

NALCO

An Ecolab Company

UNI-TECH SAND FILTERS

STANDARD FEATURES:

- Single Unit Flows up to 577 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

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

OPTIONS:

- ASME Code Vessel
- Stainless Steel, Copper, PVC, or Galvanized External Piping
- Stainless Steel, Polypropylene, Steel, or CPVC Internal Piping
- 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 Res-Kem**

Nalco Res-Kem Uni-Tech Sand Filters are available in a wide range of self-contained packages configured in single, double, and multiple unit arrangements to remove sediment, turbidity, color, and suspended particles. Consisting of layers of coarse support bed and fine mesh sand, Nalco Res-Kem Uni-Tech Sand Filters remove sediment down to the 20-30 micron range.

Nalco Res-Kem Uni-Tech Sand Filters are used for municipal, institutional, and industrial water filtration applications. Single units are rated for flows up to 577 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 Sand 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 Sand Filters will integrate into a complete water treatment system without expensive custom field engineering and programming.



**Dual 84" Sand Filters with Standard
Diaphragm Valves and Steel Piping**

FEATURES AND SPECIFICATIONS

Model Prefix	Vessel Diameter inches	Flow Rate		Flow Rate Minimum Backwash Flow gpm	Inlet/Outlet Pipe Sizes		Approximate Dimensions Single Unit L x D x H inches	Approximate Dimensions Duplex Unit L x D x H inches
		Normal Rating gpm	Hi-Rate Rating gpm		Normal Rating inches	Hi-Rate Rating inches		
SF20	20	6.5	33	33	1	1 1/2	30x32x81	56x32x81
SF24	24	15	47	47	1 1/2	1 1/2	34x36x81	62x36x81
SF30	30	25	74	74	1 1/2	2	40x42x85	78x42x85
SF36	36	35	106	106	1 1/2	2	46x48x85	90x48x85
SF42	42	45	144	144	2	2 1/2	52x54x87	102x54x87
SF48	48	63	189	189	2	3	56x50x91	114x50x91
SF54	54	80	239	239	2 1/2	3	64x66x91	126x66x91
SF60	60	98	294	294	3	3	70x72x93	138x72x93
SF66	66	119	357	357	3	4	76x78x95	152x78x95
SF72	72	142	425	425	4	4	82x84x95	164x84x95
SF78	78	166	498	498	4	6	88x90x95	176x90x95
SF84	84	192	577	577	4	6	94x96x95	188x96x95

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

Normal flow rating: 5gpm/ft²

Hi-Rate flow rating: 15gpm/ft²

Backwash Flow Rate: 15gpm/ft² Minimum (May be higher for your specific water source)

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		◆