

Evolution™

Rotary Screw Air Compressors
Productivity. Efficiency. Affordability.



No matter what industry or critical application, you can count on Evolution to offer solutions that mitigate risk and ensure delivery of the pure air.



- Textile Industries
- Food & Process Industries
- Automobile Industry
- Iron & Metal Industry
- Paint/Colour Industry
- General Manufacturing and more...

Evolution™

Rotary Screw Air Compressors

Price is what you pay. Value is what you get.

– Warren Buffett
(American business magnate, investor and philanthropist)

Evolution, true value for money!

Evolution™, a brand of Ingersoll Rand, comes with a commitment to stand behind the customers in all aspects of what it does. We bring peace of mind that allows our customers to focus on their primary objective: moving their businesses forward. Thus, it continues to advance in compressed air technology and Services to maximize reliability, efficiency and productivity for our customers.

For affordable and reliable air supply...

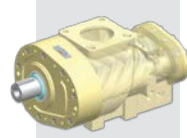


Evolution™

Evolution, for easy and reliable air supply

Evolution™ rotary screw air compressors are designed to provide ease of operation, low maintenance and reliable air supply. When you choose Evolution, you have selected the compressor rated highly for its performance and reliability.

Features



Value for Money

Designed with advanced technology to produce more volume of air, makes it a cost effective solution.



Long Life Synthetic Ultra Coolant

Biodegradable synthetic ultra coolant with 8,000 hours long life help you to reduce maintenance cost and increase productivity.



Advanced Cooling

Optimally designed blower reduces power cost by eliminating the need for extra fan motor and provides efficient cooling in 46°C ambient environment.



Evolution 4 – 11 kW



Evolution 15 – 37 kW



One Stop Solution

Complete solution for compressor and accessories including air receivers, air dryers and air filters.



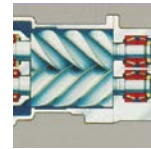
Ease of Serviceability

All key maintenance components have been grouped to provide ease of serviceability.



Xe-Series Controller

High-tech Xe-Series controller, satisfies all-around requirements from our customers. Increases efficiency and stabilizes pressure by sequencing upto 4 Xe-controlled compressors without additional hardware.



Rotary Technology

Installed with progressive rotary technology which delivers more CFM/kW and provides higher efficiency than reciprocating compressors.



Dual-Control Operation

Reliable and effective load/no-load control with automatic stop and restart facility for maximum flexibility.



Power Saving Control

Automatic stop and restart facility for maximum flexibility in operating machine.



Quiet Operation

Integrated construction with less number of fasteners benefits you to reduce noise in workshop.



Efficient Inlet Filter

Efficient inlet air filter to ensure compressed air does not carry more than 3 micron particles. This helps to increase dust holding capacity as well as filter life.



Quick service support

We offer a wide network of certified and well trained technicians and engineers capable of supporting you with cost effective service solutions to keep your compressed air system at peak performance.

2.2 – 11 kW Rotary Screw Air Compressors

Model	Power	Capacity	Pressure in psig		Dimension in mm			Weight	Tank
	kW	cfm	rated	max.	length	width	height	kg	litre
N2-7-200	2.2	9.5	100	110	1403	560	1134	174	200
N2-10-200	2.2	8.5	145	152	1403	560	1134	174	200
N4-7-200	4	21.4	100	110	1403	560	1134	183	200
N4-10-200	4	16.5	145	152	1403	560	1134	183	200
N5-7-200 SD	5.5	27	100	110	1403	560	1134	188	200
N5-10-200 SD	5.5	22	145	152	1403	560	1134	188	200
N2-7-200-D	2.2	9.5	100	110	1403	560	1134	218	200
N2-10-200-D	2.2	8.5	145	152	1403	560	1134	218	200
N4-7-200-D	4	21.4	100	110	1403	560	1134	227	200
N4-10-200-D	4	16.5	145	152	1403	560	1134	227	200
N5-7-200 SD-D	5.5	27	100	110	1403	560	1134	250	200
N5-10-200 SD-D	5.5	22	145	152	1403	560	1134	250	200
N7-7	7	37.4	95	102	850	790	810	280	-
N7-8	7	35.3	109	116	850	790	810	280	-
N7-10	7	30	138	145	850	790	810	280	-
N11-7	11	54.4	95	102	850	790	810	280	-
N11-8	11	51.2	109	116	850	790	810	280	-
N11-10	11	44.1	138	145	850	790	810	280	-
N7-7-272	7	37.4	95	102	850	1470	1550	450	272
N7-8-272	7	35.3	109	116	850	1470	1550	450	272
N7-10-272	7	30	138	145	850	1470	1550	450	272
N11-7-272	11	54.4	95	102	850	1470	1550	450	272
N11-8-272	11	51.2	109	116	850	1470	1550	450	272
N11-10-272	11	44.1	138	145	850	1470	1550	450	272

