

FILTER CARTRIDGE SPECIFICATION DATA SHEET

ICN # 00-032858

Model NGGC-312 PL-01

Advanced Technology PEACH® product

APPLICATION

Series

CARTRIDGE FOR NATURAL GAS SERVICE USED TO COALESCE AEROSOL LIQUIDS. TYPICALLY USED IN REVERSE FLOW COALESCER STYLE VESSEL SUCH
AS PECO 77V OR COMPETITORS.

FEATURES / BENEFITS

PEACH SATURATED DEPTH TECHNOLOGY COALESCER.

DynaCeptor™

- INTERNAL CARTRIDGE DRAINAGE SLEEVE ON BOTTOM CAP TO PREVENT AERSOLS DRAINING FROM RE-ENTRAINING IN GAS STREAM
- ADVANCED TECHNOLOGY DEPTH FILTER THAT PROVIDES A RIGID STRUCTURE THAT MAINTAINS AN OPEN POROSITY AND PERMEABILITY FOR
 FLOW
- ROBUST DESIGN LESS SUSCEPTIVE TO RUPTURE DURING SLUG FLOW CONDITIONS.
- HELICAL FLOW PATH FORCES THE GAS TO TAKE A LONGER PATH THROUGH THE ELEMENT THUS INCREASING THE CONTAMINANTS CHANCES OF IMPACTING FIBERS AND COALESCING.
- PEACH TECHNOLOGY GAS COALESCERS TYPICALLY OPERATE AT A LOWER DIFFERENTIAL PRESSURE THEN TRADITIONAL DEPTH MICROGLASS OR
 PLEATED MICROGLASS COALESCERS. THIS EQUATES TO LOWER OVERALL ENERGY COSTS.

SPECIFICATIONS

- 4.50" OD X 2.9" ID X 12.00"L NOMINAL DIMS
- PEACH ADVANCED TECHNOLOGY DEPTH FILTER MADE USING POLYESTER PECO ENGINEERED MEDIA (PEM)
- POLYESTER OUTSIDE DRAINAGE LAYER
- EXPANDED METAL SUPPORT
- 304 STAINLESS STEEL TOP CAP CLOSED WITH SILICONE SEAL NUT
- POLYESTER BOTTOM CAP; OPEN W/ ELEMENT DRAINAGE SLEEVE AND VITON FLAT GASKET SEAL

OPERATING PARAMETERS

- MAXIMUM OPERATING TEMPERATURE 240°F / 115.6°C
- RECOMMENDED CHANGE-OUT DIFFERENTIAL PRESSURE 10-15 psid / .69-1.0 bar
- MAXIMUM ALLOWABLE DIFFERENTIAL PRESSURE OF CARTRIDGE 25 psid / 1.7 bar
 - DO NOT EXCEED MAXIMUM ALLOWABLE DIFFERENTIAL PRESSURE OF THE VESSELS ELEMENT SUPPORT PLATE.
- STANDARD FLOW DIRECTION: INSIDE TO OUTSIDE

PARTICLE RETENTION

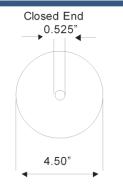
99.5% LIQUIDS AT 0.3 MICRON BASED ON CAGI ADF 400-1999

