



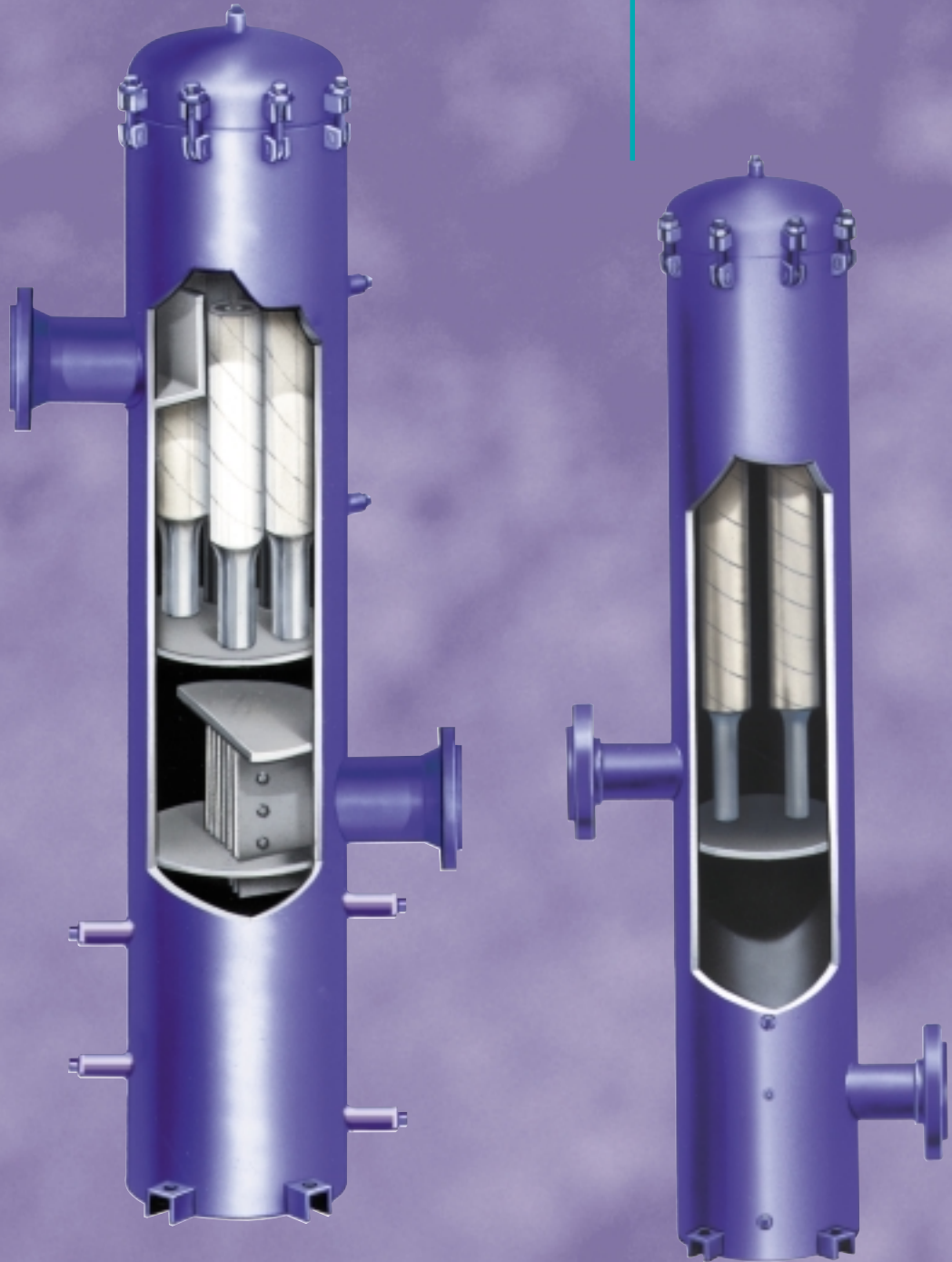
ISO 9001

PERRY EQUIPMENT CORPORATION

# SERIES 85, 88, 90

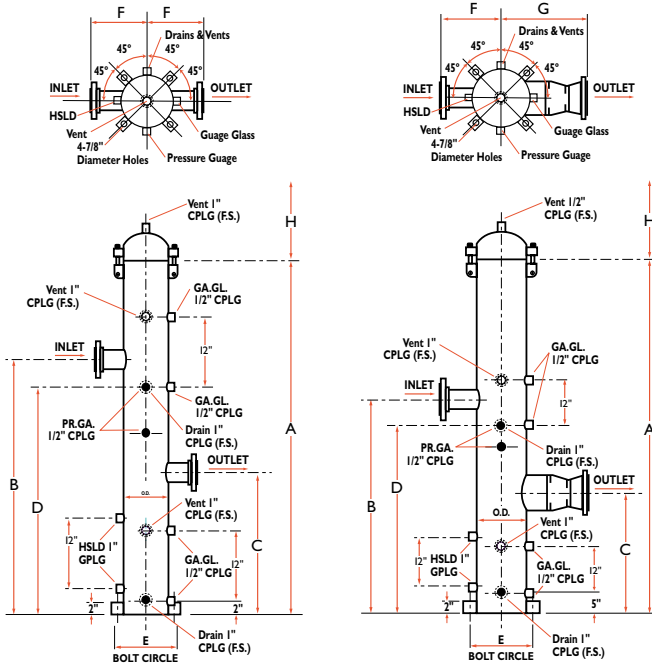
SMALL VOLUME

GAS FILTERS & FILTER/SEPARATORS



ENGINEERED FILTRATION TECHNOLOGIES

**The Series 85 Filter/Separator** is a two stage unit. The first stage employs PEACH® PCHG filter-coalescing elements. These elements remove the solids contamination and coalesce any entrained liquid droplets many times their original size. The coalesced liquid is then removed in the second stage high efficiency vane mist eliminator and collected in the liquid sump to be drained. These units are capable of removing solids and liquid particles one micron and larger when operated within 10% and 100% of their rated capacity.



**SERIES 85 & SERIES 90 MATERIALS OF CONSTRUCTION**

Vessel	Carbon Steel
Cover	Carbon Steel
Gasket	Buna-N
Element Support	Carbon Steel
Paint	Grey Primer

85

**SERIES 85 DIMENSIONS**

Model	O.D	A	B	C	D	E	F	G	H	INLET & OUTLET
85-1-FG12	6 5/8	54 3/4	44 1/2	24	36 1/8	9 1/8	9 1/4	—	14	2" R.F. 150# Flange
