Nexus CT
Point of Use
Installation Guide

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Water Solutions HONG KONG

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Technical Specifications

Dimensions:

Height: 43.5"

Width: 11.65"

Depth: 15"

Weight: 34.39 LBS

Electrical Specs:

Voltage: 115 VAC, 60 HZ

Current: 5.6 Amps

Wattage: 640

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Technology

No Leak® EZ-Fill® - Our no spill adapter for use with no spill bottle caps. Designed with patented technology to ensure that any pin-hole leaks in bottles will not cause overflow of the reservoir, avoiding expensive water damage

i-Boil - Increases the hot water temperature in the hot tank temporarily to "almost" boiling when customers need "hotter" hot water for coffee and tea brewing, soups, noodles, etc.

Accu-Temp - Proprietary dispensing system serves drinking water at the proper temperature every time

Stay-Cool - Keeps the residual water in the cold waterways chilled and ready to serve at all times

Enhanced sanitization with "SIP-Inside" - Integrates the SIP sanitization system inside the MTN water cooler and sanitizes the cold reservoir, waterways and faucets. The entire waterway system can be cleaned and refreshed daily, weekly or monthly based on customer requirements

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General Information

- Filtration units must be connected to a known potable water supply.

- Unit to be used indoors only.

- Ensure cooler is installed on a level floor.

- Do not locate cooler in direct sunlight or next to a heat source. Always maintain 4" of clearance around cooler for air circulation.

- Do not install cooler if possibility of freezing may occur.

- Cooler should always be installed within 6 feet of a power source. **Receptacle must be a three pronged ground. Never use extension cords.**

- Never transport or store cooler laying down.

Cooling & Heating Capacities

ARI Capacities (90°F Ambient Temp)	
Cooling Capacity	27 5oz cups
Heating Capacity	45 6oz cups

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Cooling & Hot Water Systems

- Compressor uses R134a refrigerant. 1.6 ounces.

- Cold water reservoir is manufactured from stainless steel.

- Cold water temperature is preset at 45°F range. Adjustments can be made on rear of cooler (slotted screw.) Turn clockwise for colder; counterclockwise for warmer (¼ turn at a time.)

- Hot water tank is 1.2 liter stainless steel with a 520 watt heat band. Temperature is controlled by non-adjustable thermostat/high limit switch. Normal hot water temp is 186°F +/- 10%.

- i-Boil feature (almost boiling) water will dispense at a temperature of approximately 194°F.

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Cold Water Dispensing

- Press "Cold" water button once to select cold function. Then press "Water" (energizes cold water pump & solenoid) to dispense water. The "Water" dispense button glows blue.

- Stay-Cool: Cold water pump turns on for 5 seconds every 30 minutes to keep water cold in the waterways and suppress algae growth.

- 15 seconds after the last button press, the system turns off the selected feature and the ring goes dark.

