

CUNO™ CTG-Klean System

The Clean, Totally Enclosed, Cost-Effective, Operator-Friendly Alternative to Conventional Filter Change-Out

The CUNO™ CTG-Klean system is a totally enclosed filtration system that uses a separate pressure vessel and disposable filter pack to isolate the product to be filtered from the housing. This exclusive design reduces the extensive time and labor involved with filter change-outs and cleaning of conventional housings. Environmental concerns and operator exposure to product cleaning solvents are substantially reduced. The streamlined system, coupled with high performance, long-life filters, make CUNO CTG-Klean systems the clear choice for safe,environment friendly, cost-effective filtration.



Features & Benefits

Totally enclosed filter pack avoids handling of used filter cartridges

- No cleaning required
- Limited operator exposure
- · Reduced labor and faster turn-around
- No cross contamination of products

Design reduces gaskets, posts, spring & seal assemblies, and seal plates

- No components to clean, lose, damage, or stock
- No gaskets or O-rings to damage, swell, or replace

Filter pack can be capped and reused

 Reduces operating costs by eliminating unnecessary disposal of partially used filter cartridges

Filter packs are factory sealed

• No potential for by-pass caused by improper cartridge installation

Easy to use design minimizes downtime

• Rapid filter change-out reduces labor and the need for duplex systems

Applications

CUNO™ CTG-Klean totally enclosed, factory-sealed filter system addresses the needs of manufacturers in:

Automotives	Paint Manufacturing, Assembly Plants, Coil Coatings
Inks & Printing	Ink Production, Printing Press Protection, Plating Processes
Chemicals	High Quality Chemicals, Hazardous Chemicals



The CUNO™ CTG-Klean System

The CUNO™ CTG-Klean system design is engineered to minimize operator exposure to the fluid and reduce the time and labor required for cleaning. The diagram below illustrates how the filter pack and housing work together to deliver quality filtration the first time.

Inlet/Outlet Ports Inlet/outlet ports are off-set Cone to prevent incorrect assembly. System Head & **Housing Closure** Connector Tapered cone connectors seal System head is fastened to the the CUNO™ CTG-Klean system sump by easy-to-use swing bolts to the inlet/outlet plumbing; (clamps are used for the 1WTS models) no need for O-rings and gaskets. for even and consistent positive pressure seal, with no need for gaskets and O-rings. Cone Nut CUNO™ CTG-Klean Cone nuts provide quick and **System Filter Housing** easy filter pack installation and removal. Different thread Quality 304 stainless steel sizes for inlet and outlet nuts construction with choice of pressure prevent incorrect connections. rating and code designs. **Upper & Lower Housing Vent Cartridge Seal Plates** Housing vent for compressed air "blowdown" for decreased holdup Upper and lower seal plates define volume and ease of filter pack removal. the flow path — no filter by-pass. Filter Media **Filter Pack Liner** CUNO™ CTG-Klean systems

Multi-layer polyethylene liner

acts as a barrier between the product

filtered and the housing; no need for clean-upduring change-out.

are available witha wide array

of filter media (see media selection).

How the CUNO™ CTG-Klean System Works

The Ultimate in Ease-of-Use

CUNO™ CTG-Klean system are available with all of the components necessary for installation, including flexible hose, valves, and gauges. Set-up and subsequent filter pack replacement take only minutes.





Remove the plastic inlet and outlet port caps from the filter pack Open the housing and insert the filter pack. Place the housing head onto the filter pack.



Seal the housing head to the sump by tightening the bolts uniformly to the recommended torque.



Connect the inlet and outlet flexible lines to the inlet and outlet ports of the housing head.



Open the inlet and outlet valves. The system is now ready for start-up and operation!



To remove the filter pack: vent the system, lift the pack and head together and insert the spacer fork. Disconnect the lines. Remove the head. Cap the filter pack and remove the pack from the sump.

