

# CWS High Flow Ultra-Filtration System 82C



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## 1. Description

LITREE Wall-mounted Double-Star (LU3A1-82C) based on the parallel connection of two sets of UF filters, accompanied with microcomputer controller and pressure tank, realized automatically feed-in, discharge, forward wash and back wash.

## 2. Applications

To satisfy the water purification demands of high flux whole house and commercial / catering industry such as restaurants, coffer bars, airports, small food processing facilities and offices.

## 3. Product Features

- Removes bacteria, colloid, rust, microorganism and other impurities; keep mineral matters and trace elements; the purified water quality meets the drinking water standards.
- 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.
- Remains manually washing function, do manually washing upon operation situation.
- Washing frequency can be adjusted freely.

## 4. Product Specifications

### 4.1 Components

Controller part – Microcomputer

Filtration part – LITREE UF filter

Backwash part – Pressure tank

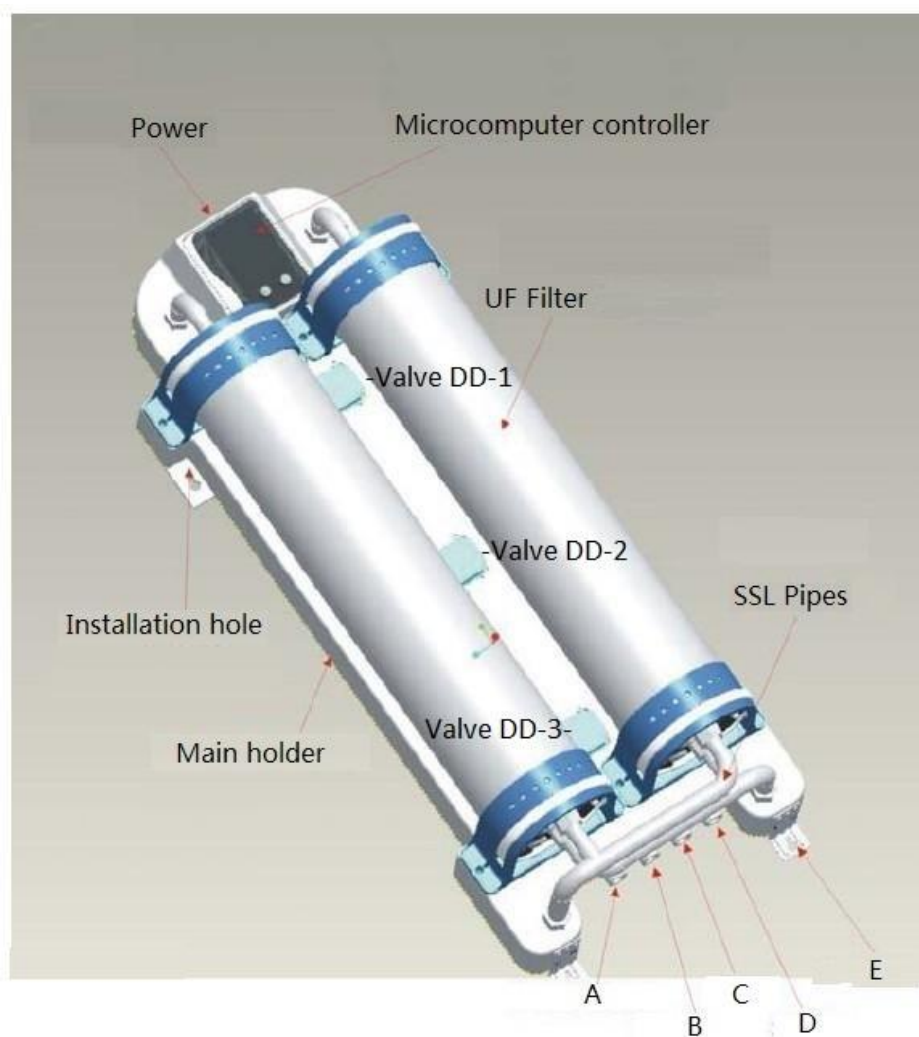
### 4.2 Specifications

	<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

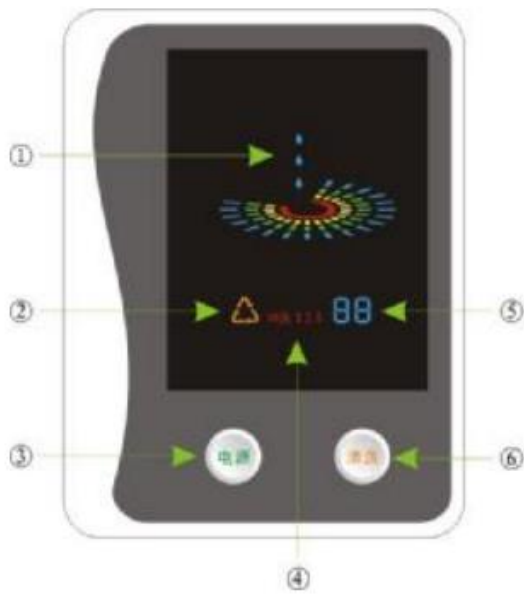
Technical part	Design flux	4000 L/h
	Operation pressure	0.8~3.5 bar
	Water temperature	5~45 °C
	Connector size	G3/4
	Dimensions	423*247*1060 mm
	Weight	≤37 kg
	Installation requirements	Floor drain, AC 220V/50Hz
	Energy consumption	≤15W

## 5. Product Structure



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

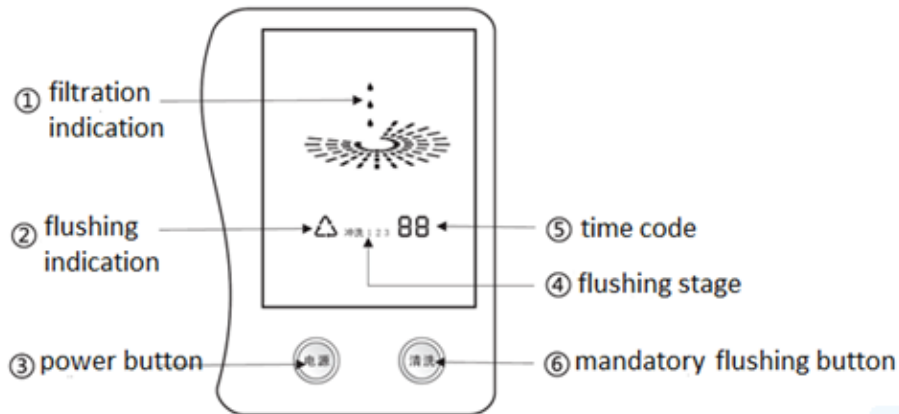
## 6. Controller Panel



- 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:

