



# GENIE<sup>®</sup> 120

## Supreme Membrane Separator

## The original brand known for sample conditioning and analyzer protection!

The Supreme 100 Series™ remove 100% of entrained liquid and particulate in gas samples, which allow only gas sample to flow to analyzers. This action protects analyzers and other sampling components against liquid damage. The Genie<sup>®</sup> Supreme Series™ 100 models can accommodate a wide range of applications just as the original Genie<sup>®</sup> Series 100 Membrane Separators™, yet they offer an improved housing design for easy maintenance and the innovative Liquid Block Technology™ that prevents liquid from being forced across the membrane should sample line pressure conditions become upset. Genie<sup>®</sup> 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. This high pressure model has a 1" cross sectional membrane area, the same as the original Genie<sup>®</sup> Model 101, and it is ideal for the removal of relatively small amounts of liquid present on a continuous basis; it is also perfect for protecting gas chromatographs, mass spectrometers, O<sub>2</sub> analyzers, moisture analyzers, and other analyzers with relatively small flow requirements. Please note that special fittings may be ordered, such as a Universal Assembly™. Additional information such as FAQs is available.



### Product Brief

#### Applications

- Protection against liquids
  - On-line and portable analyzers
  - GC's, Mass Specs, O<sub>2</sub>, H<sub>2</sub>S, Moisture, and others
- Spot, composite, or continuous gas sampling in any process industry including natural gas, petrochemical, and oil refining
- 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<sup>®</sup> Membrane Technology™
- Liquid Block™ option
- Low internal volume
- Straight through Bypass
- Built-in membrane retention
- Threaded housing cover
- All connection ports on the housing
- Back mounting
- Universal Assembly™ option

### Technical Specifications

<b>Maximum pressure rating</b>	Stainless Steel: 2,000 psig Kynar: 350 psig 120UA: 100 psig (due to rotameter limitations)
<b>Maximum recommended supply pressure</b>	Lowest possible pressure consistent with application* *Must not exceed "Pressure rating" listed above
<b>Maximum Liquid Block<sup>®</sup> valve auto-reset pressure</b>	35 psig* *Slowly open the supply pressure so that the minimum differential pressure required to shut off the Liquid Block™ is not met or exceeded.
<b>Maximum temperature</b>	185 °F (85 °C) for Type 6/BTU membrane 212 °F (100 °C) for Hi-Flow/Hi-Flow Backed Membrane (Kynar Housing) 302 °F (150 °C) for Hi-Flow Backed membrane
<b>Maximum recommended membrane flow rate</b> (For higher flow rates contact the factory)	1 L/min for Type 6/BTU membrane* 4,000 cc/min for Hi-Flow 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: 1.3cc Downstream of membrane: 1.1cc Total without Liquid Block: 2.1cc Upstream of membrane: 1.1cc Downstream of membrane: 1.0cc
<b>Wetted materials</b>	Machined parts: 316/316L stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Sealing material: Fluoroelastomer standard Membrane: Inert



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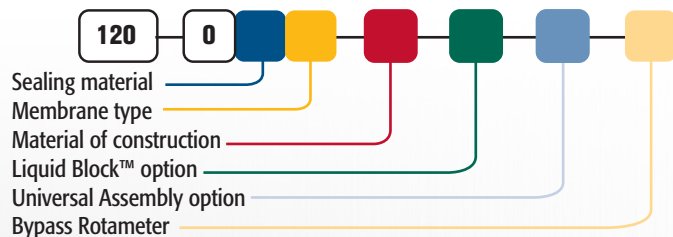
Analyzer Sampling Solutions > Moisture & Corrosion Control > Knowledgeware

## Model Numbering & Additional Part Numbers

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

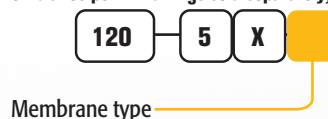
<b>Sealing material</b>	0 = fluoroelastomer	1 = perfluoroelastomer	(others available upon request)
<b>Membrane type</b>	6 = Type 6/BTU	7 = Hi-Flow Backed	
<b>Material of construction</b>	SS = Stainless Steel	K = Kynar	
<b>Liquid Block™ option</b>	Blank = No Liquid Block™	LB = Liquid Block™	(not available in Kynar)
<b>Universal Assembly option</b>	Blank = No Universal Assembly	U = Universal Assembly	
<b>Bypass Rotameter*</b> (only if option U is selected) *Dwyer Rotameter with Integral Valve	0 = Without Rotameter	1 = 10-100 cc/min*	2 = 100-1000 cc/min*
<b>Mounting bracket</b>	Part # 120-509-SS (sold separately)		
<b>O-ring replacement</b>	Part # 120-500 (sold separately)		

### How to build the model number:

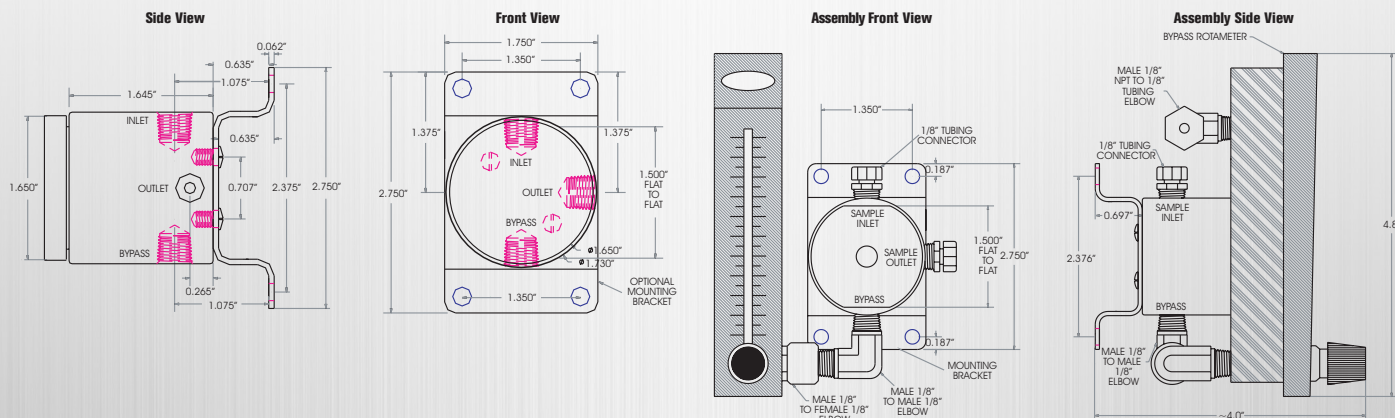


### How to build the replacement membrane kit number:

(Five membranes per kit. O-rings sold separately)



## Dimensions



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A+ Corporation is the leader in Analytically Correct™ Sample Extraction and Conditioning Systems.

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