

Robust AirTM



AIR FILTERS





INTRODUCTION

Since its establishment in 2012, Robust Air has been a prominent supplier of air and gas solutions throughout India. Specializing in turnkey supply of Air and Gas equipment, we are committed to engineering excellence and customer satisfaction. Our expertise lies in designing and implementing on-site systems for the continuous supply of high-purity gases and compressed air.

At Robust Air, quality is our top priority. We meticulously select the finest quality components for our products, ensuring superior performance and reliability. Leveraging our manufacturing facilities in India, we offer cost-effective solutions without compromising on quality.

Trusted by reputed companies nationwide, Robust Air has earned a reputation for reliability and innovation in the industry. Our focus on customer satisfaction and our track record of delivering innovative solutions have contributed to our success.

Moving forward, we remain dedicated to innovation and excellence, continuously striving to meet the evolving needs of our customers. With our unwavering commitment to quality and customer satisfaction, Robust Air is poised to maintain its position as a leader in the air and gas solutions industry.

Robust AirTM

COMPRESSED AIR FILTERS

FEATURES AND ADVANTAGES

- **Premium Construction:** Utilizing imported advanced filter materials and stainless steel support nets, our filters achieve an impressive particles filtering performance of up to 99.99%, ensuring unparalleled purity and minimal wet pressure differentials of 0.17 - 0.25 bar, thereby preventing secondary pollution and optimising system efficiency.
- **Space-Efficient Design:** Featuring a parallel housing design, our filters minimize installation and maintenance space requirements, optimizing efficiency and convenience.
- **Enhanced Durability:** Prior to cleaning, degreasing, and anti-corrosion treatment, all housings undergo a meticulous painting process, enhancing durability and making them suitable for operations in ocean platforms.
- **Thread Processing Technology:** Our filters incorporate sophisticated thread processing technology, facilitating easier installation and maintenance for users, ensuring hassle-free operation.
- **Rigorous Testing:** Filter housings are subjected to rigorous testing, withstanding pressures of up to 3.2 Mpa for 96 hours and boasting a maximum burst pressure of 10.5 Mpa, ensuring durability and reliability under demanding conditions.
- **Operating Conditions:** Designed to operate under temperatures ranging from 1.5 to 80°C, with a maximum pressure of 1.6 Mpa, our filter housings offer long-term reliability and performance.
- **Extended Service Life:** With a service life of up to 15 years, our filter housings provide lasting durability and reliability. Filter elements of PF, AO, AA, AX, AR, AAR grade can be utilized for 6000-8000 hours, while ACS grade filter elements require replacement upon detection of oil mist, ensuring optimal performance over time.



Robust Air

Product Selection Table

Model	Connection	Flow Rate		Dimensions (in mm)		
		m ³ / min	cfm	Width (W)	Depth (D)	Height (H)
RYD - B017	RC 1/2"	1.0	35.3	89	79	239
RYD - B025	RC 3/4"	1.5	53.0	89	79	239
RYD - B030	RC 1/2"	1.8	63.6	89	79	273
RYD - B035	RC 3/4"	2.0	70.6	89	79	273
RYD - B058	RC 3/4"	2.8	98.9	120	110	349
RYD - B068	RC 1"	3.6	127.1	120	110	369
RYD - B080	RC 1"	4.8	169.5	120	110	468
RYD - B145	RC 1-1/2"	7.2	254.2	120	110	468
RYD - B220	RC 2"	12.0	423.7	162	151	593
RYD - B260	RC 2-1/2"	14.0	494.4	162	151	593
RYD - B330	RC 2"	16.0	564.8	162	151	873
RYD - B360	RC 2-1/2"	19.0	670.7	162	151	873
RYD - B405	RC 2-1/2"	22.0	776.6	200	189	637
RYD - B430	RC 3"	28.0	988.4	200	189	637
RYD - B620	RC 3"	37.2	1313.6	200	189	892
Technical Requirements		Max Operating Pressure : 16 bar Minimum - Maximum Operating Temperature : 1.5 °C - 80°C				

Pressure (bar)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction Factor	0.38	0.53	0.65	0.76	0.85	0.93	1	1.07	1.13	1.19	1.23	1.31	1.36	1.41	1.46	1.51