The CUNO™ CTG-Klean System Applications

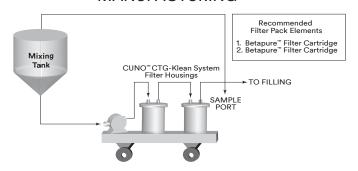
Automotive Paint Manufacturing

The CUNO™ CTG-Klean system provides a totally enclosed, factory sealed system addressing the needs of automotive paint producers. The design minimizes clean-up of housings and internal housing parts, reducing labor, solvent use, and waste. The combination of a totally enclosed filter pack and easy-to-clean housing design reduces the opportunity for contaminants to enter the process and ensures complete cleaning from batch-to-batch color changes.

CUNO™ CTG-Klean System Advantages:

- Facilitates complete cleaning from batch-to-batch
- No housing exposure to the paint, reducing cleaning time, solvent usage, and operator exposure
- Enclosed filter pack minimizes operator exposure to hazardous chemicals
- Gaskets and O-rings, posts and seal assemblies not required

AUTOMOTIVE PAINT MANUFACTURING



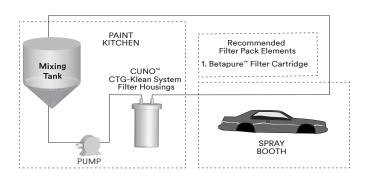
Automotive Assembly Plants

The CUNO CTG-Klean system design provides the cost-effective solution to the growing industry concern to reduce solvent use and exposure of employees to hazardous chemicals. The factory assembled pack provides a positive seal, avoiding filter by-pass and providing quality product. The combination of the CUNO CTG-Klean system design and state-of-the-art Betapure™ filter cartridge provides significant cost savings through reduced rework.

CUNO™ CTG-Klean System Advantages:

- Rapid filter pack change-out; no need for duplex housing systems
- Enclosed filter pack limits operator exposure to hazardous chemicals
- No internal housing parts or O-rings minimizes cleaning, damage, and stocking of replacement parts
- No housing exposure to the paint, reducing cleaning time, solvent usage, and operator exposure

AUTOMOTIVE ASSEMBLY



The CUNO™ CTG-Klean System Applications

Coil Coating

Factory sealed and reusable packs prevent by-pass and provide the highest quality coating possible. The self-contained system simplifies the filter change-out process to reduce down time between color changes. The amount of solvents typically used to flush conventional housings can be reduced by as much as 80%. Installation of the CUNO CTG-Klean system in place of conventional housings and cartridges significantly reduces filtration costs, enhances productivity, and increases overall product quality.

CUNO™ CTG-Klean System Advantages:

- Rapid filter pack change-out reduces system downtime and labor between color or product change
- Self-contained cartridge packs can be capped and reused to avoid disposal of partially used filter cartridges
- No housing exposure to the coating, reducing solvent use by up to 80%

The CUNO™ CTG-Klean System Applications

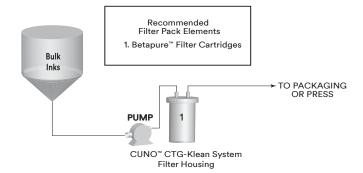
Ink Manufacturing and Printing

CUNO CTG-Klean system is ideal for use in the ink manufacturing industry and for printing press final quality. For both large and small volume runs, CUNO CTG-Klean system can provide superior quality product while increasing both filter life and filtration efficiency. In addition, up to 95 % of the hold-up volume can be recovered from the system, the used filter pack can be capped and stored for repeated use, lowering overall production/process costs.

CUNO™ CTG-Klean System Advantages:

- Rapid color change-out reducing downtime and labor for increased productivity on expensive presses
- Helps eliminate ink agglomerates for enhanced quality printing
- Self-contained cartridge packs can be capped and reused to avoid disposal of partially used filter cartridges
- Ink never contacts the housing reducing cleaning time and operator exposure to cleaning solvents

INK MANUFACTURING & PRINTING PRESS PROTECTION



CUNO™ CTG-Klean System Pack Filter Media

The CUNO™ CTG-Klean filter pack can accommodate a wide variety of 3M Purification Inc. filter media, including bicomponent depth filters, resin bonded depth filters, polypropylene depth and surface filters, and absolute rated membrane filters. This extensive offering ensures compatibility with most fluids in most applications. Each media type has a range of reduction ratings allowing for optimum filtration for all applications.

