

# GENIE Supreme™ Model 120



## Quick Study

**The Supreme Series™** utilizes the proven Genie® Membrane Technology™ to remove liquid and particulate from gas samples spanning a broad range of applications, thereby providing equipment with a safety-net against liquid damage. A revolutionary Liquid Block™ option provides a higher level of analyzer protection during upset conditions by limiting flow when high membrane differential pressure occurs and by valving off flow through the membrane in the presence of excessive differential pressure. The uniquely designed housing allows service without tools or disassembly of fittings. Supreme Series™ membrane separators are safe and easy to install and maintain, especially in heated, densely populated cabinets.

**The Model 120** is ideal for low flow applications and can withstand high pressure in the housing. It has the same membrane cross sectional area as the Genie® Model 101, but the Supreme Series™ design results in increased features, options, and pressure ratings. Additional information such as Price Sheets, FAQs, and Application Notes are available.

## Applications

- ▶ Spot, composite, or continuous gas sampling in any process industry including natural gas, petrochemical, and oil refining
- ▶ Analyzer protection against liquids
  - ▶ On-line and portable
  - ▶ GC's, Mass Specs, O<sub>2</sub>, H<sub>2</sub>S, Moisture, and others
- ▶ Gas sample conditioning

## Benefits

- ▶ Helps preserve sample integrity
- ▶ Superior analyzer protection
- ▶ Quick and easy to install and maintain
- ▶ Quick and easy membrane inspection
- ▶ Economical

## Features

- ▶ Genie® Membrane Technology™
- ▶ Liquid Block™ (optional)
- ▶ Extremely low internal volume
- ▶ Straight through bypass
- ▶ Built-in membrane retention
- ▶ Threaded housing cover
- ▶ All connection ports on the housing
- ▶ Back mounting

## Tech Specs

<b>Maximum allowable working pressure</b>	2,000 psig
<b>Maximum recommended supply pressure</b> (For more information see product FAQs)	Lowest possible pressure consistent with application* *Must not exceed "Pressure rating" listed above
<b>Maximum Liquid Block™ valve auto-reset pressure</b>	35 psig
<b>Maximum temperature</b>	185 °F for Type 5 & BTU membrane 300 °F for Hi-flow backed membrane
<b>Maximum recommended membrane flow rate</b> (For higher flow rates contact the factory)	1,440 cc/min for Type 5 & BTU membrane* 5,000 cc/min for Hi-flow Backed membrane* *Maximum flow results in approximately 2 psi membrane differential pressure
<b>Bypass flow rates</b>	Requirement varies with application
<b>Port sizes</b>	Inlet, Outlet, & Bypass: 1/8" female NPT
<b>Internal volume</b>	Total with Liquid Block: 2.4 cc Upstream of membrane: 1.3 cc Downstream of membrane: 1.1 cc Total without Liquid Block: 2.1 cc Upstream of membrane: 1.1 cc Downstream of membrane: 1.0 cc
<b>Wetted materials</b>	Machined parts : 316 stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant O-ring: Viton® (other materials available upon request) Membrane: inert

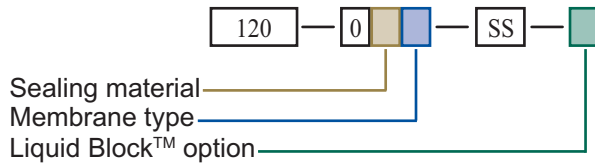


# Model Numbering & Additional Part Numbers

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

<b>Sealing material</b>	0 = Viton® (other materials available upon request)		
<b>Membrane type</b>	5 = Type 5	6 = BTU	7 = Hi-flow backed
<b>Liquid Block™</b>	0 = No Liquid Block™	LB = Liquid Block™	
<b>Mounting bracket accessory</b>	Part # = 120-509-SS (sold separately)		
<b>O-ring replacement</b>	Part # = 120-500 (sold separately)		

How to build the model number:

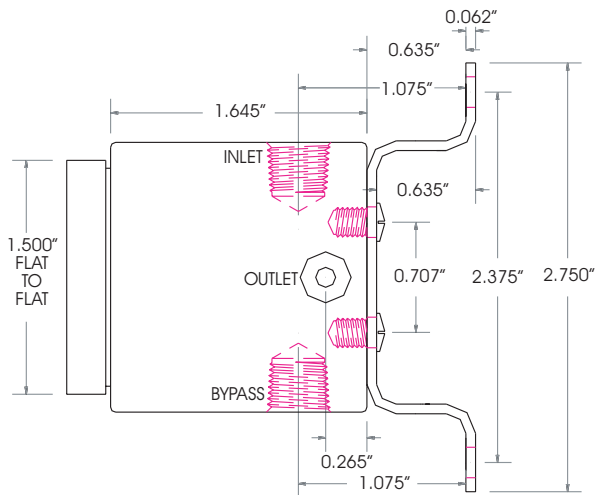


How to build the membrane kit number:  
(Five membranes per kit. O-rings sold separately)

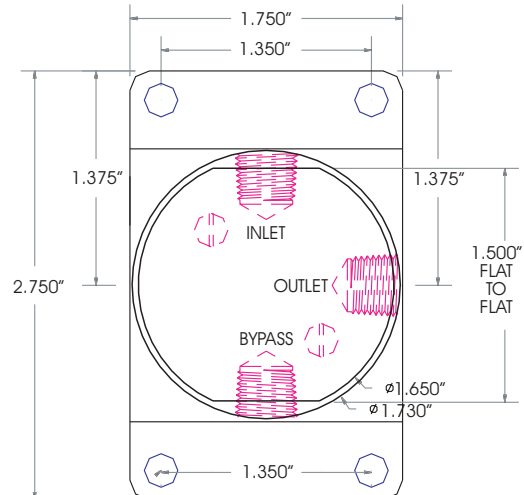


## Dimensions

Side View



Front View



### Local Distributor:



### Manufacturer

**A+ Corporation, LLC**

41041 Black Bayou Rd.

Gonzales, LA 70737

Call for expert product application assistance:

Phone: (225)-644-5255 Website: [www.geniefilters.com](http://www.geniefilters.com)

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