Additional Features Pressure Regulator Switch Integrated Compact System

15 – 37 kW Rotary Screw Air Compressors

Model	Power	Capacity	Pressure in psig		Dimension in mm			Weight
	kW	cfm	rated	max.	length	width	height	kg
N15 7	15	95	100	110	1245	1150	1150	470
N15 8	15	89.5	115	125	1245	1150	1150	470
N15 10	15	82	135	145	1245	1150	1150	470
N18 7	18.5	112	100	110	1245	1150	1150	490
N18 8	18.5	106	115	125	1245	1150	1150	490
N18 10	18.5	98	135	145	1245	1150	1150	490
N22 7	22	133	100	110	1245	1150	1150	500
N22 8	22	127	115	125	1245	1150	1150	500
N22 10	22	118.5	135	145	1245	1150	1150	500
N30 7X	30	172	100	110	1412	1325	1205	710
N30 8X	30	165	115	125	1412	1325	1205	710
N30 10X	30	156	135	145	1412	1325	1205	710
N30 7	30	190	100	110	1412	1325	1205	720
N30 8	30	178	115	125	1412	1325	1205	720
N30 10	30	165.5	135	145	1412	1325	1205	720
N37 7	37	226	100	110	1412	1325	1205	735
N37 8	37	215	115	125	1412	1325	1205	735
N37 10	37	201	135	145	1412	1325	1205	735

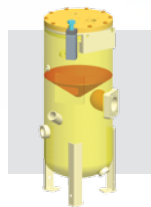
Conversion Details : 1 cfm = 0.02831 m³/min · 1 psi = 0.07031 kg/cm² · 1 m³ = 1000 litres · 1 hp = 0.746 kW
FAD (Free Air Delivery) Tested per ISO 1217 : 2009 Annex C

Evolution™



Evolution 45 – 75 kW

Additional Features



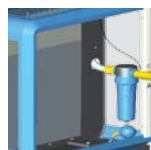
Three Stage Separation (Air/Oil)

– Three stage air/oil separation system ensures minimum oil carry over at discharge point. Integrating with moisture separator safeguards moisture free air.



Value for Money

Designed with advanced technology to deliver more volume of air, makes it effective solution.



Compartment for Effective Cooling

– Specifically designed extended compartment for effective cooling. It helps to keep overall compressor package temperature at minimum level.



Designed for Trouble Free Maintenance

– Evolution is designed for Indian tropical conditions at 46°C. All major components are designed and assembled to provide ease of access and serviceability.

45 – 75 kW Rotary Screw Air Compressors

Model	Power kW	Capacity cfm	Pressure in psig		Dimension in meter			Weight kg
			rated	max.	length	width	height	
N45 7	45	275	100	110	2.05	1.14	1.2	950
N45 8	45	260	115	125	2.05	1.14	1.2	950
N45 10	45	240	135	145	2.05	1.14	1.2	950
N55 7	55	360	100	110	2.65	1.32	1.43	1450
N55 8	55	333	115	125	2.65	1.32	1.43	1450
N55 10	55	303	135	145	2.65	1.32	1.43	1450
N75 7	75	520	100	110	2.65	1.32	1.43	1640
N75 8	75	475	115	125	2.65	1.32	1.43	1640
N75 10	75	435	135	145	2.65	1.32	1.43	1640

Conversion Details : 1 cfm = 0.02831 m³/min · 1 psi = 0.07031 kg/cm² · 1 m³ = 1000 litres · 1 hp = 0.746 kW
FAD (Free Air Delivery) Tested per ISO 1217 : 2009 Annex C

Evolution Refrigerated Air Dryers

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



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	½	230/1/50	26
ND85-IN	85	¾	230/1/50	34
ND105-IN	106	¾	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
ND355IN-i	353	1½	230/1/50	145
ND460IN-i	459	1½	230/1/50	150
ND560IN-i	559	2	230/1/50	162
ND760IN-i	765	ANSI 3", #150 LBS	415/3/50	245
ND830IN-i	829	ANSI 3", #150 LBS	415/3/50	259
ND1110IN-i	1112	ANSI 3", #150 LBS	415/3/50	315
ND1480IN-i	1482	ANSI 4", #150 LBS	415/3/50	345
ND1765IN-i	1764	ANSI 5", #150 LBS	415/3/50	487
ND2470IN-i	2470	ANSI 5", #150 LBS	415/3/50	579
ND2820IN-i	2823	ANSI 6", #150 LBS	415/3/50	622
ND3175IN-i	3176	ANSI 6", #150 LBS	415/3/50	635

- First of its kind - 3 in 1 Cross flow compact high efficiency aluminum plate & fin type of heat exchanger with improved pre-cooling.
- Anti-freezing/energy saving mode for efficient functioning of dryer
- Low pressure drop design
- Variable speed fan for stable dew point control (upto ND280-IN)
- No Loss Drain valve as standard feature starting from ND760IN-i
- 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

Refrigerant Gas R134a for Model upto ND280-IN and R407c for bigger models
Maximum Working Pressure 14 barg
Maximum ambient temperature 50°C

Evolution Filters

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 0.1 mg / m³.

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 / m³.

Operating Conditions

Maximum Operating Pressure 232 psig (16 bar)
Maximum Recommended Operating Temperature (Grade G, H) 176°F (80°C)
Minimum Recommended Operating Temperature 34°F (1°C)

Air Filter Specifications

Filter Grade	Flow rate@100 psig	Pipe Size	Weight
	cfm (FAD)	BSPT	kg
G, H, NF0020	20	⅜	0.6
NF0040	41	½	0.6
NF0065	64	¾	0.7
NF0105	106	¾	0.7
NF0120	120	1	1.1
NF0175	176	1	1.2
NF0255	254	1 ½	1.3
NF0370	370	1 ½	1.4
NF0450	450	2	3.7
NF0580	582	2	3.8
NF0670	671	2 ½	4.8

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



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