5"	CS			1450526	AK 200 / TK 200
380	UBT	2" 1/4	5"	CS		yes	1450516	EGL
380	UBT	2" 1/4	5"		SS		1450616	EGL
380	UBT	2" 1/4	8"	CS		yes	1450726	AK 200 / TK 200
380	UBT	2" 1/4	8"	CS		yes	1450716	EGL
380	UBT	2" 1/4	8"		SS	yes	1450826	AK 200 / TK 200
380	UBT	2" 1/4	8"		SS	yes	1450816	EGL
760	UBT	2" 1/4	8"	CS		yes	1450728	AK 200 / TK 200
760	UBT	2" 1/4	8"	CS		yes	1450718	EGL
760	UBT	2" 1/4	8"		SS	yes	1450828	AK 200 / TK 200
760	UBT	2" 1/4	8"		SS	yes	1450818	EGL

**Flow rate per cartridge** : maximum admissible flow rate depends on the fluid, the contaminants and working conditions. In all cases, flow should not be over following values :

UAT : 4m³/h      UBT : 10m³/h      UBTS : 12m³/h

**Selection** : the selection of filter housing and quantity of cartridges should be selected with the help of Cuno (see specification to be completed hereafter).

## Introduction

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Whenever you have an application where self-cleaning is advantageous.

Consider TURNO-KLEAN® / SUPER TURNO-KLEAN®.

Whenever you have an application with a viscous fluid. Consider TURNO-KLEAN® / SUPER TURNO-KLEAN®.

Whenever you have an application requiring filtration of 35 microns or more.

Consider TURNO-KLEAN® / SUPER TURNO-KLEAN®.

## Product Advantages

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**SELF-CLEANING**—No interruption of flow or service. Less downtime and labour because the need for cartridge change-out is eliminated, and it is unnecessary to remove the cartridges for cleaning purposes. Available for filtration ranges **ABOVE 35 MICRONS**. Ideally suited for typical basket and strainer applications.

Capable of filtering **HIGHLY VISCOUS FLUIDS**. Rigid cartridge construction. Permanent all metal edge-type filter cartridge assures long life. Able to withstand shock loading.

**POSITIVE CLEANING ACTION** - Rotating cartridge one revolution provides positive cleaning action. Restores full operating efficiency. One revolution restores initial pressure drop.

**MANUAL OR MOTORIZED OPERATION** - Cartridge rotation can be manual or motorized. Various motor configurations are available for continuous cleaning. The motorized version is excellent for remote or unattended locations.

**BUILT-IN UNITS** - This option of cartridge with special head has been developed to be built-in tanks.

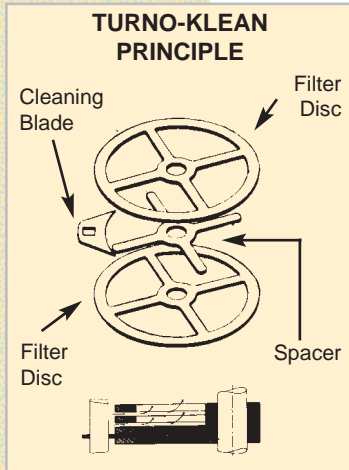
**SPECIAL FILTERS** - Adapted to particular requirements such as steam jacketing, extra sludge capacity, high pressure and temperature conditions, special materials, construction codes (ASME, ADF motorisation...).

## Turno-Klean® Filter Cartridge

The edge-type filter cartridge is an assembled unit composed of wheel-shaped discs, spacers and cleaner blades, stacked on a rotatable shaft.

Each disc is separated from the next by a spacer, which conforms in shape to the discs but is without an outer rim or edge\*. The thickness of the spacer determines the degree of filtration. A spacing "range" (75µ, 125µ, 200µ, 300µ, 380µ, 760µ,) offers a wide choice from which to select the right degree of filtration.

