

Motimac Wet Filter WS-HF075



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About Motimac



As a technology innovator in the sanding industry, Motimac shoulders greater responsibilities. This responsibility stems not only from our commitment to continuous innovation in process technology, but also from the respect of peers in the industry and the trust of numerous partners.

Founded in February 2001, Motimac Intelligent Equipment is headquartered in Qingdao, China. We have established a branch in Canada and an office in Vietnam, with more than 60 agents worldwide. Over the past 26 years, we have kept breaking through, injecting new momentum into grinding technology and advancing the industry with perseverance.

The ultimate goal of Motimac's technologies and products is to enhance customers' market competitiveness and simplify and improve the efficiency of their operations. This goal applies to our full range of products.



14,400 m² Manufacturing Base

- Assembly Line Operation
- Individual Responsibility Management & SOP Development Process
- Standardized Installation Procedures

HONOR

- Shandong Provincial First (Set) Major Technical Equipment Manufacturer and Product
- Participating Organization in the Formulation of National Standards for Sanding Machines
- Specialized, Refined, Unique, and Innovative Enterprise
- Green Factory Certification
- TÜV Germany CE certification
- ISO 9001 Quality Management System Certification

Customer Benefits

1. **2.75×** ultra-high air volume for greatly improved dust filtration performance

Equipped with a 7.5kW motor, delivers a rated air volume of 11,000 m³/h.

Conventional wet filters on the market are generally fitted with a 5.5kW motor, offering an air volume of only 4,000 m³/h.

2. Approximately **96%** reduction in consumable cost

The annual consumable cost is less than 200 RMB. It only requires a single layer of filter cotton replacement plus minor water replenishment loss at a rate of around 10 L/h.

A dry filter with same air volume requires complete replacement of filter cartridges every year. For a unit equipped with 12 filter cartridges, the annual consumable cost will be: 400 RMB × 12 = 4,800 RMB.

Motimac VS Competitor

Item	Motimac WS-HF075	Dry Filter(Same Air Volume)	Dry Filter (Small Unit)
Installed Power	7.5KW	15KW	4KW
Air Volume	11000m ³ /h	11000m ³ /h	3000m ³ /h
Inlet Air Velocity	25m/s	18~22m/s	-
Consumables	Single-layer filter cotton, water	Filter cartridges, 9~12 pcs	Filter cartridges, frequent replacement
Annual Consumable Cost	< 200 RMB	3600~4800 RMB	Multiple units required, higher consumable cost

3. **Annual power saving of 16,800 kWh**

A dry filter with same air volume consumes an extra 7.5 kW × 8 h = 60 kWh per day. Based on 280 operating days per year, the annual extra power consumption reaches 60 kWh × 280 days = 16,800 kWh. The difference in electricity cost is remarkable over long-term operation.

Dust Filtration Performance

WS - HF075: The air volume and suction power remain stable throughout operation with no performance degradation over the service life. Equipped with an automatic monitoring system, it ensures consistent and compliant emissions, and delivers reliable capture of wood dust, metal dust and other particulates.

Dry Dust Filter: After 3~5 months of operation: Filter cartridges get clogged with dust, resulting in obvious drop of air volume and suction, and deteriorated dust removal effect. After more than half a year of operation: Filter cartridges become caked, leading to a sharp decline in dust absorption capacity. Cleaning can hardly restore full performance, and filter cartridges have to be replaced.

Operation & Maintenance

WS - HF075: Equipped with automatic detection and fault alarm functions. It eliminates manual periodic logging and experience-based inspection, achieving nearly maintenance-free operation.

Dry Filter: It requires regular manual inspection and dust cleaning. Operators must judge filter cartridge clogging based on experience. Delayed maintenance may lead to reduced suction, excessive emissions and other issues, resulting in high labor management costs.

Configuration & Specification

No.	Component	Brand	Features
1	Touch Screen	MCGS	High sensitivity, stable operation
2	Pneumatic Components	AirTAC (Taiwan)	Premium series, maintenance-free
3	Explosion-proof Motor	EU Standard	Excellent safety performance, high energy efficiency class
4	PLC	Inovance	Ultra-high stability, precise data transmission
5	Water Level Sensor	Imported Brand	High reliability, low maintenance
6	Diaphragm Pump	Imported Brand	High reliability, strong corrosion resistance, excellent self-priming capability, low maintenance
7	Negative Pressure Sensor	Imported Brand	High stability, long service life, ultra-wide range, high measurement accuracy

No.	Parameter	Value
1	Motor Power	7.5kw
2	Voltage	380V
3	Frequency	50Hz
4	Max. Air Volume	11000m ³ /h
5	Max. Pressure	4000Pa
6	Max. Air Inlet Diameter	φ355mm
7	Width	1250mm
8	Depth	850mm
9	Height	3265mm
10	Weight (without water)	750kg

Warranty Terms

Within Warranty Period

1. Motimac provides quality guarantee: the complete machine is warranted for 1 year from the date of successful acceptance.
2. Equipment failures caused by quality issues (not attributable to human factors) shall be repaired free of charge by our company. Spare parts replacement required due to quality problems (not attributable to human factors) shall be provided free of charge.

If damage is caused by human factors, buyer shall bear the cost of replacement parts, and Motimac will actively provide technical support and service.

3. Motimac provides free hotline technical support. Upon receipt of your inquiry via phone or WeChat, they will respond and offer immediate technical guidance. Should the issue not be resolved remotely, we will arrange engineers to attend site within the agreed time frame.

Out of Warranty Period

1. Motimac provides lifetime service for the equipment.
2. Motimac provides free hotline technical support. Upon receipt of your inquiry via phone or WeChat, they will respond and offer immediate technical guidance.
3. If the issue cannot be resolved via remote guidance, we will arrange engineers to attend site at the earliest opportunity upon receipt of buyer's request. Buyer shall be responsible for all incurred costs including spare parts, travel, accommodation and other related expenses. Motimac guarantees high-quality spare parts at competitive prices supported by prompt and efficient service.