

CARBON FILTERS

CENTRAL AUTOMATIC CARBON FILTERS

AQUA DROPS (CF) SERIES high Performance residential and commercial carbon filters guarantee a wide range of features and control options to satisfy your needs. High Quality Fabrication materials and manufacturing conditions guarantee a superior products.

These Filters are designed to be high quality taste, Odor, Chlorine, Color, Organic and chemical reduction in various water treatment applications.

The AQUA DROPS CF Series are designed and fabricated for residential and commercial applications will a fully automatic control valve and the standard vessels used in this filter are vertical cylindrical design of fiber glass reinforced polyester construction and all used vessels are in line with international testing and certification agencies such as NSF, ASME.

All Filters are sized in accordance to optimum recommended flux rates for optimum efficiency and performance.

HOW TO CHOOSE YOUR FILTER

Several factors must be considered in choosing and sizing a filter in order to achieve satisfactory results:

- A. Maximum Required Flow Rate.
- B. Nature of the suspended matter (Colloidal or Non Colloidal)
- C. Required Quality of treated Water
- D. Availability of an adequate supply of Water for Backwash.

FILTER MEDIA

Filter Media consists of **ACTIVATED CARBON** for removal of taste, Odor, Color, Organic, and Chlorine, this material is a black granular media derived from anthracitic activated coal. Removal is accomplished by adsorption of objectionable species in the porous structure of this activated carbon filter media. Raw water should be relatively free of iron for best results.

SPECIFICATIONS

The filter unit equipped with a Fully automatic self contained " CLACK" control Valve using a cartridge design permitting instant service with timer to automatically control the filter regeneration cycle on a pre set schedule, regeneration and rinse cycles are factory set to accommodate site conditions.

Filter tank suitable for a working pressure of 689KPa (100 Psi) and tested at 50% in excess of the working pressure, 100 % corrosion resistant high performance composite and fiber glass reinforced polyester construction.

The inner shell of filters are both temperature and chemical resistance and shell height design to allow a minimum free broad space of 100% of the resin bed depth for adequate expansion during backwash cycle with maximum pressure drop (8 Psi)



SPECIFICATIONS

The AQUA DROPS CF SERIES are designed with self-cleaning distributors exhibit excellent flow rates and are cleaned automatically by the pressure of the water flow during the backwash cycle, and riser tube with larger diameter to allow higher flow rates for optimum water production whenever required.

Filter tank equipped with one manhole located in the top head of the tank for easy filing or replacement media, and supported by base made by PVC or compression molded fiber glass.

Filter media designed with best quality possessing characteristics of durability, long life, resistance to attrition and impart taste, odor or color, Gravel under bedding to support the mineral bed and protect distributor.

STANDRAD FEATURES:

- Automatic Backwash Valve.
- High Performance FRP Tank
- Time Controller for backwash cycle according to a pre- set schedule.
- Flow controller to limit backwash Cycle.

AVAILABLE OPTION:

- Duplex Systems.
- Stainless Steel tanks.
- Filter Tank Color: Blue or Natural.
- Inlet/ Outlet Pressure gauges
- Inlet/ outlet Sample Valves.
- Epoxy coated steel tanks.

STANDARD OPERATIONS: WARRANTY:

- Operation pressure: 25-125 psi
- Operation temperature: 35-100 F
- Safety Factor: 4:1
- Minimum burst at 600 psi
- For ten (10) years that the fiber glass reinforced polyester vessel will not rust, leak or burst, and for a period of one year after installation that the control valve and all parts will be free from the defects in materials and workmanship.

ACTIVATED CARBON FILTERS

Model No.	Flow Rate (GPM)		Backwash Flow(GPM)	Volume of Media (ft3)	Tank (Dia"xH")	Valve Size	In/Out Conn.	Approx. Wt. (lbs)
	Minimum	Peak						
W-CF844ET	2	5	3	0.70	8×44	1"	1"	60
W- CF1054ET	3	7	4.5	1.50	10×54	1"	1"	90
W- CF1354ET	5	14	7.5	2.50	13×54	1"	1"	145
W- CF1465ET	6	16	8	3.50	14×65	1"	1"	205
W- CF1665ET	7	21	15	4.50	16×65	1"	1"	240
W- CF1865ET	9	24	18	5.50	18×65	1"	1"	350
W- CF2162ET	13	36	25	7.00	21×62	1.5"	1.5"	415
W- CF2472ET	15	47	35	10.0	24×72	1.5"	1.5"	650
W- CF3072ET	24	75	55	15.0	30×72	2"	2"	1,150
W- CF3672ET	35	106	75	21.0	36×72	2"	2"	1,420
W- CF4272ET	48	144	100	30.0	42×72	3"	3"	2,270
W- CF4872ET	60	188	120	43.0	48×72	3"	3"	3,325

ALL FILTERS COMPONENTES ARE MADE IN U.S.A AND CERTIFIED BY NSF AND ASME.



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MULTI-MEDIA FILTERS

CENTRAL AUTOMATIC MULTI-MEDIA FILTERS

AQUA DROPS (MF) SERIES high Performance residential and commercial multi-media filters guarantee a wide range of features and control options to satisfy your needs. High Quality Fabrication materials and manufacturing conditions guarantee a superior products.

These Filters are designed to remove specific dissolved and suspended materials, odors and taste, color and chlorine in various water treatment applications.

The AQUA DROPS MF Series are designed and fabricated for residential and commercial applications will a fully automatic control valve and the standard vessels used in this filter are vertical cylindrical design of fiber glass reinforced polyester construction and all used vessels are in line with international testing and certification agencies such as NSF, ASME.

All Filters are sized in accordance to optimum recommended flux rates for optimum efficiency and performance.

HOW TO CHOOSE YOUR FILTER

Several factors must be considered in choosing and sizing a filter in order to achieve satisfactory results:

- A. Maximum Required Flow Rate.
- B. Nature of the suspended matter (Colloidal or Non Colloidal)
- C. Required Quality of treated Water
- D. Availability of an adequate supply of Water for Backwash.

FILTER MEDIA

Filter Media consists of three layers

SILICA SAND: for removal of suspended solids, this materials granular silica sand available in various sizes for removal of randomly sized suspended solids.

ACTIVATED CARBON: for removal of taste, odor, color, organic and chlorine, this material is a black granular media derived from anthracitic "activated" coal. Removal is accomplished by adsorption of objectionale species in the porous structure of this "activated" carbon filter media.