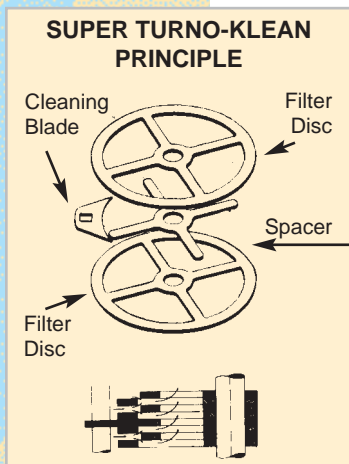
The cleaning blades are mounted on a stationary rod adjacent to the cartridge stack. When the cartridge is rotated, the cleaning blades mechanically and positively "comb-out" the filter slots to their full depth.



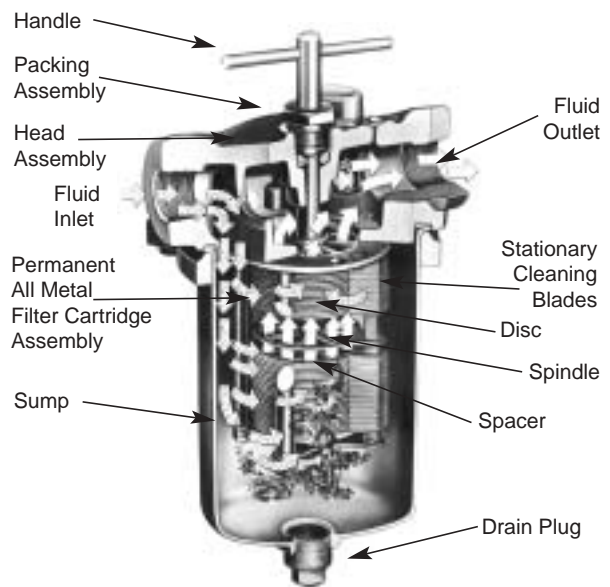
## Super Turno-Klean® Filter Cartridge

The Super Turno-Klean edge-type cartridge differs from the Turno-Klean in that wheel shaped discs of two different diameters are stacked alternately, one upon the other, on a central rotatable shaft to form a metal edge filter cartridge. Parallel to this is a stack of cleaner blades which fit into the slot formed between the large (major) discs. This is the first stage of filtration. The second stage is the radial gap between the inside diameter of the major discs and the outside diameter of the smaller (minor) discs. The cleaning blade removes entrapped solids from both stages when the stack of discs is rotated.

The Super Turno-Klean filters down to 35, 75 and 125 microns.



## TURNO-KLEAN & SUPER TURNO-KLEAN SELF-CLEANING EDGE TYPE FILTERS



\* 7.6 diameter cartridges utilize circumferential spacers.

## Typical Applications

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Lubrication Oils • Paints • Hydraulic Fluids • Emulsions  
• Adhesives • Cutting Oils • Resins • Enamels • Grease  
• Detergents and Soaps • Fuel Oil • Glue • Alkali • Inks  
• Cosmetics • Diesel Fuel • Molasses • Coolant Oils  
• Wax • Tar • Syrups • Cellulose Solutions.

## Product Selection

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Turno-Klean/Super Turno-Klean filters are available in several sizes, degrees of filtration, and materials of construction to meet your application requirements. Many of these filters are carried in stock by your local CUNO distributor. Other designs are available which can handle up to 1000 m<sup>3</sup>/h with higher operating temperatures, pressure ratings, special connections and materials of construction.

## Filter Flow Capacities

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The cartridge Selection Guide in this catalog gives flow rates in m<sup>3</sup>/h for various cartridge sizes and spacings. This guide is based on clean fluid at 700 mbar pressure drop. Capacities at other pressure drops and viscosities are approximately proportional.

Of utmost importance in filter size selection, is the nature and quantity of the contaminant to be removed. Flow rate should be reduced as the contaminant load is increased.

## DDS SERIES TURNO-KLEAN HOUSINGS

This housing is equipped with 1" 1/4 cartridge. The housing and cartridge material is brass. The design conditions are 17.5 bar at 120°C. The inlet and outlet are **in line** placed in the head. The sump and cartridge are not disposable.

