

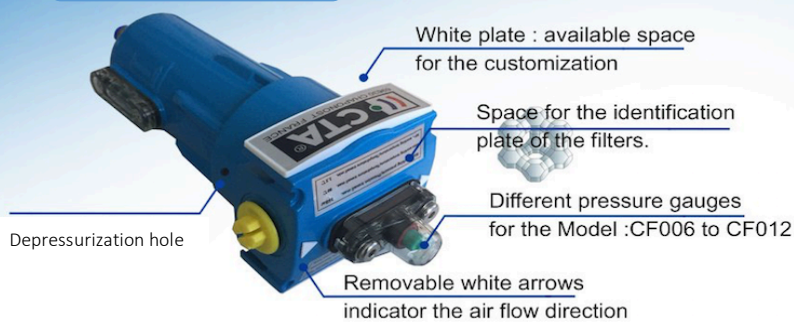


E.D.S. International (Thailand) Co.,LTD.

Compressed Air Filters



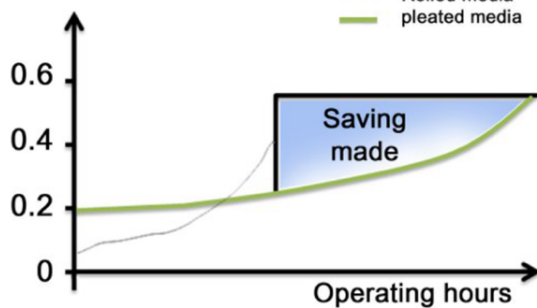
CF Filters Range



Housing in aluminium and bronze for a better durable.



Pressure Decay in bars



From 60 to 3000 m³/h Max. pressure 16 bar

Optima offers 5 difference grades of filtration elements, each easily identifiable by their finish (P,M,S,X,A) : different colored EndCap and a plastic-coated label on the filter simplifies maintenance operations it's legibility over time. The cylindrical inner and outer cages are made from perforated sheet metal. The cartridge screws directly onto the threaded rod of the filter, thus providing improved sealing. This operation is simplified by the centering cone located at the bottom of the cartridge. The caps are made from industrial grade plastic, guaranteeing high resistance to chemicals, heat and mechanical stresses, the seal is ensured by a nitrile O-ring.

The grade P filtration element is comprised from cellulose acetate fibers in the form of pleated paper.

The grade M,S and X filtration elements are equipped with a media offering 4-phase filtration with an outer and inner pleated layer made from polypropylene and 2 superposed pleated layers in the middle made from borosilicate microfibers.

The grade A filtration element is equipped, in addition to grades S and M, with a media composed of activated carbon (32%) to absorb oil particles.

NB Filters Range



PARTS :



Grade :



For 1,500 to 9,000 m³/h flow rates.

The Optima NB series is made from steel pipe metal. (Construction as per directive 87.404.

EC, APAVE acceptance (A risk control consultancy firm). Upon request. NB filters may be DRIRE, for the NB series, Optima units are fitted with externally mounted cast aluminium purge valves. Option : purge valve with level sensor.

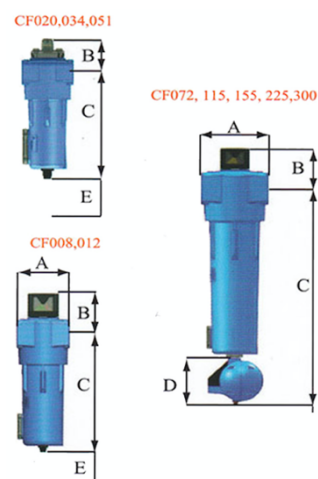
TECHNICAL DATA : CF

Maximum temperature : +60 °C (±100 °C or higher temperatures. Please contact us) ** Minimum re: +1 °C

Model	CF 006	CF 008	CF 012	CF 020	CF 034	CF 051	CF 072	CF 115	CF 155	CF 225	CF 300
Flow rate (m3/h) at 7 bar	60	78	120	198	336	510	720	1140	1548	2232	3000
Flow rate (m3/min) at 7 bar	1	1.3	2	3.3	5.6	8.5	12	19	25.8	37.2	50
Flow rate (CFM) at 100 PSI	25	32	49	82	138	210	297	470	638	920	1236
Connection	1/2"	1/2"	3/4"	1"	1-1/2"	1-1/2"	1-1/2"	2"	2-1/2"	3"	4"
Dimensions (mm)	A	89	89	89	120	120	120	162	162	200	200
	B	57	57	57	96	96	96	107	107	131	131
	C	181	215	215	282	282	382	571	882	671	928
	D							125	125	125	125
	E	80	114	114	155	155	255	333	662	383	660
Maxi. Working pressure (bar)	16	16	16	16	16	16	16	16	16	16	16
Maxi. Working pressure (PSI)	232	232	232	232	232	232	232	232	232	232	232
Weight (Kg)	1	1.1	1.08	2.7	2.82	3.36	6.15	8.58	13.9	16.45	15.54
Element N/B Reference	CY 08051	CY 11451	CY 11451	CY 17475	CY 17475	CY 27475	CY 34694	CY 67594	CY 41125	CY 69125	CY 69125



