

UNI-TECH CARBON FILTERS

STANDARD FEATURES:

- Single Unit Flows up to 256 gpm
- Epoxy Lined Steel Tanks with 100 psig Design Pressure
- Top Mounted Manway
- Schedule 80 PVC Hub and Lateral Distributors
- Factory Assembled Diaphragm Valve Nest
- Steel External Piping
- Electro-mechanical Backwash Controller
- High Capacity, Application Specific, Activated Carbon

ADVANTAGES:

- Materials and Coatings Selected to Withstand Corrosive Environments
- Reliable, Low Restriction Valves
- Distributors Allow Operation Over Wide Flow Rate Range
- Standard Designs Reduce Cost and Delivery Time
- Simple Operation Reduces Operator Training Requirements
- Efficient Adsorption Tailored For Each Applications

OPTIONS:

- ASME Code Vessel
- Stainless Steel, Copper, or PVC, External Piping
- Stainless Steel, Polypropylene, Steel, or CPVC Internal Piping
- Hot Water or Steam Sanitization Capability
- Differential Pressure Switch
- Air Scour
- Sub-Surface Wash
- Sightglasses
- Pre-piped and Wired Systems Mounted on Skid
- Manual Unit Isolation Valves
- Interconnecting Piping Between Multiple Units
- Allen Bradley PLC

**For Options Not Listed Here
Please Contact Nalco Res-Kem**

Nalco Res-Kem Uni-Tech Carbon Filters are available in a wide range of self-contained packages configured in single, double, and multiple unit arrangements to adsorb chlorine, organics, tri-halo methanes (THM's), taste, odor, and color. Nalco Res-Kem Uni-Tech Carbon Filters contain activated carbon selected for the appropriate application.

Nalco Res-Kem Uni-Tech Carbon Filters are used for municipal, institutional, and industrial water treatment applications. Single units are rated for flows up to 256 gpm. For larger flow rates, contact Nalco Res-Kem to determine whether larger or multiple units would be appropriate.

Economical and efficient, Nalco Res-Kem Uni-Tech Carbon Filters can be equipped for manual, semi-automatic, or full-automatic operation. Regardless of the configuration, only limited technical expertise is required for operation. Nalco Res-Kem Uni-Tech Carbon Filters will integrate into a complete water treatment system without expensive custom field engineering and programming.



**Dual 36" Carbon Filter System with Optional
Stainless Steel Butterfly Valves and Piping**

FEATURES AND SPECIFICATIONS

Model Prefix	Vessel Diameter inches	Volume of Carbon cubic feet	Flow Rate Chlorine Removal gpm	Flow Rate Organics Removal gpm	Flow Rate Backwash gpm	Inlet/Outlet Pipe Sizes Rating inches	Approximate Dimensions Single Unit L x D x H inches	Approximate Dimensions Duplex Unit L x D x H inches
ACF20	20	6.5	13	6.5	17-22	1	30X30X81	60X30X81
ACF24	24	9.5	19	9.5	25-31	1 1/2	34X34X81	68X34X81
ACF30	30	14	28	14	39-49	1 1/2	40X40X83	80X40X83
ACF36	36	23	46	23	57-71	1 1/2	45X48X85	90X48X85
ACF42	42	32	64	32	77-96	2	52X54X87	104X54X87
ACF48	48	41	82	41	101-126	2 1/2	58X62X91	116X62X91
ACF54	54	53	106	53	127-159	3	64X70X91	128X70X91
ACF60	60	65	130	65	157-196	3	70X76X93	140X76X93
ACF66	66	79	158	79	190-238	3	76X78X103	152X78X103
ACF72	72	94	188	94	226-283	3	73X88X103	146X88X103
ACF78	78	111	222	111	265-332	4	73X90X110	146X90X110
ACF84	84	128	256	128	308-385	4	73X96X110	146X96X110

Flow Rate Specification Bases: (For your specific water source, contact Nalco Res-Kem for estimates)

Chlorine Removal Flow Rating: 2gpm/ft³

Organics Removal Flow Rating: 1gpm/ft³

Features	Standard	Optional
System Design and Operation		
Steel Pressure Tank with Epoxy Lining	◆	
Steel Pressure Tank with High Temperature Epoxy, or Baked Phenolic Lining		◆
Stainless Steel, Fiberglass, or Galvanized Steel Pressure Tank		◆
ASME Code Vessel Construction		◆
PVC Hub and Lateral Distribution and Internal Piping	◆	
CPVC, Polypropylene, Steel, or Stainless Steel Internal Piping		◆
Cast Iron Diaphragm Valves	◆	
Steel External Piping	◆	
Copper, PVC, Galvanized Steel, or Stainless Steel External Piping		◆
Manual System Isolation Valves		◆
Subsurface Wash		◆
Skid Assembly for Multiple Units		◆
Interconnecting Piping for Multiple Units		◆
Instrumentation and Controls		
Time Clock with Stager Controller	◆	
Manual, Semi-Automatic, or Full-Automatic Controls		◆
Differential Pressure Gauge or Switch		◆
Inlet and Outlet Pressure Gauges		◆
NEMA 4XFG Electrical Enclosure	◆	
Allen Bradley Programmable Logic Controller		◆
Backwash Initiation Methods		
Timer	◆	
Manual	◆	
Differential Pressure Switch		◆