CARTRIDGE						HOUSING
Grade (µm)	Type	Dimensions		Material	Max. flow rate m³/h *	Compleat with cartridge
		Diameter	Length			
75	UAT	1" 1/4	1" 5/8	BRASS	1	1 494 099
125	UAT	1" 1/4	1" 5/8	BRASS	1	1 494 096
200	UAT	1" 1/4	1" 5/8	BRASS	1	1 494 097

\* For viscosity = 1 cP at Δp = 0,7 bar

## G SERIES TURNO-KLEAN HOUSINGS

This housing is in carbon steel with cast iron head and is equipped with one 1" 1/4 cartridge. The UAT type cartridge is available in carbon steel or stainless steel. The housing design conditions are 8.75 bar at 120 °C. Inlet and outlet are **in line** placed in the head. The removable sump is bolted to the head and the cartridge is disposable.

CARTRIDGE							HOUSING	
Grade (µm)	Type	Dimensions		Material		Max. flow rate m³/h*	Ref. cart. only	Compleat with cartridge
		Diameter	Length	CS	SS			
75	UAT	1" 1/4	4" 1/2	X		3	1 492 001	1 493 092
75	UAT	1" 1/4	4" 1/2		X	3	1 492 002	1 493 093
200	UAT	1" 1/4	4" 1/2	X		4	1 492 007	1 493 098
200	UAT	1" 1/4	4" 1/2		X	4	1 492 008	1 493 095

\* For viscosity = 1 cP at Δp = 0,7 bar

## EGL SERIES TURNO-KLEAN HOUSINGS

EGL housings are in carbon steel with cast iron head, and are available with one 2" 1/4 cartridge. The UBT and UBTS type cartridges are made from either carbon steel or stainless steel and available in two different lengths : 5" and 8". Inlet and outlet are **in line** placed in the head. The removable sump is disposable.

The design conditions are 10 barg at 120°C.  
Motor for «M» versions : 230 / 400 V - 50 Hz,  
protection IP 55 (EEX on request).

FOR 2" 1/4 UBT CARTRIDGE							
MANUAL VERSION				MOTORIZED VERSION			
SERIES	Inlet/ Outlet	MATERIAL		SERIES	Inlet/ Outlet	MATERIAL	
		IRON/C-STEEL				IRON/C-STEEL	
		DRAWING	P/N*			DRAWING	P/N*
EGL	Rp 1" 1/2	17872-01	1472001	EGLM	Rp 1" 1/2	17876-01	1473001
	Rp 1"	17872-02	1472002		Rp 1"	17876-02	1473002
EGLF	DN40	17872-03	1472003	EGLFM	DN40	17876-03	1473003

FOR 2" 1/4 UBTS CARTRIDGE							
MANUAL VERSION				MOTORIZED VERSION			
SERIES	Inlet/ Outlet	MATERIAL		SERIES	Inlet/ Outlet	MATERIAL	
		IRON/C-STEEL				IRON/C-STEEL	
		DRAWING	P/N*			DRAWING	P/N*
EGLS	Rp 1" 1/2	17866-01	1482001	EGLMS	Rp 1" 1/2	17873-01	1483001
	Rp 1"	17866-02	1482002		Rp 1"	17873-02	1483002
EGLFS	DN40	17866-03	1482003	EGLFMS	DN40	17873-03	1483003

\* P/N of housing without cartridge.



## AK 200 SERIES TURNO-KLEAN HOUSINGS

- AK 200 and AK 210 housing series are available in carbon steel and stainless steel. They are equipped with 2" 1/4 UBT or UBTS type cartridges made from either carbon steel or stainless steel (304 or 316).
- The cartridge length can be 5" or 8". With a maximum of 5 cartridges per housing.
- Inlet and outlet are **in line** located in the head, with a removable sump.
- The AK 200 series is equipped with a clamp allowing easy and fast opening of the housing.
- The AK 210 series has the sump bolted to the head.
- The housing design conditions are 10 barg and 16 barg (AK 211 only) at 110°C.
- Gasket material : Nitrile
- Motor for «M» versions : 230 / 400 V - 50 Hz, protection IP 55 (EEX on request).

