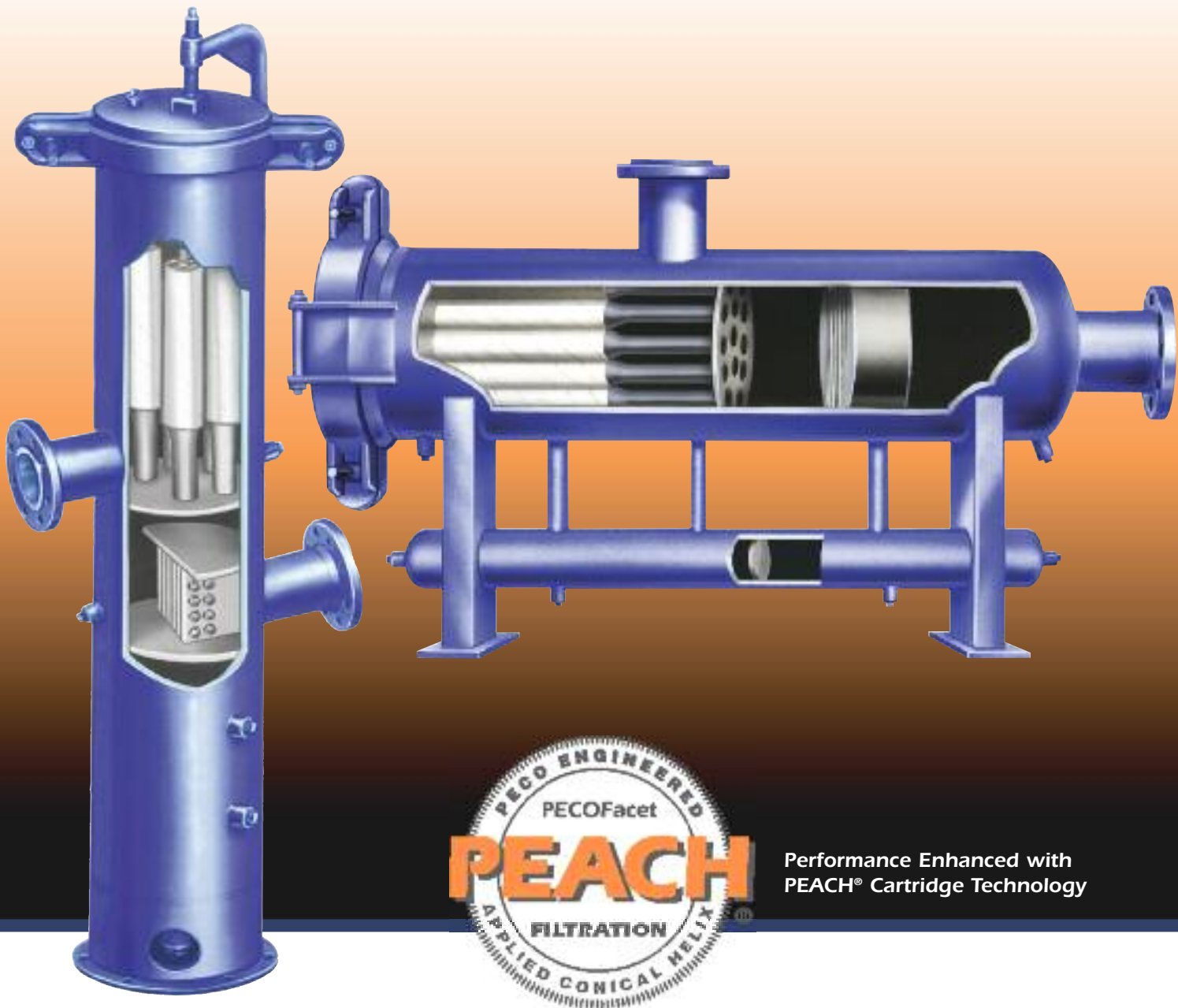




## 75H & 75V GAS FILTER-SEPARATOR

A NEW ERA IN FILTRATION PERFORMANCE AND INNOVATION™

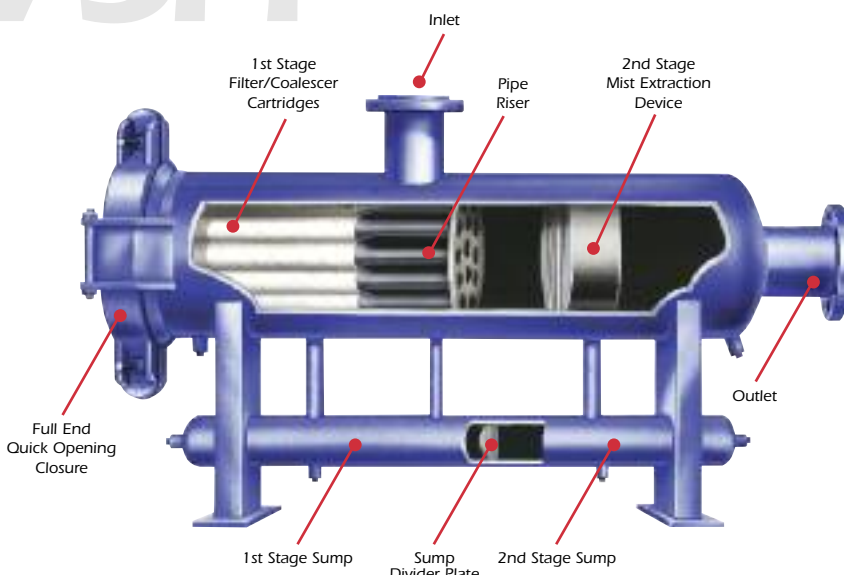


Filtration/Separation Technology from the Inventor of the Filter-Sep

## FEATURES & ADVANTAGES

- Full-end closure eliminates confined space entry
- Gas entry is on pipe risers versus directly on cartridges
- Pipe Risers:
  - Handle heavy liquid loads without damaging the cartridges or housing
  - Knock down 90% of liquids and wash away some solid contaminants thus enhancing cartridge life
  - Decrease turbulent gas entry into housing versus housings with baffle design
  - Provide individual sealing to ensure properly sealed cartridges versus complicated multi-cartridge sealing devices
- Enhanced z-bar riser support provides four points of contact within the cartridge, holds the cartridge square to the sealing surface and allows cartridge to self-center on the riser versus threaded rod design
- Knife-edge sealing surface on z-bar riser ensures tight seal of cartridge on the riser
- PEACH® Advanced Technology cartridges
