Your local distributor:

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**FEAT URES**

- **High Efficiency Coalescing (0.3 Micron)**

  The PEACh® G emini PuraSep provides the high filtration efficiency of a vertical gas coalescer while effectively handling liquid and contaminant loads that would overwhelm standard vertical gas coalescers.

- **Quick Opening Closures**

  Easy and quick access to all internal parts is made available via Quick Opening Closures.

- **Flanged Inlet & Outlet Connections**

  Flanged connections conforming to ASME/ANSI B16.5 are provided for gas inlet and outlet nozzles. Forged steel threaded couplings are provided for all instrument connections.

- **Horizontal Configuration**

**S P ECIFICATIONS**

**Stand ard V essel**

- **Operating Pressure Range**
  - Gas molecule weight, or specific gravity
  - Type of liquid contaminant
  - Liquid density or specific gravity
  - Amount of liquid load
  - Design pressure

**O R D E R I N G**

The following information is required when requesting sizing and pricing on the PEACh® G emini PuraSep®.

- Operating pressure range
- Gas molecule weight, or specific gravity

**S TANDARD DESI G N A T I O N**

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<th>Element Size</th>
<th>Design</th>
<th>Pressure (psig)</th>
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<td>1480</td>
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**SPECIFICATIO NS**

- Operating pressure range
- Operating temperature range
- Gas molecule weight, or specific gravity

**M O D E L  D E S I G N A T I O N**

**P E C O F acet H eadquarters**

Po Box 640
Mineral Wells, Texas 76068
Ph: 800-877-7326
Fax: 940-225-4622
E-mail: Sales@PECOFacet.com
www.pecofacet.com

**Locations**

- Alkmaar, The Netherlands
- Calgary, Canada
- Cleveland (Casper), Wyoming
- Athens, Greece
- Houston, Texas
- Kuwait, Kuwait
- Kuala Lumpur, Malaysia
- Laredo, Spain
- Manaus, Brazil
- Metz-Neunkirchen, United Kingdom
- Perth, Australia
- Porto Alegre, Brazil
- Queretaro, Mexico
- Nancy (Belfort), France
- Sacramento, California
- Shanghai, China
- Silkeborg, Denmark
- Tulsa, Oklahoma
- Vale, Utah
- Wellington, China

**F E A T U R E S**

A N E W E RA IN

FILTRATION PERFORMANCE & INNOVATION

The following information is required when requesting sizing and pricing on the PEACh® G emini PuraSep®.

- Operating pressure range
- Gas molecule weight, or specific gravity

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**CMYK**

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Available in stock from 10” to 60” 1480 psid.

**STANDARD VESSEL**

- **Options**
  - Pressure Closures
- **Materials of Construction**
- **Design Pressure**
- **Operating Temperature**
- **Technical Specifications**
- **Design Quality**
- **Technical Assistance**

**ARTICLES OF CONSTRUCTION**

- **Process Equipment Directive 97/23/EC (PED), PD500, EN 13445, GB150, and AS1210**
- **Design Pressure**
- **Materials of Construction**
- **Non-destructive Test (NDT)**
- **Coating Options**
- **Closure Options**

**STANDARD VESSEL**

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FOR COMPETITIVE SIZING, CALL PECO Facet® HEADQUARTERS.

Available in stock from 10” to 60” 1480 psid.
IMPROVE RELIABILITY with PEACH® Gemini PuraSep®

The PEACH® Gemini PuraSep® is another PECOFacet innovative product for the oil and gas industry. Specifically designed around patented PEACH® technology, the PGP Series was developed to offer superior performance, flexibility, and a remarkably trouble-free design - unlike any filter/coalescing equipment currently available.

INNOVATIVE TECHNOLOGY

The PEACH® Gemini PuraSep® utilizes two stages of coalescence in a single PEACH® element. Gone is the conventional 2nd stage mist eliminator along with the worries about the type of 2nd stage needed for various liquid contaminants. The PEACH® Gemini coalescing element is compatible with, and efficiently coalesces, liquid contaminants encountered in the oil & gas industry, including low surface tension liquids.