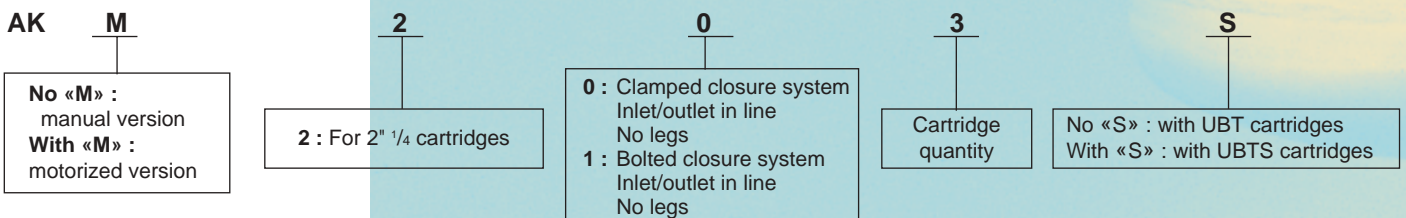


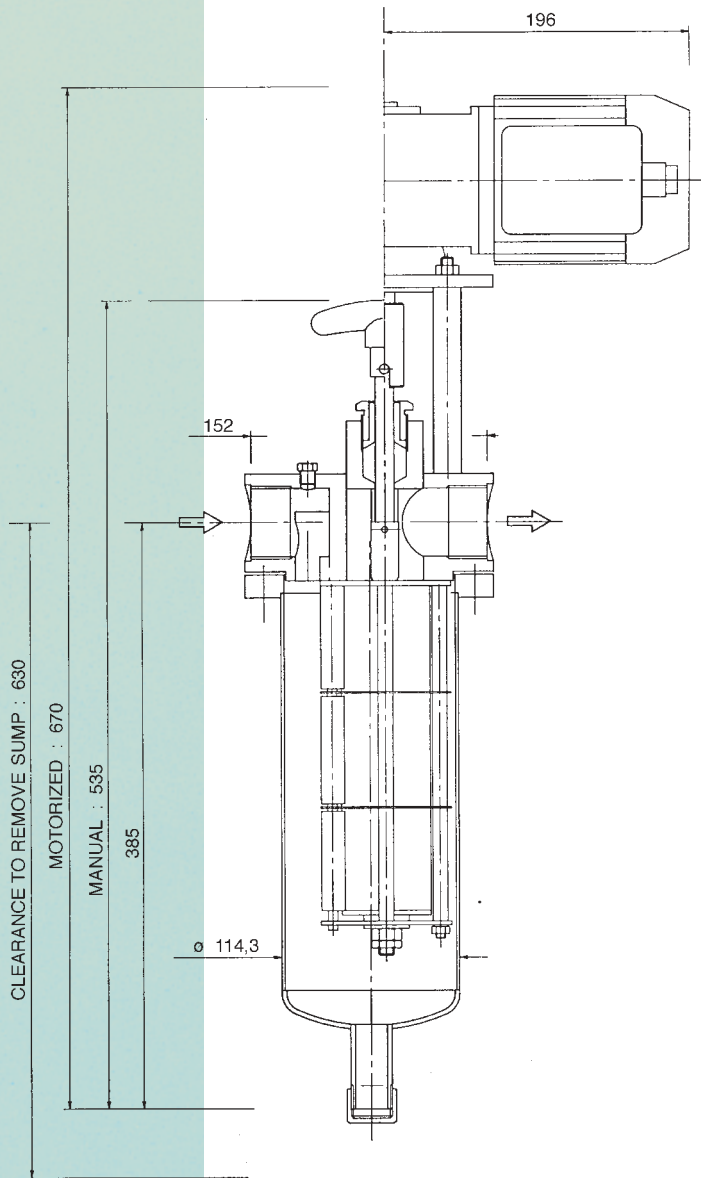
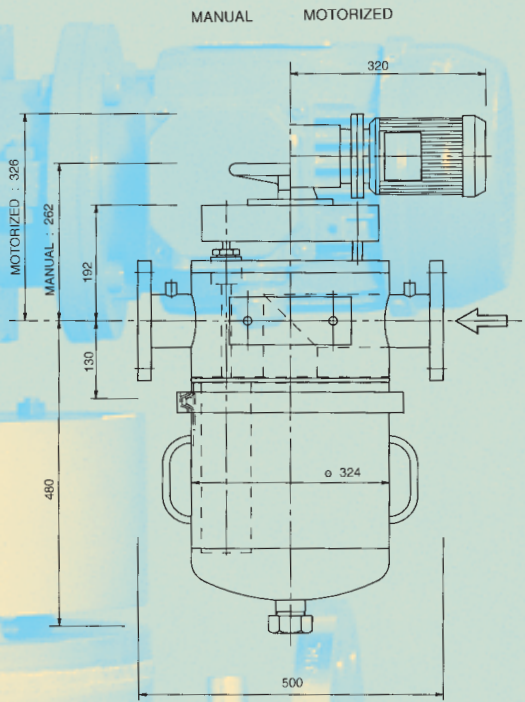
FOR 2" 1/4 UBT CARTRIDGES													
MANUAL VERSION							MOTORIZED VERSION						
SERIE	TYPE	INLET/OUTLET	MATERIAL				SERIE	TYPE	INLET/OUTLET	MATERIAL			
			C - STEEL		304 SS - STEEL					C - STEEL		304 SS - STEEL	
			10 barg (16 barg**) / 110°C							10 barg (16 barg**) / 110°C			
		DRAWING	P/N*	DRAWING	P/N*			DRAWING	P/N*	DRAWING	P/N*		
AK	202	DN 50	23301-01	1332000	23306-01	1332008	AKM	202	DN 50	23301-03	1332001	23306-03	1332009
	203	DN 80	23302-01	1332002	23307-01	1332010		203	DN 80	23302-03	1332003	23307-03	1332011
	204	DN 80	23303-01	1332004	23308-01	1332012		204	DN 80	23303-03	1332005	23308-03	1332013
	205	DN 100	25300-01	1332006	23309-01	1332014		205	DN 100	25300-03	1332007	23309-03	1332015
	211	Rp 1" 1/2	-	-	23700-01	1331102		211	Rp 1" 1/2	-	-	23701-01	1331105