Cold water selector

Dispense

i-BOIL   HOT   COLD   LIGHT

Glows white

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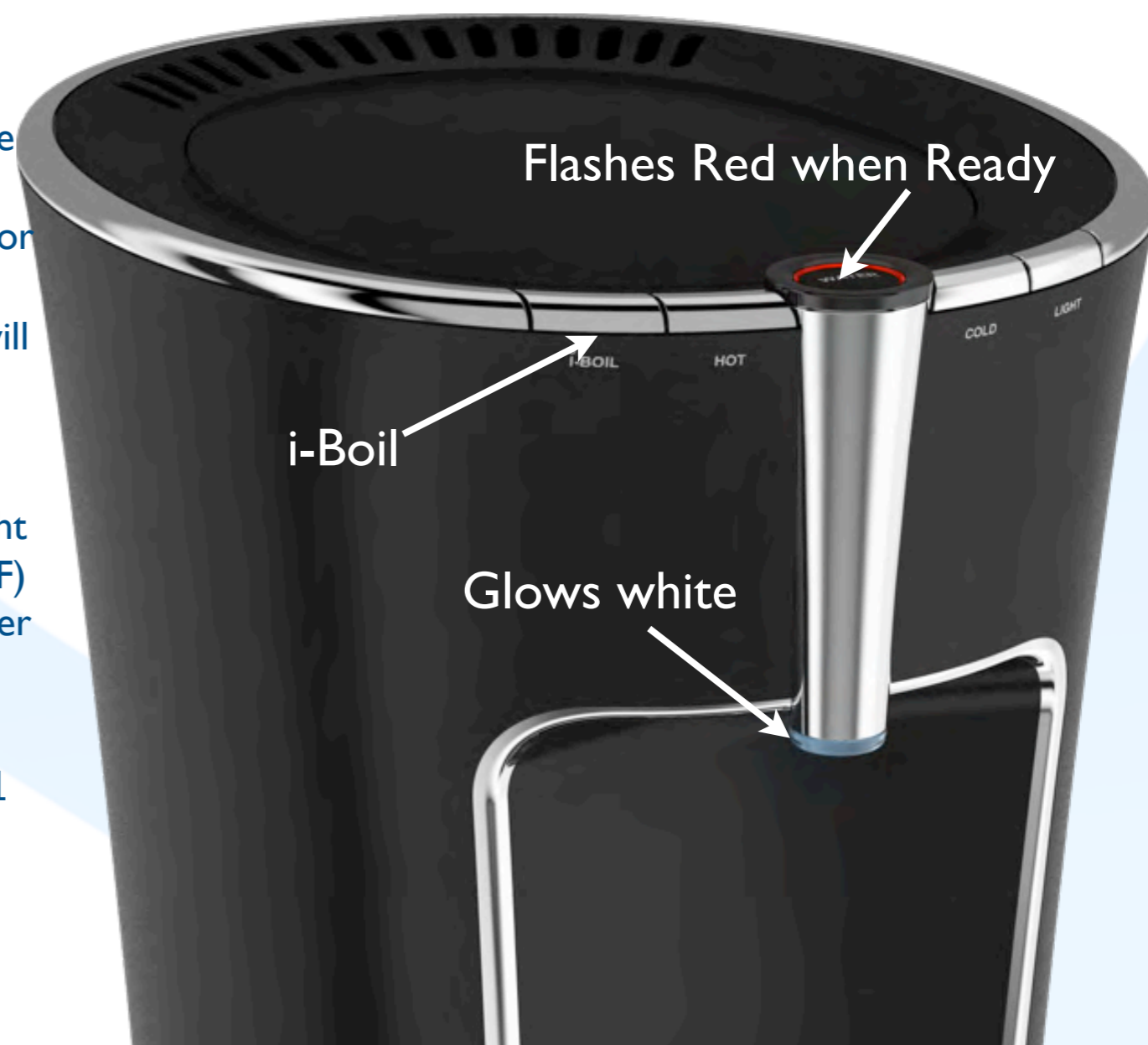
Hot Water Dispensing

- Press and hold the "Hot" water button for about 3 seconds to select hot function. Then press "Water" (energizes hot water pump & solenoid) to dispense water.

- The ring at the "Water" dispense button will glow red.

- Approximately 15 seconds after releasing the "Water" dispense button, the hot water function will lock out.

- 15 seconds after the last button press, the system turns off the selected feature and the ring goes dark.