85-1-FG24	6 5/8	69 3/4	44 1/2	24	39 1/8	9 1/8	9 1/4	—	26	2" R.F. 150# Flange
85-1-FG36	6 5/8	78 3/4	44 1/2	24	36 1/8	9 1/8	9 1/4	—	38	2" R.F. 150# Flange
85-2-FG36	8 5/8	85 3/4	51 1/2	30	43 1/8	11 1/8	10 1/4	15	38	3" R.F. 150# Flange
85-3-FG36	10 3/4	90 3/4	56 1/2	33	48 1/8	13 1/4	11 3/8	18	38	3" R.F. 150# Flange

- Notes:**
- Changes to standard units, including different inlet and outlet sizes, inspection opening, or special connections can be furnished at slight additional cost. Consult factory for price and delivery.
  - Filters are of welded construction for a safe working pressure of 275 P.S.I. at 100° F.
  - All dimensions are in inches.
  - All filters may be furnished with ASME code stamp and data sheets for 275 P.S.I. design pressure at 100° F. See price sheet for extra cost.

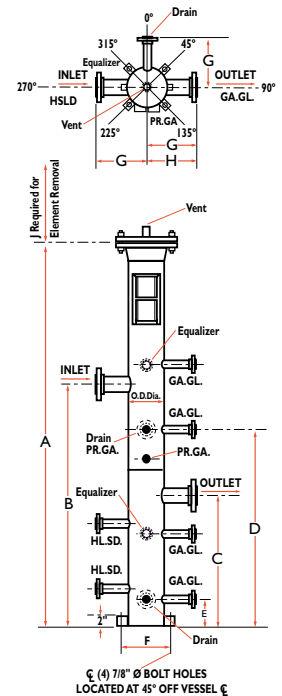
**The Series 85 Offshore** is designed specifically for the offshore industry to remove 98% liquid and solid contaminant particles, such as hydrocarbon liquids, dirt, rust and pipeline scale from natural gas fuel in low flow applications.