Betapure™ Filters

The Betapure™ filter is a state-of-the-art rigid, bicomponent fiber depth filter, available in absolute ratings from 2 to 190 microns, manufactured using the most advanced fiber technology to provide the ultimate in consistent classifying filtration performance. For more information about Betapure filters, ask your local 3M Purification distributor for literature number 70-0201-8690-7.

- Excellent classification characteristics
- Rigid non-deformable structure to withstand high pressure drops
- Bonded rigid structure prevents fiber shedding and any possible media migration
- Consistent absolute filtration batch to batch

Micro-Klean™ RT Series Filters

Micro-Klean™ RT series filters feature all-polypropylene, rigid, thermal-bonded construction and are available with nominal ratings from 1 to 75 microns. With up to ten times the service life of competitive filter products, the economy of Micro-Klean RT series filters provides clear advantages. For more information about Micro-Klean RT series filters, ask your local 3M Purification distributor for literature number 70-0201-8723-6.

- · Consistent filtration throughout the life of the filter
- Up to ten or more times the service life of competitive filter
- Low operating pressure drop achieves the required flow using fewer filter elements







Betafine™ DP and Betafine™ XL Filters

The Betafine™ family of industrial filter cartridges are pleated polypropylene available with absolute ratings from 0.2 to 70 microns. For more information, ask your local 3M Purification distributor for literature number 70-0201-8617-0 (Betafine™ DP filters) and 70-0201-8686-5 (Betafine™ XL filters).

- Consistent, absolute-rated, pleated polypropylene media
- High surface area for excellent flow characteristics
- · Long service life
- · Excellent clarification characteristics
- · Chemically and mechanically clean



Betapure™ NT-T Filters

Betapure™ NT-T filters are 100% polypropylene absolute-rated depth filters. Betapure NT-T filters are available with absolute reduction ratings from 0.5 to 70 microns. For more information, ask your local 3M Purification distributor for literature number 70-0201-8720-2.

- Consistent absolute-rated media
- Superior service life
- Excellent flow permitting smaller housings
- · Excellent chemical compatibility
- Chemically and mechanically clean



Micro-Klean™ D Series Filters

The Micro-Klean™D series cartridge is a "blanket" structure representing a major advance over conventional wound cartridges. The unique winding process provides up to 2-1/2 times more open area than conventional wound filters for increased flow and longer service life. Micro-Klean D series filters are available with nominal ratings from 0.5 to 350 microns. For more information about Micro-Klean D series filters, ask your local 3M Purification distributor for literature number 70-0201-8716-0.

- · Higher filtration efficiency at the selected micron rating
- Better flow characteristics than conventional wound filters
- Consistent filtration efficiency
- Long service life

Other Media Available in CUNO™ CTG-Klean Systems

3M Purification Inc. offers many of its industry-leading filter media in CUNO™ CTG-Klean systems packs, from pleated cellulose-based paper, to Nylon 66 and PTFE membrane, to economical string-wound filters — with new products constantly added. For more information about 3M Purification filter media and CUNO CTG-Klean systems in your application, consult your local 3M Purification distributor.

CUNO™ CTG-Klean Systems — Hardware and Options

CUNO™ CTG-Klean systems hardware and options simplify system installation and provide flexibility. All components are manufactured from high quality stainless steel for extended service life, exceptional durability, and ease of cleaning.

Flexible Line Plumbing Kit

The system is designed with the inlet and outlet ports on the housing head which must be reduced to allow access for installation and for removal of the pack. High pressure stainless steel flexible plumbing should be used instead of "hard" piping. 3M Purification offers a standard plumbing kit that includes the threaded hose, ball-valves, all connectors, and pressure gauges.



System Flushing Elbow

Cleaning conventional filter housings requires solvent use. With the CUNO CTG-Klean system, the process liquid never comes in contact with the housing so it is only necessary to flush the inlet and outlet plumbing. These lines, connected by the flushing elbow, can be flushed with the CUNO CTG-Klean system off-line. The stainless steel flushing elbow is available for all CUNO CTG-Klean system filter housing configurations and is supplied with one or two fluorocarbon O-rings.



