

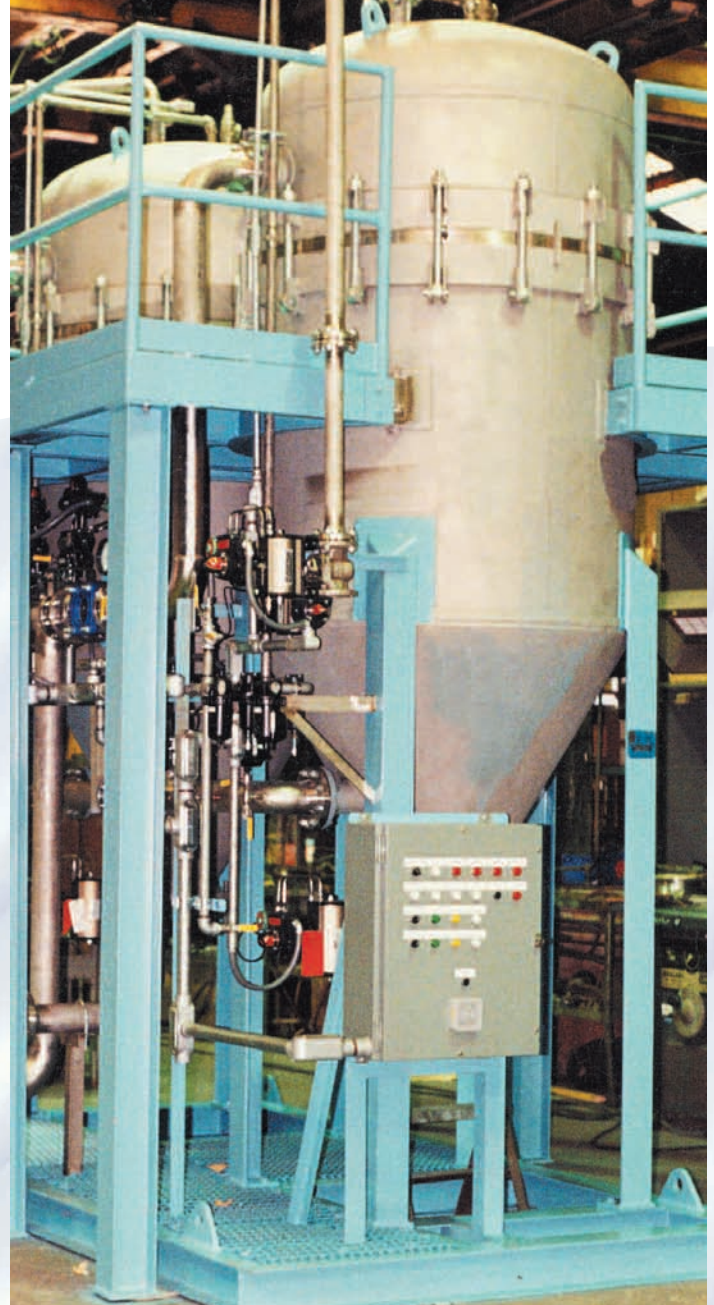
WHITTIER FILTRATION

Auto-Shok[®] Tubular Precoat Filter



Auto-Shok® combines proven filter design and precoat technology.

The Auto-Shok® Tubular Filter is a classical tubular filter. It consists of a vertical vessel with tubes suspended from a tube sheet. The flow is from the outside of the tube to the inside. The filtered liquid then flows up the inside of the tube through the openings in the tube sheet into the top head. The top head area serves as a reservoir of filtered liquid and the compressed gas. To clean, the flow is reversed and the tubes are backwashed with the “stored” filtrate from the top head powered by the air/gas dome.



