

CWS High Flow Ultra-Filtration System 82C



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1. Description

The CWS High Flow 82C UF system has a parallel connection consisting of two sets of UF filters, with microcomputer controller and pressure tank.

2. Applications

To satisfy the water purification demands for whole house needs, as well as commercial / catering industry such as restaurants, coffee bars, airports, small food processing facilities and offices.

3. Product Features

- Removes bacteria, colloid, rust, microorganism and other impurities; keeps minerals and trace elements.
- Wall-mounted design, saves space and easy for installation.
- Microcomputer automatically backwash program, prolongs the lifespan of UF membrane, reduces the operation cost.
- LCD display, direct viewing and convenient.
- Automatic backwashing and rinsing of UF system

4. Product Specifications

4.1 Components

Controller Microcomputer
UF filter Backwash Pressure tank

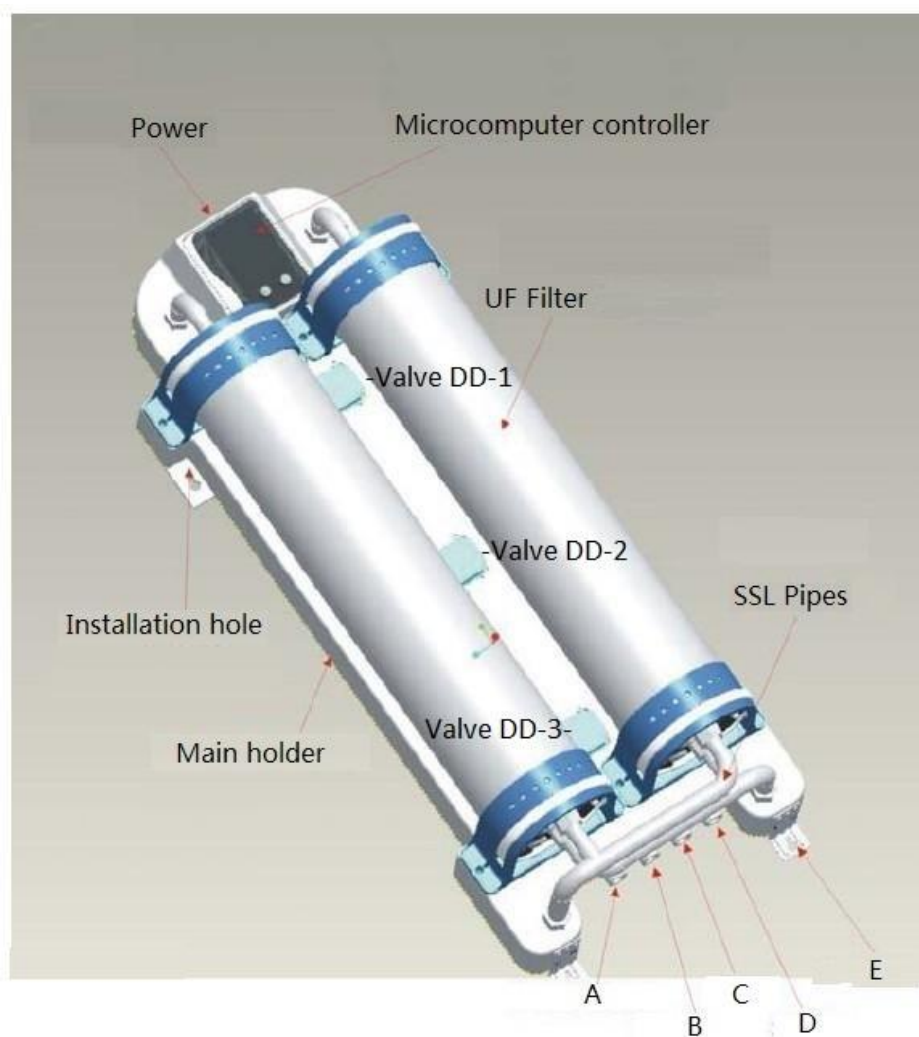
4.2 Specifications

| | <i>Item</i> | <i>Specification</i> |
|-----------------|-------------------|----------------------|
| Controller part | Controller | Microcomputer |
| | Washing frequency | Default or customize |
| | Washing time | 60s |
| | Power | DC 12V |