99.99% OF ALL SOLID PARTICLES 0.3 MICRON AND LARGER

PACKAGING

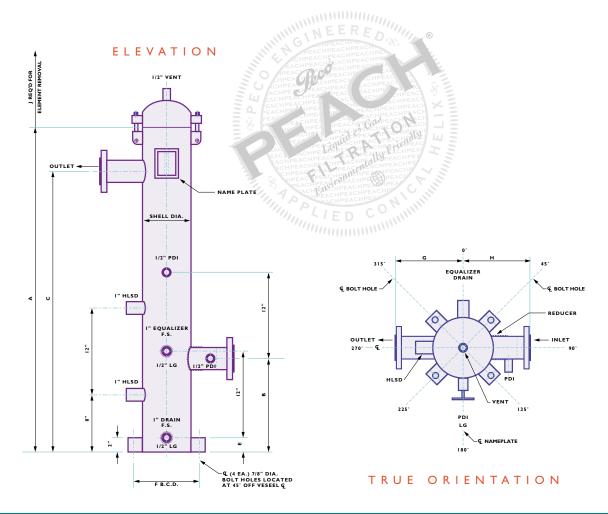
4 / BOX







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Nominal Dimensions in Inches / (mm)										
MODEL	SHELL DIA.	INLET OUTLET	A	В	с	E	F	G	н	J
89-1-312-6-275	6 5/8 (168) O.D.	2 (50)	45 (1143)	13 (330)	39 (991)	2 (50)	9 1/8 (232)	9 1/4 (235)	9 1/4 (235)	14 (356)
89-1-324-6-275	6 5/8 (168) O.D.	2 (50)	57 (1148)	13 (330)	51 (1295)	2 (50)	9 1/8 (232)	9 1/4 (235)	9 1/4 (235)	26 (660)
89-1-336-6-275	6 5/8 (168) O.D.	2 (50)	69 (1753)	13 (330)	63 (1600)	2 (50)	9 1/8 (232)	9 1/4 (235)	9 1/4 (235)	38 (965)
89-1-336-8-275	8 5/8 (219) O.D.	3 (76)	69 (1753)	13 (330)	63 (1600)	2 (50)	11 1/8 (283)	10 1/4 (260)	10 1/4 (260)	38 (965)

Vessels are designed and stamped in accordance with ASME pressure vessel code for 275 PSIG at 100° F without corrosion allowance.



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ISO 9001

PERRY EQUIPMENT CORPORATION

Series 89 Coalescing Filter

Coalescing

Efficiency at

Economic

Prices

Utilizing

PEACH® Gas

Coalescing

Filter

Elements

ENGINEERED FILTRATION TECHNOLOGIES

PECO SERIES 89 Coalescing Filter product line.

Quality and economy with the PEACH® advantage _____

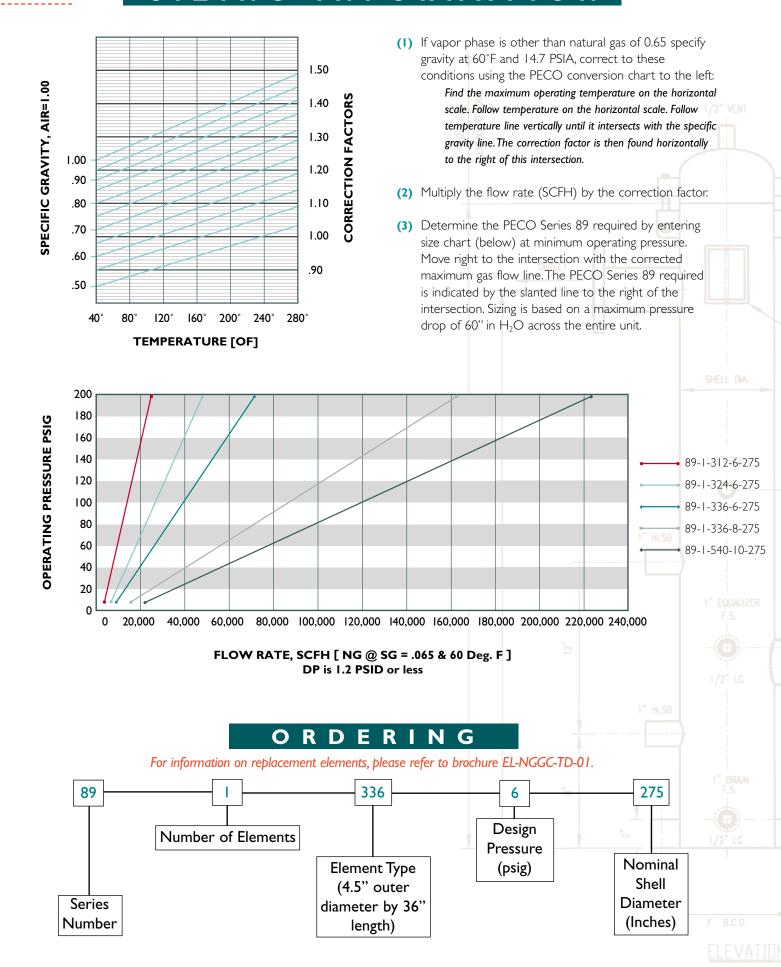
Series 89 Coalescing Filter, Economical Coalescing Utilizing the PEACH® Ultra-High Efficiency Coalescing Elements. Available from stock.

The Series 89 Coalescing Filter
Product line has been designed
to offer the greater solids &
liquids removal efficiencies
demanded by today's users,
at affordable prices. Utilizing
standard designs that meet
most customer requirements,
the Series 89 Coalescing Filter
is available from stock for quick
delivery. The Series 89

Coalescing Filter
uses Series NGGC
Coalescing Filter
Elements for
enhanced
performance
and dirt holding
capacities.



SIZING INFORMATION





PERRY EQUIPMENT CORPORATION

ISO 9001

Series NGGC

Liquid Aerosol Coalescing Elements

PECO introduces the next generation in PEACH®
Gas Coalescer Technology. The **Next Generation Gas Coalescer** features an advanced proprietary

media blend, an element support design, and a new proprietary end cap design. The result is a coalescer that can handle a wide variety of liquid loading conditions in air and gas applications.