GRAVEL: Bottom layer of high density material to polish the water, support the media and protect distributor

SPECIFICATIONS

The Filter unit equipped with a Fully automatic self contained " CLACK" control Valve using a cartridge design permitting instant service with timer to automatically control the filter regeneration cycle on a pre set schedule, regeneration and rinse cycles are factory set to accommodate site conditions.

Filter tank suitable for a working pressure of 689KPa (100 Psi) and tested at 50% in excess of the working pressure, 100 % corrosion resistant high performance composite and fiber glass reinforced polyester construction, The inner shell of filters are both temperature and chemical resistance and shell height design to allow a minimum free broad space of 100% of the mineral bed depth for adequate expansion during backwash cycle with maximum pressure drop (5 Psi)



Media is to be choosed as custom application

SPECIFICATIONS

The AQUA DROPS MF SERIES are designed with self-cleaning distributors exhibit excellent flow rates and are cleaned automatically by the pressure of the water flow during the backwash cycle, and riser tube with larger diameter to allow higher flow rates for optimum water production whenever required.

Filter tank equipped with one manhole located in the top head of the tank for easy filing or replacement media, and supported by base made by PVC or compression molded fiber glass.

Filter media designed with best quality possessing characteristics of durability, long life, resistance to attrition and impart taste, odor or color. Gravel under bedding to support the mineral bed and protect distributor.

STANDRAD FEATURES:

- Automatic Backwash Valve.
- High Performance FRP Tank
- Time Controller for backwash cycle according to a pre- set schedule.
- Flow controller to limit backwash Cycle.

STANDARD OPERATIONS:

- Operation pressure: 25-125 psi
- Operation temperature: 35- 100 F
- Safety Factor: 4:1
- Minimum burst at 600 psi

AVAILABLE OPTION:

- Duplex Systems.
- Stainless Steel tanks.
- Filter Tank Color: Blue or Natural.
- Inlet/ Outlet Pressure gauges
- Inlet/ outlet Sample Valves.
- Epoxy coated steel tanks.

WARRANTY:

- For ten (10) years that the fiber glass reinforced polyester vessel will not rust, leak or burst, and for a period of one year after installation that the control valve and all parts will be free from the defects in materials and workmanship.

MULTIMEDIA FILTERS

Model No.	Flow Rate (GPM)		Backwash Flow(GPM)	Volume of Media (ft3)	Tank (Dia"xH")	Valve Size	In/Out Conn.	Approx. Wt. (lbs)
	Minimum	Peak						
W-MF844ET	2	5	5	0.70	44x8	1"	1"	90
W-MF1054ET	3	9	9	1.50	54x10	1"	1"	150
W-MF1354ET	5	14	14	2.50	54x13	1"	1"	250
W-MF1465ET	6	18	18	3.50	65x14	1"	1"	365
W-MF1665ET	7	21	21	4.50	65x16	1"	1"	425
W-MF1865ET	9	27	27	5.50	65x18	1"	1"	450
W-MF2162ET	11	33	33	7.00	62x21	1.5"	1.5"	730
W-MF2472ET	16	47	47	10.0	72x24	1.5"	1.5"	1,060
W-MF3072ET	25	75	75	15.0	72x30	2"	2"	1,755
W-MF3672ET	35	106	105	21.0	72x36	2"	2"	2,280
W-MF4272ET	48	144	140	30.0	72x42	3"	3"	3,445
W-MF4872ET	63	180	175	43.0	72x48	3"	3"	5,050

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ADP SERIES - PLEATED FILTER CARTRIDGES



ADP Series Pleated Filter Cartridges are washable, reusable, and durable with high dirt holding capacity, so replacement is required less often. An extended life span makes the cartridge more economical.

FEATURES

- Pleated design increases surface area and contaminant removal
- Longer filtration life for fewer change-out and less maintenance
- Low pressure drop
- Designed for general water filtration purposes

APPLICATIONS

- R.O. Pre-Filtration
- Process Water, Drinking Water, Cooling Water, Wastewater, Deionized Water, Plating Chemicals

DIMENSION

- Outer Diameter 68mm, 115mm
- Inner Diameter 28mm
- Length 9.75", 9.87", 10", 20", 30", 40"

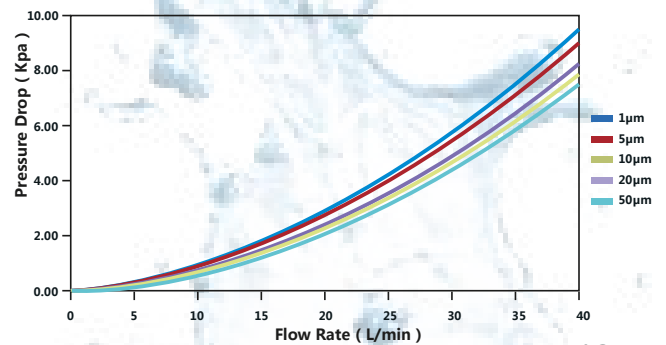
MATERIAL OF CONSTRUCTIONS

- Media Polyester, PP
- End Cap PU, Plastisol
- Core PP

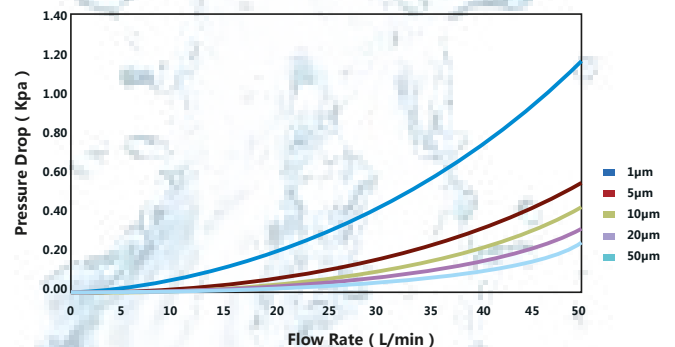
PERFORMANCE

Max. Operating Temperature 37.8 °C
 Max. Operating DP 4.0Bar
 Flow Rate per 10" Cartridge 3-10 GPM, Depends on different removal rating

PRESSURE DROP VS FLOW RATE



ADPS Filter Pressure Drop vs Flow Rate @20°C



ADPB Filter Pressure Drop vs Flow Rate @20°C

ORDERING INFORMATION



Outside Diameter	Removal Rating	Length	Appearance
B=φ115/φ28	0035=0.35µm	975=9.75" (248mm)	W=Netting
S=φ68/φ28	0100=1µm	987=9.87" (250mm)	N=No
	0500=5µm	10=10" (254mm)	
	1000=10µm	20=20" (508mm)	
	2000=20µm	30=30" (762mm)	
	5000=50µm	40=40" (1016mm)	



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SEDIMENT FILTERS

CENTRAL AUTOMATIC SEDIMENT FILTERS

AQUA DROPS (SF) SERIES high Performance residential and commercial sediment filters guarantee a wide range of features and control options to satisfy your needs. High Quality Fabrication materials and manufacturing conditions guarantee a superior products.