| | | |
|-----------------|-----------------------------|-------------|
| Filtration part | UF filter | LH3-8Gd |
| | Electrically operated valve | 3-5V / G3/4 |
| | Main pipes | SSL304 |
| | Connect pipes | PPR |
| | Pressure tank | 6.5 Gallon |

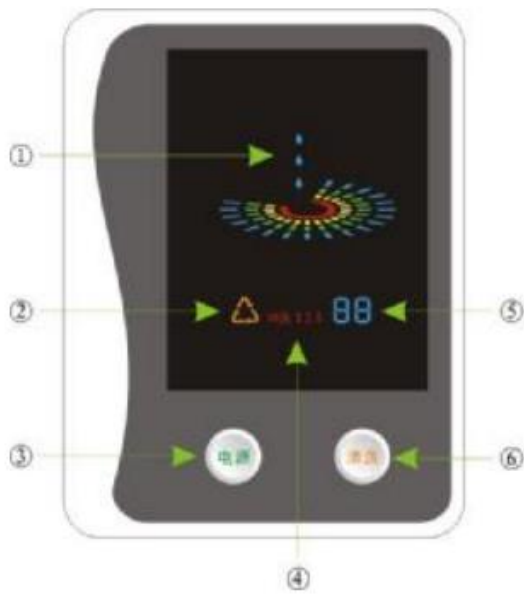
| | | |
|----------------|---------------------------|---------------------------|
| Technical part | Design flux | 4000 L/h |
| | Operation pressure | 0.8~3.5 bar |
| | Water temperature | 5~45 °C |
| | Connector size | G3/4 |
| | Dimensions | 423*247*1060 mm |
| | Weight | ≤37 kg |
| | Installation requirements | Floor drain, AC 220V/50Hz |
| | Energy consumption | ≤15W |

5. Product Structure



- A: Pressure tank connector
- B: Purified water outlet
- C: Raw water inlet
- D: Discharge outlet
- E: Installation hole

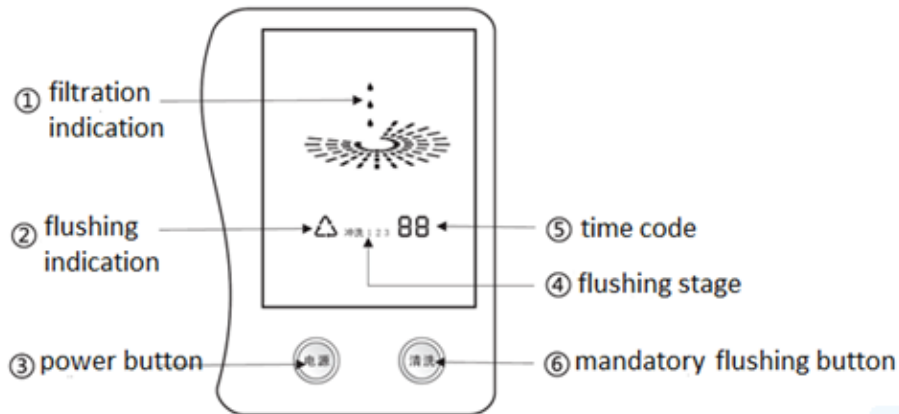
6. Controller Panel



- ① filtration indication
- ② flushing indication
- ③ power button
- ④ flushing stage indication
- ⑤ time code
- ⑥ mandatory flushing button

