

Shanghai Dynamic Industry Co.,Ltd.

LN Series Compressor Air Filters

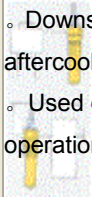
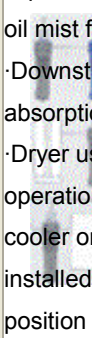
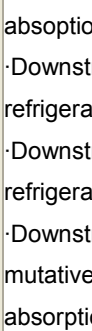
Using a coalescing filter element installed in a housing the wet gas passes through element inside to outside. The fine fibres of the inner element capture the fine liquid aerosols and droplets and they run together along the fibres to form large drops within the depth of the element. These large drops are then forced to the outside of the filter element and then drain to the bowl of the housing by gravity. The filter element will also remove particulates at the same efficiency.

Features:

- Extension current route to slow pressure drop
- High grade aluminium-silicon and carbon-steel cartridge
- Painted surface with epoxy resin for wear resistance and corrosion resistance
- Screw threads structure at inlet and outlet for easy installation with air flow indication on the cartridge
- Compact design for flexible troubleshooting
- Update pressure indicator to secure element replacement
- Level indicator to monitor critical level for downstream pollution prevention
- Reliable automatic drain.



Guide of Application

Filter type	Specification	(CAGL,PNEUROP&ISO)Performance(Data)	Operation spot
LN35 Separator/filter	Mechanical separator and 3µm coalescing filter eliminate ·most of liquid ·big solid particles	Elimination: For solid or liquid particles with dimensions larger than 3µm. Residual oil content:5ppm w/w The ISO 8573.1 quality classes:Dirt:3 Oil:5Maximum liquid load in intake:20,000ppm w/w	 <ul style="list-style-type: none"> · Downstream position of aftercooler · Used directly in operation spot
LN24 Main pipeline filter	1µm Coalescing filter for equipment of air-support pipeline ·tools ·motors ·air crocks	Elimination:For solid or liquid particles with dimensions larger than 1µm. Residual oil content:1ppm w/w The ISO8573.1 quality classes:Dirt:2 oil:4Maximum liquid load in intake :1,000ppm w/w	 <ul style="list-style-type: none"> ·Upstream position of fine oil mist filter ·Downstream position of absorption dryer ·Dryer used directly in operation spot while cooler or separator is installed on upstream position
LN12 High efficient filter for eliminating oil	Refined coalescing filter for supplying oil-free gas in industrial manufacture ·spray-paint ·blow-plastic ·apparatus	Elimination:For solid or liquid particles with dimension larger than 0.01µm. Oil mist:above99.99% Residual oil content:0.01ppm w/w The ISO8573.1 quality classes:Dirt:1 oil:2Maximum liquid load in intake :60ppm w/w	 <ul style="list-style-type: none"> ·Upstream position of absorption dryer ·Downstream position of refrigerated dryer ·Downstream position of refrigerated dryer ·Downstream position of mutative pressure absorption dryer to

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			eliminate fine particles ·In operation spot
LN11 hyper efficient filter for eliminating oil	hyper refined coalescing filter for supplying oil-free gas in pivotal spot where gas will get in touch with products ·trans mission ·agitation ·electron element ·azote replaced	Elimination:For solid or lisuid particles with dimension larger than 0.01µm. Oil mist:above99.999% Residual oil content:0.001ppm w/w The ISO8573.1 quality classes:Dirt:1 oil:1Maximum liquid load in intake :40ppm w/w	·Upstream position of absorption dryer,install a filter of grade T as a preposive filter if there is a large liquid load ·Downstream position of cooler dryer
LN00 filter for eliminating oil and odour	Actived carbn absorption filter for supplying odour-free gas ·food ·medical ·breath ·air process device	Elimination:oil vapour;Residual oil content:0.003ppm w/w(oil vapour)For solid or lisuid patricles with dimension larger than 0.01µm. The ISO8573.1 quality classes:Dirt:1 oil:1	·Downstream position of hyper efficient fine oil mist filter

Quality of the air/pressure drop chart

filter Grade	Minimal solid particle size	Residual oil content ppm (mg/m3)	Pressure drop under Rated condition[bar]	
	µm		dry	moist
LN35	3	5	0.07	0.11
LN24	1	1	0.07	0.14
LN12	0.01	0.01	0.07	0.21
LN11	0.01	0.001	0.14	0.42
LN00	0.01	0.001	0.07	0.42



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Specification:

Filter Model	Flow rate NM3/min	Pipe connections	Element Model	Quantity of elements	Dimensions(mm)				Appearance
					A	B	C	D	
LN*-1/1	1	1/2"	E*-16	1	104	217	243		chart1
LN*-2/1	1.72	1"	E*-20	1	104	287	313		
LN*-3/1	2.9	1-1/2"	E*-24	1	138	385	424		
LN*-5/1	4.9	1-1/2"	E*-28	1	138	385	424		
LN*-7/1	7.2	1-1/2"	E*-32	1	138	385	424		
LN*-10/1	10.7	2"	E*-36	1	148	639	685		chart2
LN*-14/1	14	2"	E*-40	1	148	639	685		
LN*-18/1	17.7	DN65	E*-44	1	300	770	940	125	chart3
LN*-22/1	22	DN80	E*-48	1	336	940	1118	150	
LN*-36/1	36	DN100	E*-44	2	500	950	1150	250	
LN*-54/1	54	DN100	E*-44	3	500	950	1150	250	
LN*-72/1	72	DN100	E*-44	4	600	990	1250	350	
LN*-90/1	90	DN125	E*-44	5	600	990	1250	350	
LN*-108/1	108	DN125	E*-44	6	600	1070	1350	350	
LN*-126/1	126	DN150	E*-44	7	630	1020	1350	400	
LN*-144/1	144	DN150	E*-44	8	700	1020	1350	450	
LN*-162/1	162	DN200	E*-44	9	780	1070	1400	500	
LN*-180/1	180	DN200	E*-44	10	780	1070	1400	500	
LN*-200/1	198	DN200	E*-44	11	780	1070	1400	550	
LN*-250/1	252	DN200	E*-44	14	780	1130	1460	550	

Note: *filtration rating

Correctional parameter of operation pressure

Please make velocity of flow listed in above sheet multiply correctional parameter which corresponds to the minimum pressure of filter's inlet when pressure is not 7 bar. And make sure not to choose filter according to dimensions of pipe connection but velocity of flow and operation pressure.

inlet pressure(bar)	2	3	4	5	6	7	8	9	10	12	14	16	18	20	21
correctional parameter	0.38	0.50	0.62	0.75	0.87	1.00	1.12	1.24	1.37	1.62	1.86	2.11	2.36	2.61	2.73

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