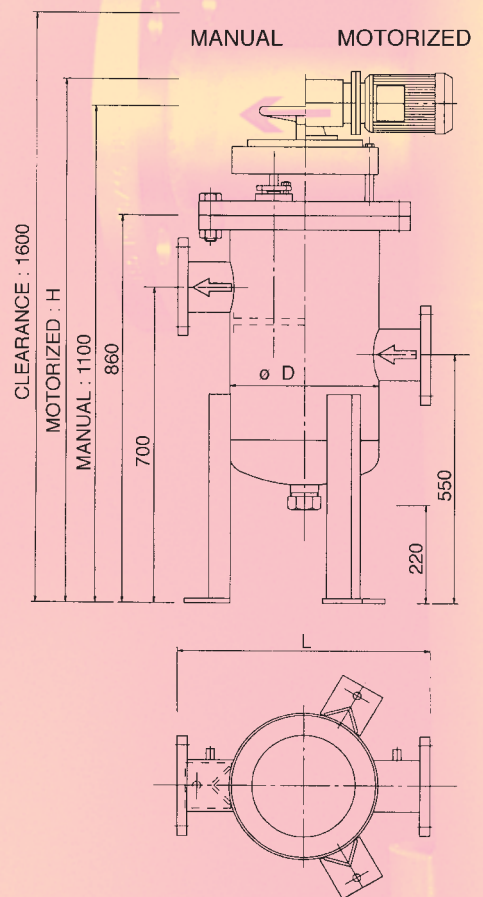
FOR 2" 1/2 UBTS CARTRIDGES													
MANUAL VERSION							MOTORIZED VERSION						
SERIE	TYPE	INLET/OUTLET	MATERIAL				SERIE	TYPE	INLET/OUTLET	MATERIAL			
			C - STEEL		304 SS - STEEL					C - STEEL		304 SS - STEEL	
			10 barg (16 barg**) / 110°C							10 barg (16 barg**) / 110°C			
		DRAWING	P/N*	DRAWING	P/N*			DRAWING	P/N*	DRAWING	P/N*		
AK	202 S	DN 50	23301-02	1342000	23306-02	1342008	AKM	202 S	DN 50	23301-04	1342001	23306-04	1342009
	203 S	DN 80	23302-02	1342002	23307-02	1342010		203 S	DN 80	23302-04	1342003	23307-04	1342011
	204 S	DN 80	23303-02	1342004	23308-02	1342012		204 S	DN 80	23303-04	1342005	23308-04	1342013
	205 S	DN 100	25300-02	1342006	23309-02	1342014		205 S	DN 100	25300-04	1342007	23309-04	1342015
	211 S	Rp 1" 1/2	-	-	23700-02	1341102		211 S	Rp 1" 1/2	-	-	23701-02	1341105

