

NL Module Coalescing Filters 210 - 17000 Nm³/h

Ingersoll Rand's NL Module high efficiency and coalescing filters provide compressed air with minimal pressure drop of 35mb for long-term cost savings. Superior air quality is achieved by effectively removing damaging oil and water aerosols before they flow through air system piping, process equipment and pneumatic valves and tools. These maintenance-free filters feature a high-quality design that extends element life up to 10 years and helps eliminate system downtime by reducing the effects of a catastrophic failure of the compressor's air/oil separator

Features

- Efficient Equipment Protection: High-efficiency and coalescing filters with particulate filtration to 0.5 ppm, > 3 microns at 100%, between 0.1 to 3 microns at 99.98% . Class 2: effective oil removal – 2 ppm in = 0.01 ppm out – 10 ppm in = 0.05 ppm out
- Lower Energy Use: Low pressure drop (around 35mb compare to conventional filters average of 448mb) design saves on energy costs and provides an economical drying solution for your compressed air needs
- Application Versatility: Effective on all common mineral and synthetic lubricants
- Class 2: effective oil removal – 2 ppm in = 0.01 ppm out – 10 ppm in = 0.05 ppm out
- Maximize Uptime: Enhanced process security that reduces the effects of catastrophic air/oil separator failures
- Extend Equipment Life: High-quality, maintenance-free filters extend element life up to 10 years
- Real Savings: Near Zero pressure drop and low-maintenance resulting in low energy costs



HOW IT WORKS

Air contaminated with mineral or synthetic lubricant and water aerosols enters the NL Module housing...

- 1 - Air flows horizontally through a deep filter bed
- 2 - Sub-micron particles collect on individual bed fibers and coalesce to form droplets
- 3 - As the droplets move through the filter bed, they become larger and their resulting weight forces them to drop to the bottom of the housing
- 4 - Low internal velocity prevents oil re-entrainment, while the large surface area keeps the pressure drop very low over the life of the element. The long residence time through the deep filter bed ensures the highest coalescing efficiency. Automatic or manual drains can be used to discharge lubricant and water that accumulate in the bottom of the housing
- 5 - Compressed air and drain hookups are all that's required to integrate an NL Module into your compressed air system — no electricity is used. No loss drains are included with each model.

Model Specifications

Model	Filter Model number (EMEIA) (CCN)	Flow capacity (Nm ³ /h)	Flow capacity (m ³ /min)	Connection Size (A), (B) (in)	Drain Port (C) (in)	Weight (kg)	Dimension (D) (mm)	Dimension (E) (mm)	Dimension (F) (mm)	Dimension (G) (mm)	Dimension (H) (mm)	Dimension Volume (l)
F210INLM	17933082	210	3.5	2" BSPP	1" BSPP	205	353	370	1075	330	180	57
F430INLM	17933083	430	7.2	2" BSPP	1" BSPP	205	353	370	1075	330	180	57
F850INLM	17933084	850	14.2	DN 80 PN16	1" BSPP	234	353	367	1736	330	180	114
F1360INLM	17933085	1360	22.7	DN 80 PN16	1" BSPP	239	353	367	1736	330	180	114
F1870INLM	17933087	1870	31.2	DN 80 PN16	1" BSPP	297	397	394	1837	355	185	160
F2550INLM	17933088	2550	42.5	DN 100 PN16	1" BSPP	349	448	394	1840	381	190	205
F3220INLM	17933089	3220	53.7	DN 100 PN16	1" BSPP	551	601	434	1924	457	210	380
F4070INLM	17933090	4070	67.8	DN 100 PN16	1" BSPP	560	601	434	1924	457	210	380



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