85 OFFSHORE

**SERIES 85 OFFSHORE DIMENSIONS**

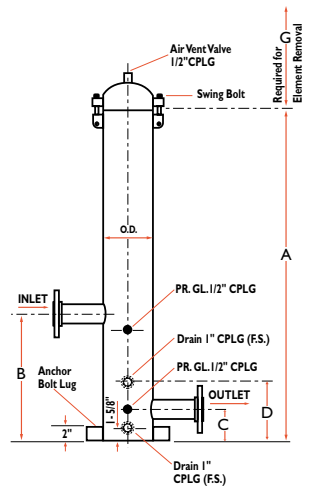
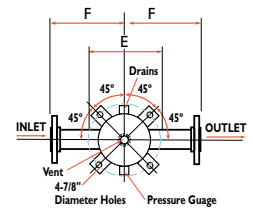
Model	O.D	Inlet Outlet	NPT Vent & PR.GA.	GA. GL.	Drain	HSLD	NPT Equalizer	A	B	C	D	E	F	G	H	J
								A	B	C	D	E	F	G	H	J
85-1-36-6-275 (OFF)	6 5/8	2	1/2					82 3/4	47 1/2	27	39 1/4	5	9 1/8	9	9	38
85-1-36-8-275 (OFF)	8 5/8	3*	1/2					86 3/4	54 1/2	33	42 3/8	5	11 1/8	15	15	38
85-1-36-10-275 (OFF)	10 3/4	3*	1/2					96 1/8	59 1/2	36	48 1/4	5	13 1/4	11	18	38

\* Outlet to have a reducer to listed size.



**The Series 90** is designed for filtering dry gas or air streams. These units are extremely useful in removing desiccant fines, pipe scale and other solid contaminants one micron and larger. Employing single stage filtration and capable of utilizing a number of different element styles, it is a versatile performer.

90



**SERIES 90 DIMENSIONS**

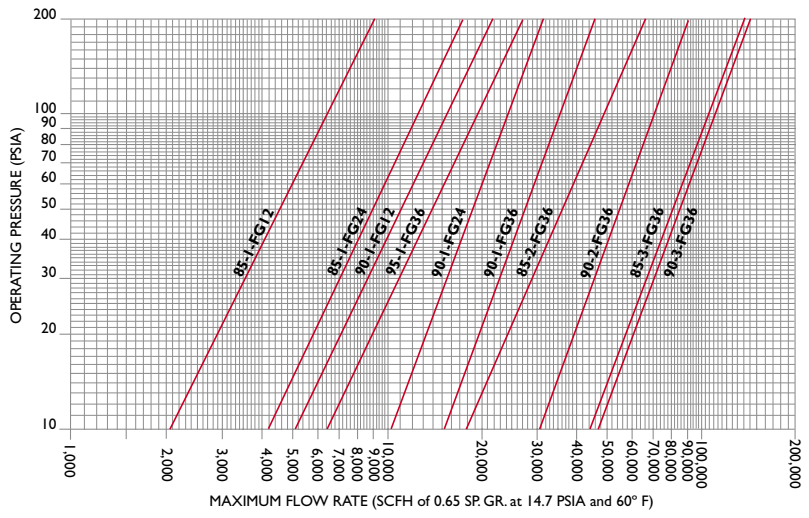
Model	O.D	A	B	C	D	E	F	G	INLET & OUTLET
90-1-FG12	6 5/8	26	15 3/4	4	7 3/8	9 1/8	9 1/4	14	2" R.F. 150# Flange
90-1-FG24	6 5/8	41	15 3/4	4	7 3/8	9 1/8	9 1/4	26	2" R.F. 150# Flange
90-1-FG36	6 5/8	50	15 3/4	4	7 3/8	9 1/8	9 1/4	38	2" R.F. 150# Flange
90-2-FG36	8 5/8	50	15 3/4	4	7 3/8	11 1/8	10 1/4	38	3" R.F. 150# Flange
90-3-FG36	10 3/4	50	15 3/4	4	7 3/8	13 1/4	11 3/8	38	3" R.F. 150# Flange

- Notes:**
- Standard units as shown are stock items.
  - Changes to standard units, including different inlet and outlet sizes, inspection opening, or special connections can be furnished at slight additional cost. Consult factory for price and delivery.
  - Filters are of welded construction for a safe working pressure of 275 P.S.I. at 100° F.
  - All dimensions are in inches.
  - All filters may be furnished with ASME code stamp and data sheets for 275 P.S.I. design pressure at 100° F. See price sheet for extra cost.