\* ) P/N of housing without cartridge - \*\* ) AK 211 only.

### DESIGNATION :







	<b>D</b>	<b>L</b>	<b>H</b>
TK 222	273	500	1200
TK 223	273	500	1200
TK 224	324	550	1290
TK 225	350	600	1290

## TK 200 SERIES TURNO-KLEAN HOUSINGS

- TK 200 series housing is available in carbon steel and stainless steel AISI 304. They are equipped with 2" 1/4 UBT or UBTS type cartridges made from either carbon steel or stainless steel.
- The cartridge length can be 5" or 8". With a maximum of 5 cartridges per housing.
- Inlet and outlet are off set and the sump supplied with legs which is bolted to the head.
- The head is removable together with the cartridges.
- The design conditions are 10 barg (304SS-Steel) and 16 barg (C-Steel) at 110°C.
- Gasket material :
  - C-Steel version : Klingersil and Viton
  - 304SS-Steel version : PTFE and Viton
- Motor for «M» versions : 230/ 400 V - 50 Hz, protection IP 55 (EEX on request).

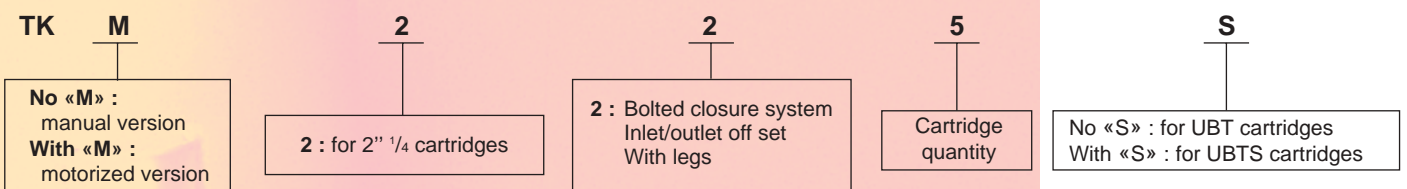


FOR 2" 1/4 UBT CARTRIDGES													
MANUAL VERSION							MOTORIZED VERSION						
SERIE	TYPE	INLET/ OUTLET	MATERIAL				SERIE	TYPE	INLET/ OUTLET	MATERIAL			
			C - STEEL		304 SS - STEEL					C - STEEL		304 SS - STEEL	
			16 barg** / 110°C		10 barg / 110°C					16 barg** / 110°C		10 barg / 110°C	
			DRAWING	P/N*	DRAWING	P/N*				DRAWING	P/N*	DRAWING	P/N*
TK	222	DN 50	24901-01	1333000	24911-01	1333008	TKM	222	DN 50	24901-03	1333001	24911-03	1333009
	223	DN 80	24902-01	1333002	24912-01	1333010		223	DN 80	24902-03	1333003	24912-03	1333011
	224	DN 100	24903-01	1333004	24913-01	1333012		224	DN 100	24903-03	1333005	24913-03	1333013
	225	DN 100	24904-01	1333006	24914-01	1333014		225	DN 100	24904-03	1333007	24914-03	1333015

