

**SERIES 77V
COALESCING
FILTER**

*Designed for
Removing
Aerosol Mists
from Gas
Streams*



COALESCE AEROSOL MISTS FROM YOUR GAS STREAM WITH SERIES 77V

The Series 77V Coalescing Filter is a highly efficient filter utilizing PECOFacet's patented PEACH® coalescing elements to remove solid particles and liquid droplets 0.3 micron and larger from gas streams.

OPERATION

PECOFacet's Series 77V Coalescing Filter is designed with the inlet in the lower portion of the vessel and the outlet in the upper portion. This allows the gas to move in an upward direction through the element from inside to out. Clean gas exits through the outlet and the coalesced liquid drains through the outer layer of the elements to the liquid drain of the vessel.

The PECOFacet 77V utilizes PECOFacet PEACH® Technology. The essence of PEACH® coalescing elements is PECOFacet Engineered Media (PEM). This patented technology yields high removal efficiencies, low pressure drop, and a high capacity for liquid and solid contaminants.

DESIGN ADVANTAGES

- Standard design units are available for a wide range of temperatures, pressures, and flow rates. (See Standard Specifications for details).
- Coalescence and separation are combined in a single stage.
- Designed with PECOFacet Quick Opening Closure for easy access to change the filter elements.
- Equipped with PECOFacet's proprietary PFDBS system to eliminate turbulence of the separated liquid in the sump.

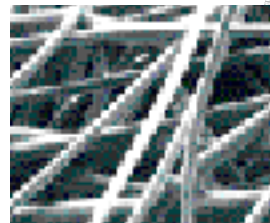
STANDARD SPECIFICATIONS

- Available in sizes 6" to 60" nominal diameters.
- Standard design pressures are 285, 740, 1000, and 1480 PSIG.
- Design temperatures are -20° F to 350° F (-29° C to 177°)
- Designed to ASME Pressure Vessel Code, Section VIII, Division I and stamped with ASME "U" symbol.
- Available only in a vertical configuration due to coalescing action.
- Vessels are equipped with an initial charge of elements.

OPTIONS AVAILABLE

- Vessel inlet and outlet connection size may be changed if required.
- Vessel design temperature of up to 650° F are available.
- Fiberglass elements are available with endcaps and gaskets for high temperatures and sour gas service.
- Closures available include swing bolt quick-opening closures, yoke type quick opening closures, blind flange closures, screwed closures or SAFELOCK™ closure, depending on vessel size, pressure rating and customer preference.
- O-Ring material is available in Viton®, ethylene-propylene, and others for special applications.
- Filter element supports are available in 304 stainless steel, 316 stainless steel, and other materials.

* Viton is a trademark of E. I. DuPont De Nemours & Co.



PEACH® Media 150X
SEM Photo by Southwest Research Institute



TYPICAL APPLICATIONS

Gas Compressor Discharge

Removes lubricating oil mist from gas compressor discharge streams.

Gas Injection System

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

Solid Dessicant or Molecular Sieve 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 Analyzer

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.

Contactors 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.

STANDARD MATERIAL OF CONSTRUCTION

Shell, Heads, & Supports . . .	Carbon Steel
Closure	Carbon Steel
.....	6" - 14" (152mm-355mm)
.....	use screw type closure
.....	16" (406mm) and larger use
.....	PECOFacet Quick Opening Closure
Closure Gasket	BUNA-N
Flanges	150#, 300#, 600# ANSI RF

The **PECOFacet NGGC Coalescer Element**

is a special element designed to coalesce aerosol mist from gas streams. It offers excellent coalescence of small, hard to remove droplets of lubrication oil and other liquids. For further information on this element, refer to technical data sheet EL-NGGC-TD-01.

NGGC 336

CONSTRUCTION

Media	PEM Polyester
End Caps	Stainless Steel
Gaskets	Buna (Options Available)
Core/Cage	Steel



CUSTOM DESIGNED UNITS

are available in any size or material. Design pressures from full vacuum to 10,000 PSIG and design temperatures of up to 650° F are available.



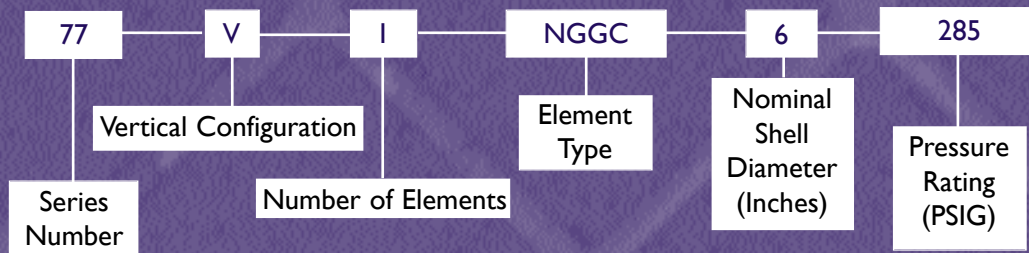
Through continuing research and development in it's own laboratory and engineering facilities, PECOFacet has remained a leader in solving filtration problems. We are dedicated to manufacturing the highest quality filtration products at competitive prices.

ORDERING

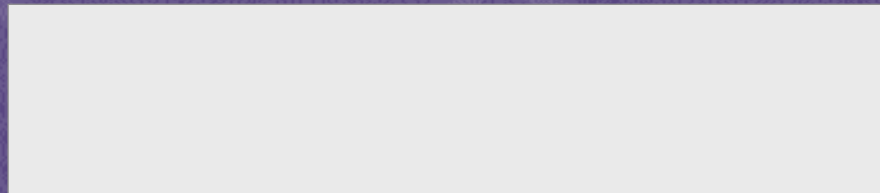
The following information is required when requesting sizing and pricing on the **SERIES 77V COALESCING FILTER**.

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

MODEL DESIGNATION



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