

E6 Install & Operation Manual

Safety

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

The unit should be isolated from the electricity supply before removal of any covers. Great care must be employed when working with high pressure carbon dioxide, and in no cases should the maximum operating pressure of 0.4MPa (4 bar) be exceeded.

- The appliance is not suitable for installation in an area where a water jet could be used.
- The appliance has to be placed in a horizontal position.

WARNING: Keep ventilation openings in the appliance enclosure or in the built-in structure clear of obstruction.

WARNING: When positioning the appliance, ensure the supply cord is not trapped or damaged.

WARNING: Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.

This appliance is intended to be used in household and similar applications such as:-

- Staff kitchen areas in shops, offices and other working environments
- Farm houses and by clients in hotels, motels and other residential type environments
- Bed and breakfast type environments
- Catering and similar non-retail applications

A-weighted emission sound pressure level is below 70 dB(A)



R290

R290 is a refrigerant-grade propane used on a wide range of commercial refrigeration and air conditioning units. A highly pure propane, it has a low environmental impact and nominal global warming potential (GWP), meaning it possesses no qualities that can destroy the ozone layer. R290 also is the preferred hydrocarbon alternative of the Environmental Protection Agency (EPA), substituting more harmful fluorocarbon refrigerants like R22, R134a, R404a and R502.

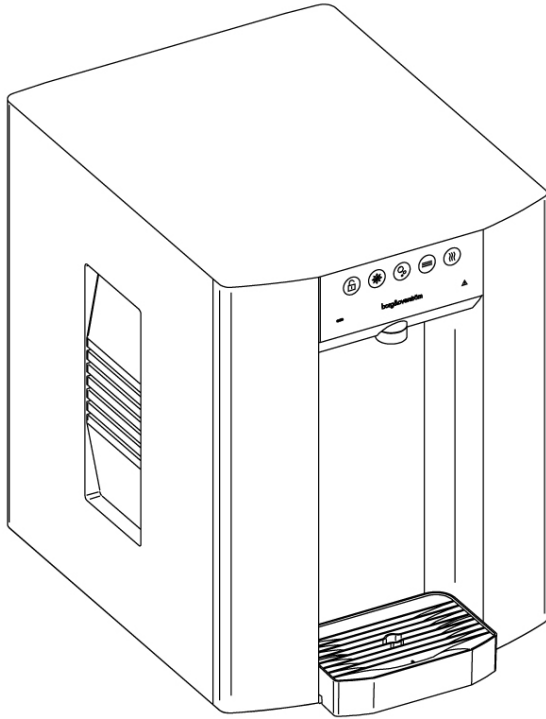
Units with R290 can only be maintained and repaired by authorized technicians who are properly trained and certified.





R600a is a refrigerant-grade propane used on a wide range of commercial refrigeration and air conditioning units. A highly pure propane, it has a low environmental impact and nominal global warming potential (GWP), meaning it possesses no qualities that can destroy the ozone layer. R600a also is the preferred hydrocarbon alternative of the Environmental Protection Agency (EPA), substituting more harmful fluorocarbon refrigerants like R22, R134a, R404a and R502.

Units with R600a can only be maintained and repaired by authorized technicians who are properly trained and certified.



- Always place the dispenser in its vertical position, on a surface which can capably support its weight.
- During use this machine must remain in its upright position.
- Adequate ventilation must be allowed for.
- Keep the machine away from sunlight, heat and moisture.
- Power and water supply points must be available near the dispenser, and must meet the criteria specified in the 'Specification' section of this manual.
- The environment where this machine is installed must be free of dust and corrosive/explosive gases.

Waste Electrical Products:

- The WEEE symbol indicates that this item contains electronic components which must be collected and disposed of separately.
- Never dispose of electrical waste in general municipal waste. Collect and dispose of such waste separately.
- Make use of the return and collection systems available to you, or your local recycling programme. Contact your local authority or place of purchase to find out what schemes are available.
- Electrical and electronic equipment contains hazardous substances which, when disposed of incorrectly, may leak into the ground. This can contribute to soil and water pollution which is hazardous to human health; and endangers wildlife.
- It is essential that consumers look to re-use or recycle electrical or electronic waste to avoid it going to landfill sites or incineration without treatment.