Hot water selector

Dispense

iBoil

Glows white
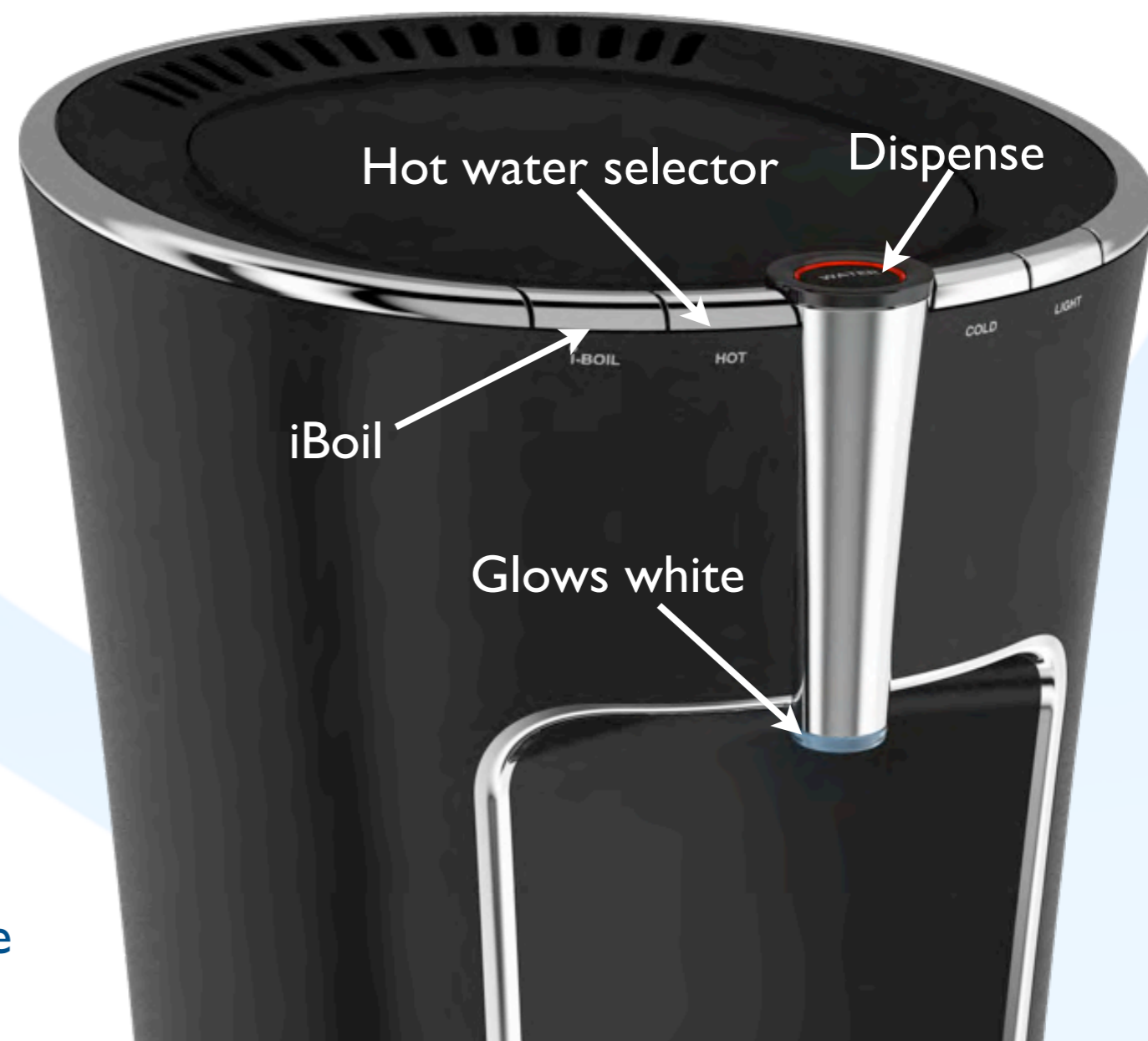
i-Boil Feature

- Provides hotter water suitable for tea, instant soups, etc.

- Press & hold i-Boil and wait for short beep (about 3 seconds.)

- Illuminated ring around "Water" button will flash Red while water is heating to i-Boil temperature. You will hear 1 long beep and the ring around "Water" button will flash "Pink" for an additional 2 minutes (if water is drawn and the water temperature in the hot tank drops below 194°F, the time will be shorter) while the water in the hot tank is at i-Boil dispensing temperature.

- To dispense, press "Hot" button for 3 seconds until the light ring turns Red (or pink if water temperature is above 194°F) again, then press the "Water" button to dispense i-Boil water

- To interrupt i-Boil feature, Press & hold i-Boil button for 1 second until you hear a short beep. Unit resumes normal operation.

Flashes Red when Ready

i-Boil

Glows white

I-BOIL   HOT   COLD   LIGHT

Light Brightness Control

Brightness Control

- Current version has two brightness settings:

  - Full

  - 50%

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Filter Access

Top lid

- Accessed via the top lid:

  - Remove the POU lid.

  - Remove the three screws from the internal lid and remove.

