


1

THE PRECISION WATER FILTRATION STATION

Product Description

JMSGLZ-70B-4A type down hole online self-cleaning precision water filtration station is dedicatedly developed based on the mining down hole water supply conditions, which provides one-stop service for modern mining down hole water resources.

The equipment can be used for the filtration of general intake water of fully mechanized mining face, providing pure water for water consumable devices, greatly reducing the operation and maintenance cost of down-stream water consumable devices, and reducing nearly 70% of flow system faults, and ensures complete device and normal operation. This device is wholly placed directly on the rail, the water inlet and supply port are connected, the clean water after filtration connects with the water distribution pipe of mining face through water outlet, then the clean water will be distributed to emulsion pump station, frame, atomizing cooling, scraper conveyor and TTT cooler, etc.

Technical characteristics:

This device comprehensively uses the wedge-shape filtration technology, fiber filtration technology and RO technology, so it is one kind of high precision filtration equipment, it can supply water based on different water needs, optimizing efficiency and economical. One single set of this product is with large water processing capacity, small covering space, stable operation flow, good water outlet quality, small pressure fluctuation and low investment, etc.

Step water supply, first class: coarse water filtration, secondary class: fine water filtrations, third class: pure water.

1st coarse water filtration accuracy: 120 micrometer

2nd fine water filtration accuracy: 10 micrometer

3rd class: pure water (dedicated for frame emulsion system and down hole equipment with high requirements)

Each class of filters are regularly cleaned on-line without disassembly

The 1st, 2nd filtration material do not to be replaced for a long time, they can be used repeated.

3rd class filtration material has long lifespan, which should be replaced once half year.

Only need the water desired for filtration and compressed air source, no power need, equipped with direct water drinking port.

Technical parameters:

Filtration media:	Water (PH ranges from 5.5-8.5, no viscous suspended matters)
System pressure:	The maximum water filtration media is 2.5 MPa (high pressure can be customized), the lowest pressure should not less than 0.7 MPa.
Flow:	Coarse filtration 70t/h Fine filtration 15t/h Pure water 4 t/h Maximum total flow 70 t/h
Filtration accuracy:	Coarse filtration 120 μ m Fine filtration μ m The removal rate of pure water for ion can up to 98%
Working temperature:	1°C~55°C
Inlet water turbidity:	≤80NTU
Precision filtration water outlet turbidity:	≤5NTU Equipped with direct water drinking port
Input parameters:	DN 100 flange, can be ordered
Outlet parameters:	Coarse filtration water outlet DN 50 rapid insert (5) Fine filtration water outlet DN 40 rapid insert (3) Pure water outlet DN 32 rapid insert (2)
Weight:	2200Kg
Weight loaded with water:	3900Kg

The precision water filtration station is wholly installed, can be travelled by directly placed on the rail. From the rail face, the highest point of filter is 1750 mm, flat car length is 2750 mm, (3200 mm with head), width is 1320 mm.