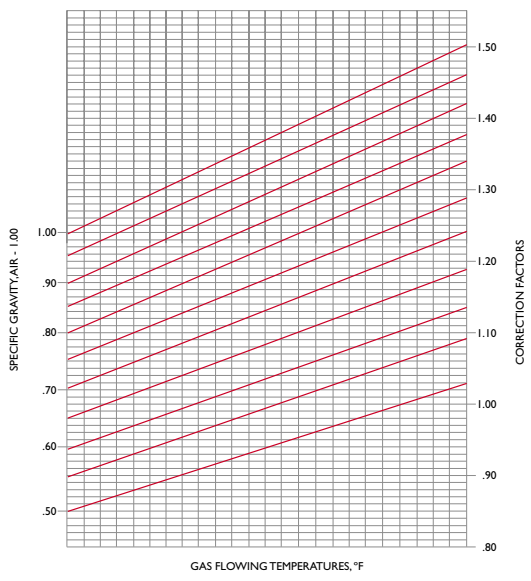


**SERIES 85 & 90 ARE IDEAL FOR:**

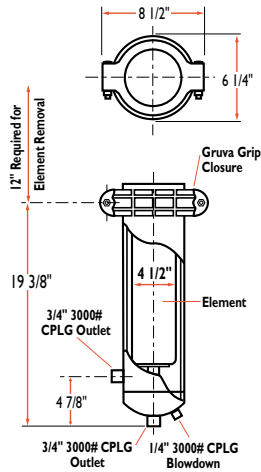
- Fuel gas for large engines
- Fuel gas for large boilers
- Instrument air supply
- Fuel gas for direct fired heaters
- Supply gas for automatic control equipment
- Protection of valves and meters



**CONVERSION CHART**



- If vapor phase is other than natural gas of 0.65 specific gravity at 60° F and 14.7 PSIA, correct to these conditions using the PECO Conversion Chart on top left hand corner of this sheet as follows:  
Find the maximum operating temperature on the horizontal scale. Follow temperature line vertically until it intersects with the specific gravity line. The correction factor is then found horizontally to the right of the intersection.
- Multiply the flow rate (SCFH) by the correction factor.
- Determine PECO Filter-Sep or Filter required by entering sizing chart at left at minimum operating pressure. Move to right to intersection with the corrected maximum gas flow line. The PECO Filter-Sep or Filter required is shown by the slanted line to the right of the intersection of the operating pressure and corrected maximum gas flow lines. The Sizing is based upon a maximum pressure drop of 60" water column across the entire unit.

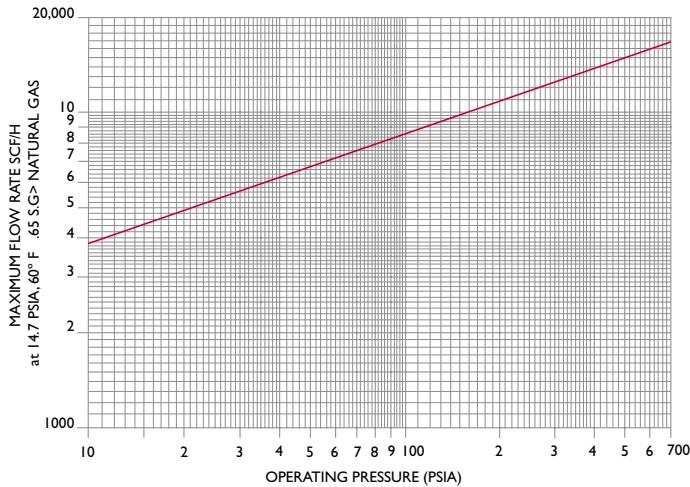


The Series 88 is designed for general process gas applications where a compact, high pressure vessel is required.

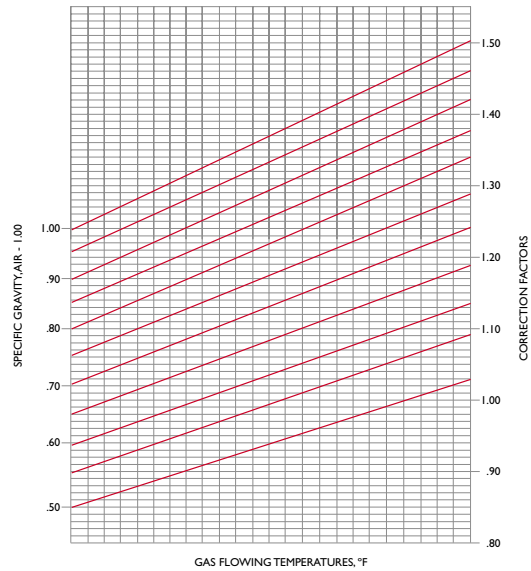
88

**SERIES 88 MATERIALS OF CONSTRUCTION**

Vessel	_____	Carbon Steel
Cover	_____	Carbon Steel
Gasket	_____	Buna-N
Blowdown Plug	_____	Carbon Steel
Element Support	_____	Carbon Steel
Couplings	_____	300# NPT
Paint	_____	Grey Primer



**88 Conversion Chart**



Your local distributor:



e-mail: [fs@pecousa.com](mailto:fs@pecousa.com)  
 web site: [www.pecousa.com](http://www.pecousa.com)

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 800-877-PECO  
 Telefax: 940-325-4622  
 e-mail: [fs@pecousa.com](mailto:fs@pecousa.com)

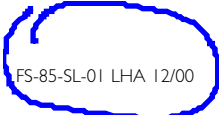
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FS-85-SL-01 LHA 12/00