Housing Volume Reducer

In processes where the batch size can vary or where process changes reduce the contaminant load, fewer filter cartridges could be used if a smaller housing were available. Using the CUNO CTG-Klean system Volume Reducer drives down the cost of filtration by allowing the use of shorter filter packs to cut the total filtration cost. The volume reducer is available for the 3WTS and 7WTS configurations to allow use of a single high filter pack in the two-high housing (3WTS2 and 7WTS2), or a two-high filter pack in the three-high housing (3WTS3 and 7WTS3).



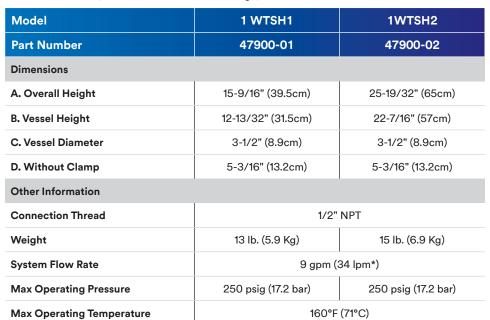
Tilting Device

The tilting mechanism allows for greater ease of use and the recovery of up to 95% of the hold-up volume from the filter pack. In addition, the tilting device reduces lifting the potentially heavy used filter pack for safe and easy reduction. The durable stainless steel construction makes the tilting device ideal for stand-alone or skid mounted service.



CUNO™ CTG-Klean System Dimensions

Model 3M™ 1WTS (1 Around x 10" or 20" Cartridge)

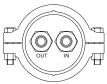


^{*}Based on 10' per second velocity through the inlet and outlet fittings. System operating pressure and flow are dictated by the filter cartridge used in the filter pack.

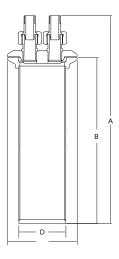
Model 3M™ 3WTS (3 Around x 10" or 20" Cartridge)

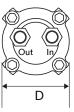
Model	3WTS1	3WTS2	3WTS3			
Dimensions						
A. Overall Height	17" (43.18cm)	27" (68.58cm)	37" (93.98cm)			
B. Vessel Height	12-3/4" (32.38cm)	22-3/4" (57.78cm)	32-3/4" (83.18cm)			
C. Vessel Diameter	6-5/8" (16.83cm)	6-5/8" (16.83cm)	6-5/8" (16.83cm)			
D. Overall Diameter	8-1/2" (21.59cm)	8-1/2" (21.59cm)	8-1/2" (21.59cm)			
Other Information						
Connection Thread		1" NPT				
Approximate Shipping Weight	35 lb. (16 Kg)	53 lb. (24 Kg)	62 lb. (28 Kg)			
Closure Torque		30 ft./lbs. (40.7 Nm)				
System Flow Rate		24 gpm (91 lpm*)				
150 lb. ASME Code Housings Part Number	47514-01	47514-02	47514-03			
Max Operating Pressure		150°F (10°C)				
Max Operating Temperature		160°F (71°C)				

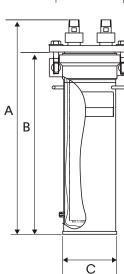
^{*}Based on 10' per second velocity through the inlet and outlet fittings. System operating pressure and flow are dictated by the filter cartridge used in the filter pack.



1WTSH - 250 psi Clamp



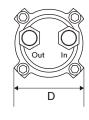


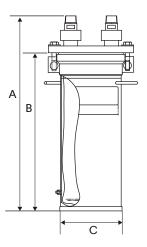


CUNO™ CTG-Klean System Dimensions

Model 3M™ 7WTS (7 Around x 10", 20", or 30" Cartridge)

·			
Model	3WTS1	зwтsз	
Dimensions			
A. Overall Height	18-1/2" (46.99cm)	28-1/2" (72.39cm)	38-1/2" (97.79cm)
B. Vessel Height	13" (33.02cm)	23" (58.42cm)	33" (83.82cm)
C. Vessel Diameter	8-7/8" (22.54cm)	8-7/8" (22.54cm)	8-7/8" (22.54cm)
D. Overall Diameter	10-1/4" (26.04cm)	10-1/4" (26.04cm)	10-1/4" (26.04cm)
Other Information			
Connection Thread		1-1/4" NPT	
Approximate Shipping Weight	66 lb. (30 Kg)	82 lb. (37 Kg)	96 lb. (43 Kg)
Closure Torque		30 ft./lbs. (40.7 Nm)	
System Flow Rate		34 gpm (128 lpm*)	
150 lb. ASME Code Housings Part Number	47517-01	47517-03	
Max Operating Pressure		150°F (10°C)	
Max Operating Temperature		160°F (71°C)	