- 72" length cartridge option on 75H for increased solid contaminant loading capacity
- Technology driven, high performance 2nd stage mist extraction device
- Liquid removal sump with two stages
- Dual downcomers to 1st stage sump eliminates vapor locking during upset conditions

# 75H



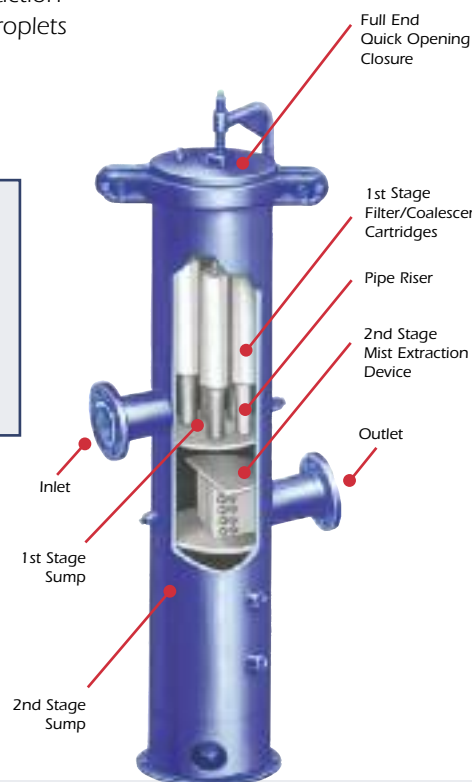
### HOW IT WORKS:

Contaminated, wet gas enters and impinges on the pipe risers where large bulk liquid contaminants drop out of the gas stream. The risers also serve to distribute the gas evenly through the first stage filter/coalescer cartridges. The gas flows through the cartridges, from the outside, to the inside where fine particulate contaminants are trapped and removed from the gas stream. The cartridges also serve to coalesce the fine liquid contaminant in the gas stream prior to entering the second stage mist extraction device where the large coalesced droplets are removed and clean, dry gas exits the housing.

**Removes 99.98%  
of solids and liquids  
1 micron and larger**

Laboratory and field performance validated, under isokinetic conditions, with laser particle counter technology.