Construction

Media/Outer Cage/End Caps Standard Optional
Polyester Polypropylene

Gaskets Viton

Operational Data

• Standard Flow Direction Inside-to-outside of element

Micron Ratings

Liquids: 0.3 micron and larger Solids: 0.3 micron and larger

Maximum Operating

Temperature 180° F / 82° C

Recommended

Element Change Out

Differential Pressure 10 - 15 psid

The NGGC features a user friendly Integral End Seal.

Elements are designed to fit PECO Vessel Series 77V. Competitive retrofits available.

PRODUCT ADVANTAGES

- Proprietary media blend for excellent performance.
- Element support cage provides strong structural strength.
- Top end cap, with integral seal, provides better sealing around center bolt.
- Top end cap, with integral seal, eliminates use of dimple washer and provides ease of use during element change-out.
- Proprietary bottom end cap distributes gas flow throughout the element to better utilize the entire element matrix.
- Proprietary bottom end cap provides an area of low velocity to facilitate liquid drainage.

DISPOSAL ADVANTAGES

- All synthetic construction*
- · Can be fully incinerated
- · Light weight
- * PECO housing models only



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elements@perryequipment.com

web site:

www.perryequipment.com

Please refer to www.perryequipment.com for most current literature edition.

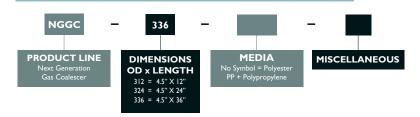
The Conical Helix

The **NGGC** utilizes patented PEACH® technology. It consists of several lateral sections of varying sizes. Each lateral section consists of multiple helical wrapped layers. As the spiral layers are applied they conform to the previous layer forming a cone—thus developing a conical helix.

Specification Data

Model	Length	OD	ID
NGGC - 312	12"	4.5"	2.95"
NGGC - 324	24"	4.5"	2.95"
NGGC - 336	36"	4.5"	2.95"

Nomenclature



^{*}Consult factory for retrofit dimensions & part nomenclature.

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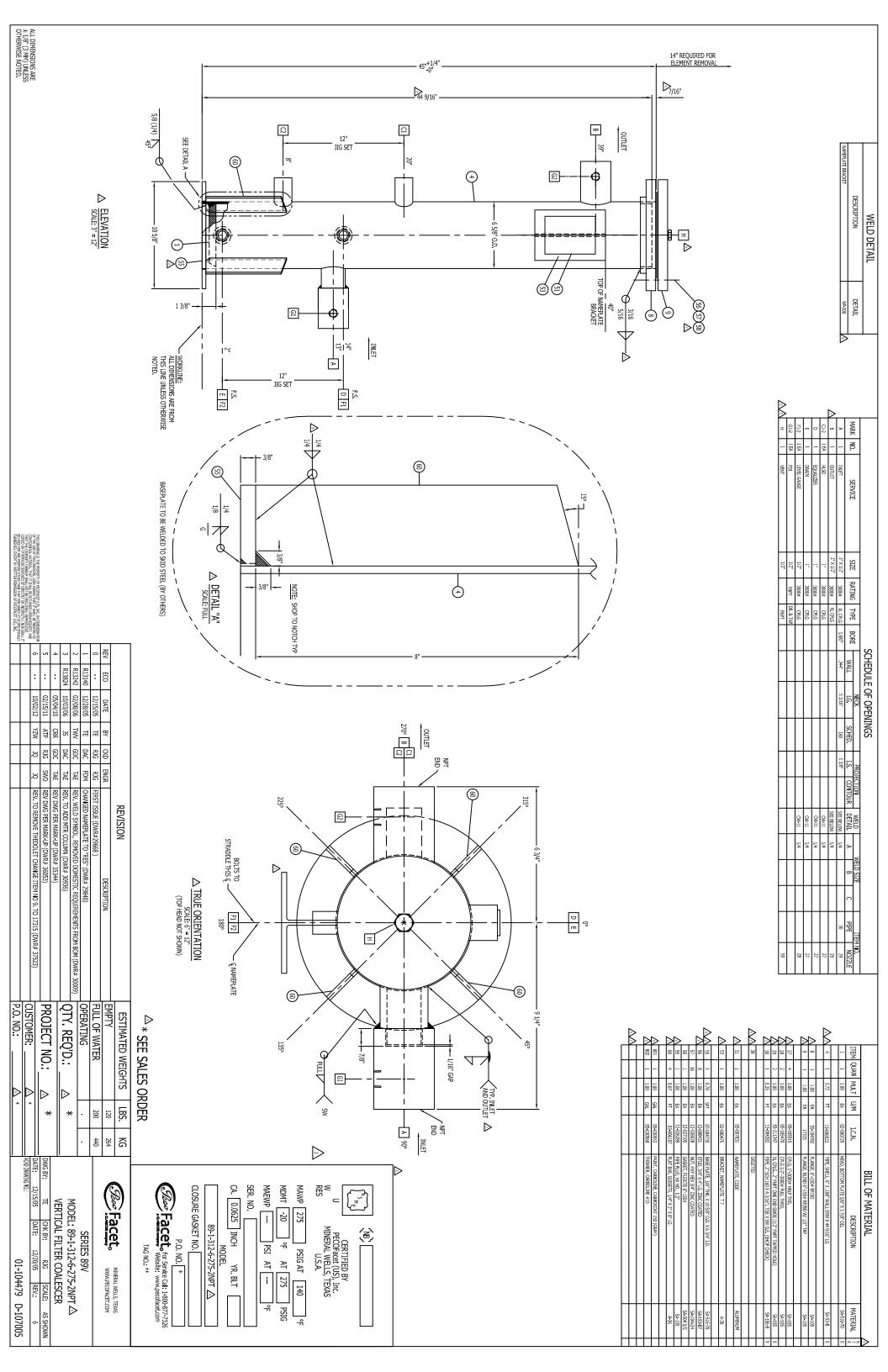
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180 Series Free Floating Lever Drain Traps