- (1) Filtration indication①:
during the filtration process, the water drop-shaped drips from top to bottom, the ripple spreads out from inside to outside.
- (2) Flushing indication②:
after 40 minutes filtration, it enters into flushing process. The icon shows that:
flushing 1: pressure tank storing water;
flushing 2: pressure tank backwashing;
flushing 3: forward washing.
- (3) Power button③:
press this button to turn ON/OFF the device operation, when the device is in the stop condition, all valves are closed (adopted electric valves).
- (4) Time code⑤:
shows the time of each stage (water producing, water storing, back washing, forward washing). If the time code is not flashing, press ③(power button) to enter into the next stage time setting. After time setting in any stage, press ⑥(mandatory flushing button) for 2 seconds can save the set time, the new set time will take effect on the next startup.
- (5) Mandatory flushing button⑥:
when press this button, the device will execute once flushing process.
- (6) Electricity lost detection function:
for water safety guarantee, if there is no city electricity, all valves will be closed automatically.

7. Time Setting



Step 1:

power on, in the standby status, press and hold ⑥(mandatory flushing button), then press ③(power button), 2 seconds later ⑤(time code) lights up.

Step 2:

release ③(power button) and ⑥(mandatory flushing button), ⑤(time code) flashing, press ③(power button) can modify the flashing digital.

Step 3:

after setting finished, press ⑥(mandatory flushing button) can switch the flashing digital.

Time modification:

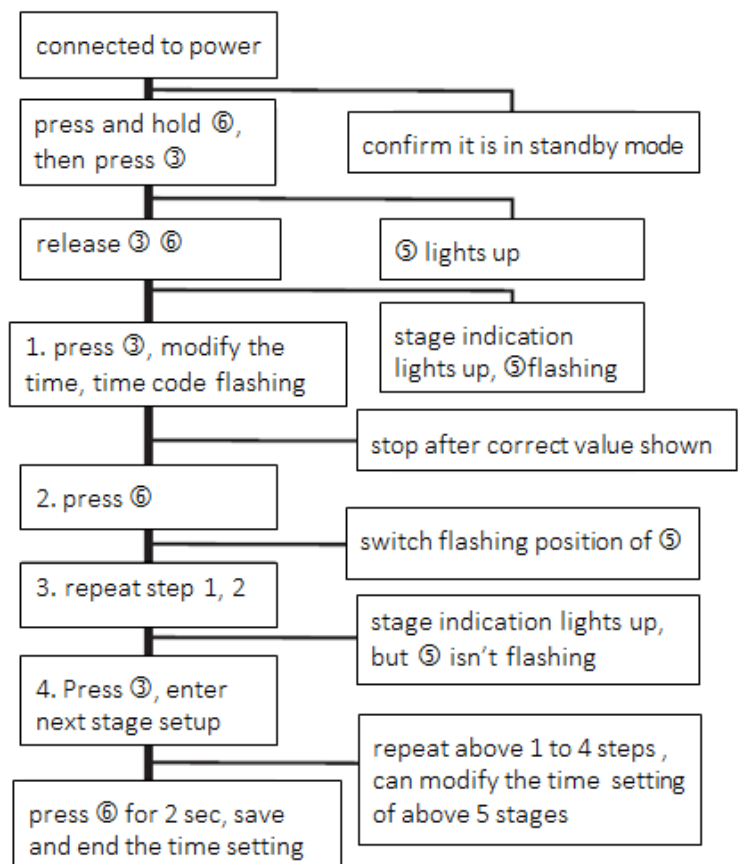
The time of water producing, water storing, back washing, forward washing can be modified.

Time modification is divided into five stages: water producing 1, water producing 2, flushing 1, flushing 2, flushing 3.

The corresponding time: water producing time (0~99hour), water producing time (0~59min), water storing time (0~99sec), back washing time (0~99sec), forward washing time (0~99sec).