The PEACH® Gemini PuraSep® delivers ultra-clean gas with high efficiency removal of solid and liquid contaminants, while effectively handling higher inlet solid and liquid loads than conventional gas coalescers. Two stages of coalescing and separating are contained in a single, replaceable PEACH® Gemini element.

Gemini PuraSep® Operation

A single POC coalescing element separated in the subheader by a chevron seal forms the two primary stages of coalescing.

Incoming liquids pass outboard through the first section of the PGC elements where the solids are filtered and 1st stage coalescing takes place.

The gas with coalesced liquids then passes to the 2nd stage area of the PGC element, where they flow from inside to outside, causing them to be coalesced for a second time.

A specially designed louvers impingement baffle built over the 2nd stage section of the PGC element captures the larger coalesced liquids along its surface where they stop due to gravity. The louvers impingement baffle directs the gas flow to yield a flat scrubbing effect. The clean gas exits the louvers impingement baffle and leaves the vessel through the Gemini's outlet nozzle.

Liquids drain through the bottom of each louvers impingement baffle and are collected in the 2nd stage sump compartment.

A total of four mist extraction areas within the Gemini act on entrained liquid contaminants. Droplets in the range of 100 to 1,000 microns are removed by simple impingement against the pipe risers located at the gas entrance.

The 1st stage of the PGC element removes liquids from 1 to 100 microns in size. Liquids one micron and smaller are coalesced and removed via the 2nd stage of the PGC element. Finally, these coalesced liquids are separated and removed within the louvers impingement baffle leaving a very clean gas effluent stream.

FIELD PROVEN RESULTS

Utilizing the PGC element for two stages of coalescing, the PEACH® Gemini's PuraSep® offers removal efficiencies that meet or exceed the stringent specifications of most applications.

NO WRENCHES REQUIRED

The Safelock™ Closure allows access to the vessel without the use of any tools.

User Friendly Design

The operation of the PEACH® Gemini PuraSep is simple and trouble-free. Thus, users minimize their operating and maintenance cost.

- POC elements have fixed bayonet ends. There are no nuts to remove and reinstall when changing out elements. Once the end closure is opened, no other tools are needed.
- There is no cumbersome spider bar assembly as typically used to mount and support the elements. The Gemini contains a lightweight mounting plate with handle that easily fits over the bayonet end caps of the elements.
- There are no rigid element support assemblies to maneuver the elements over, or to hinder removal. The PGC element easily slides into place via the self-centering riser pipes mounted in the subheader.
- There are fewer elements to replace. The gas flow capacity of each PGC element is higher than conventional vertical Gas Coalescers or Filter Separators.
- Because the 1st stage section of the PGC element flows outside to inside, the Gemini offers high dirt holding capacity.

IMPROVE RELIABILITY with PEACH® Gemini PuraSep®
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PECO Facet Headquarters
PO Box 440
Mineral Wells, Texas 76068
Ph: 800-677-7326
Fax: 940-325-4622
E-mail: Sales@PECOFacet.com
www.pecofacet.com

• High Efficiency Coalescing (0.3 Micron)
The PEACH® Gemini Purasep provides the high
collection efficiency of a vertical gas coalescer
while effectively handling liquid and
contaminant loads that would overwhelm
standard vertical gas coalescers.

• Quick Opening Closures
Easy and quick access to all internal parts is
made available via Quick Opening Closures.

• Flanged Inlet & Outlet Connections
Flanged connections conforming to ASM E/AN SI
B16.5 are provided for gas inlet and outlet
nozzles. Forged steel threaded couplings are
provided for all instrument connections.

• Horizontal Configuration

Available in stock from 10” to 60”
1480 psid.

PECOFacet has a policy of continuous
product research and development
and reserves the right to change design
and specifications without notice.

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Innovative Technology for Gas Coalescing

I N N O V A T I V E  T E C H N O L O G Y

The following information is required when requesting
sizing and pricing on the PEACH® Gemini Purasep®:

• Operating pressure range
• Operating temperature range
• Gas molecule weight, or specific gravity
• Type of liquid contaminant
• Liquid density or specific gravity
• Amount of liquid load
• Design pressure
• Design temperature
• Corrosion allowance requirements
• Special design requirements

Available in stock from 10” to 60”
1480 psid.