Remove 3 screws

Internal lid
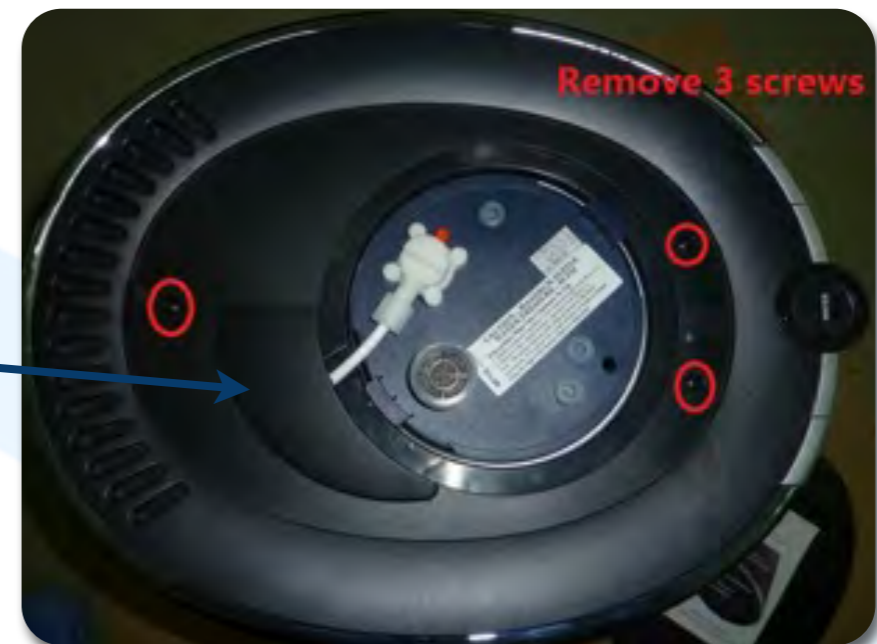
Installation

- Follow the guidelines that the manufacturer provides for filter flushing.

- Ensure installation complies with all local plumbing codes.

- Inline shutoff valves should always be used. Tag shutoff and make customer aware of location.

- Install pressure regulator prior to filter and flush water line prior to connecting to filter.

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Installation

(Continued)

- Access for installation of filtration is gained by removing the top lid and remove the three screws from the internal lid. Remove the internal lid for full access to the filter compartment.

- Bulkhead fittings for external filtration installation are provided.

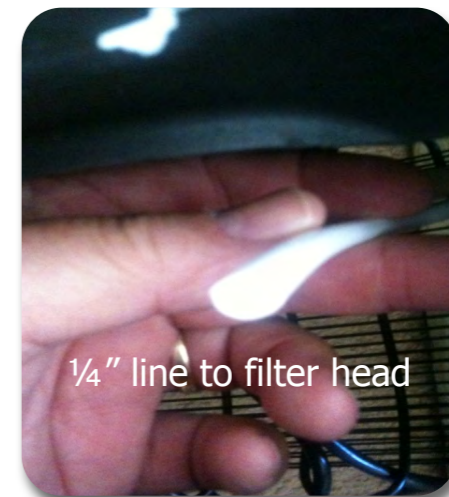- Additional fitting can be used for plumbed coffee units.

External Bulkhead fittings

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Installation

(Continued)

- Current float lid assembly is plumbed with ¼" tubing. Connect this line to the outlet of the filter head.

- Verify hot tank switch is in off position.

- Connect power.

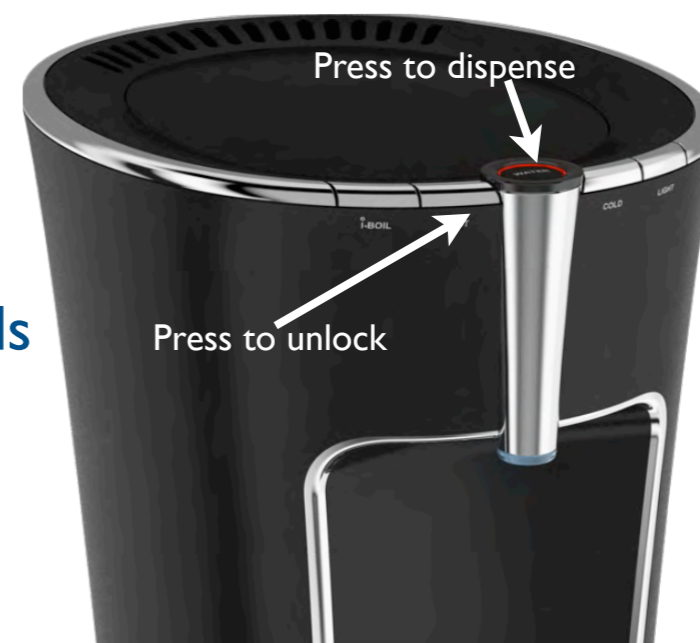- Turn on water supply to start filling cold reservoir.

