



NL MODULE Filter Series

Compressed Air Systems and Services
Davidson, NC 28036

Date: 28-Aug-2014
Cancels: All Previous

STANDARD CONSTRUCTION

General

The NL module is a coalescing type, self-cleaning filter separator designed to remove oil and water aerosols from a compressed air system with a minimum of pressure drop.

The NL Module removes oil and water aerosols from the compressed air system down to 0.5 PPM by weight..

Coalescing filters are often rated in filtration efficiency by micron size. This measures the effectiveness in removing dirt, rust and scale from the air. The NL Module can be expected to remove 99.9% of all particles 0.1 micron and larger.

Filter Element

The element is a unique deep bed design made up of special glass fibers that are wrapped and layered between two carbon steel screens. This design provides a large filtration surface area resulting in high coalescing efficiency, very low pressure drop, and superior filtration even at low flow conditions.

Filter Tank

The filter is housed in a specially designed tank that facilitates both proper air filtration and drainage while maintaining a minimum of pressure drop.

Operation

As air flows through the filter, from inside to out, the oil and water aerosols coalesce forming a liquid film, which drains from the surface of the filter to the bottom of the tank where it is removed through the optional automatic drain valve. This continual coalescence and drainage provides sufficient self-cleaning of the element.

All NL modules are supplied with a filter maintenance indicator and safety relief valve.

The NL Module element is time proven to have a lifespan of over 10 years and a pressure drop of less than 0.5 PSI during normal operation.

MATERIALS OF CONSTRUCTION

Component	NLM 125 – 10000
Filter Housing Cover	ASTM SA105
Filter Housing Shell	ASTM SA414 Grade G
Filter Housing Head	ASTM SA 414 Grade G
Bolts	SAEJ 449 Grade 5
Nuts	SA 194, Grade 5
Surface Finish	Painted
Gasket	Pressed Fiber
Support Core	Steel
Element: Filter media	Fiberglass

Maximum recommended operating temperature: 125°F (Maximum allowable temperature 220°F). Efficiency decreases with increased temperatures. Maximum operating pressure: 150 PSIG. CRN is available for 125 to 6000 SCFM models when required. All models are ASME stamped. U1A forms are available.

Automatic Timed Drains available

250 PSIG Construction available (CRN not available)