



ISO 9001

Series PCHG Gas Filtration Products



ENGINEERED FILTRATION SOLUTIONS®

USA Patent No. 5827430 and 5893856 (International Patents Granted)

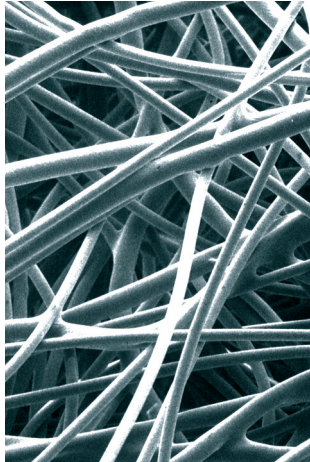
**PEACH® - an innovative gas filtering/coalescing technology.**

## **PEACH® FILTRATION TECHNOLOGY**

gives you consistent, predictable performance,  
high contaminant loading, and high efficiency.

### **PECO® ENGINEERED MEDIA**

PEM, specifically designed for filtration coalescing, is the key component in the production of the PEACH® gas element. The PEM is designed with an assigned micron rating and efficiency. Raw fibers of various denier are weighed, blended and thermally bonded, then formed into a compressed filter media sheet. Various layers of PEM are then used in the manufacture of the PEACH® gas element.



Peach Media 150X  
SEM Photo by Southwest Research Institute

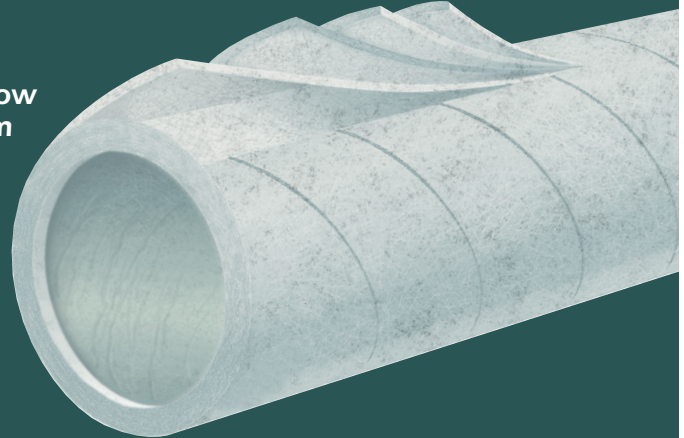
### **PECO® ENGINEERED APPLIED CONICAL HELIX TECHNOLOGY**

PEACH® is the manufacturing process incorporating PEM to form an element into a conical helix. This innovative patented process makes possible a graded density pattern which yields outstanding filtration.

### **THE PEACH®**

The PEACH® consists of several lateral sections of PEM formed into a conical helix pattern. Each section consists of multiple helically wrapped layers. Through thermal bonding, these spiral layers are applied to conform and overlap the previous layer, forming a cone...the conical helix structure. This structure results in a graded density pattern that yields high contaminant loading, structural strength, maximum efficiency, and excellent reproducibility.

**The PEACH®  
Conical Helix  
Structure  
yields high flow  
and maximum  
efficiency.**



### **GRADED DENSITY**

Each layer of the PEACH® filter performs a particular function. While all layers are designed to a specific micron rating, each lateral section removes contaminants. The outer layer typically removes the bulk solids. As contaminants move through the depth of the cone, the filter densities increase to meet the required micron rating. The inner layers of the filter provide structural strength.

### **PEACH® FILTRATION TECHNOLOGY**

- A performance engineered cartridge
- Predictable performance
- Performance assured from start-up
- No unloading
- High dirt holding capacity
- No media migration

### **ENVIRONMENTAL FEATURES**

- 100% synthetic
- Incinerable — (CO<sub>2</sub> + Water) Trace ash & no plastic residue
- Ease of disposal: crush, shred, chop, etc.
- Coreless, no metal parts
- No fiberglass media

# PEACH® GAS ELEMENTS

## CONSTRUCTION

- **Media** Polyester or Polypropylene
- **Gaskets/End Cap** Integral thermally bonded polyester or polypropylene. Optional buna-n or viton with metal end caps.
- **Core** None in standard construction. If required — louvered, carbon steel.