These Filters are designed to be high quality removal of suspended solids (up to 5 micron), turbidity, silt and ferric iron reduction in various water treatment applications.

The AQUA DROPS SF Series are designed and fabricated for residential and commercial applications will a fully automatic control valve and the standard vessels used in this filter are vertical cylindrical design of fiber glass reinforced polyester construction and all used vessels are in line with international testing and certification agencies such as NSF, ASME.

All Filters are sized in accordance to optimum recommended flux rates for optimum efficiency and performance.

HOW TO CHOOSE YOUR FILTER

Several factors must be considered in choosing and sizing a filter in order to achieve satisfactory results:

- A. Maximum Required Flow Rate.
- B. Nature of the suspended matter (Colloidal or Non Colloidal)
- C. Required Quality of treated Water
- D. Availability of an adequate supply of Water for Backwash.

FILTER MEDIA

Filter Media consists of three layers

ANTHRACITE : Top layer to consist of light weight chips to retain large flat pieces of debris.

SILICA SAND : Second layer to collect the bulk of course turbidity.

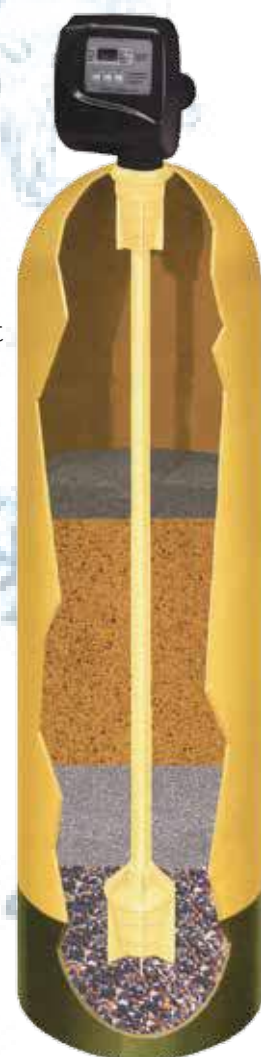
GRAVEL : Bottom layer of high density material to polish the water, support the media and protect distributor.

SPECIFICATIONS

The Filter unit equipped with a Fully automatic self contained " CLACK" control Valve using a cartridge design permitting instant service with timer to automatically control the filter regeneration cycle on a pre set schedule, regeneration and rinse cycles are factory set to accommodate site conditions.

Filter tank suitable for a working pressure of 689KPa (100 Psi) and tested at 50% in excess of the working pressure, 100 % corrosion resistant high performance composite and fiber glass reinforced polyester construction.

The inner shell of filters are both temperature and chemical resistance and shell height design to allow a minimum free broad space of 100% of the mineral bed depth for adequate expansion during backwash cycle with maximum pressure drop (8 Psi)



SPECIFICATIONS

The AQUA DROPS SF SERIES are designed with self-cleaning distributors exhibit excellent flow rates and are cleaned automatically by the pressure of the water flow during the backwash cycle, and riser tube with larger diameter to allow higher flow rates for optimum water production whenever required.

Filter tank equipped with one manhole located in the top head of the tank for easy filing or replacement media, and supported by base made by PVC or compression molded fiber glass.

Filter media designed with best quality possessing characteristics of durability, long life, resistance to attrition and impart taste, odor or color, Gravel under bedding to support the mineral bed and protect distributor.

STANDRAD FEATURES:

- Automatic Backwash Valve.
- High Performance FRP Tank
- Time Controller for backwash cycle according to a pre- set schedule.
- Flow controller to limit backwash Cycle.

STANDARD OPERATIONS:

- Operation pressure: 25-125 psi
- Operation temperature: 35-100 F
- Safety Factor: 4:1
- Minimum burst at 600 psi

AVAILABLE OPTION:

- Duplex Systems.
- Stainless Steel tanks.
- Filter Tank Color: Blue or Natural.
- Inlet/ Outlet Pressure gauges
- Inlet/ outlet Sample Valves.
- Epoxy coated steel tanks.

WARRANTY:

- For ten (10) years that the fiber glass reinforced polyester vessel will not rust, leak or burst, and for a period of one year after installation that the control valve and all parts will be free from the defects in materials and workmanship.

SEDIMENT FILTERS

Model No.	Flow Rate (GPM)		Backwash Flow(GPM)	Volume of Media (ft3)	Tank (Dia"xH")	Valve Size	In/Out Conn.	Approx. Wt. (lbs)
	Minimum	Peak						
W-SF844ET	2	5	5	0.70	8×44	1"	1"	90
W-SF1054ET	3	9	9	1.50	10×54	1"	1"	150
W-SF1354ET	5	14	14	2.50	13×54	1"	1"	250
W-SF1465ET	6	18	18	3.50	14×65	1"	1"	365
W-SF1665ET	7	21	21	4.50	16×65	1"	1"	425
W-SF1865ET	9	27	27	5.50	18×65	1"	1"	450
W-SF2162ET	11	33	33	7.00	21×62	1.5"	1.5"	730
W-SF2472ET	16	47	47	10.0	24×72	1.5"	1.5"	1,060
W-SF3072ET	25	75	75	15.0	30×72	2"	2"	1,755
W-SF3672ET	35	106	105	21.0	36×72	2"	2"	2,280
W-SF4272ET	48	144	140	30.0	42×72	3"	3"	3,445
W-SF4872ET	63	180	175	43.0	48×72	3"	3"	5,050

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ADM SERIES - MELT BLOWN FILTER CARTRIDGE



ADM Series Melt Blown Cartridge are one of the standard Drops filter cartridges. It is fused and intertwined with polypropylene resin without any chemical glues. The cartridge is glued at random to form 3D micro pores which will make the cartridge's 3 layers with fibers on the surface and inside. With the fiber, density from high filtration rating, strong pollutants hold capacity, low pressure drop, gradual changing structure loose outside and close inside, it can remove contaminant effectively, such as suspended substance, particulate and rust, providing efficient filtration and long service life.