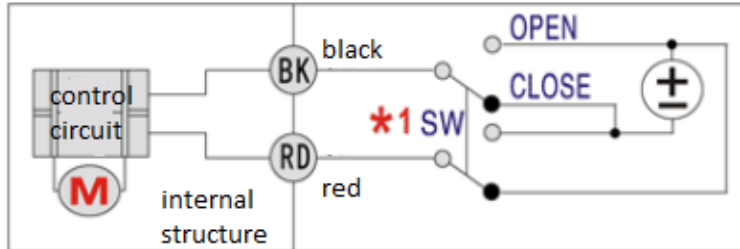
The corresponding status shown on the panel:

“filtration indication + number 1” lights up,
 “filtration indication + number 2” lights up,
 “flushing indication + number 1” lights up,
 “flushing indication + number 2” lights up,
 “flushing indication + number 3” lights up.



8. Power Connection

- Power supply is low voltage DC (12V), the interface is socket type at the top.
- Control element: three low voltage reversing electrically operated valves.
- Connection principle:



- SW and OPEN short sub, electrically operated valve open, after putting in place and maintain.
- SW and CLOSE short sub, electrically operated valve close, after putting in place and maintain.

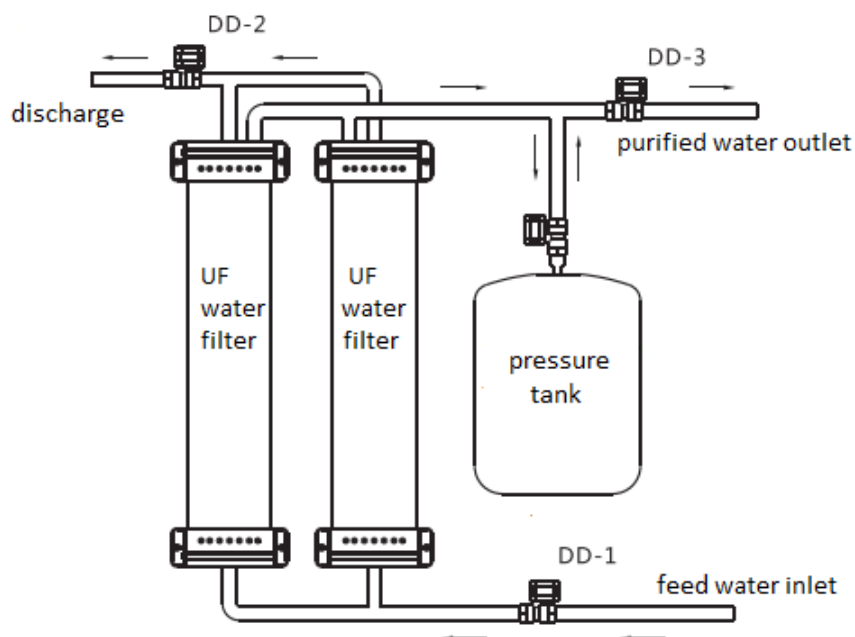
9. Working Process

1. Filtration:

Under the action of water pressure, raw water through DD1 and enters into UF filters; DD2 is closed at the moment. DD3 opens, filtered water comes out.

2. Flushing:

- DD1 opens, DD2, DD3 are closed, pressure tank starts to store water (20 seconds).
- After water storing finished, DD1, DD3 are closed, DD2 opens, water stored in the pressure tank starts to back wash UF filters, the flushing water comes out from the discharge outlet (20 seconds).
- After back washing finished, DD1 opens, raw water forward washes UF filters and comes out from the discharge outlet (20 seconds).



| Working Process Instructions | | | | |
|------------------------------|--|-----|-----|-----|
| Automatic Operating Program | Process | DD1 | DD2 | DD3 |
| | Filtration (40 minutes) | ON | OFF | ON |
| | Pressure tank storing water (20 seconds) | ON | OFF | OFF |
| | Back wash (20 seconds) | OFF | ON | OFF |
| | Forward wash (20 seconds) | ON | ON | OFF |
| Remarks | <ul style="list-style-type: none"> • Above time settings can be changed, but the operation sequence cannot be changed. • Above timings are factory setting, can be reset according to user's requirements. | | | |

Typical Apartment /Residential Application

