NOVO SPRING®

NFYD 1260

SPECIFICATION AUTOMATIC DOUBLE CARTRIDGES UF PURIFYING SYSTEM

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TIANJIN NOVOFANGYUAN MEMBRANE SEPARATION TECHNOLOGY CO., LTD.

NFYD-1260
AUTOMATIC DOUBLE CARTRIDGES UF PURIFYING SYSTEM

Ultra-filtration UF

Is the way to separate membrane by mechanism pressure as push power, separating big molecules and small molecules. Under the pressure of push, particles, which are smaller than the membrane pore such as water, ions and small molecules dissolved in the raw water, permeate to be the UF liquid, while particles which are larger than the membrane pore are concentrated to be withheld such as big protein molecules, microorganism, colloid, suspending substance etc., so it makes the water purifying.

Hollow fiber UF membrane module is the most widely-used type of UF technology. It filters by physical way, which is effectively get rid of colloid, particulate, microorganism; reduce the virus quantity in the water and save beneficial microelement.

NFYD-1260 Automatic Double Cartridges UF Purifying System adopt inside-pressure hollow fiber UF membrane module. UF membrane diameter is 0.01μm, permeate turbidity 0.1NTU。 It has flushing and backwashing functions, automatically controlled by computer programmed, easily operate and free maintenance.

Technology characteristic

- Rated voltage DC6V,it can make weak electricity and strong electricity separated, and guarantee electricity use safely in working environment.
- NFYD-1260 Automatic Double Cartridges UF System is made of automatic valves, 1260 UF, UPVC fittings specialize in drinking water, pipes, fixing board, bracket and controller.
- Cross flow filtration technology; eliminate pollution.
- The system has automatic functions of Flushing and backwashing.
- The system has automatic function of memory. In the break power conditions, it is able to reserve user-defined settings automatically.

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Operation guide

- Figure1(Fig1)shows the controller, water feed, purify water outlet and drain of NFYD-1260 Automatic Double Cartridges UF Purifying System (Detailed information would be referred to Technology Parameter and Elements)
- Figure 2 (Fig 2) is key specification of Controller.

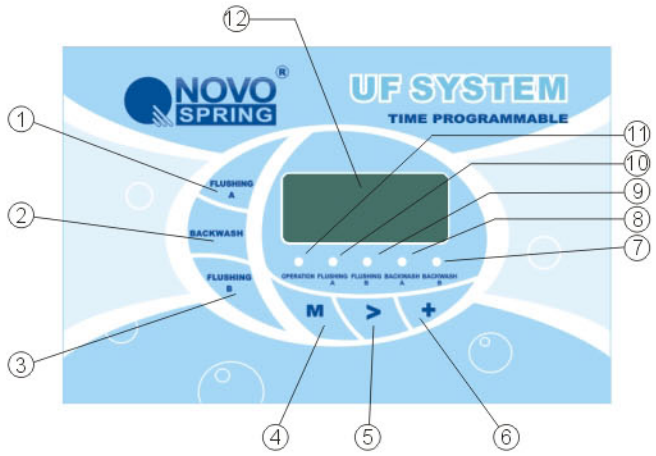

Fig 2

① Flushing A ② backwashing ③ Flushing B ④ ⑤ ⑥ Function Setup
⑦ Backwashing B Indicator Light ⑧ Backwashing A Indicator Light
⑨ Flushing B Indicator Light ⑩ Flushing A Indicator Light
⑪ Output Water Indicator Light
⑫ Controller LCD Screen