Tested and certified by NSF international to NSF/ANSI 42 for material requirement only.

FEATURES

Series	Feature & Benefit
H	Coarse surface · Strong mechanical performance and high pressure resistant
Blank	Smooth Surface · No Fiber Shedding, Graded Density Pore Structure
DG	Deep Groove · Bigger Filtration Area, High Flow & Dirt Holding Capacity
MG	Minigroove · Tight Fiber Construction and High Filtration Efficiency

ORDERING INFORMATION

Diameter	Removal Rating	End Cap Type	Length	Seal Material	Core	Surface
S = $\phi 63/\phi 28$	0100 = 1 μ m	B = DOE (No end caps)	975 = 9.75*(248mm)	N = No	N = No	Blank = Smooth
B = $\phi 115/\phi 28$	0300 = 3 μ m	G = DOE (With PE gaskets)	N10 = 10*(254mm)	S = Silicone	P = PP Core	D = DG
	0500 = 5 μ m	M = 222/Flat	N20 = 20*(508mm)	E = EPDM		M = MG
	1000 = 10 μ m	P = 222/Fin	N30 = 30*(762mm)	B = NBR		H = H
	2500 = 25 μ m	Q = 226/Fin	N40 = 40*(1016mm)	V = FKM		

APPLICATIONS

- R.O. Pre-filtration
- Food and Beverage
- Industry Water, Plating Solution
- Chemical, Organic Solvent Filtration
- Microelectronics
- Pharmaceuticals

DIMENSIONS

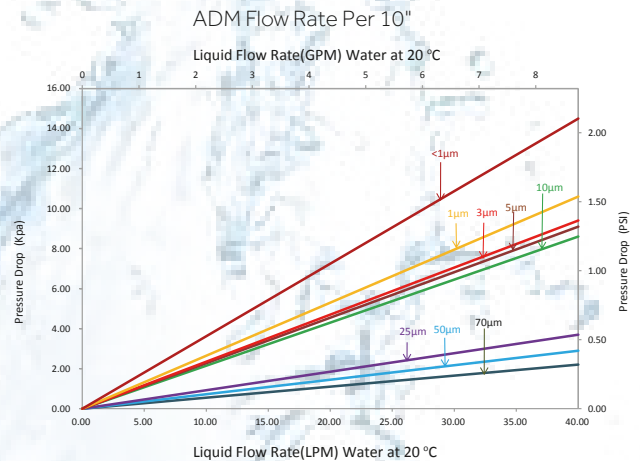
- Outer Diameter 63mm, 115mm
- Inner Diameter 28mm
- Length 9.75", 10", 20", 30", 40"

MATERIAL OF CONSTRUCTIONS

- Media PP
- End Cap PP
- Sealing Silicone, EPDM, NBR, FKM
- Core PP

PERFORMANCE

- Max. operating temperature 65 °C
- Max. operating DP 2.0 Bar @ 21 °C



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STAINLESS STEEL FILTER

COMMERCIAL STAINLESS STEEL FILTER

AQUA DROPS offers heavy duty stainless steel cartridge filter housings constructed of 304 or 316L stainless steel. This sturdy and reliable stainless steel housings have dependable performance and prolonged service life.

Design flow rates range from 35 GPM to 140 GPM to fit a variety of applications. These filters are designed to remove silt, taste and odor.

FEATURES

- 100 % stainless steel for durability.
- All 304 or 316 stainless steel construction.
- Adjustable top plate accepts variable length cartridges for more options.
- Legs and mounting tabs are available.
- Controlled flow baffle on inlet to extend cartridge life.
- Housings accept standard DOE (double open end) cartridge filter elements of various sizes.
- Protective poly-coat over stainless steel standard finish.
- Electro-polishing is available.
- Pressure gauges on inlet and outlet is available.
- Accept complete range of filter media.
- Accept 9-3/4" cartridges.
- All gaskets are FDA Buuna-N material.
- Air vent allows venting before start-up or draining

STANDARD OPERATION

Working Pressure: 15-150 PSI @ 250 F.

Operation Temperature: 40-250 F.

Initial pressure Drop <1 psi

Applications

House Hold Water Supplies

Aquarium / Aqua culture

Hospitals & Laboratories

Pharmaceutical industry

Food Processing

Hotels & Restaurants

Schools



HOUSING SPECIFICATIONS AND PERFORMANCE DATA

316 L Stainless Steel Filter Housings With Electro Polish Finish

MODEL NO.	MAX FLOW RATE (GPM)	CARTRIDGE LOAD	INLET/OUTLET	DRAIN	VENT
CSS-10-316L	35	10*5"	1.5"	½" NPT	¼" NPT
CSS-20-316L	70	20*5"	1.5"	½" NPT	¼" NPT
CSS-30-316L	105	30*5"	2"	½" NPT	¼" NPT
CSS-40-316L	140	40*5"	2"	½" NPT	¼" NPT



Based on sediment removal with a 5-micron pleated cartridge and 1 PSIG initial clean pressure drop.

304 Stainless Steel Filter Housings with Poly Coat Finish

MODEL NO.	MAX FLOW RATE (GPM)	CARTRIDGE LOAD	INLET/OUTLET	DRAIN	VENT
CSS-10-304	35	10*5"	1.5"	½" NPT	¼" NPT
CSS-20-304	70	20*5"	1.5"	½" NPT	¼" NPT
CSS-30-304	105	30*5"	2"	½" NPT	¼" NPT
CSS-40-304	140	40*5"	2"	½" NPT	¼" NPT



WARNING: If pressure exceeds 125 psi (8.62 bar) at any time, a pressure regulator must be used. Do not use water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

CAUTION: Protect against freezing to prevent cracking of the filter and water leakage.

Flow rates shown are based on 7 gpm/10" Filter length, 25-micron string wound filter cartridge, and clean water (viscosity cp = 1) at 2psid. Flow rates are for guide lines only. Actual flow rates will vary based on fluid, viscosity, cartridge type, micron ratings and other factors.

Housing will accept standard 2.5" OD Filter cartridges in the following lengths: 20", 30" (29¼" or 30"), 40" (39" or 40")



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ULTRAVIOLET *lightning*

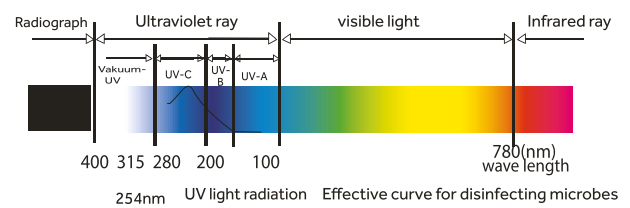
Microorganisms in the water can cause a multitude of serious health problems. Our AQUA DROPS Ultraviolet sterilizer system is a natural way to sterilize the water in your home and industry. This AQUA DROPS Ultraviolet light penetrates and destroys the harmful organisms and disinfects the water.