¼" line to filter head

Hot tank switch

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Installation
(Continued)

- **Purge hot tank**

  - Press and hold hot water button for about 3 seconds to unlock.

  - Press the dispense button and allow hot tank reservoir to fill with water.

  - Ensure all air has been purged from hot tank.

  - Repeat above steps once.

- Turn hot tank switch on. The switch stays lit while the water is heating.

- Check installation for leaks

Press to dispense

Press to unlock

Switch is lit while heating

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SIP®

SIP component

SIP (Sanitize in Place) provides nightly cooler sanitization.

- Two Modes:

    1. Auto clean - SIP® must be programmed at the initial time of cooler installation. Refer to page 17 for programming instructions.

    2. Full clean mode. User must place a vessel that can hold minimum 4 cups of water under the dispense nozzle. Full clean is actuated by pressing and holding the white button on rear of cooler for about 3 seconds until you hear 1 beep. Release button to start.

Rear of the unit

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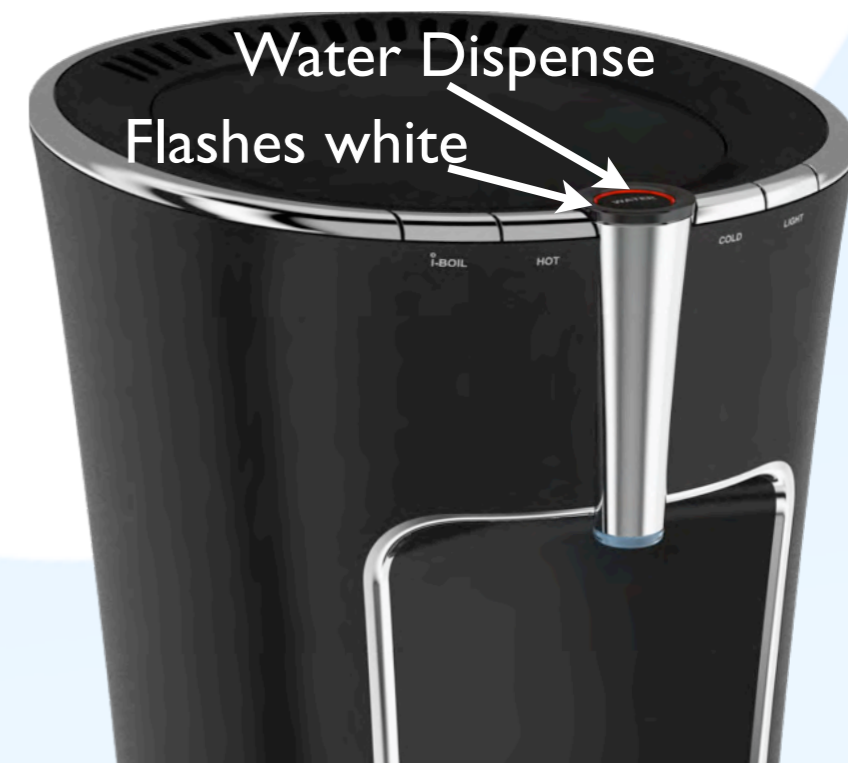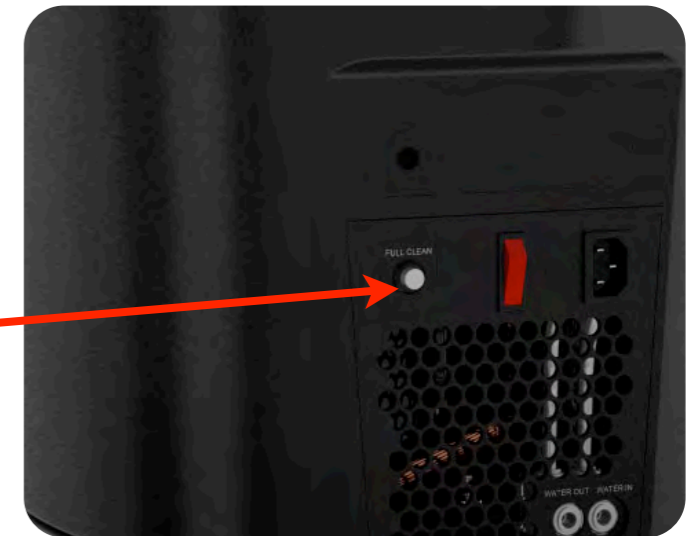Reliably Serving a Thirsty World