Ordering CUNO™ CTG-Klean systems

CUNO™ CTG-Klean systems are available in a wide range of sizes. Please consult your local 3M Purification distributor for other housing and pack sizes, and filter pack liner materials other than polyethylene.

Ordering Cuno CTG-Klean Systems

Harris a Mardal	Number of Equivalent single-length cartridges						
Housing Model	1-High Filter Pack	2-High Filter Pack	3-High Filter Pack				
1WTS1	1						
1WTS2		2					
3WTS1	3						
3WTS2	3*	6					
3WTS3		6*	9				
7WTS1	7						
7WTS2	7*	14					
7WTS3		14*	21				

^{*}Use with optional volume reducer.

^{*}Based on 10' per second velocity through the inlet and outlet fittings. System operating pressure and flow are dictated by the filter cartridge used in the filter pack.

Ordering CUNO™ CTG-Klean Systems — Ordering Guide for Filter Packs

Betapure™ Filter Pack - Z Grades

Number of	Pack	Cartridge	Cartridge	Cartridge Insert		rade Designation		
Cartridges Around	Designation	Length	Type	Media Type	Code	Absolute Rating (micron)		
					020	2		
			Gla High AU – Betapure™	Z13 – Polyolefin/ Glass	030	3		
1		1 – 1 High		Giass	050	5		
3	GPK – CUNO™			h AU – Betapure™	2 – 2 High AU – Betapure™		060	6
7	CTG-Klean Pack					AO - Betapure	Ao - betapure	
/		3 – 3 High		Z11 – Polyolefin	100	10		
								120
					150	15		

Betapure™ Filter Pack - Standard Grades

Number of	Pack	Cambridge	Contridor	Cartridge	Envirolant		Grade Design	ation		
Cartridges Around	Designation Designation	Cartridge Length	Type	e Equivalent Single Length		Nominal Rating (micron)	Absolute Rating (micron)			
					В	5	20			
					С	10	30			
					Е	20	40			
1		1 – 1 High 2 – 2 High 3 – 3 High	1 0					G	30	70
3	GPK – CUNO™ CTG-Klean Pack		AU – Betapure [™]	09	L	50	90			
7	CTG-RiealiT ack						h		Q	75
										V
					W	150	160			
					Х	175	190			

Micro-Klean™ D Series Filter Pack

Nomboure	D. d.	O a material man	Grade D		de Designation										
Number of Cartridges Around	Pack Designation	Cartridge Length	Cartridge Type	Insert Media Type	Core Material	Code	Nominal Rating (micron)								
						Z	0.5								
						Υ	1								
												Α	3		
		1 1 Lliah	2 – 2 High D			В	5								
3	GPK – CUNO™			igh D			D	D .	D	D .	D .	PP – Polypropylene	D. Dahananadana	С	10
	CTG-Klean Pack				CC - Cotton	P – Polypropylene	F	25							
7		3-3 High			3 High	aign			L	50					
												Q	75		
					V	100									
						W	350								

PLEASE NOTE: The Ordering Guide above is for reference only. Not all combinations are available. Please consult with your 3M Representative to determine the appropriate part number for your application.