WHAT IS ULTRAVIOLET ?

We all know that, sun light can be used in sterilizing. What's the function of ultra violet ray ? Ultraviolet ray was found about 200 years ago and through years of survey and experiments, science has proved it's effect in killing the virus and bacteria. Ultraviolet is divided by A,B, C waves and 260~240nm, out of C waves is the most effective ray with sterilizing ability and the strongest point is 254 nm. This light wave is able to kill the DNA of virus and bacteria to make it unable reproduce.

ELECTROMAGNETIC WAVE DRAWING



- Compact and easy to install
- Completely automatic
- No chemicals required
- Low maintenance
- Low operating cost
- High Performance
- No added taste or odor
- Bacteria
- Mold Spores
- Algae
- Protozoa
- Viruses
- Yeast
- Germs
- House hold water Supplies
- Aquarium / Aquaculture
- Hospitals & Laboratories
- Pharmaceutical industry
- Food processing
- Hotels & restaurants
- Schools
- Pollution abatement
- Water supply systems
- Well water treatment
- Water supply stations
- Water bottling units
- Industrial treatment

SPECIFICATIONS

These high quality AQUA DROPS Ultraviolet Sterilization systems provide a 99.99% reduction in bacteria, virus and protozoan cysts.

Standard AQUA DROPS units deliver a 30,000 $\mu\text{w-sec/cm}$ UV dose at a 254 nm wavelength (at rated flow). Standard units have an audible and visible on/off lamp failure alarm, optional models sophisticated with UV intensity monitor to advice the safety wave length and elapsed time meter to advice when the lamp is to be replaced are also available.

Lamps are installed through the center of the unit and electrical connections at one end. Units are constructed with a 304 or 316 Stainless Steel housing. The unit has easily replaceable high intensity UV sterilization lamps and a pure quartz lamp tube for peak UV dosage.

All units are covered by a 5 year warranty on reaction chamber and 1 year for lamps and components. Low flow units are available in 1 and 2 gallon per minute, which are used in normal residential installations.

High flow units are also offered for larger residential and commercial applications. See chart for sizing and other specifications.



UV SERIES

		UV 405 AL-AL ²	UV 405 C AL-AL ²	UV 412 AL-AL ²	UV 440 AL-AL ²	UV 480 AL-AL
Portata max (l/min)	Max. flow rate (l/min)	20	30	45	75	85
Lampade	Lamps	1	1	1	1	1
Vita lampada	Lamp life	9.000 hrs				
Assorbimento elettrico (W ± 2%)	Electrical consumption (W ± 2%)	30	33	40	40	80
Dose UV-C (J/m ²) con UVT 99% - 1cm	UV-C Dose (J/m ²) @ UVT 99% - 1cm	300				
Materiale collettore	Manifold material	AISI 304 (AISI 316 L on request)				
Pressione max (bar)	Max. pressure (bar)	10				
Raccordi idraulici	IN-OUT connection	3/4" M	3/4" M	1" M	1 1/2"	1 1/2"
Alimentazione elettrica	Electrical supply	230V-50/60/Hz (other on request)				

QUADRO ELETTRICO	ELECTRICAL PANEL	AL	AL ²
Display Digitale	Digital Display	✗	✓
Conta giorni totale	Day Counter	✗	✓
Contagiorni Resettabile	Resettable Day Counter	✗	✓
Led rosso di anomalia	Alarm Red Led	✓	✗
Buzzer Acustico	Acoustic Buzzer	✗	✓
Spina Alimentazione	Electrical Plug	schuko / UK / no plug	schuko / UK / no plug



SERIE UV LCD ²	UV LCD ² SERIES	UV 405	UV 405C	UV 412	UV 440	UV 450	UV 480	550	80/2
Portata max (l/min)	Max. flow rate (l/min)	20	30	45	75	80	85	125	250
Dose UV-C (J/m ²) con UVT 99% - 1cm	UV-C Dose (J/m ²) @ UVT 99% - 1cm	300	300	300	300	300	300	400	400
Lampade	Lamps	1	1	1	1	2	1	2	2
Vita lampada	Lamp life	9.000 hrs							
Assorbimento elettrico (W ± 2%)	Electrical consumption (W ± 2%)	30	33	40	40	80	80	80	160
Materiale collettore	Manifold material	AISI 304 (AISI 316 L on request)							
Pressione max (bar)	Max. pressure (bar)	10							
Raccordi idraulici	IN-OUT connection	3/4" M	3/4" M	1" M	1 1/2" M	1" M	1 1/2" M	1 1/2" M	1 1/2" M
Alimentazione elettrica	Electrical supply	230V50/60-Hz							
Sistema di pulizia manuale	Manual cleaning system	✗	✗	✗	OPT	✗	OPT	OPT	OPT
Dimensione quadro elettrico (mm)	Electrical panel dimensions (mm)	215x215x90							



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UV SERIES

SERIE RACK LCD2	RACK LCD2 SERIES	UV 80/3	UV 80/4	UV 80/5
Portata max (m ³ /h)	Max. flow rate (m ³ /h)	25	35	50
Dose UV-C con UVT 99% - 1cm	UV-C dose @ UVT 99% - 1cm	> 400 J/m ² (9.000 h)		
Lampade	Lamps	3	4	5
Vita lampada	Lamp life	9.000 hrs		
Assorbimento elettrico (W ± 2%)	Power consumption (W ± 2%)	240	320	400
Materiale collettore	Manifold material	AISI 304 (316 L)		
Pressione massima	Max. pressure	10 bar		
Raccordi idraulici	IN-OUT connections	2" M	DN80	DN80
Sistema di pulizia manuale	Manual cleaning system	OPT	OPT	OPT
Alimentazione elettrica	Electrical supply	230 V - 60/50 Hz		
Dimensioni quadro elettrico (mm)	Electrical panel dimensions (mm)	400x300x200		



UV 80/3



LCD² (PLUS)