## OPERATIONAL DATA

- Recommended Element Change Out:  
12 - 14 PSID / .83 - .97 bar.
- See chart below for collapse strengths
- Maximum Operating Temp:  
Polyester 240° F / 116° C  
Polypropylene 180° F / 82° C  
Note: Temps from 200° - 240°F require a core for 4.5" & 5.5" O.D. filters.
- Micron Ratings:  
0.5, 1, 5, 10 SCW=0.3
- Recommended Torque to Seal Filters: 5-10 ft-lbs  
**NOTE: This Torque should not be exceeded.**
- Efficiency:  
99.9%

### CORE COLLAPSE STRENGTHS: PSID

| Size | Temp °F | No Core | STD Core | High Pressure Core |
|------|---------|---------|----------|--------------------|
| 3"   | 100     | 40      | N/A      | N/A                |
|      | 150     | 35      | N/A      | N/A                |
|      | 200     | 20      | N/A      | N/A                |
| 4.5" | 100     | 30      | 50       | 145                |
|      | 150     | 25      | 50       | 145                |
|      | 200     | N/R     | 50       | 145                |
| 5.5" | 100     | N/A     | 35       | N/A                |
|      | 150     | N/A     | 35       | N/A                |
|      | 200     | N/A     | 35       | N/A                |

N/R = Not Recommended  
N/A = Not Applicable

#### Notes:

1. Polypropylene is recommended in filter/separators which are downstream of an amine processing plant due to possible contact with carryover amine fluids.
2. It is recommended that a core be used in the PCHG elements when retrofitting into some vessels other than PECO. PECO vessels incorporate a full length element z-bar carrier to support the element and therefore do not require a core in the standard 4.5" O.D. filters.
3. Refer to "Core Reference Chart" on back page to determine if cores are available as standard.

## PRODUCT ADVANTAGES

- PEACH® element has a high density tube with tolerances of +/- 5%, as compared to fiber glass tubes with tolerances of +/- 15%
- Integral end cap serves as gasket = 60 Durometer
- Long shelf life on elements without cores
- Resistant to erosion at high velocities
- Direct replacement to standard Fiberglass element
- Cylindrical elasticity eliminates collapsing on element carrier
- Multiple bonded layers for strength and rigidity
- Graded density for higher dirt loading and coalescing efficiencies
- Hydrophilic and oliophilic materials means greater coalescing efficiencies at higher rates
- No binders or glues for more direct chemical compatibility

## ISO 9001 CERTIFICATION

PECO® Filtration Elements are manufactured under a quality management system certified to ISO 9001. This assures that each PECO® Filter is engineered and manufactured to the highest level of quality standards therefore assuring you consistent tolerances and quality...filter after filter!





## Corporate Headquarters

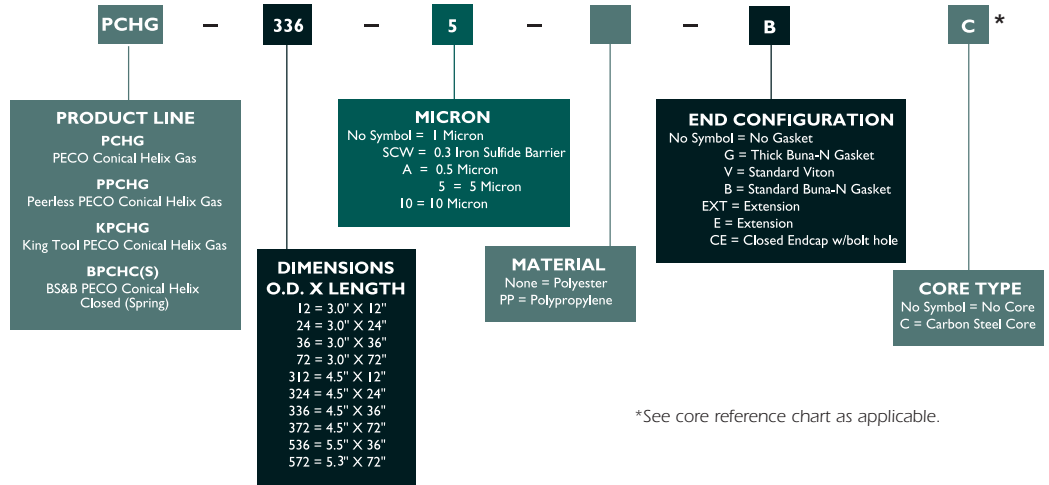
PO Box 640  
Mineral Wells, Texas 76068  
Ph: 800-877-7326  
940-325-2575  
Fax: 940-325-4622  
E-Mail: [elements@pecofacet.com](mailto:elements@pecofacet.com)  
[perryequipment.com](http://perryequipment.com)