SPECIFICATIONS

Standard Vessel

• Compliant Standards:
  - Horizontal
  - ISO 9001

• Design Pressure:
  - 1 through 96 element units

• Standard Design Pressures:

• Minimum Operating Temperature:
  - 20°F

• Standard Materials of Construction:
  - Pressure Parts: Carbon Steel

• Flanged Connections:
  - Carbon Steel

• Coalescing Elements:
  - PECO Facet Series (PGC)
  - 4.5” dia. x 72”, 82”, or 94” lengths, depending on vessel size

• Design Code:
  - ASME/ANSI B31.1

• Model Designation:

• Design Pressure:

• Design Temperature:

• Standard Vessel

• Standard Models:
  - Horizontal
  - 1 through 96 element units

• Standard Design Pressures:
  - 10”, 20”, 30”, 40”, 50”, 60”, 72”, 100”, 1320”, 1480”

• Maximum Operating Temperature:
  - 220°F

• Standard Materials of Construction:
  - Pressure Parts: Carbon Steel

• Coalescing Elements:
  - PECO Facet Series (PGC)

• Design Code:
  - ASME/ANSI B31.1

• Model Designation:

• Design Pressure:

• Design Temperature:

• Standard Vessel

• Standard Models:
  - Horizontal
  - 1 through 96 element units

• Standard Design Pressures:

• Minimum Operating Temperature:
  - 20°F

• Standard Materials of Construction:
  - Pressure Parts: Carbon Steel

• Flanged Connections:
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**IMPROVE RELIABILITY with PEACH® Gemini PuraSep®**

The PEACH® Gemini PuraSep® is another PECOFacet innovative product for the oil and gas industry. Specifically designed around patented PEACH® technology, the PGP Series was developed to offer superior performance, flexibility, and a remarkably trouble-free design - unlike any filter/coalescing equipment currently available.

**INNOVATIVE TECHNOLOGY**

The PEACH® Gemini PuraSep® utilizes two stages of coalescence in a single PEACH® element. Gone is the conventional 2nd stage mist eliminator along with the worries about the type of 2nd stage needed for various liquid contaminants. The PEACH® Gemini coalescing element is compatible with, and efficiently coalesces, liquid contaminants encountered in the oil & gas industry, including low surface tension liquids.

The PEACH® Gemini PuraSep® delivers ultra-clean gas with high efficiency removal of solid and liquid contaminants, while effectively handling higher inlet solid and liquid loads than conventional gas coalescers. Two stages of coalescing and separating are contained in a single, replaceable PEACH® Gemini element.

**Gemini PuraSep® Operation**

A single PGC coalescing element separated in the subsheet by a chevron seal forms the two primary stages of coalescing.

Incoming liquids pass outside-in through the first section of the PGC elements where the solids are filtered and 1st stage coalescing takes place. The gas with coalesced liquids then passes to the 2nd stage area of the PGC element, where they flow from inside to outside, causing them to be coalesced for a second time.

A specially designed louvered impingement baffle built over the 2nd stage section of the PGC element captures the larger coalesced liquids along its surface where they drop out due to gravity.

The louvered impingement baffle directs the gas flow to yield a final scrubbing effect. The clean gas exits the louvered impingement baffle and leaves the vessel through the Gemini's outlet nozzle.

**IN N O V A T I V E  T E C H N O L O G Y**

The operation of the PEACH® Gemini PuraSep is simple and trouble-free. Thus users minimize their operating and maintenance costs.

- PGC elements have fixed bayonet ends. There are no nuts to remove and reinstall when changing out elements. Once the end closure is opened, no other tools are needed.
- There is no cumbersome spider bar assembly as typically used to mount and support the elements. The Gemini contains a lightweight mounting plate with handle that easily lifts over the bayonet end caps of the elements.
- There are no rigid element support assemblies to maneuver the elements over, or to hinder removal. The PGC element easily slides into place via the self-centering riser pipes mounted in the subsheet. There are fewer elements to replace. The gas flow capacity of each PGC element is higher than conventional vertical Gas Coalescers or Filter Separators.
- Because the 1st stage section of the PGC element flows outside to inside, the Gemini offers high dirt holding capacity.
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Liquids drain through the bottom of each louvered impingement baffle and are collected in the 2nd stage sump compartment.