FOR 2" 1/4 UBTS CARTRIDGES													
MANUAL VERSION							MOTORIZED VERSION						
SERIE	TYPE	INLET/ OUTLET	MATERIAL				SERIE	TYPE	INLET/ OUTLET	MATERIAL			
			C - STEEL		304 SS - STEEL					C - STEEL		304 SS - STEEL	
			16 barg** / 110°C		10 barg / 110°C					16 barg** / 110°C		10 barg / 110°C	
			DRAWING	P/N*	DRAWING	P/N*				DRAWING	P/N*	DRAWING	P/N*
TK	222 S	DN 50	24901-02	1343000	24911-02	1340008	TKM	222 S	DN 50	24901-04	1343001	24911-04	1340009
	223 S	DN 80	24902-02	1343002	24912-02	1343010		223 S	DN 80	24902-04	1343003	24912-04	1343011
	224 S	DN 100	24903-02	1343004	24913-02	1343012		224 S	DN 100	24903-04	1343005	24913-04	1343013
	225 S	DN 100	24904-02	1343006	24914-02	1343014		225 S	DN 100	24904-04	1343007	24914-04	1343015

\*) P/N of housing without cartridge - \*\*) TK 220 S only.

### DESIGNATION :



## OTHER HOUSINGS

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### SERIES 400

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The series 400 housings are designed for the 4.4" cartridge which can go up to flow rate of 79 m<sup>3</sup>/h (*depending on the application*) with a filtration rate of 125 to 3200µm.

The material for the housing and cartridge can be C-Steel or Stainless Steel AISI 304.

### SERIES 500

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The series 500 housings are designed for the 5.7" cartridge which can go up to flow rate of 540 m<sup>3</sup>/h (*depending application*) with a filtration rate of 50 to 380µm.

The material for the housing and cartridge can be C-Steel or Stainless Steel AISI 304.

### SERIES 700

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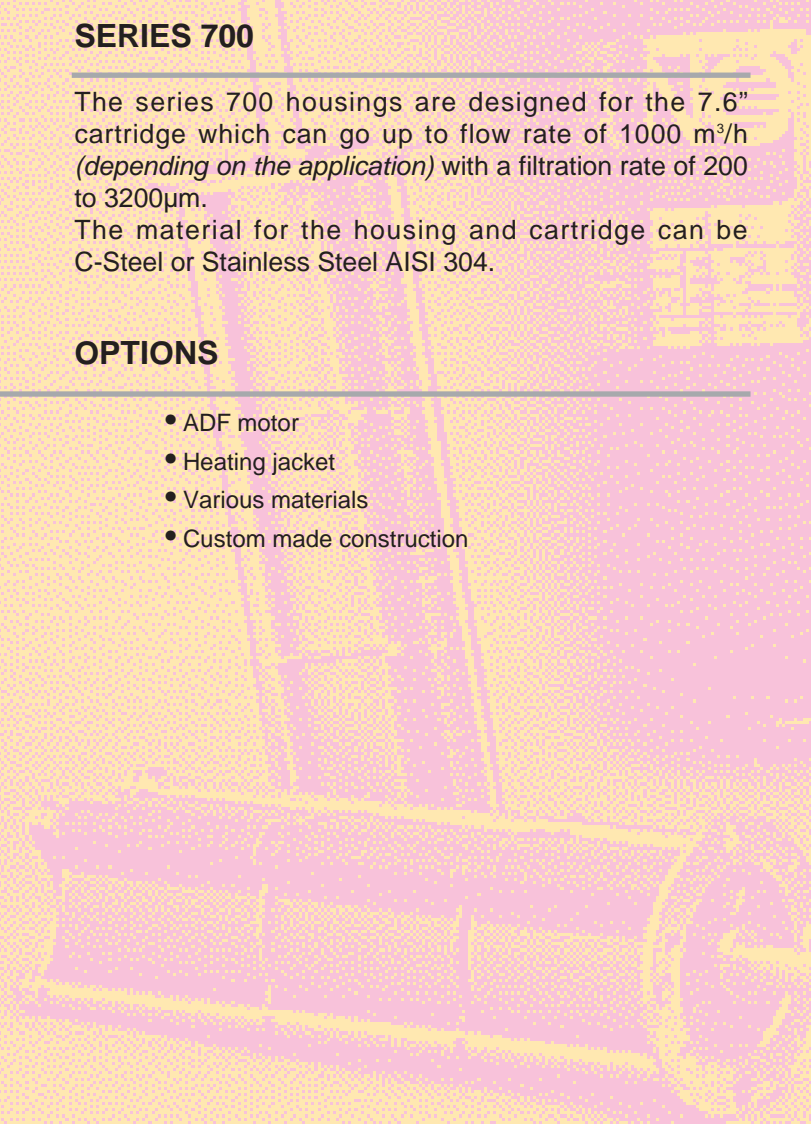
The series 700 housings are designed for the 7.6" cartridge which can go up to flow rate of 1000 m<sup>3</sup>/h (*depending on the application*) with a filtration rate of 200 to 3200µm.