## Locations

Almere, The Netherlands  
Cafasse (Torino), Italy  
Calgary, Canada  
Evansville, Wyoming  
Farmington, New Mexico  
Greensboro, North Carolina  
Houston, Texas  
Kempfen, Germany  
Kuala Lumpur, Malaysia  
La Coruna, Spain  
Manama, Bahrain  
Mid Glamorgan, United Kingdom  
Porto Alegre, Brazil  
Queretaro, Mexico  
Roissy (Paris), France  
Sacramento, California  
Shanghai, China  
Stilwell, Oklahoma  
Tulsa, Oklahoma  
Vernal, Utah  
Weifang, China

Your local distributor:

## PCHG NOMENCLATURE CHART



## AVAILABLE MODELS

The PCHG is a direct replacement to the PECO® FG gas element. \*Comparisons illustrated for 1 Micron Elements

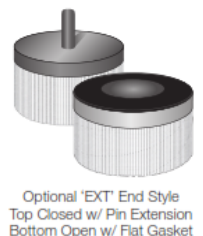
| Model    | OD (in/mm) | ID (in/mm)  | Length (in/mm) | PCHG Dirt Loading (lbs/gms) | FG Dirt Loading (lbs/gms) |
|----------|------------|-------------|----------------|-----------------------------|---------------------------|
| PCHG-12  | 3/76       | 2.08/53     | 12/304         | .71/323                     | .70/319                   |
| PCHG-24  | 3/76       | 2.08/53     | 24/609         | 1.50/684                    | 1.45/661                  |
| PCHG-36  | 3/76       | 2.08/53     | 36/914         | 2.24/1021                   | 2.2/1003                  |
| PCHG-72  | 3/76       | 2.08/53     | 72/1828        | 4.43/2020                   | 4.4/2006                  |
| PCHG-312 | 4.5/114    | 3.125/79.38 | 12/304         | 1.17/533                    | 1.05/478                  |
| PCHG-324 | 4.5/114    | 3.125/79.38 | 24/609         | 2.33/1062                   | 2.09/953                  |
| PCHG-336 | 4.5/114    | 3.125/79.38 | 36/914         | 3.50/1596                   | 3.14/1431                 |
| PCHG-372 | 4.5/114    | 3.125/79.38 | 72/1828        | 7.00/3192                   | 6.28/2863                 |
| PCHG-536 | 5.5/139    | 4.25/108    | 36/914         | 4.27/1947                   | 3.83/1748                 |
| PCHG-572 | 5.8/147    | 5.0/127     | 72/1828        | 8.11/3698                   | 7.67/3496                 |

\*Above results are based on standard PECO® testing protocol.

## CORE REFERENCE CHART

| Style                       | W/Core   | W/O Core | Style         | W/Core   | W/O Core |
|-----------------------------|----------|----------|---------------|----------|----------|
| PCHG 3" O.D.                | N/A      | Standard | All KPCHG     | Standard | N/A      |
| PCHG SCW 3" O.D.            | N/A      | Standard | All PPCHG     | Standard | N/A      |
| PCHG 4.5" O.D.              | Optional | Standard | All BPCHC (S) | Standard | N/A      |
| PCHG 4.5" O.D., 5 & 10μ     | Standard | N/A      |               |          |          |
| PCHG 5.5" O.D., 5 & 10μ     | Standard | N/A      |               |          |          |
| PCHG 5.5" O.D.              | Standard | N/A      |               |          |          |
| PCHG SCW 4.5" & 5.5" O.D.   | Standard | N/A      |               |          |          |
| PCHG A 3", 4.5" & 5.5" O.D. | Standard | N/A      |               |          |          |

N/A = Not Applicable



Please refer to [pecofacet.com](http://pecofacet.com) for most current literature edition.