

1.Main technical indicators and parameters

EP-038WS-IIWater separator																
1.	Specification					Rc3/4-PN16										
2.	Dimensions					251mm*100mm										
3.	Medium					Compressed air										
4.	Flow Rate					3.8m³/min (Related to 1bar abs and 20 °C according to ISO 7183.)										
5.	Working pressure					0.6-1.6MPa(Standard working condition0.7MPa)										
6.	Inlet Temp.					1.5°C~80°C										
7.	Inlet/outlet pipe					Rc3/4										
8.	Water removal rate					≥99%										
9.	Initial pressure drop					0.007MPa										
10.	Shell material					Aluminum										
11.	Weight					≈1.2 kg										
In order to correctly select the type of water separator, it is necessary to obtain the maximum inlet flow rate, the minimum inlet pressure, select the correction coefficients from the table corresponding to the type and calculate the minimum processing flow rate required for water separator.																
Minimum process flow = Maximum inlet flow/CFP																
Correction factor for intake pressure (CFP)																
bar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
g																
CF	0.3	0.5	0.6	0.7	0.8	0.9	1.0	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.5
P	8	3	5	6	5	3	0	7	3	9	5	1	6	1	6	1

2.Product Introduction

The cyclone air-water separator is a high-performance device specifically designed for precise separation of liquid and solid particles larger than 10 microns in compressed air. No need for tedious maintenance of the built-in filter element, it is directly installed at the front end of the compressed air filter as a sturdy line of defense, effectively protecting the filter from a large amount of liquid pollution from the storage tank and delivery pipeline. Its unique cyclone separation technology ensures efficient purification and provides users with purer and more stable compressed air.

3.Working principle

When a mixed gas containing solid particles, liquid oil, water and other impurities enters the cyclone gas water separator, it will first be guided by a carefully designed "starter", and the gas flow direction will quickly change and produce high-speed rotation. Under the strong centrifugal force, solid particles, liquid oil, water and other impurities in the gas are quickly thrown towards the cylinder wall of the separator, and gradually settle into the bottom water tank under the action of gravity. After a period of accumulation, impurities in the sink can be easily discharged through the drainage pipe, thus achieving thorough separation of impurities in the mixed gas.

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4.Main features of the product

●Multiple efficient purification mechanisms

By utilizing multiple physical mechanisms such as cyclone separation, inertial collision, and gravity settling, efficient removal of impurities from the air is achieved

●Deep cleaning of large particulate matter

Not only can it thoroughly remove large particles such as rust and debris from the pipeline, but it can also maintain extremely low pressure drop during the cleaning process, ensuring stable operation of the system.

●High flow rate and perfect water removal performance

With excellent design, the product has high flow processing capability and achieves a water removal rate of 99%, providing users with a perfect user experience.

●Durable and long-lasting, worry free maintenance

The efficient and stable performance makes the product almost maintenance free, greatly extending its service life and saving users later costs.

Due to the continuous updating of technology, our company reserves the right to make changes and upgrades to our products without prior notice, please refer to the final product when ordering.

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