GENIE®
membrane separator
Model 210

U.S. Patent 5,476,586

Quick Study

The Series 200 Genie® Membrane Separators™ remove 100% of suspended, immiscible liquids in liquid hydrocarbon samples, which allows only hydrocarbon liquid sample to flow to an analyzer. This action protects against damage to analyzers and sample system components. The original Series 200 models can accommodate a wide variety of applications. The Supreme Series™ 200 models accommodate the same applications, yet they offer an improved housing design for easy maintenance.

The Model 210 protects liquid hydrocarbon systems from water, caustic, sulfuric acid or other immiscible liquids where the operating pressure does not exceed 450 psig. It also removes absorbed gases, gas bubbles, or volatile organic carbon (VOC) compounds from water sample at the same pressure rating. The Model 210 has 1.5 times the membrane cross sectional area of a Model 205, which more than doubles the flow rate capacity. It offers protection for applications such as Reid Vapor Pressure analyzers, X-ray absorption, and VOC spargers.

Applications

- Spot, composite, or continuous liquid sampling in any process industry especially petrochemical and oil refining
- Liquid process gas chromatographs
- Fourier Transform Infrared (FTIR)
- Near Infrared (NIR)
- Reid Vapor Pressure (RVP) analyzers
- Cloud point / freeze point
- Physical properties analyzers
- X-ray absorption
- X-ray fluorescence
- Knock Engines
- VOC spargers
- Degassing water samples
- Degassing spent sulfuric acid

Benefits

- Superior analyzer protection
- Helps preserve sample integrity
- Reduces analyzer maintenance
- Improves analyzer reliability

Features

- Genie® Membrane Technology™
- Low internal volume
- Simple design
- Optional G.U.T.S.™ seal

Technical Specifications

Maximum pressure rating	450 psig
Maximum recommended supply pressure	Lowest possible pressure consistent with application* *Must not exceed "Pressure rating" listed above
Maximum temperature	302 °F (150 °C)
Maximum recommended membrane flow rate (For higher flow rates contact the factory)	300 cc/min in Diesel* 400 cc/min in Kerosene* 900 cc/min in Gasoline* *Maximum flow results in approximately 10 psi membrane differential pressure
Port sizes	Inlet: 1/4" female NPT Outlet & Bypass: 1/8" female NPT
Internal volume	Inlet: 1.00 cubic inches Outlet: 0.23 cubic inches
Wetted materials	Machined parts : 316 stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Sealing material: Viton® standard Membrane: Inert

An ISO 9001:2008 certified company

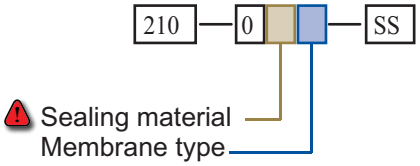
GENIE® sampling solutions

Model Numbering & Additional Part Numbers

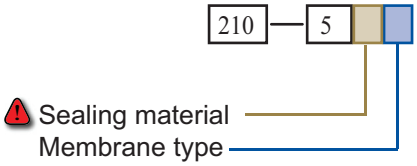
Your model number is determined by your specific needs. Choose options below.

Sealing material	0 = Viton®	1 = Kalrez®	T6 = G.U.T.S.™ & TEV *(other materials available upon request)*
Membrane type	3 = Liquid/Liquid membrane	8 = Liquid/Liquid Backed membrane	
Mounting bracket accessory	Part # 210-509-SS (sold separately)		

How to build the model number:



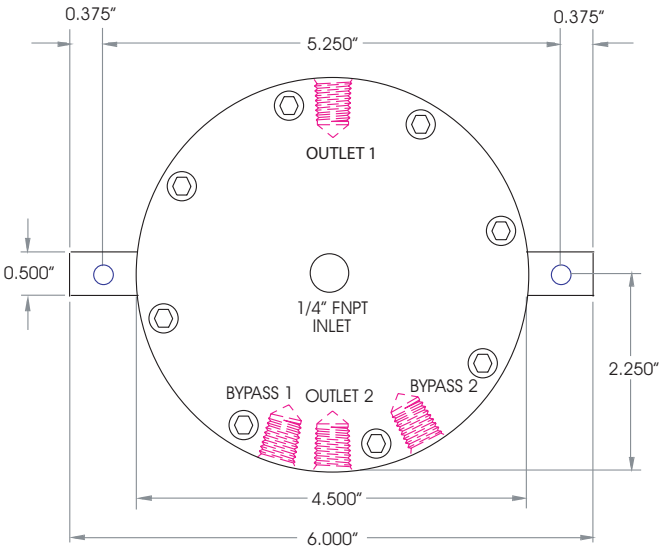
How to build the replacement membrane kit number:



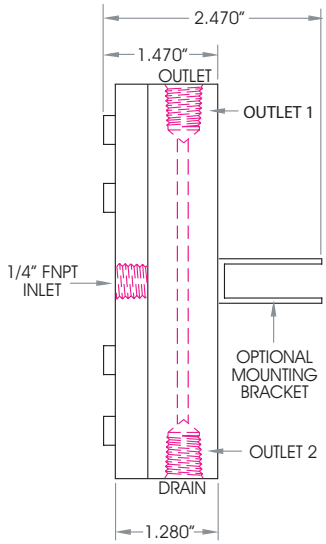
We cannot recommend specific sealing materials due to the complex nature of sample stream compositions. Temperature and pressure also may be factors. Unless specified otherwise, the product will ship with our standard sealing materials and materials of construction stated in the technical specifications section of the corresponding Product Sheet. Please refer to www.dupontelastomers.com for sealing material recommendations and advice. It is the user's responsibility to specify the sealing materials and other materials of construction for their application.

Dimensions

Front View



Side View



Local Distributor:

Manufacturer

A+ Corporation, LLC

41041 Black Bayou Road

Gonzales, LA 70737

Call for expert product application assistance:

Phone: (225)-644-5255 Website: www.geniefilters.com

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