Intelligent Vehicle Water Dispenser Instruction
Power-ON: Slide the power switch to the right side.
Power-OFF: Slide the power switch to the left side, it will be turn off 80 seconds later.
Standby Mode: P and N light on. No operation for 10 minutes, the device will automatically switch into energy-saving mode.
Heating Button: Starts/stop heating.
Lamp H represents heating, water can be collected when Lamp H is off. Lamp N means water temperature meets the target temperature.
Chilled Water Button: Switch to chilled water mode (Chilled water tank is required). Car enviroment temperature is displayed; W and P light on.
Outlet Button: Pump water by pressing this button manually.

Water collection:
1, Infrared Sensing mode: Inserted cup (NO TRANSPARENT CUP) into infrared sensing groove, system will release water automatically through infrared sensor.
2, Manual Key-pressing mode: Press outlet button to collect water. Release outlet button to stop the water.

Hot water:
1, Press heating button
2, Water can be collected when Lamp H is off.
3, After water collection, press heating key, then water is filled and heating continues.

Chilled water:
1, Place ice in Chilled Water Tank, make sure there is at lest 50% water in the tank.
2, Press chilled water button
3, Lamp W on, screen showing car enviroment temperature.
4, Water collected now is of chilled temperature inside chilled water tank without being heated.
E0: Check whether the joint is firm between control box and host box.
E1: Water temperature sensor or heating pipe may be damaged. Dispenser has to be returned to factory for repair.
E2: Check any battery power-lack, wire virtual connection or overlength of power line (when power line is longer than 5m, voltage will drop).
E3: Check water storage inside container, any constriction or kinks in the water pipes.
E4: Check all hose joints to ensure no leakage.
EE: Switch the power off and wait for the system to shut down completely (approx. 80 seconds). Repeat this process twice. If the problem still exists, then proceed to clean the water container.
E7: Check whether the host box is installed incorrectly causing a low water level.
E8: Check any constriction or blockage of windpipe.

No water output for infrared sensing mode--- clean all water left around infrared outlet of control box before turning power off. Then infrared outlet will be back to normal after turning power on again. If infrared outlet still doesn’t work, the infrared electric circuit may be damaged and please send the machine for replacement.

No reaction from control box ---Disconnect host box power line, then connect it again. Turn off control box and wait until the system has totally shut down, then restart it again.

No heating--- Lamp H off and Lamp N on without heating during heating process, check any virtual connection between power lines and fuses.

Note: normally, all above failures can be solved by restarting its operation.
**Technical parameter:**

Volume:
Controller: 238 x 165 x 76 mm
Dispenser: 97 x 61 x 54 mm
Working voltage:
12V DC

Power of the whole machine:
12V: maximum power is 180W; (heating)
Standby mode (no heating) the power is too low to be counted.
Maximum heating temperature: 100 °C
Heating water volume for single heating is not less than 400ml
The highest water output temperature: less than 90 °C (varied by environment temperature and pipe length of control box)

Water safety: having been tested by the National Center for Disease Control and Prevention, all parts connecting with drinking water are proved to be in line with international food hygiene Standard.

**Packing list:**

Please confirm all the components below is provided after opening the package:
1, one control box (including 1.5 m spiral line, 1.5 m transparent silica tube)
2, one host box
3, one of 3m transparent water pipes and one of 3m transparent windpipe
4, one 3m double-thread power line
5, one magnet block
6, one plastic accessory bag (6 bands, 2 OT terminals, 1 connecting terminals, 2 water connectors)
7, two bucket plugs (one for 18.9L and one for 4L)
8, one fuse connecting line (including 30A inserting piece)
9, one bucket fixing belt
10, one copy of product instruction

**WARNING:**
Drivers are prohibited to use dispenser when they are driving.

**NOTE**
Do not over-collect water in case water overflowing from cup and scald skin.
Do not soak infrared sensor into water. If the water output discontinued, press any button.
Please turn dispenser off to save energy when it is not needed within 24 hours.
Chilled Water tank is an optional product which needs to be ordered separately.
Installation Instructions for Super Intelligent Hot Water System

Before the first installation and utilization, please read these instructions carefully.

1. The amount of water to be heated is 450ml each time. This is approximately 2 cups.

2. The system requires absolutely clear “un-pinched” lines to operate. If any of the water lines are blocked or pinched in any way, the system will not work.

3. The system “pumps” water from the container to the heating controller. It is heated and then it is pumped to the head unit. Once it reaches 100 degrees C, the heater turns off to save power. After a short period of time, any water still in the supply line to the dispenser is pumped back to the heating controller so that no mid-temperature water is present.