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SIP®

Auto Clean Setup:

1. Press and hold auto clean button on rear of cooler until 2nd beep is heard (approximately 7 seconds.) This will activate auto clean setup mode and white light on the "Water" dispense button will start to flash.

2. Press the auto clean button (X)* times (1 push of the button equals 1 hour) and then press the "Water" dispense button to accept the setting (you will hear a long beep and the white light will turn off.) System will start when (X)* hour is reached.

*Refer to next page for explanation

Water Dispense

Flashes white

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(X) Explained

- X ranges from 0 to 24. 0 means turn off SIP® mode. Example: If initial POU installation was completed at 12 noon, entering setup mode and pushing auto clean button 12 times (1 push of the button equals 1 hour) and then pressing "Water" dispense button to lock in the setting, the cooler will start Auto SIP mode at midnight.

- The system automatically exits setup mode if the water dispense button is not pressed within 15 seconds of pressing auto clean button. Pressing any other buttons other than SIP auto clean or water dispense will exit set up mode.

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Determining Auto SIP® Set Time

- On a operating unit, press the Auto Clean button once and release (less than 3 seconds). There will be a one second delay and the system will beep (Y) times. If Y=6 check current time. Example current time is 6 PM + 6 beeps indicates the system will start at 12 AM

- If cooler looses power it will retain the Auto Start time setting.

- To reset to factory default, press and hold "Hot", "Water", and "Cold" buttons simultaneously and wait for tone (about 3 seconds.) You will then hear 1 long beep indicating SIP® has been reset to factory default settings. Factory default is sets SIP® to off.

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Manual Full Clean Mode

Press button

- Place a vessel capable of holding 4 cups of water under the dispense nozzle.

- Press the Manual Full Clean button (white button located on the back of the cooler) and hold for 3 seconds until beep is heard.

- At programmed times the cooler will dispense water through the nozzle.

- Once completed the entire cold water way system will be sanitized.

Logic

- When auto SIP® starts, the compressor stops and Nexus FS will wait 30 minutes for possible ice bank in cold reservoir to melt.

- When SIP® is powered, the cold water pump will run for approximately 10 seconds every 2 minutes to circulate ozonated water through the cold water reservoir and Accu-Temp tubing and through the dispense nozzle.

- During manual full clean process, the cooler will NOT dispense water. Pressing any button will trigger 3 quick beeps.

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Troubleshooting

1. Water not dispensing: **ALWAYS VERIFY THAT UNIT IS NOT IN MANUAL OR AUTO CLEAN MODE**

    a.   Check to ensure float assembly is not tripped.

    b.   Verify cooler is connected to a working outlet.

    c.   Verify water shut off valve is in open position.

    d.   Ensure filters are not blocked.

    e.   Check to make sure solenoid and water pump are operating.

2. Warm water dispensing from cold side:

    a.   Verify usage is not exceeding GPH cooling capacity (approx. 1 GPH)

    b.   Cooler set in direct sunlight or too close to heat source.

    c.   Check cold thermostat setting. ¼ turn clockwise for colder water.

3. Water dispensing from hot mode is not hot:

    a.   Verify switch on rear of cooler is in "On" position. Switch will light up when hot control is activated.

4. Hot water is boiling:

    a.   Possible air pocket in hot tank. Dispense hot water to bleed off air pocket.

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DSW-Filtration Install Guide:pub-8.29.11:rev-9.19.11