Ordering CUNO™ CTG-Klean Systems — Ordering Guide for Filter Packs

Betapure™ NT-T Filter Pack

Number of	Pack	Cartridge	Cartridge	Gı	Grade Designation	
Cartridges Around	Designation	Length	Type	Code	Absolute Rating (micron)	
				T005	0.5	
				T010	1	
				T020	2	
1		1 1Uiah		T030	3	
3	GPK – CUNO™			T050	5	
	CTG-Klean Pack	2 – 2 High 3 – 3 High		T100	10	
/	7		3 – 3 rigii	S riigii	T200	20
				T400	40	
				T500	50	
				T700	70	

Betafine™ DP & Betafine™ XL Filter Packs

Number of	Pack	Cartridge	Cartridge	Gı	rade Designation	
Cartridges Around	Designation	Length	ngth Type		Absolute Rating (micron)	
				002	0.2	
					005	0.5
1		1 – 1 High	DP – Betafine™ DP	010	1	
3	GPK – CUNO™ CTG-Klean Pack	2 – 2 High 3 – 3 High	2 – 2 High XL – Betafine™ XL	025	2.5	
7				050	5	
				100	10	
				200	20	

Micro-Klean™ RT Series Filter Pack

Number	Pack	Cartridge	Contrida	Grac	le Designation		Surface						
of Cartridges Around	Designation Designation	Length	Cartridge Type	A 1 D - 1'		Material	Туре						
		1 – 1 High 2 – 2 High		Y	1								
				В	5								
1	GPK – CUNO™		2 – 2 High	2 – 2 High	2 – 2 High	2 – 2 High		С	10				
3	CTG-Klean Pack						· ·	· ·	· ·	· ·	· ·	· ·	9
7		3 – 3 High	h	L	50								
				Q	75								

PLEASE NOTE: The Ordering Guide above is for reference only. Not all combinations are available. Please consult with your 3M Representative to determine the appropriate part number for your application.

Ordering CUNO™ CTG-Klean Systems — Ordering Guide for Housings

Housing Model	Catalog Number	Inlet/ Outlet	Material	Maximum Operating Pressure & Temperature	Filter Pack Configuration	Nominal Cartridge Length (Inches)			
Standard D	Standard Design								
1WTSH1	47900-01	1/2" NPT	304 S.S	250 psi @ 140°F	1 Cartridge by 1 High	10			
1WTSH2	47900-02	1/2 NP1	304 5.5	(9.8 bar @ 60°C)	1 Cartridge by 2 High	20			
150 lb. ASI	150 lb. ASME Code Designed and "U" Stamped								
3WTS1	47514-01	1" NPT			3 Cartridge by 1 High	10			
3WTS2	47514-02	INPI			3 Cartridge by 2 High	20			
3WTS3	47514-03		00400	150 psi @ 160°F	3 Cartridge by 3 High	30			
7WTS1	47517-01	304 S.S	304 S.S	(10 bar @ 71°C)	7 Cartridge by 1 High	10			
7WTS2	47517-02				7 Cartridge by 2 High	20			
7WTS3	47517-03	1-1/4" NPT			7 Cartridge by 3 High	30			

Ordering CUNO™ CTG-Klean Systems — Accessories

Plumbing Kit Ordering Guide

Hood Longth	Brassura Causa	Material	Catalog	Number	
Hose Length	Pressure Gauge	iviateriai	for 3WTS	for 7WTS	
6 ft.	200 psi	Stainless Steel	86938-03	86938-06	

Tilting Device Ordering Guide

Housing Model	Tilting Device Catalog Number
3WTS1, 3WTS2, 3WTS3	67994-01
7WTS1, 7WTS2, 7WTS3	67995-01

Volume Reducer Ordering Guide

Housing Model	For Use When	Catalog Number	
3WTS2	Reducing 2-High to 1-High 47335-01		
3WTS3	Reducing 3-High to 2-High		
7WTS2 Reducing 2-High to 1-High		47070 04	
7WTS3 Reducing 3-High to 2-High		47270-01	

Flushing Elbow Ordering Guide

Model	Catalog Number
зwтs	73570-02
7WTS	73570-03

PLEASE NOTE: The Ordering Guide above is for reference only. Not all combinations are available. Please consult with your 3M Representative to determine the appropriate part number for your application.

Intended Use: 3M CUNO CTG-Klean system are intended for use in industrial filtration applications of aqueous fluids in accordance with the applicable product instructions and specifications. 3M CUNO CTG-Klean system are also intended for use with non-aqueous fluids where materials of construction are compatible. Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the 3M product is suitable and appropriate for the user's specific application, including user conducting an appropriate risk assessment and evaluating the 3M product in user's application.

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