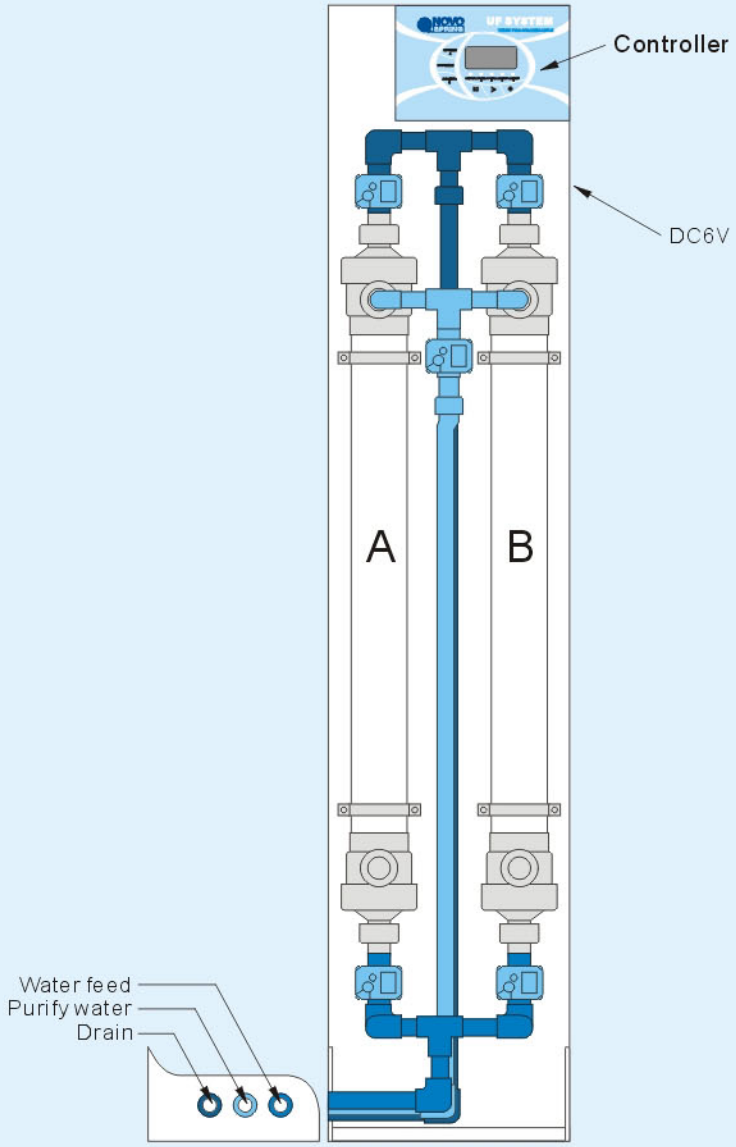

Fig 1

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■ **Flushing A**

Press Flushing A key, UF system Module A will flush, Module B is pause. Press Flushing A key again, it will stop.

■ **Flushing B**

Press Flushing B key, UF system Module B will flush, Module A is pause. Press Flushing B key again, it will stop.

■ **backwashing**

Press backwashing key, NFYD-1260 Automatic Double Cartridges UF Purifying System will operate automatically as

BackwashingA $\xrightarrow{30s}$ FlushingA $\xrightarrow{15s}$ BackwashingB $\xrightarrow{30s}$ FlushingB $\xrightarrow{15s}$ normal operation

Operation time and time interval follow: have set up in advance. If you want to cancel the operation in midway, press backwashing key to stop.

■ **Adjust Clock**

Press "M" key, the front two digits flash (refers to set the hour), press "+" key to adjust, press ">" key to change the rear two digits (refers to set the minute).Press "M" key twice or wait 5 seconds, automatically return to the initial state. (Figure 3shows:08H00M27 S)

Fig 3

Fig 4

Fig 5

■ **Fixed Time**

On unattended case, FlushingA and Flushing B operate automatically. Under initial state, press "M" key twice, turn to time setup, the below right corner "01" will flash (Figure 4). "01" is the ordering number can be set to 24 times(in 24 hours). Using "+" to adjust order number, press ">" to change. Adjust timing, the method is the same as "Adjust clock". Continually press ">" to set up draining time, turn into (Figure 5) page, temporally the digital unit is second. Press "+" key to adjust (from 0 to 99 seconds), press "M" key to return to be the initial state.

For example, set up 18: 00 as start time, draining time is 30 seconds. At 18:00 the UF system will start flushing A 30 seconds ,and then Flushing B 30 seconds。Then turn into Normal operation condition.