RYD Series Filter Element: Precision and Performance



PF	AO	AA	AX	ACS	AR	AAR
Primary filter efficiently removes particles larger than 5µm, with minimal residual oil content, ensuring superior cleanliness and system performance.	Filtration system effectively removes dust particles, water mist, and oil mist with diameters exceeding 1µm. It ensures minimal residual oil mist content, not exceeding 0.6 mg/m3 (21°C) or 1 ppm(w), guaranteeing superior air quality and protection.	Filtration system excels at removing oil mist, dust particles, and water mist with diameters larger than 0.01µm. It ensures exceptional efficiency with minimal residual oil mist content, not exceeding 0.01 mg/m3 (21°C) or 0.01 ppm(w), ensuring superior air quality and performance.	Filtration system provides ultra-efficient removal of dust particles, water mist, and oil mist with diameters exceeding 0.01 µm. With remarkable precision, it ensures minimal residual oil mist content, not exceeding 0.001 mg/m3 (21°C) or 0.001 ppm(w), guaranteeing unparalleled air purity and performance.	Filtration system eliminates dust particles larger than 0.01 µm, along with oil vapor and odor. It maintains minimal residual oil vapor content, not exceeding 0.003 ring/m3 (21°C) or 0.003 ppm(w), ensuring exceptional air quality.	Filtration system removes dust particles larger than 1 µm with precision and efficiency.	Filtration system effectively removes dust particles larger than 0.01 µm with precision and reliability.

International test and measurement standard ISO 12500

ISO 12500 has made clear a general test and definition method for the compressed air filter manufacturers. The main performance parameters are the air inlet oil content and the particle size distribution of the solid particles. ISO 12500-1 specifies the test requirements for the filtration performance of oil aerosol in the coalescing filter. ISO 12500-2 specifies the test requirements of adsorption filters for the removal performance of steam adsorption. ISO 12500-3 specifies the requirements for removal of particulate matter from solid pollutants.

Products are tested with the international advanced testing equipment based on standard ISO 12500, which is equivalent to the standard ISO 8573.

Filtration Grade	PF	AO	AA	AX	ACS	AR	AAR
Size of solid particles (ISO12500-3)	5 µm	1 µm	0.01 µm	0.01 µm	-	1 µm	0.01 µm
Filtration performance of solid particles (ISO12500-3)	-	99.999+%	99.999+%	99.999+%	99.999+%	99.999+%	99.999+%
Filtration performance of oil (ISO12500-1)	50%	80+%	99.9+%	99.9+%	-	-	-
Residual oil content (ISO12500-1)	5mg/m3	2.0mg/m3	< 0.01 mg/m3	< 0.001 mg/m3	< 0.004 mg/m3	-	-

Why choose Robust Air® original accessories ?

Ensure purified, dry, and stable air in your compressed air system by replacing the filter elements with Robust Air original products. Our filter elements endure constant exposure to oil, acidic condensate, and high-velocity dust, effectively protecting your system throughout operation. Using non-original replacements may compromise filter media integrity, reducing filtering performance and potentially leading to hidden reductions in air quality. To prevent this, it is crucial to replace the filter element annually. Failure to do so can result in low product performance, poor air quality, and increased production costs. Trust Robust Air's original filter elements to maintain optimal system performance and air quality.



THANK YOU

At ROBUST AIR, a proud brand of K.B. Polytech Pvt. Ltd., we are dedicated to engineering excellence and customer satisfaction. As leading manufacturers, suppliers, and dealers, we specialize in providing premium quality products and comprehensive solutions for all your compressed air needs. From our industry-renowned Compressed Air Aluminium Piping to advanced Desiccants/Heatless Dryers, PSA Nitrogen/Oxygen Plants, and Reciprocating Compressors, each product embodies our commitment to innovation and quality. Additionally, our offerings include Air Receivers, Line Filters, PU Fittings, and Auto Drain Valves, meticulously designed to integrate seamlessly into your operations. Backed by a skilled team and a dedication to exceeding expectations, ROBUST AIR is poised to optimize system performance, enhance productivity, and improve operational efficiency. Experience the ROBUST AIR difference today and elevate your compressed air solutions to new heights of excellence.

Contact Us



+91-9871395567, +91-8814888394



Plot No. 181, Sector 16, HSIIDC,
Bahadurgarh, Haryana -124507



sales1@kbpbgh.com

www.robustair.in