# 75V



### TYPICAL APPLICATIONS

- Compressor Suction
- Contact Towers (Inlet & Overhead)
- Gas Storage Facilities
- Landfill Gas
- Plant Entrance Gas

## HOUSING SPECIFICATIONS

### STANDARD HOUSING

- Custom Design Horizontal and Vertical Units
- 6" to 84" diameter
- ASME Code Section VIII, Div. 1
- Design temperature from -20°F to 550°F
- Quick Opening Closure
- Pressure Parts: Carbon Steel
- External Attachments: Carbon Steel
- Hydrostatic testing at 1.3 x design pressure
- Comes with PEACH® DynaSep™ (Model PCHG) filter/coalescer cartridges in polyester at 1 micron rating

### OPTIONS

- Other design codes available based on local code requirements
- Design Pressure up to 5,000 psig
- Materials of Construction
  - 304 Stainless Steel
  - 304L Stainless Steel
  - 316 Stainless Steel
  - 316L Stainless Steel
  - Low Temperature Materials
- Non-Destructive Testing (NDT)
  - Radiography
  - Magnetic Particle
  - Liquid Penetration
  - Ultrasonic
  - Brinell Hardness
  - Charpy Impact
- Coating options
  - Sandblast: commercial, near white and white metal
  - Paint: 2 & 3 coat corrosion resistant
- PECO SafeLock Closure®
- Auxiliary Packages in stock
- Flanged connections & sump
- PEACH® DynaSep™ filter/coalescer cartridge options
  - Polypropylene media
  - Metal hardware
  - Various micron ratings
    - 0.3 (black powder removal)
    - 0.5
    - 1 (standard)
    - 5
    - 10
- High temperature cartridge option FibrSep™ HTO (Model FGGF) good to 550°F

## 1st

### First Stage Advanced Technology Cartridges:

#### Cartridge Model PCHG

Available in polyester or polypropylene media and micron ratings of 0.3, 0.5, 1, 5 and 10.



#### Enhanced Z-Bar Riser Support

Self-centering riser which supports cartridge internal diameter at 4 points and provides a knife-edge sealing surface.



The Model 75 uses the **PEACH® DynaSep™** cartridge, a truly advanced filter/coalescer cartridge with unparalleled results in the field! This synthetic cartridge is a proven performer at removing deformable and shear sensitive contaminants commonly seen in today's gas applications. The PEACH® DynaSep™ is made with a rigid structure to maintain porosity and permeability. This makes the cartridge resistant to abrasion from sharp particles and resistant to compression from heavy

liquid loading. The PEACH® DynaSep™ also provides a longer, torturous (axial, radial and helical) flow path to

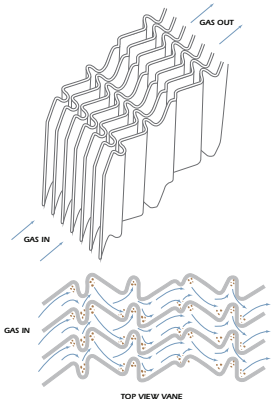
increase the probability for contaminant particles to impact fibers and be captured throughout the depth of the media. These features provide lower differential pressure and extended filtration capacity.

## 2nd

### Second Stage Mist Extraction Device:

PECOFacet's exclusively designed and manufactured **Wave Plate Vane** mist extractor technology provides removal of liquid droplets. The wave plate vane's unique "wave" profile produces an enhanced inertial impaction separation mechanism which provides high efficiency removal and low differential pressure while resisting plugging by semi-solid type contaminants. The wave plate vane is built to resist extreme process upsets, as its construction uses more support bolting than other similar vane designs.

#### Wave Plate Vane





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## Oil & Gas Technology Center

Mineral Wells, Texas

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## Visit our website to find:

- An office location near you
- Installation & Operating Instructions
- Housing registration form
- Associated cartridge information
- Most current literature editions

## FIELD PROVEN RESULTS



PECOFacet is a world leader in the design and manufacture of quality Filtration Equipment, specializing in the Oil and Gas Industry.

Founded in 1936, many of the filtration technologies used in the Industry today were originally developed by PECOFacet.

Our continued dedication to research and development of new advanced technologies has kept PECOFacet at the forefront of Engineered Filtration Solutions for use by our clients worldwide.

**YOUR  
CONTAMINANT  
MANAGEMENT  
PARTNER<sup>SM</sup>**

## HOUSING ORDERING INFORMATION

75H	8	336	6	1480	WP
MODEL 75H = Horizontal 75V = Vertical	No. Cartridges	Cartridge Size 75V 312 324 336 75H 336 372	Nominal Shell Diameter (Inches)	Design Pressure (PSIG)	Mist Extractor Type WP = Wave Plate

Refer to the following data sheets for detailed cartridge information:

EL-PCHG-TD-01 PEACH<sup>®</sup> DynaSep<sup>™</sup>

EL-FS-TD-03 FibrSep<sup>™</sup> HTO

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PEACH<sup>®</sup> products protected by USA Patent Nos. 5827430 and 5893856 as well as patents in various other countries.

Refer to the website for the most current literature editions.

FS-75-SL-01 (PFMW-201311)