4. Water-shortage prompt
When there is little water left in container or heating controller or if there is lack of water because water pipes are squeezed, then a buzzer starts to alarm and screen shows “ E3” alarm.

5. Water storage withdrawing
When water temperature drops under 20°C naturally or after 4 hours of no use, the smart chip will withdraw all remaining water in heating controller and pipeline to the container within 30-40 seconds. This is to avoid any build up of bacteria.

6. Real-time temperature display
Users can observe the water temperature at any time from the digital display on the dispensing head. This lets you choose the temperature to dispense at up to 100 degrees C.

7. Scald prevention
The moment the cup leaves the infrared groove of dispensing head, the peristaltic pump will reverse instantly and withdraw hot water left inside outlet and pipeline to the heating controller. This protects users from scalding if remaining hot water inside outlet leaked out. It also eliminates any issue of hot water at the dash of a car.

8 Heating Time
This depends on the ambient temperature of the water. At a nominal 20 degrees c, it will take about minutes to heat 450ml water at environment temperature to 100°C. It only takes 7 minutes to heat new-added water after preheating.

9. Hygiene to an international standard
The medical peristaltic pump, inner circulating double-route water and gas pipeline design assures you that only water, container and pipes are in contact, efficiently preventing water exposing to dust and the environment.

10. Electrical system design
The power supply is 12V (Note not 24V but 12V). This is the common car battery power supply. The unit uses 15+ amps when heating. Therefore at least a 25Amp fuse is required on the power circuit.

The installation kit includes a fused red power lead if required. However, if the vehicle has a high power outlet (Some 4WD’s have a 30Amp power outlet in the vehicle) then just connect straight into that outlet.
If there isn’t a high power outlet, then an auto electrician can install one for you. But please wire this so that it is un-powered when the ignition is turned off so it doesn’t flatten the battery.

The unit has “low voltage” power protection. If the vehicle voltage drops below 12V, then the system will not operate.

Simple Installation

1. Place the heating controller under the seat or in an easy length from the dispensing head. Make sure THE CONNECTING LINE TO THE DISPENSING HEAD IS NOT PULL TIGHT NOR PINCHED IN ANY WAY.
2. Make sure the heating controller is flat: horizontal and placed **with label upward**.
3. Connect the dispensing head electrical connector and the water tube to outlet “A” on the heating controller. Secure the water connector with the small plastic hose ties after fitting.
4. Check that the heat dissipation hole is not covered by any foreign objects and fix it after pipeline installation is completed.
5. Fixing the magent to hold the dispenser: after cleaning the position of installation, remove the tape behind the magnet fixing plate of the dispenser head, fix the sticky surface on the selected position and use the magnet fixing plate absorb control box. Note: 3M tape cannot work if it is repeatedly used. Make sure the first use works.
6. Connect the 12V power supply to the red and black power connector on the heater controller. Connect the aviation plug of power line with port D. Please use a power line $\geq 2.5\text{mm}^2$ to avoid power line voltage drop (the length of power line is within 5m)
7. The water tank can be positioned in the rear of the vehicle or behind the front seat as required. THE CONNECTING LINES TO THE WATER TANK IS NOT PULL TIGHT NOR PINCHED IN ANY WAY
8. Installing pipelines between heating controller and water container:
   1) Remove the silica gel cap of heating controller port B (water return to container) and connect to the cap connector that simply has a hole on the inside. This is NOT the connector that has the suction pipe on the inside. We call this connection point the “water vent”.
   2) Remove the silica gel cap of heating controller port C (water inlet) and connect C port tube to the end cap with the long water suction hose-pipe.
   3) Lay and hide silicone tubes along the arranged route side by side, avoid squeezing and pinching.
   4) Install the high-strength nylon band fixing plate with screws in the bag on a proper position. Adjust the band length and insert block buttons to fix water container.

9. Test after installation:
   1) check whether wiring is correct
   2) make sure that pipelines are correct and not pinched.
   3) confirm that the moment you press buttons, the corresponding indicators flash
   4) Turn the power switch of control box to ON. With digital tube displaying 888 and all indicators lighting for 1 second, the control system test is complete.
   5) “ 100” appears and the machine type shows “ 12V” or “ 24V” displaying on screen
   6) Turn on the dispenser head by sliding the top switch to “on”
   7) Dispenser is in the standby state with LED N, P and LED backlight on and a ring from buzzer. The power indicator lights—P and N are on.

10. Power-off:
   8) Turn the power switch of dispenser head to OFF: then machine starts to return water to controller and tank. LED P and N on, a short ring from buzzer, and three bars left on digital display means water withdrawal is finished.
9) 80 seconds after the water is pumped the heating controller shall switch off automatically. (no matter whether there is water on dispensing head, it will turn off only after water is pumped back.)