FEATURES

- Precoat Candle Filter
- Tubular Elements
- Self Generated Air Bump for Backwash
- Conical Lower Head for Solids Collections
- Polypropylene Screen Covers for Precoat Material

THE ADVANTAGES OF THE TUBE FILTER DESIGN

- 1) Self-contained internal backwash liquid source. No external backwash pumps or tanks are required.
- 2) Rapid cleaning cycles which result in minimum downtime. Many times this can eliminate the need for an additional filter.
- 3) The entire tube bundle is removable as a unit for easy replacement and/or maintenance.
- 4) A small footprint of the filter minimizes installation costs and facilitates installation in existing locations.
- 5) Minimum auxiliary equipment requirements further

CLEANING

Outstanding cleaning is provided with a self-contained, internal airbump backwash. No separate pumps or large volumes of sluicing liquid are required to provide fast and complete removal of the filter cake.

OPERATION

Filtration continues until a pre-determined pressure drop is achieved. The forward filtration is stopped. The filter is then pressurized from an external source, usually by the feed pump pressure. Once the vessel is pressurized, the quick-opening drain valve is opened, creating a sudden flow reversal that releases the cake, allowing the solids and liquid to drain.

CAPACITY AND MATERIALS

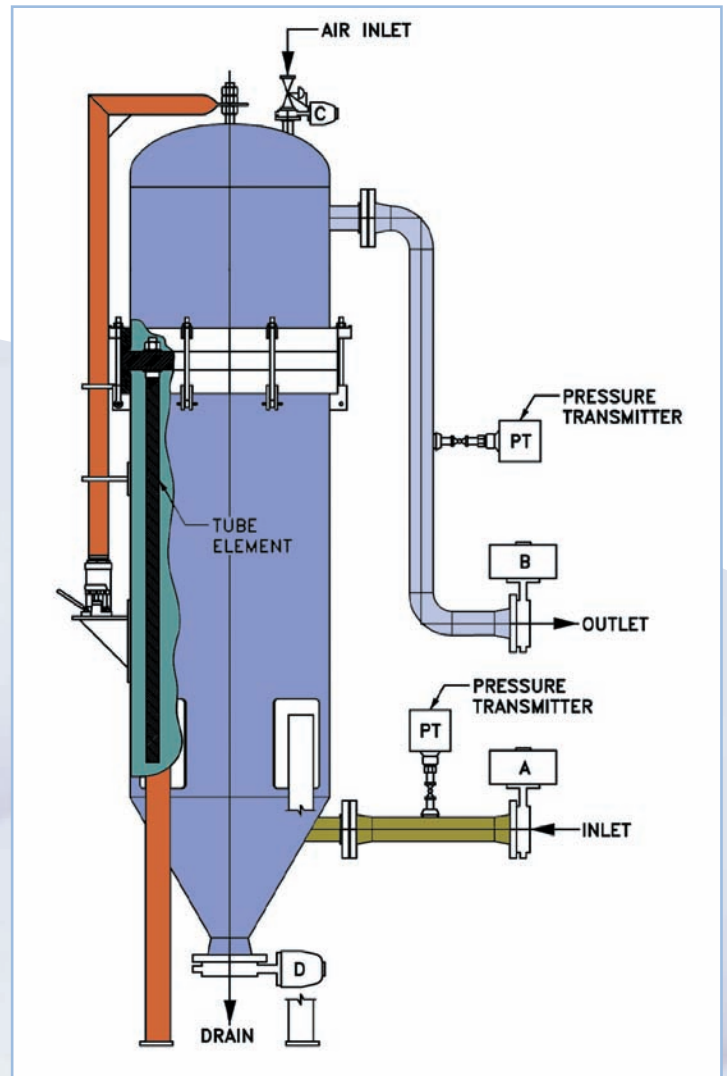
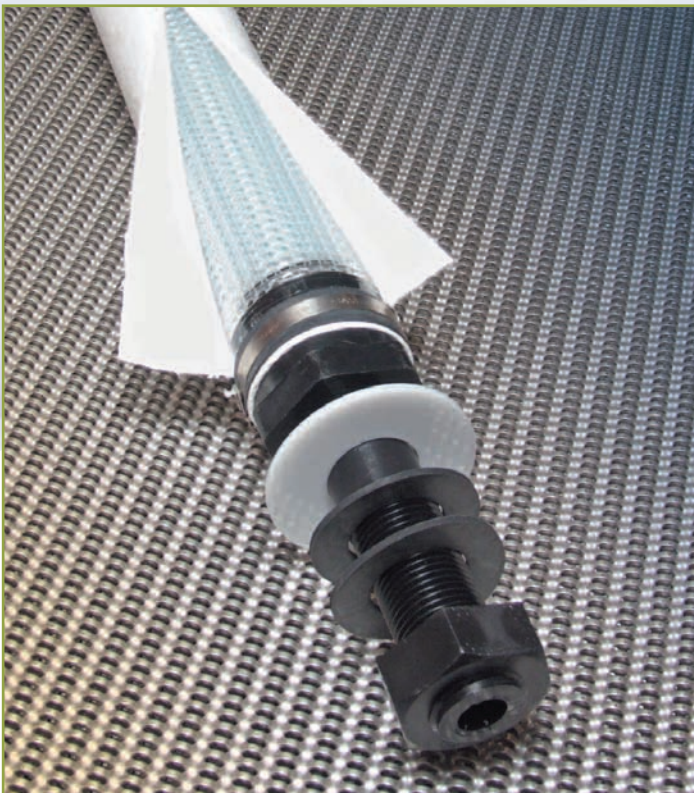
Furnished in standard sizes from 26–1239 sq. ft. of filtration area. Various metallic or plastic materials of construction and linings meet any process requirement.