QUADRO ELETTRICO	ELECTRICAL PANEL	LCD ²
Grado Protezione	Protection Degree	IP 55
Display LCD ² (Controllo a Microprocessore)	LCD ² Display (micro processor control)	✓
Contaore Totale	Total Hour-meter	✓
Contaore Resettabile	Resettable Count Down Hour-meter	✓
Led Rosso Di Anomalia	Alarm Red Led	✓
Relè Allarme Contatto Pulito NA/NC	Alarm relay Free Contact NO / NC	✓
Relè Allarme Uscita 230V NA / NC-2A max	Alarm relay 230 V NO / NC outlet - 2 A max	✓
On / Off Timer	On / Off Timer	✓
Contatto remoto On/ Off	Remote On/ Off Contact	✓
Display controllo irraggiamento/temperatura	Display of Irradiation /temperature control	Only Plus Version
Spegnimento per alta temperatura collettore	Shutdown for high temperature UV chamber	Only Plus Version
Uscita 420/ mA	420/ mA output	Optional only for Plus Version
Spina alimentazione	Electrical plug	schuko / UK / no plug



QUADRO ELETTRICO	ELECTRICAL PANEL	RACK LCD ²
Materiale quadro	Enclosure material	
Grado protezione	Protection degree	IP 54
Display LCD ² (controllo a microprocessore)	LCD ² Display (microprocessor control)	✓
Contaore totale	Total hour-meter	✓
Contaore resettabile	Resettable count down hour-meter	✓
Led rosso di anomalia	Alarm red led	✓
Relè Allarme Contatto Pulito NA/NC	Alarm relay Free Contact NO / NC	✓
Relè Allarme Uscita 230V NA / NC-2A max	Alarm relay 230 V NO / NC outlet 2 A max	✓
On / Off Timer	On / Off Timer	✓
Contatto remoto On/ Off	Remote On/ Off Contact	✓
Display controllo irraggiamento/temperatura	Display of Irradiation /temperature control	Only Plus Version
Spegnimento per alta temperatura collettore	Shutdown for high temperature UV chamber	Only Plus Version
Uscita 420/ mA	420/ mA output	Optional only for Plus Version

UV SERIES

SERIE AM	AM SERIES	AM 24	AM 50	AM 60	AM 96	AM 125	AM 160
Portata max (m ³ /h)	Max. flow rate (m ³ /h)	24	50	60	96	125	160
Dose UV-C con UVT 98% - 1cm		> 400 J/m ² (12.000 h)					
Lampade	Lamps	1	2	2	3	4	4
Vita lampada	Lamp life	14.000 hrs					
Materiale collettore	Manifold material	AISI 304 (316L)			AISI 316L		
Raccordi idraulici (PN 10)	IN-OUT connections (PN 10)	2" M	DN 80	DN 80	DN 100	DN 150	DN 150
Pressione massima	Max. pressure	10bar					
Lato apribile	Openable side	✗	✗	✗	✓	✓	✓
Sistema di pulizia manuale	Manual cleaning system	OPT	✗	OPT	✗	✗	✗
Sistema di pulizia automatica	Automatic Wiper	Optional (RA Version)					
Quadro elettrico	Electrical Panel	RACK LCD ²			TC or ECOLINE		
Alimentazione elettrica	Electrical supply	230 V – 60/50 Hz					
Assorbimento elettrico (W ± 2%)	Power consumption (W ± 2%)	220	440	440	660	880	880
Dimensioni quadro elettrico (mm)	Electrical panel: dimensions (mm)	400x300x200			400x500x250		750x400x250



RACK LCD²/ECOLINE PANEL
AM 24-50-60-96-125-160



QUADRO ELETTRICO	ELECTRICAL PANEL	RACK LCD ²	TC
Materiale Quadro	Enclosure Material		
Grado Protezione	Protection Degree	IP 54	IP 54
Display LCD ² (controllo a microprocessore)	LCD ² Display (microprocessor control)	✓	✗
SITA Touch-Screen (65000 colori)	SITA Touch-Screen (65000 colours)	✗	✓
Display Multilingua	Multi Language Display	✗	✓
Contaore (Sistema E Vita Lampade)	Hour Meters (System And Lamp Life)	✓	✓
Led Rosso Di Anomalia	Red Led Of Anomaly	✓	✗
Relè Allarme Contatto Pulito NA/NC	Alarm relay Free Contact NO / NC	✓	✓
Output Digitali	Digital Outputs	✗	✓
Relè Allarme Uscita 230 V NA / NC – 2A max	Alarm relay 230 V NO / NC outlet – 2 A max	✓	✓
Display Controllo Irraggiamento/temperatura	Display Of Irradiation /temperature Control	Only Plus Version or ECOLINE	
Remote On / Off	Remote On / Off	✓	✓
Uscita 420/ mA	420/ mA output	Optional only for Plus Version	
ON/OFF timer	Timer ON/OFF	✓	✓
Datalog – Eventi	Datalog – Events	✗	✓
CAN, Ethernet, USB, Seriale (Modbus, TCP/IP, CANopen)	CAN, Ethernet, USB, Seriale (Modbus, TCP/IP, CANopen)	✗	✓
Accesso remoto tramite App o Web Gate	Remote access with App or WebGate	✗	✓
Calcolo della dose UV	UV dose calculation	✗	Optional only for Plus Version
Regolazione di potenza lampade	Lamp power regulation	Optional	Optional

WATER CHILLERS

Aqua Drops MaxChill Series

Ideal for roof water tanks, plunge pools and water immersion pools for sports recovery.

Aqua Drops Water Chillers provide low temperatures reaching 10°C for cold water treatment. Anti-Corrosive Titanium Heat Exchanger combined with a R410 refrigerant compressor for low water temperatures.



>> Low water temperature upto 10°C <<

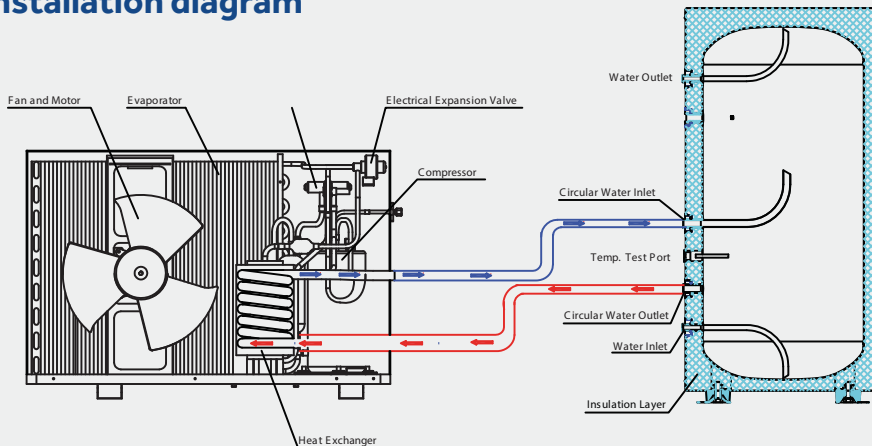
Suitable for cooling

- Swimming pool
- Spa
- Roof water tanks

Working principle

The technology is based on the same principle employed in air conditioners and refrigerators, delivering up to five times more energy than it consumes in electricity. Chillers are designed to give low temperatures to water body by extracting ambient heat from the surrounding air.