■ **Cancel Time**

Set up the draining time to be 0 second (Figure 5)

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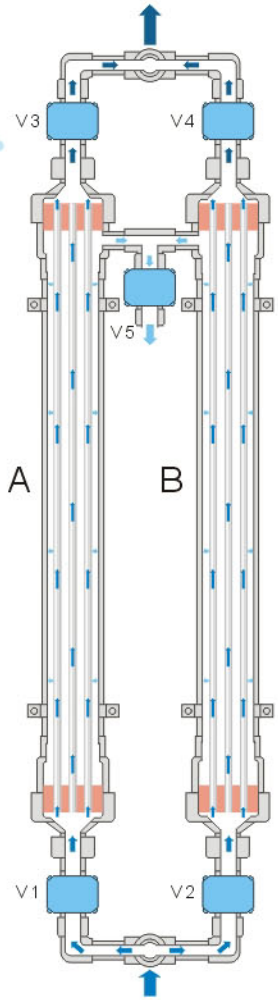

Technology Parameter and Elements

Normal operation

Electric Valve V1,V2 are open, raw water flow into system. The system separates colloid, particulate, bacterium and virus from water (It would be referred to homepage of Tianjin Novofangyuan Membrane Separation Technology Co., Ltd http://www.novospring.com). Purify water flow out from V5 for using, synchronously draining water is screened temporarily in system.

Flushing A

V2,V4,V5 are close ,V1,V3 are open and Module B is paused, raw water flow in Module A from V1 and flow out with draining water from V3.

Flushing B

V1,V3,V5 are close,V2,V4 are open and Module A is paused, raw water flow into Module B from V2 and flow out with draining water from V4.

backwashing A

V1,V4,V5 are close ,V2,V3 are open. Raw water flow in Module B from V2 and engender purify water, then give backwashing to a Module A, through hollow fiber and flow out with draining water from V3.

backwashing B

V2,V3,V5 are close ,V1,V4 are open, raw water flow in a Module A from V1 and engender purify water,, then give backwashing to Module B , through hollow fiber and flow out with draining water from V4 .

	V1	V2	V3	V4	V5
Normal operation	√	√	×	×	√
Flushing A	√	×	√	×	×
Flushing B	×	√	×	√	×
Backwash A	×	√	√	×	×
Backwash B	√	×	×	√	×

Note: √= Open ×=Close

TECHNOLOGY PARAMETER	
Maximum Allow Pressure (MPa)	0.4
Maximum Transmembrane Pressure (MPa)	0.2
Normal Operation Pressure (MPa)	0.1-0.2
Backwash Pressure (MPa)	0.1-0.2
Ph Value	2-10
Max Allowable Concentration of Free Chlorine (Long Time) (mg/L)	50
Max Allowable Concentration of Free Chlorine (short Time) (mg/L)	< 300
Operation Mode	Deed-end & timing flushing and backwashing
Max Operating Temperature (℃)	< 40
Membrane Characteristics	Hydrophilic/Double Skin
Membrane Material	PAN
MWCO (Dalton)	50,000
Membrane Area (m^2)	10
Fiber Internal Diameter (mm)	1.0
Fiber external Diameter (mm)	1.6
Number of Hollow-Fiber (piece)	3000
Membrane Module Size (mm)	Φ90×1260
Inlet and Outlet Point Diameter (mm)	DN25
Max Air Pressure for integrity Test (MPa)	0.2
Flux (0.1MPa,25℃)	2T/H

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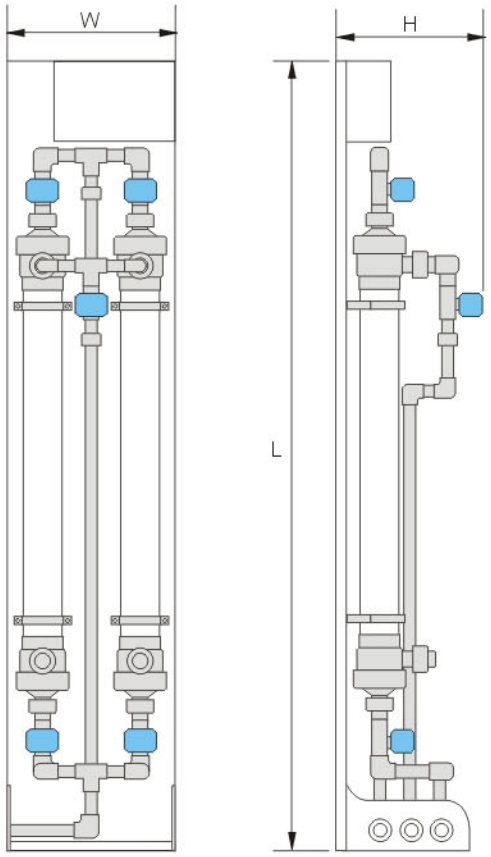