A total of four mist extraction areas within the Gemini act on entrained liquid contaminants.

Droplets in the range of 100 to 1,000 microns are removed by simple impingement against the pipe risers located at the gas entrance.

The 1st stage of the PGC element removes liquids from 1 to 100 microns in size. Liquids one micron and smaller are coalesced and removed via the 2nd stage of the PGC element.

Finally, these coalesced liquids are separated and removed within the louvered impingement baffle leaving a very clean gas effluent stream.

**NO WRENCHES REQUIRED**

The Safelock™ Closure allows access to the vessel without the use of any tools.

**FIELD PROVEN RESULTS**

Utilizing the PGC element for two stages of coalescing, the PEACH® Gemini PuraSep® offers removal efficiencies that meet or exceed the stringent specifications of most applications.

- PGC elements have fixed bayonet ends.
- There are few elements to replace.
- The operation of the PEACH® Gemini PuraSep is simple and trouble-free. Thus users minimize their operating and maintenance cost.
- There are no conventional 2nd stage needed for various liquid contaminants. The PEACH® Gemini coalescing element is compatible with, and efficiently coalesces, liquid contaminants encountered in the oil & gas industry, leaving a very clean gas effluent stream.
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**User Friendly Design**

The PEACH® Gemini PuraSep® offers high dirt holding capacity.
FEA T U R E S

• High Efficiency Coalescing (0.3 Micron)

The PEACH Gemini Purasep provides the high filtration efficiency of a vertical gas coalescer while effectively handling liquid and contaminant loads that would overwhelm standard vertical gas coalescers.

• Quick Opening Closures

Easy and quick access to all internal parts is made available via Quick Opening Closures.

• Flanged Inlet & Outlet Connections

Flanged connections conforming to ASME/ANSI B16.5 are provided for gas inlet and outlet nozzles. Forged steel threaded couplings are provided for all instrument connections.

• Horizontal Configuration

ORDERING

The following information is required when requesting sizing and pricing on the PEACH Gemini Purasep:

• Operating pressure range
• Gas molecule weight, or specific gravity
• Type of liquid contaminant
• Liquid density or specific gravity
• Amount of liquid load
• Design pressure
• Design temperature
• Corrosion allowance requirements
• Special design requirements

SPECIFICATIONS

Standard Vessel

• Design Standard:
  - Horizontal: J. Minimum to maximum units, from 10’ to 72’, shell diameter.
• Standard Design Pressures:
  - 285, 500, 740, 1000, 1250 & 1480 psig
• Minimum Operating Temperature:
  - 220 F
• Standard Materials of Construction:
  - Pressure Parts: Carbon Steel
  - External Attachments:
    - Carbon Steel
• Coalescing Elements:
  - PVC Series 1085, 4.5” Dia. x 73”, 82” or 94” lengths, depending on vessel width
• Design Code:
  - ASME/ANSI B16.5

Options

• Design Codes:
  - Pressure Equipment Directive 97/23/EC
  - PD5500
  - EN 13445
  - GB150
  - AS1210
• Design Pressure:
  - Up to 5000 psig
• Materials of Construction:
  - Pressure Parts:
    - 304, 304L, 316, 316L Stainless Steel
    - Low Temperature Materials
  - Nondestructive Test (NDT):
    - Radiography
    - Magnetic Particle Examination
    - Liquid Penetration Examination
    - Ultrasonic Examination
    - Visual Inspection
• Coating Options:
  - Sandblast: commercial, near white and white metal
  - Paint: 2 & 3 coat corrosion resistant
• Closure Options:
  - PE CO Facet Safelock
  - Quick Opening Closure

FEA T U R E S

A N E W  E R A I N

FILTRATION PERFORMANCE & INNOVATION

ISO 9001

Innovative Technology for Gas Coalescing

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