The material for the housing and cartridge can be C-Steel or Stainless Steel AISI 304.

## OPTIONS

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- ADF motor
- Heating jacket
- Various materials
- Custom made construction



Mr/Ms

Fax :

Date :

Company :

Project :

Expected order date :

Prev. delivery time :

1	Quantity of identical housings =	Tag Nr =	
2	Fluid = (Liquid)	Density =	
3	Flow : Max = m <sup>3</sup> /h	Nom. = m <sup>3</sup> /h	Min. = m <sup>3</sup> /h
4	Design Pressure = barg	If vacuum : Min. = bar abs	
5	Design Temperature = °C	If < 0°C : Min. = °C	
6	Operating Pressure : Max = barg	Nominal = barg	
7	Operating Temperature : Max = °C	Nominal = °C	
8	Viscosity at Nom. Temp. = cP	at Min. Temp. = cP	
9	Filtration Rate = micron		
10	Contaminants : Type, Quantity and Size analysis at Nominal and Max. Conditions =		
11	Pressure loss : mbar	Maximum = mbar	
12	Desired Housing Model =		
13	Materials : Housing = C-Steel / SS 304 L / SS 316 L / Other = Gaskets = Standard / Other =		
14	Painting (C-Steel version only) : Outside = Standard / Other =		
15	Closure System : Principle = Standard / Other = Bolting = Standard / Other =		
16	Connections (if not standard) :	DN	PN
	- Inlet/Outlet =		Flange / R / Rp .....
	- Drains =		Bride / R / Rp .....
	- Vent =		Bride / R / Rp .....
17	Electric Supply = Volt, Hz, Phase, IP=	EEx =	
18	Construction Code : No / Yes = CODAP A-B-C, ASME VIII, AD-M, Other =		
19	Certificates : Material = EN 10204 : 2.1 / 2.2 / 3.1 B / Other =		
	Test = Pressure test / Other =		
	Other =		
20	Inspection : Design Approval = No / Yes (specify) =		
	Manufacturing Hold Points = No / Yes (specify) =		
	Final customer inspection = No / Yes (specify) =		
21	Assistance on site requested : No / Yes (specify) =		
22	Options : Heating jacket : Fluid, p, t and Connections =		
23	Instrumentation =		
24	Other =		
Remarks :			

Please copy, fill in and send to CUNO Engineering Dept (fax : 33 3 21 46 02 58)

# INDUSTRIAL FILTER HOUSINGS

Cuno manufactures a complete line of self-cleaning filter housings to meet most application requirements. Models are available in a wide range of construction materials, to suit a variety of application needs. For more information about CUNO filter housings, consult your local CUNO distributor.



Your local CUNO Distributor :

## APPLICATIONS SUPPORT - SASS

Cuno's Scientific Applications Support Services (SASS) is staffed by scientists and engineers, with state-of-the-art laboratory facilities.

The SASS staff, familiar with a wide range of filtration and separation applications, work closely with the customer to recommend the most effective and economical Cuno filtration systems.



**Service Worldwide**

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