- **Volume** 1835x315x315
- **Weight** 24.39Kg
- **Rated Voltage** AC 110~220/DC6V
- **Rated Power** 3W
- **Installation Conditions** A side wall can be fixed equipment with drainage and power interface nearby

Application Field

HOSPITAL TEAROOM
SHOPPING MALL CAFE RESTAURANT
OFFICE BUILDING PRIVATE RESIDENTIAL
SCHOOL FOOD MACHINING
DRINK MADE

Note Terms

- **Raw water**
  The water, which has been handling already, will be input in the UF system such as running water.
- **Purify water**
  The water is after filtered by NFYD-1260 Automatic Double Cartridges UF Purifying System. It has been removed colloid, particulate, and microorganism and saved beneficial microelement.
- **Draining water**
  A kind of concentrated liquid is mixed by colloid, particulate, bacterium, virus, and water.

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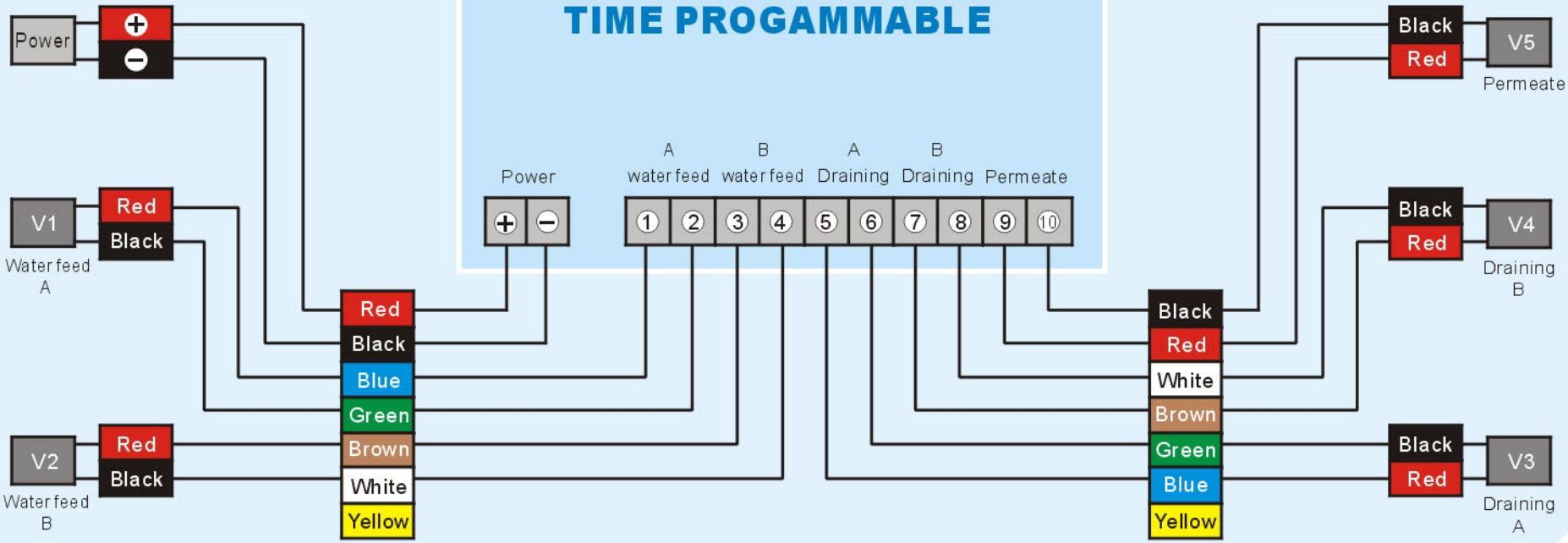
Electrocircuit Diagram



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