APPLICATIONS

The Auto-Shok® is ideally suited for chemical filtration, condensate and applications where exotic materials of construction would be required in other designs.

The filter can also accept a precoat layer of powdered ion exchange resin when needed for condensate.

Shown below is the Auto-Shok® tube assembly with cut-away to show flow distribution grid.



FILTER MODEL #	DIAMETER INCHES	MAX NUMBER TUBES	FILTER AREA SQ. FT.
18AS-26-9-48	18	9	26
24AS-55-19-48	24	19	55
24AS-75-19-66	24	19	75
30AS-89-31-48	30	31	89
30AS-123-31-66	30	31	123
36AS-138-48-48	36	48	138
36AS-173-48-60	36	48	173
42AS-199-69-48	42	69	199
42AS-248-69-60	42	69	248
48AS-285-88-54	48	88	285
48AS-348-88-66	48	88	348
54AS-392-121-54	54	121	392
54AS-436-121-60	54	121	436
60AS-456-141-54	60	141	456
60AS-558-141-66	60	141	558
66AS-645-199-54	66	199	645
66AS-716-199-60	66	199	716
72AS-781-241-54	72	241	781
72AS-868-241-60	72	241	868
78AS-917-283-54	78	283	917
78AS-1018-283-60	78	283	1018
84AS-1127-313-60	84	313	1127
84AS-1239-313-66	84	313	1239

WHITTIER FILTRATION

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Whittier Filtration provides a broad line of proprietary filtration technologies used for the removal of solid matter and impurities from liquid streams and employ a variety of removal techniques which can be used as stand-alone units or systems involving different technologies; fully integrated to meet the most stringent effluent requirements. Whittier Filtration also maintains a comprehensive program for maintenance, repair of systems and equipment, including ordering of critical replacement parts.

LEAF FILTERS:

Auto-Jet®, Filtra-Matic™, Verti-Jet

TUBULAR FILTERS:

Auto-Shok®, Auto-Pulse™

MEDIA FILTERS:

L'eau Claire Upflow
High-Rate Sand Filters

SEPARATORS:

Autoflot®, Power Clean®

ION EXCHANGE/SOFTENERS

SPARE PARTS AND SERVICE