Grade		P	M	S	X	A
Air quality (Complies with ISO standard 8573-1)	Class	3	2	1		
	Filtration impurities (Micron)	3	1	0.01	0.02	0.003
	Efficiency (mg/m3)	5	1	0.1		
	Residual oil content (mg/m3)	1	0.1	0.01	0.002	0.003
Filter type		Coalescing			Oil vapour	
Particle removal water & oil aerosols		3 um	1 um	0.01 um	0.01 um	0.01 um
Cartridge Pressure drop (bar)		0.02	0.03	0.09	0.1	0.11
Cartridge Pressure drop (PSI)		0.3	0.45	1.3	1.4	1.6



** The above conditions are based on an absolute pressure of 1 bar (14 PSI) a temperature of +20 °C and a relative vapour pressure of 0.6 the initial pressure drop values are given for the nominal flow rate for a single dry cartridge.

Flow rate correction factors as a function of service pressure																
Bar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PSI	14	29	43	58	72	86	100	115	130	145	160	174	189	203	217	232
Correction factor	0.25	0.38	0.5	0.65	0.75	0.88	1	1.13	1.25	1.38	1.5	1.63	1.75	1.88	2	2.13

To optimise condensate elimination ,EDS filters can easily be fitted with our electronic drain traps. EDS a compressed air treatment specialists also manufacture a complete range of refrigeration and absorption dryers and accessories (oil/water separators, etc.)

TECHNICAL DATA : NB

Model	NB 300	NB 450	NB 600	NB 900
Flow rate (m3/h) at 7 bar	3000	4500	6000	9000
Flow rate (CFM) at 100 PSI	1766	2648	3530	5296
Connection	DN 100	DN 125	DN 150	DN 200
Dimensions (mm)	A	600	700	700
	B	1300	1370	1370
	C	230	230	280
	D	550	550	550
Maxi. Working pressure (bar)	9.9	9.9	9.9	9.9
Maxi. Working pressure (PSI)	143	143	143	143
Weight (Kg)	120	130	140	230
Element Nb/Reference				



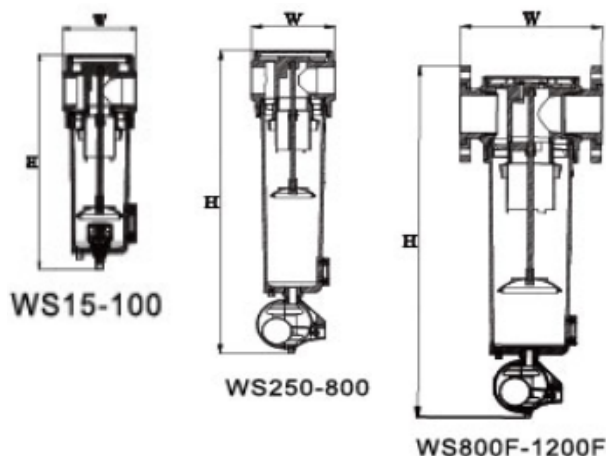
WS SERIES WATER SEPARATORS



Water separator is one of purification products without elements which is used to before air filter protect coalescing filters against bulk liquid contamination, where excessive cooling takes place in air receivers and distribution piping.

Existing problems: Compressed air system have bulk liquid which bring pipeline corrosion, the damages of valves, air cylinder and tools, reduce the efficiency of after air cooler and heat exchanger.

The futures: Aluminum alloy die-casting housings.
Anti-corrosion treatment. No secondary pollution.
Static rotary vane. Keep 99.9% high efficiency separation.
70 m³/min flow rate.
Low pressure loss. Differential pressure is 0.007 Mpa.
The max working pressure:1.6 Mpa.
The max. temperature is 80°C.
The lowest temperature is 1.5°C.



Installing benefits :

1. Reduce pipe rusting condition from water and the damages to valves, cylinders
2. Protects coalescing filters from bulk liquid contamination
3. Improve air quality
4. Protect the pre-filter of refrigerated and adsorption air dryers
5. High liquid removal efficiency at all flow conditions
6. Reduce operational and maintenance costs



Model	Pipe size	Flow rate			Quantity	Dimension (mm)	
		L/S	m ³ /min	cfm		Width(W)	Height(H)
WS 15	Rc1/2"	40	2.4	84.5	1	89	228
WS 25	Rc3/4"	60	3.6	127.1	1	89	228
WS 50	Rc1"	75	4.5	158.9	1	89	263
WS 100	Rc1 1/2"	166.7	10	353.1	1	120	335
WS 250	Rc2"	416.8	25	882.7	1	162	664
WS 700	Rc2 1/2"	700	42	1483.1	1	200	712
WS 800	Rc3"	833.5	50	1765.6	1	200	712
WS 800F	DN80/DN100	833.5	50	1765.6	1	280	734/744
WS 1000F	DN100/DN125	1000.2	60	2118.7	1	280	780/795
WS 1200F	DN100/DN125	1166.7	70	2464	1	280	1058/1073

Below flows are for operation at 7 bar g (100 psi g) with reference to 20°C. For other pressure.

* Please refer to the correction factor*

Pressure	Bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	P sig	15	29	44	59	73	87	100	116	131	145	160	174	189	203	218	232
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