All Stainless Steel for Horizontal Installation

For pressures to 400 psig (28 bar) . . . Capacities to 2,000 lb/hr (907 kg/hr)

Armstrong's stainless steel, free floating lever drain traps use the same bodies, caps, lever mechanisms, valves and seats as Armstrong inverted bucket steam traps that have been proven in years of service. Elliptical floats and high leverage make it possible to open large orifices to provide adequate capacity for drain trap size and weight.

The hemispherical valve, seat and leverage of the 180-LD and 181-LD stainless steel traps are identical in design, materials and workmanship to those for saturated steam service up to 570 psig (39 bar), except that the 180 Series traps have a guidepost to ensure a positive, leak-tight valve closing under all conditions. The 180 Series is designed for situations where mounting a drainer close to the floor is critical. A back vent connection is required.

For a fully detailed certified drawing, refer to list below: 180-LD CD #1276

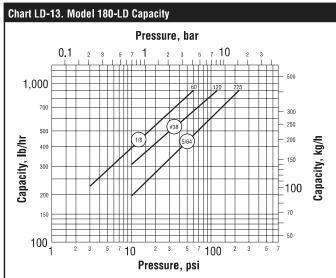


Table LD-19.						
Model No.	Valve & Seat	Leverage System	Float	Body & Cap		
180-LD 181-LD		Stainless Steel		Sealed Stainless Steel 304L		

Physical Data

Table LD-20. Armstrong 180 Series Free Floating Lever Drain Traps						
Model No.	180-L	.D	181-LD			
Pipe Connections	in	mm	in	mm		
Fipe Connections	1/2	15	3/4	20		
"A" (Diameter)	2-11/16	68	2-11/16	68		
"B" (Height)	6	152	7-1/4	184		
"C" (Face to Face)	4-5/16	110	4-5/16	110		
"D" (Bottom to C Inlet)	5-1/8	130	6-9/32	160		
"P"	1/2	15	3/4	20		
Weight, Ib (kg)	1-3/4 (0.8) 2-3/8 (1.1)			l.1)		
Max. Allowable Pressure (Vessel Design)	500 psig @ 100°F (35 bar @ 38°C) 440 psig @ 500°F (30 bar @ 260°C)					

Note: Vessel design pressure may exceed float collapse pressure in some cases. Pipe size of vent is same as that of inlet and oulet connections.





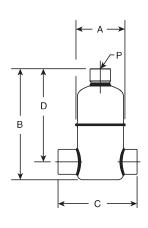


Figure LD-35. Model 180-LD

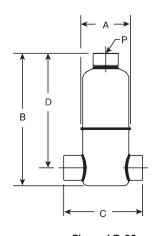
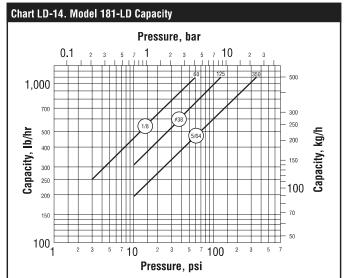


Figure LD-36. Model 181-LD



Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit armstronginternational.com for up-to-date information.