



Oil/Gas



Air/Gas

47 SERIES

Vertical Gas Coalescing Filter

Ideal Removal of Aerosol Mists from Gas Streams

HIGHLY EFFICIENT REMOVAL OF SOLID PARTICLES AND LIQUID DROPLETS FROM 0.3 MICRON AND LARGER.

- Standard vessel design accommodates a wide range of temperatures, pressures and flow rates.
- ASME Section VIII, Div I, with standard design pressures of 285, 740, 1000 and 1480 PSI and design temperatures of -20°F to 350°F.
- Design temperatures up to 650°F to accommodate high temperature applications.
- Vessel designed to coalesce and separate all in a single stage.
- Quick open closure for easy access to filter elements.



ISC Sales

ISCSales.com
ISCInfo@ISCSales.com

877-602-0010
972-964-2700

4421 Tradition Trail
Plano, TX 75093

47 SERIES

Vertical Gas Coalescing Filter ASME Design

STANDARD SPECIFICATIONS

Vessel Size

6" to 60" diameter

Design Pressures

285, 740, 1000 and 1480 PSIG

Design Temperatures

-20°F to 350°F

Certifications

ASME Section VIII, Div I w/ U Stamp

**Vertical configuration only available due to nature of coalescing action.*

STANDARD MATERIAL OF CONSTRUCTION

Shell, Heads and Supports

Carbon steel

Closure

Carbon steel

Swing bolt closure standard*

6" – 14" – Screw type closure

16" + – Sypris quick-open closure

**When design parameters allow*

Closure Gasket

Buna-N

Flanges

150#, 300#, 600# ANSI RF

DESIGN ADVANTAGES

- ▶ Standard vessel design accommodates a wide range of temperatures, pressures and flow rates.
- ▶ Vessel designed to coalesce and separate all in a single stage.
- ▶ Quick open closure for easy access to filter elements.
- ▶ Internal baffle system helps eliminate separated liquid turbulence in the sump.

CUSTOM DESIGN AVAILABLE

Any size or material. Design pressures up to 10,000 PSIG and design temperatures up to 650°F available.

OPTIONS AVAILABLE

- ▶ Inlet/outlet connection size can be changed
- ▶ Vessel design temperature up to 650°F available
- ▶ Fibreglass elements available to accommodate higher temperatures and sour service applications
- ▶ O-ring material available in Viton, EPDM and others
- ▶ Closure options include swing bolt (standard), Sypris Technologies™ quick-open closures, yoke type quick-open closures, screwed closures or blind flange closures, depending on design specifications and preferences.
- ▶ Filter element supports available in SS304, SS316 and other materials

APPLICATIONS

GAS COMPRESSOR DISCHARGE

Removes lubricating oil mist from gas compressor discharge streams.

GAS INJECTION SYSTEMS

Removes sub-micronic solids and lubricating oil, which could damage the formation in gas injection systems for storage or enhanced oil recovery projects.

SOLID DESSICANT OR MOLECULAR SLEVE BEDS

Protects solid dessicant or molecular sieve beds from contamination by gas compressor lubricating oils, glycols and amines.

PROPANE REFRIGERATION SYSTEM

Separates lube oil from propane in propane refrigeration systems.

COMPRESSOR ENGINES

Removes contaminants from fuel for compressor engines.

GAS ANALYZERS

Removes liquid and solid particles in on-line and off-line gas analyzer sample streams.

LINE HEATERS

Removes contaminants from fuel for line heaters.

FIRED REBOILERS

Removes contaminants from fuel for fired reboilers.

CONTACTOR CARRYOVER

Removes glycol carryover downstream of glycol and amine contactors.

TURBINE FUEL GAS

Removes contaminants from fuel for gas fired turbines.

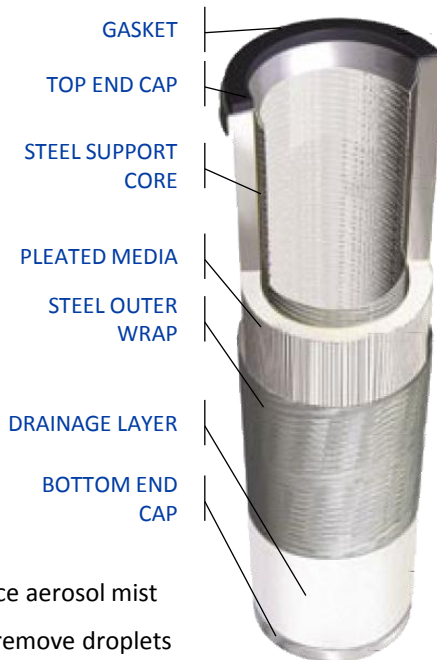
LANDFILL GAS

Removes contaminants from landfill gas used to power generating equipment.



OPERATION

Designed with the inlet in the bottom half of the vessel and the outlet in the top half, this allows the gas to be forced in and upwards through the element from the inside – out. Clean gas exits through the outlet and coalesced liquids drains through the outer layer of the filter and to the drain of the vessel.



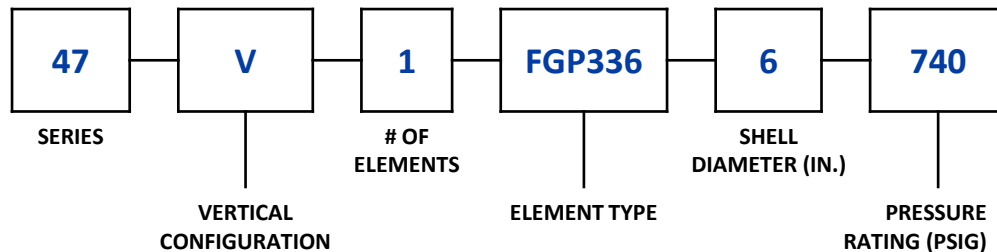
THE FG FILTER ELEMENT

These specially designed filters are used to coalesce aerosol mist from gas streams. It also coalesces small, hard to remove droplets of liquids. For detailed information, refer to [FG-P SERIES DATA SHEET](#).

MEDIA:	PEM Polyester, Fibreglass
END CAPS:	Plated steel (stainless steel available)
GASKETS:	Buna-N (other materials available)
CORE/CAGE:	Steel (stainless steel available)

**USE FIBREGLASS MEDIA FOR HIGH TEMPERATURE AND/OR SOUR SERVICE APPLICATIONS*

MODEL CONFIGURATION



ORDERING

In order to properly size a 47 series housing for your application, the following information is required:

- Operating pressure range
- Operating temperature range
- Gas molecule weight or specific gravity
- Gas flow rate at operating conditions stated above
- Contaminants to be removed
- Contaminant flow rate
- Design pressure temperature corrosion allowance
- Temperature corrosion allowance requirements
- Special design requirements



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