Buttons:
1. Heating button: the machine starts or stop heating when this key is pressed. LED H represents heating while LED N means water temperature meets the target temperature.

2. Natural water button: system is switched to ordinary-temperature state when this key is pressed. Meanwhile, environment temperature is displayed and both LED W and LED P are lit. Natural temperature water is available and heating is stopped at this time.

3. Outlet button: Water can be dispensed by holding this button. Please check cup is placed right below the outlet.

Water Dispensing:
Intelligent water dispenser will dispense in infrared sensing mode and manual key-pressing mode.
1. infrared sensing mode: the moment a cup (DO NOT USE a transparent cup) is inserted into infrared sensing groove, system will release water automatically through infrared sensor.
   Tips: leave some room in cup, otherwise, infrared may be soaked in water, leading to constant water output. If this happens, any keys can be pushed as an emergency stop function.
   Press the outlet key to collect water. Water output is stopped the moment outlet key is released or water runs out.

Hot water:
1, when heating key is pressed, water will be added automatically, and three bars shows on the screen. The temperature of water inside heating controller will be shown on screen and LED H will be on at the same time, which means the system is in heating state.
2, when water temperature rises to 100°C, the system will automatically stop. According to the start temperature, it may take about 15 minutes for the first heating and 7 minutes for continuous heating.
Water can be dispensed when LED H is off and buzzer sounds.
Water of current temperature during heating is also available and able to be collected without any operation. After water collection, press heating key, then water is filled and heating continues.
Note: on standby state or no operation for 10 minutes even there is water in heating box, the machine will automatically switch into energy-saving mode, namely, screen becomes dimmed. Water is withdrawn automatically to ensure no water is left in water container when zero-operation lasts for four hours since previous operation or when water temperature naturally drops to 20°C.
Note: please turn Dispenser off to save energy when it is not needed for next 4 hours or so.

Fault test:
1. E0 : Communication failure
   first of all, check whether the cable is firmly connected between control box and dispensing head.
   If it is firmly connected but E0 still exists please Kimberley.

2. E1: Water temperature sensor fault or no temperature rising ---it may be caused by water temperature sensor damage or heating pipe failure. Dispensing head has to be returned to Kimberley for replacement.

3. E2: High or Low voltage (voltage between 10 V to 12V and 13.5V to 15V
check any battery condition, check wired connection over length of power line (when power line is longer than 5m, voltage will drop).

4. E3: Water shortage or pipeline squeeze
check water storage inside container, Check any squeeze of water pipes

5. E4: Water leakage of Heating controller
check whether the joint is wrapped tightly without any leakage. If yes send the machine to Kimberley

6. EE: Water quality change
water level needle has memory function, recording TDS of previous water quality constantly.

When water quality changes, pressing HOT key to add water supply will cause E7 display. Then turn power off. EE will be displayed three times when machine turns on. Switch power off again now, water withdrawal will happen and the system will shut down automatically after 80 seconds; the default TDS value will back to normal when you turn on the dispensing head again.

if repeating such operation twice still doesn’t solve the problem, the TDS value of the water exceeds limit. Water container needs to be flushed. Such function is to guarantee water hygiene by testing TDS value.

7. E7: Heating Controller reverse
check whether the heating controller is installed incorrectly causing a low water level.

8. E8: Suction pipe blockage
check any squeeze or blockage of pipe.

9. No water output for infrared sensing mode
get rid of all water left around infrared outlet of heating controller before turning power off. Then infrared outlet will go back to normal after turning power on again. If infrared outlet still doesn’t work, the infrared electric circuit may be damaged and please send the machine to Kimberley.

10. No reaction from Heating controller
If black screen appears during heating process:

Diagnostic codes:
E0 Communication failure
E1 Water temperature sensor fault
E2 Excessive voltage
E3 Water shortage or pipeline squeeze
E4 Water leakage
EE Water quality change
E7 heating controller reverse
E8 Suction pipe blockage

When black screen happens, disconnect heating controller power line. Then connect it again as well as turn off heating controller and withdraw water. In 80 seconds restart it again.

11. No heating
If LED H off and LED N on without heating during heating process, check connection between power lines and fuses.
Note: normally, all above failures can be solved by resetting or corresponding operation. If problems still exist, please contact after-sale service:

Technical Data:
Volume:
H200 host box: 238 x 165 x 76 mm
Classic control box: 97 x 61 x 54 mm
Working voltage:
12V DC
Power of the whole machine:
12V: maximum power is 180W; (heating)
Standby state (no heating) the power is too low to be measured.
Maximum heating temperature: 100 DEG C
Heating water volume for single heating is not less than 400ml
The highest water output temperature: less than 90°C