

# Evolution™

## Refrigerated Air Dryers and Filters

Clean and dry compressed air is important in applications where moisture or contamination can cause system corrosion, damage to pneumatic tools or degradation of products or processes that come in contact with compressed air. When you choose **Evolution™**, you have selected air dryer rated highly for its performance.

Evolution™ refrigerated air dryer provides clean and dry air for a wide range of applications including :

Evolution™ refrigerated air dryer offers multiple design features to ensure consistent dew point at all load levels and delivers continuous dry air that satisfies ISO 8573 industry standards.



Automotive



Textile



Rice Sorting



Workshops



- High performance 3-in-1 corrosion resistant heat exchanger
- Anti-freezing / energy savings mode for efficient functioning of dryer
- Low pressure drop design
- Variable speed fan for stable dew point control (upto ND280-IN)
- Full feature controls permits precise control in varying conditions
- Remote connectivity / alarm / display / alarm history
- Self diagnostic software, anticipates possible faults option
- Control panel operated drain valve
- Environment friendly refrigerant

*Integrating Evolution™ refrigerated air dryer with air filter provides you clean air by removing suspended particles down to 0.01\* micron including coalesced liquid water and oil.*

\* With Grade 'H' filter



**Grade G (Prefilter)  
General Purpose Protection**

Particle removal down to 1 micron including coalesced liquid water and oil, providing a maximum remaining oil aerosol content of 0.5 mg / m<sup>3</sup>.

**Grade H (Afterfilter)  
High Efficiency Oil Removal Filtration**

Particle removal down to 0.01 micron including water & oil aerosols, providing a maximum remaining oil aerosol content of 0.01mg / m<sup>3</sup>.

**Air Filter Specifications:**

Filter Grade	Flow rate@100 psig	Pipe Size	Weight
G, H,	CFM (FAD)	BSPT	kg
NF0020 P/A	20	3/8"	0.6
NF0040 P/A	41	1/2"	0.6
NF0065 P/A	64	3/4"	0.7
NF0105 P/A	106	3/4"	0.7
NF0120 P/A	120	1"	1.1
NF0175 P/A	176	1"	1.2
NF0255 P/A	254	1½"	1.3
NF0370 P/A	370	1½"	1.4
NF0450 P/A	450	2"	3.7
NF0580 P/A	582	2"	3.8
NF0670 P/A	671	2½"	4.8

P - Prefilter (Grade G), A - Afterfilter (Grade H)

**Operating Conditions**

Maximum Operating Pressure 250 psig (17 bar)  
Maximum Recommended Operating Temperature (Grade G, H,) 150°F (66°C)  
Minimum Recommended Operating Temperature 34°F (1°C)

**Evolution™ Air Dryer Specifications:**

Model	Flow Rate	Air Connection	Power Supply	Weight
	CFM (FAD)	in / out (inch) BSPT	V / Ph / HZ	kg
ND42 -IN	42	1/2	230/1/50	26
ND85-IN	85	3/4	230/1/50	34
ND105-IN	106	3/4	230/1/50	43
ND140 -IN	141	1½	230/1/50	76
ND180-IN	177	1½	230/1/50	87
ND210-IN	212	1½	230/1/50	87
ND280-IN	282	1½	230/1/50	110
ND355-IN	353	2	230/1/50	120
ND460-IN*	459	2	400/3/50	130
ND560-IN*	559	2	400/3/50	150

Above values are nominal and are at Ingersoll Rand standard conditions. Correction factors apply for actual operating conditions

- \* ND460IN-A and ND560IN-A are rated for 12 barg
- Refrigerant Gas R134a for Model upto ND280IN-A and R404a from ND355IN-A to ND560IN-A
- Maximum Working Pressure 14 barg
- Maximum ambient temperature 50°C



Evolution™ is a brand of Ingersoll Rand. Ingersoll Rand (NYSE:IR) advances the quality of life by creating and sustaining safe, comfortable and efficient environments. Our people and our family of brands work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; secure homes and commercial properties; and increase industrial productivity and efficiency. We are a \$14 billion global business committed to a world of sustainable progress and enduring results.

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