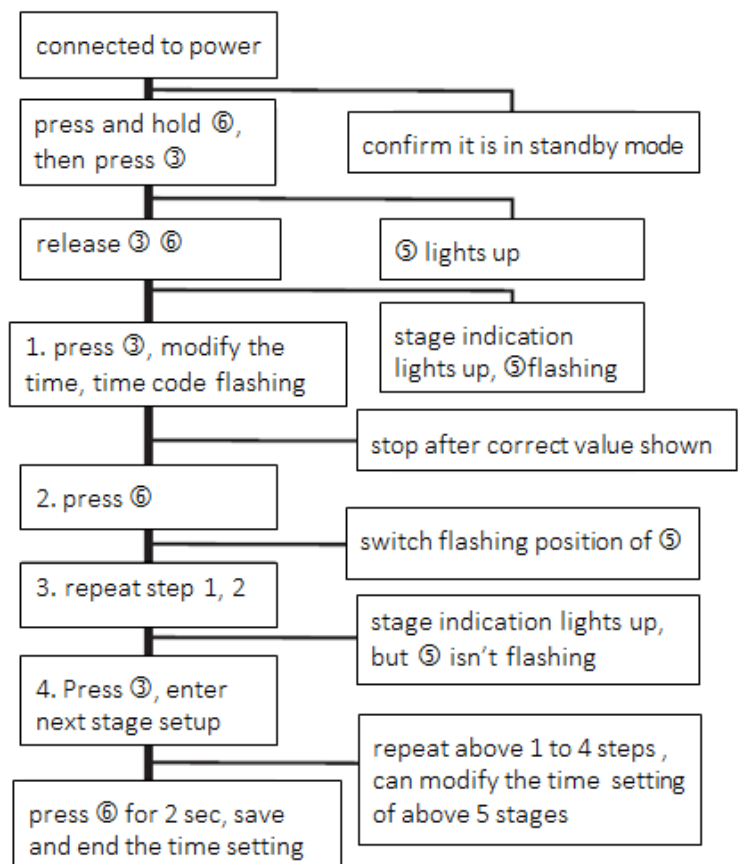
The time of water producing, water storing, back washing, forward washing can be modified.

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).

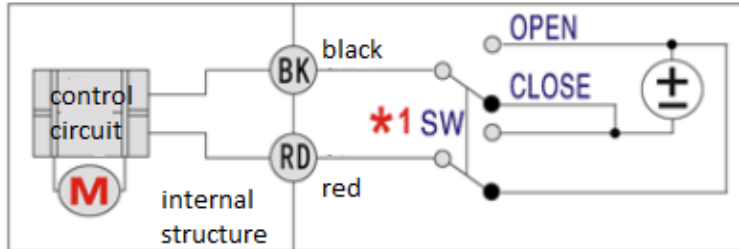
The corresponding status shown on the panel:

“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.

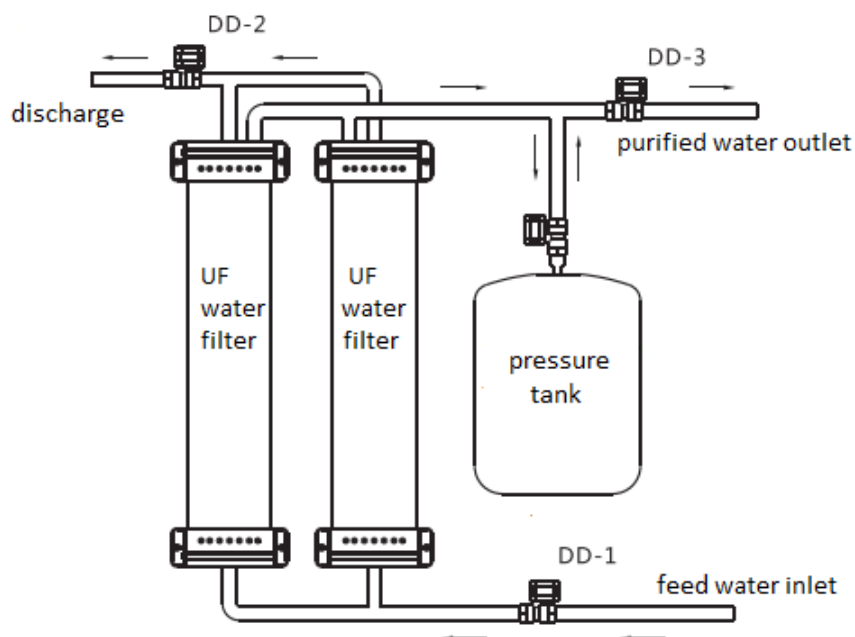
## 9. Working Process

### 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"> <li>• Above time settings can be changed, but the operation sequence cannot be changed.</li> <li>• Above timings are factory setting, can be reset according to user's requirements.</li> </ul>			

## 10. References

### Domestic



(Home / Apartment Installation)