



PERRY EQUIPMENT CORPORATION

ISO 9001

Phase Separator Elements

The PECO® Series 110 Liquid/Liquid Phase Separators are used in a wide variety of applications for the filtration and separation of immiscible liquids. Liquid/Liquid Phase Separators are mechanical devices used primarily for purifying hydrocarbon products by the removal of emulsified water.

The Coalescing/Separator elements are designed to separate liquids from relatively clean streams. Although very efficient in removing dirt particles, it is not recommended to be used as a particle filter. If dirt particles are a problem, then it is recommended that a prefilter be placed upstream.

The Series 110 incorporates three basic types of filter elements, the Series "C", Series "S", and the Wafer Pack.



General Data

Typical Applications

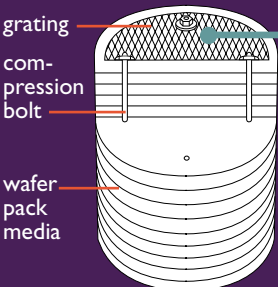
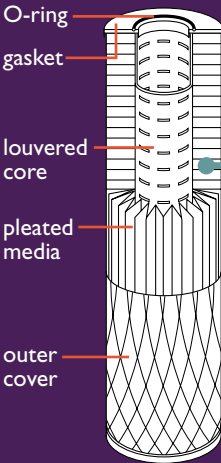
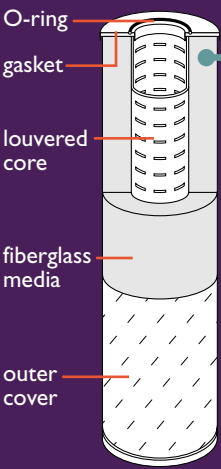
Water removal from:

- AV Gas
- Jet Fuel
- Diesel Fuel
- Kerosene
- Gasoline
- Transformer Oil
- Hydraulic Oil
- Lean Oil
- Other Hydrocarbons

Amine, Glycol, or Caustic removal from:

- Natural Gas Condensate
- Butane
- Propane
- Other Hydrocarbons

Flow Rates | 1 GPM to 2000 GPM



Series C Fiberglass Coalescing Element

Construction

Series Model	C-10, C-12, C-14, C-16, C-18	C-22
Media	Fiberglass	Fiberglass
Core	Aluminum	Aluminum
Endcap	Aluminum	Aluminum
Outerwrap	Cotton Sock	Cotton Sock
Gasket	Buna-N O-ring	Buna-N O-ring

Specifications

Series Model	C-10, C-12, C-14, C-16, C-18	C-22
Flow direction	In to Out	Out to In
Rec. Initial ΔP	2 psid	2 psid
Rec. Element Change Pressure	8 psid	8 psid
Core Collapse Pressure	N/A	20 psid
Maximum Operating Temperature	300° F / 149° C	300° F / 149° C
Micron Rating	1	1
Efficiency Removal at Stated Micron Size	98%	98%
pH Range	5-9	5-9
Configuration of Vessel	110V Vertical	110H Horizontal
Liquid Removal Efficiency (Effluent)	10 PPM	15-20 PPM

Surface Area / Dimensions

Model #	Surface Area ft ² / m ²	Dimensions** Length (in / mm)
C-10	.94 / .09	11.250 / 285.75
C-12	1.85 / .17	22.25 / 565.15
C-14	2.77 / .26	33.250 / 844.55
C-16	1.19 / .11	14.25 / 361.95
C-18	2.35 / .22	28.25 / 717.55
C-22	*2.91 / .27	22.25 / 565.15

* Outside to inside flow
** All sizes are 6" O.D. x 3.5" I.D.

Series S Separator Element

The Series "S" element is used in conjunction with the Series "C" coalescing element.

Construction

Media	S-11, S-13, S-15 Silicone Impregnated Cellulose Media
Core	Aluminum
Endcaps	Aluminum
Gaskets	Buna-N O-ring

Specifications

Recommended Initial ΔP	1 psid
Recommended Element Change	8 psid
Maximum Operating Temperature	250° F / 121° C
Micron Rating	5
Efficiency Removal (at stated micron size)	98%

Surface Area / Dimensions

Model #	Surface Area ft ² / m ²	Dimensions** Length (in / mm)
S-11	11.23 / 1.05	11.25 / 285.75
S-13	14.33 / 1.34	14.25 / 361.95
S-15	16.40 / 1.53	16.25 / 412.75

* All sizes are 6" O.D. x 3.5" I.D.

Wafer Packs

The PECO Wafer Packs are used in the PECO Series 110H. Available in three types of media, the PECO Wafer Pack is manufactured to the proper depth, required density, and uniformity to meet specific applications.

Specifications

Type Model	Excelsior EX*	Fiberglass FG	Stainless Steel SS
Solids Removal Efficiency (Microns)	40 - 60	1	50 - 60
Max. Operating Temperature	250° F / 121° C	300° F / 149° C	600° F / 316° C
Rec. Initial ΔP	1 psid	2 psid	1 psid
Rec. Change Out ΔP	8 psid	8 psid	8 psid
Liquid Removal Efficiency (Effluent)	50 - 75 PPM	15 - 20 PPM	50 - 75 PPM

* EX - (Excelsior) Processed Wood Base Product.
Note: The PECO Series "C" & "S" elements are not tested to API-1581 specifications.



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