Installation diagram



MaxChill Components

- Heat Exchanger made of double spiralled titanium tubes encased in PVC or SS for additional protection against corrosive pool water.
- Extra-large evaporator coils are designed to collect more cool energy from the outside air to ensure performance in even the most adverse conditions.
- Large axial fans, with precision engineered blades are used to draw maximum ambient air and pass it on to the evaporator coils

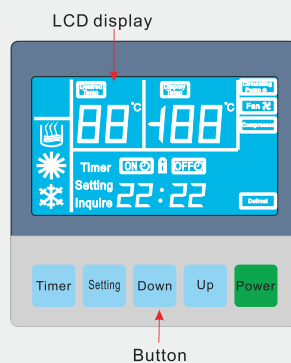


Aqua Drops MaxChill Series Water Chiller

Specification	Model / Code			
		ACU-200	ACU-300	ACU-500
Chilled water @ °35C ambient				
Cooling Capacity Rating	kW	7.5 (2 Ton)	12.35 (3.5 Ton)	18 (5 Ton)
Rated Power Input	kW	2.50	4.10	6.0
Rated current	Amps	12.10	18.60	22.40
Chilled water @ °46C ambient				
Cooling Capacity Rating	kW	6.25	10.30	15.0
Rated Power Input	kW	2.70	4.40	6.40
Rated current	Amps	12.80	20.0	12.20
Min Cooling Water Temp			10°C	
Incoming Cable Size		3 Core x 2.5mm ² Cu	3 Core x 4.0mm ² Cu	5 Core x 2.5mm ² Cu
Power Voltage		220V / 50Hz	220V / 50Hz	380V / 50Hz
Compressor	Brand	Panasonic	Panasonic	Panasonic
		Scrollx1	Scrollx1	Scrollx1
Heat Exchanger		Titanium Tube Heat Exchanger in PVC shell		
Refrigerant		R410A	R410A	R410A
Electric Expansion Valve		DPF2.4	DPF3.0	DPF3.0
Defrost			Included	
Cabinet		Galvernized Steel Casing		
Water Connection Port	mm	Exterior 50mm/ Interior 40mm		
Fan Blade Material		Axial Fan Plastic Blade	Axial Fan Plastic Blade	Axial Fan Metal Blade
Fan Input Power	W	200	400	400
Fan Rotate Speed	rpm	850	850	850
Noise	dB(A)	49	58	58
Advised water flow	m ³ /h	15-15	12-10	12-8
Water pressure drop	kPa	14	15	15
Unit net dimensions	mm	630 x 605 x 780	810 x 810 x 1350	
Net Weight	Kg	94	105	160

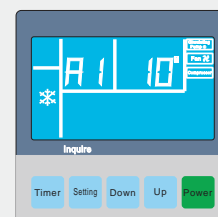
LCD Display and functions

MaxChill features more accurate and durable commercial grade digital controllers with user friendly features.



◆ Illustration for the buttons

- Power unit unlock, turn on/off
- UP increase (setting parameters of the functions)
- down decrease (setting parameters of the functions)
- setting Query and function setting
- timer Clock and timer switch setting



WATER SOFTENERS

CENTRAL AUTOMATIC SOFTENERS

AQUA DROPS (WS) SERIES high Performance residential and commercial Water Softeners guarantee a wide range of features and control options to satisfy your needs. High Quality Fabrication materials and manufacturing conditions guarantee a superior products.

These Softeners are designed to be high quality, hardness (Calcium and Magnesium) removal, in various water treatment applications.

The AQUA DROPS WS Series are designed and fabricated for residential and commercial applications will a fully automatic control valve and the standard vessels used in this softener are vertical cylindrical design of fiber glass reinforced polyester construction and all used vessels are in line with international testing and certification agencies such as NSF, ASME.

All softeners are sized in accordance to optimum recommended flux rates for optimum efficiency and performance.

SINGLE TANK

- A. Single Control option: add "S" after the model.
- B. They are usually scheduled to regenerate at 2am.
- C. 220V/1 Ph/50Hz
- D. Hard Water by Pass.

DUPLEX TANK

- A. Duplex Control option: add "D" after the model.
- B. Duplex System Supplied with two Minerals tanks and one brine tank, and system -7 alternating metered control (one Duty and other one in stand by)

SPECIFICATIONS

The softener unit equipped with a Fully automatic self contained " CLACK" control Valve using a cartridge design permitting instant service with timer to automatically control the softener regeneration cycle on a pre set schedule, regeneration and rinse cycles are factory set to accommodate site conditions.

Softener tank suitable for a working pressure of 689KPa (100 Psi) and tested at 50% in excess of the working pressure, 100 % corrosion resistant high performance composite and fiber glass reinforced polyester construction.

The inner shell of softeners are both temperature and chemical resistance and shell height design to allow a minimum free broad space of 100% of the resin bed depth for adequate expansion during regeneration cycle with maximum pressure drop (5 Psi)



SPECIFICATIONS

The AQUA DROPS WS SERIES are designed with self-cleaning distributors exhibit excellent flow rates and are cleaned automatically by the pressure of the water flow during the regeneration cycle, and riser tube with larger diameter to allow higher flow rates for optimum water production whenever required.

Softener tank equipped with one manhole located in the top head of the tank for easy filing or replacement resin, and supported by base made by PVC or compression molded fiber glass.

Softener resin designed with best quality possessing characteristics of durability, long life, resistance to attrition and impart taste, odor or color, Gravel under bedding to support the resin bed and protect distributor.

STANDRAD FEATURES:

- Automatic Regeneration Valve.
- High Performance FRP Tank
- Time Controller for regeneration cycle
- Softener using diaphragm valves.
- Flow controller to limit regeneration Cycle.
- Flow controller to limit backwash Cycle.

