



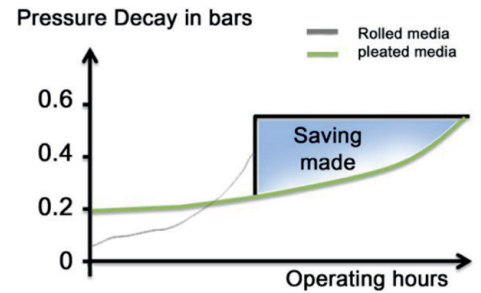
COMPRESSED AIR FILTER

CF / D-MT / WS Series

CF SERIES

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

Optima offers 5 different 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.



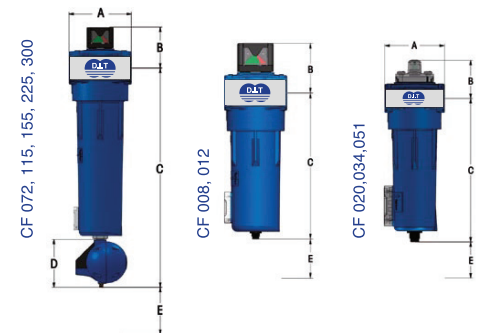
Housing in aluminium and bronze for a better durability.

Technical Specifications: CF Series

MODEL #	Flow Rate			Connection	Dimensions					Max. Working Pressure		Weight (kg)	Element Ref. #
	m3/min	m3/h	CFM		A	B	C	D	E	bar	PSI		
CF-006	1	60	35	1/2"	89	57	181	-	80	16	232	1	CY 08051
CF-008	1.3	80	46	1/2"	89	57	215	-	114	16	232	1.1	CY 11541
CF-012	2	120	71	3/4"	89	57	215	-	114	16	232	1.08	CY 11541-1
CF-020	3.3	200	117	1"	120	96	282	-	155	16	232	2.7	CY 17475
CF-034	5.6	340	198	1-1/2"	120	96	282	-	155	16	232	2.82	CY 17475-1
CF-051	8.5	510	300	1-1/2"	120	96	382	-	255	16	232	3.36	CY 27475
CF-072	12	800	424	1-1/2"	162	107	571	125	333	16	232	6.15	CY 34694
CF-115	19	1,000	671	2"	162	107	882	125	662	16	232	8.58	CY 67594
CF-155	25.8	1,500	911	2-1/2"	200	131	671	125	383	16	232	13.9	CY 41125
CF-225	37.2	2,200	1,314	3"	200	131	928	125	660	16	232	16.45	CY 69125
CF-300	50	3,000	1,766	4"	200	131	928	125	660	16	232	15.45	CY 69125-1

Maximum temperature : +80 °C (±100 °C or higher temperatures. Please contact us) ** Minimum re:+ 1 °C

MODEL #	P	M	S	X	A	
Air Quality Complies with ISO standard 8573-1	Class	3	2	1	-	-
	Filtration Impurities (Mocron)	3	1	0.01	0.02	114
	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	3um	1um	0.01um	0.01um	0.01um	
Cartidge Presure Drop (bar)	0.02	0.03	0.09	0.1	0.11	
Cartidge Presure 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 ,DIT filters can easily be fitted with our electronic drain traps. DIT a compressed air treatment specialists also manufacture a complete range of refrigeration and absorption dryers and accessories (oil/water separators, etc.)

Technical Specifications: D-MT Series

MODEL #	D3001MT	D6002MT	D9003MT	D12004MT	D15005MT	D18006MT
Flow Rate (m3/h)	3,000	6,000	9,000	12,000	15,000	18,000
Flow Rate (CFM)	1,750	3,500	5,250	7,000	8,750	10,500
Connection	4" FL	6" FL	6" FL	8" FL	8" FL	10" FL
Dimensions (mm)	A	450	600	650	700	750
	B	1,052	1,264	1,366	1,418	1,480
	C	90	150	150	150	150
	D	150	150	150	150	150
Max. Working Pressure (bar)	16	16	16	16	16	16
Max. Working Pressure (PSI)	232	232	232	232	232	232
Max. Inlet Temp	80	80	80	80	80	80
Weight (kg)	81	156	240	310	398	400
Element Reference	CY 69125-1 P/M/S/A/X					
Element QTY	1	2	3	4	5	6





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

Existing problems:

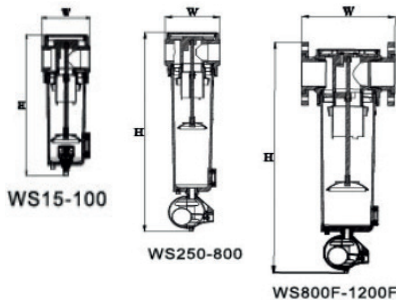
Compressed air system have bulk liquid which bring pipeline corrosion, the damages of valves ,air cylinder and tools, reduce the efficiency of after air cooler and heat exchanger.

Futures:

- High speed cyclone
- 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.

Benifits:

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



MODEL #	Flow Rate			Connection	Dimensions	
	L/S	m3/min	CFM		Width	Height
WS 25	60	3.6	127.1	3/4"	89	228
WS 50	75	4.5	158.9	1"	89	263
WS 100	166.7	10	353.1	1-1/2"	120	335
WS 250	416.8	25	882.7	2"	162	664

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*

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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

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