

ADF - SA Series

Compressed Air Filters

Technical Design

Compressed air contaminants, consist of pollens, compressor oils, rust scale as well as water contamination. Every modern production facility must remove these contaminants before the air is released into the compressed air distribution system. Clean and dry compressed air is a pre-requisite for any production plant that demands high quality compressed air and minimal production downtime.



The filter elements in the ADF-SA series of filter casings are manufactured from American high quality multi-layer borosilicate filter media that provides not only great filtration quality but also exceptional service life and minimal pressure differential losses.

Filter elements are fitted with high efficiency anti re-entrainment socks to prevent liquid migration from the filter elements back into the airstream.

All our steel casings are internally coated using Powercron 6200® process that inhibits corrosion. All the ADF-SA filter casings comply with the RSA codes and are also SANS 347 plated prior to dispatch from our works. Casings are flanged for easier element replacement.

The ADF-SA filter elements display great hydrophobicity, in other words, our filter media does not adsorb the water or oils that are present in the compressed air stream, this means lower pressure drops and less electrical energy wasted.

Proudly made in South Africa



Technical Specifications

Model	Capacity		Air Connections	Dimensions (mm)		Weight (kg)
	m ³ /min	CFM		Width	Height	
ADF-430-**	28	988.4	3" BSP Screwed	200	639	12.9
ADF-620-**	37.2	1313.6	3" BSP Screwed	200	896	17.5
ADF SA-0830-**	40	1770.0	DN100	493	1119	115
ADF SA-1000-**	60	2124.0	DN100	493	1119	115
ADF SA-1300-**	70	2478.0	DN125	617	1179	150
ADF SA-1950-**	100	3531.0	DN150	617	1206	195
ADF SA-2500-**	150	5310.0	DN200	666	1354	240
ADF SA-3250-**	200	7080.0	DN200	740	1459	380
ADF SA-4650-**	260	9204.0	DN250	800	1583	450
ADF SA-5200-**	312	11044.8	DN250	800	1583	455
ADF SA-7800-**	468	16567.2	DN300	906	1646	850

ADF-430-** ~ 620-** Filter : Max pressure : 1.6 Mpag
 ADF SA-0830 ~ 7800 Filter : Max pressure : 1.57 Mpag

Filter Specification

Oil and water filter: AO,AA and AX
 Activated carbon filter: ACS
 Dust filter : AR and AAR

Grade	Particle Removal (inc water & oil aerosols)	Oil Carryover at 21°C	Dry Δp	Wet Δp	Element Change Interval	Precede with Filtration Grade
AO	1um	0.5 mg/m ³	0.007 Mpa	0.014 Mpa	12 Months	WS
AA	0.01 Micron	0.01 mg/m ³	0.01 Mpa	0.02 Mpa	12 Months	AO
AR	1 Micron	/	0.007 Mpa	/	12 Months	/
AAR	0.01 Micron	/	0.01 Mpa	/	12 Months	AR
AX	0.01 Micron	0.001 mg/m ³	0.02 Mpa	0.04 Mpa	12 Months	AA
ACS	/	0.003 mg/m ³	0.007 Mpa	/	1000 Hours	AA

Correction Factors

Working Pressure (MPag)	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8
CFP	0.38	0.53	0.65	0.65	0.76	0.85	0.93	1.00	1.07
Working Pressure (MPag)	0.9	1	1	1.1	1.2	1.3	1.4		
CFP	1.13	1.20	1.20	1.25	1.31	1.36	1.41		