AVAILABLE OPTION:

- Duplex Systems.
- Stainless Steel tanks.
- Softener using diaphragm valves.
- Inlet/ Outlet Pressure gauges
- Inlet/ outlet Sample Valves.
- Epoxy coated steel tanks.

STANDARD OPERATIONS:

- Operation pressure: 25-125 psi
- Operation temperature: 35-100 F
- Safety Factor: 4:1
- Minimum burst at 600 psi

WARRANTY:

- For ten (10) years that the fiber glass reinforced polyester vessel will not rust, leak or burst, and for a period of one year after installation that the control valve and all parts will be free from the defects in materials and workmanship.

Model No.	Flow Rate (GPM)		Backwash Flow(GPM)	Volume of Media (ft3)	Tank (Dia"xH")	Brine Tank (Gallons)	Valve Size	In/Out Conn.	Approx. Wt. (lbs)
	Minimum	Peak							
W-S844ET	2	5	1.7	0.70	8×44	35	1"	1"	105
W-S1054ET	3	7	2.7	1.50	10×54	35	1"	1"	150
W-S1354ET	5	14	5.5	2.50	13×54	35	1"	1"	225
W-S1465ET	6	16	5.5	3.50	14×65	35	1"	1"	335
W-S1665ET	7	21	6.5	4.50	16×65	40	1"	1"	385
W-S1865ET	9	24	9	5.50	18×65	60	1"	1"	450
W-S2162ET	13	36	13	7.00	21×62	60	1.5"	1.5"	645
W-S2472ET	15	47	15	10.0	24×72	100	1.5"	1.5"	950
W-S3072ET	24	75	25	15.0	30×72	100	2"	2"	1,535
W-S3672ET	35	106	35	21.0	36×72	200	2"	2"	1,950
W-S4272ET	48	144	50	30.0	42×72	200	3"	3"	2,950
W-S4872ET	60	188	60	43.0	48×72	200	3"	3"	4,360

ALL SOFTENER COMPONENTES ARE MADE IN U.S.A AND CERTIFIED BY NSF AND ASME.



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ADS SERIES - STRING WOUND FILTER CARTRIDGE



ADS Series String Wound Filter Cartridges are manufactured of structured loose outer layers and tight inner layers, offering true depth filtration for high dirt holding capacity and extremely low media migration. The main advantage of the string wound filter cartridge is its exceptionally high structural strength. Therefore, they can withstand higher PSID and severe operating conditions.

FEATURES

- Broad chemical compatibility
- Many different combinations of filter materials and pore sizes
- Graded pore structure of efficient removal of a wide range of particle sizes
- High dirt holding capacity
- Cost savings from long service life

ORDERING INFORMATION

Diameter	Media	Removal Rating	End Cap Type	Length	Seal Material	Core
A = ϕ 63/ ϕ 28	B = Cotton	0100=1 μ m	Blank = DOE (No end caps)	987 = 9.87* (250mm)	Blank = No	P = PP
B = ϕ 115/ ϕ 28	G = PP	0500=5 μ m	F = DOE	N10 = 10* (254mm)	S = Silicone	S = SS
	S = Glass Fiber	1000=10 μ m	M = 222/Flat	N20 = 20* (508mm)	E = EPDM	
		2000=20 μ m	P = 222/Fin	N30 = 30* (762mm)	B = NBR	
		3000=30 μ m	Q = 226/Fin	N40 = 40* (1016mm)	V = FKM	
		5000=50 μ m	T = 226/Flat			
		7500=75 μ m				
		9900=100 μ m				

APPLICATIONS

- Consumer Products
- Food and Beverage
- Drinking Water
- Pharmaceutical
- Edible Oil
- Inks & Paints
- Photographic
- Plating Solutions
- Petrochemicals
- Waste Water
- Chemicals
- Oil

DIMENSIONS

Outer Diameter	63mm (2.5") , 115mm (4.5")
Inner Diameter	28mm
Length	9.87", 10", 20", 30", 40"

MATERIAL OF CONSTRUCTIONS

- Media PP, Cotton, Glass Fiber
- Inner Core PP, Stainless steel

PERFORMANCE

- Max. operating temperatures PP: 80°C
Cotton: 120°C
Glass Fiber: 200°C
- Max. pressure drop 2.0 Bar@25°C



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ADC SERIES-CARBON BLOCK FILTER CARTRIDGES



ADC Series are coconut shell-based carbon block filter cartridges. They are predominantly microporous and the least dusty. So they are very efficient at organic chemical adsorption and more effective in reducing fine sediments, unwanted chlorine, taste, odor from potable drinking water than other activated carbon cartridges. Further advantages of the coconut-shell based activated carbon are as follows: adsorb volatile organic chemicals, pesticides, herbicides, and disinfection by-products like THM, remove halogens from water and improve the clarity and taste of drinking water. They are made from a high performance coconut-carbon formulation that yields a cartridge with high chlorine taste & odor reduction capacity. ADC Series is an ideal choice for a wide range of applications : residential, food beverage, reverse osmosis system etc.

FEATURES

- Excellent adsorption capacity with high porosity and large surface area
- Generate fresh water by reducing and removing odor, undesirable color, unpleasant taste, chlorine and heavy metals
- No pollution from product itself to ensure safe filtration
- Available in a variety of sizes
- 100% coconut shell carbon

APPLICATIONS

- Potable & Process Water
- Food and Beverage
- Plating Solutions
- Chemical Processing
- Pre or Post Filtration for RO Systems
- Water purification Systems

DIMENSIONS

- End Cap OD • 48.5mm, 65mm, 70mm, 115mm
- End Cap ID • 16.5mm, 28mm, 30mm
- Length • 9.75", 9.87", 10", 20", 30", 40"

MATERIAL OF CONSTRUCTIONS

- Media Premium quality coconut shell activated carbon
- End cap PP
- Gasket EPDM
- Netting PE

PERFORMANCE

- Max. Operating temperature 82 °C
- Max. Operating DP 7.2Bar@20 °C
- Max. Operating Pressure 10 Bar

ORDERING INFORMATION

ADC	B	0050	10
Outside / Inner Diameter	Removal Rating	Length	
B=φ115mm/φ28mm	0100=1μm	975=9.75" (248mm)	
F=φ48.5mm/φ16.5mm	0500=5μm	987=9.87* (250mm)	
G=φ65mm/φ30mm	1000=10μm	10=10* (254mm)	
H=φ70mm/φ28mm		20=20* (508mm)	



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