Specification

E6 - 230v

COOLING SYSTEM	Stainless steel direct chill coil encased in a solid-block system for instant response cool down action. Ultra efficiency compression system with capillary control. Environmentally friendly R290 refrigerant.
COLD TEMPERATURE	2°C - 11°C.
CHILLED & SPARKLING CAPACITY	50L/h
HOT TEMPERATURE	92°C
HOT CAPACITY	15L/h
MAXIMUM RUNNING POWER CONSUMPTION - CHILLED & AMBIENT	0.14kW - 230V
MAXIMUM RUNNING POWER CONSUMPTION - CHILLED, SPARKLING & AMBIENT	0.22kW - 230V
MAXIMUM RUNNING POWER CONSUMPTION - CHILLED, AMBIENT & HOT	1.5kW - 230V
MAXIMUM RUNNING POWER CONSUMPTION - CHILLED, AMBIENT, SPARKLING & HOT	1.6kW - 230V
QUANTITY OF REFRIGERATION GAS	R290a 33g
POWER SUPPLY	220V - 240V AC (50 Hz)
WATER CONNECTION	Mains in - 3/4" BSP
CO2 CONNECTION	1/4" Push Fit.
DIMENSIONS	(w x d x h) 320 x 465 x 420mm.
WEIGHT - CHILLED & AMBIENT	18Kg
WEIGHT - CHILLED, SPARKLING & AMBIENT	22Kg
WEIGHT - CHILLED, AMBIENT & HOT	20Kg
WEIGHT - CHILLED, SPARKLING, AMBIENT & HOT	23.5Kg
RATED CURRENT - CHILLED & AMBIENT	1.1A
RATED CURRENT - CHILLED, SPARKLING & AMBIENT	1.5A
RATED CURRENT - CHILLED, AMBIENT & HOT	6.5A

RATED CURRENT - CHILLED, AMBIENT, SPARKLING & HOT	7.1A
FUSE RATING	5A
MINIMUM TO MAXIMUM INLET WATER PRESSURE	0.05MPa (0.5 bar) - 1.0 MPa (10 bar) Internally regulated to 0.3 MPa (3 bar)
CO2 PRESSURE	0.4MPa (4 Bar) Maximum
MINIMUM TO MAXIMUM AMBIENT ROOM OPERATING TEMPERATURE	5°C - 35°C
CLIMATIC CLASS	N

E6 - 115v

COOLING SYSTEM	Stainless steel direct chill coil encased in a solid-block system for instant response cool down action. Ultra efficiency compression system with capillary control. Environmentally friendly R600a refrigerant.
COLD TEMPERATURE	37°F
CHILLED & SPARKLING CAPACITY	13.2 Gal/h
HOT TEMPERATURE	198°F
HOT CAPACITY	4 Gal/h
MAXIMUM RUNNING POWER CONSUMPTION - CHILLED & AMBIENT	0.11kW - 110V
MAXIMUM RUNNING POWER CONSUMPTION - CHILLED, SPARKLING & AMBIENT	0.16kW - 110V
MAXIMUM RUNNING POWER CONSUMPTION - CHILLED, AMBIENT & HOT	0.82kW - 110V
MAXIMUM RUNNING POWER CONSUMPTION - CHILLED, AMBIENT, SPARKLING & HOT	0.91kW - 110V
QUANTITY OF REFRIGERATION GAS	R600a 33g
POWER SUPPLY	110-115v AC (50Hz)
WATER CONNECTION	Mains in - 3/4" BSP
CO2 CONNECTION	1/4" Push Fit.
DIMENSIONS	(w x d x h) 12.6 x 15.7 x 16.3"
WEIGHT - CHILLED & AMBIENT	39.7lbs
WEIGHT - CHILLED, SPARKLING & AMBIENT	48.5lbs
WEIGHT - CHILLED, AMBIENT & HOT	44.1lbs
WEIGHT - CHILLED, SPARKLING, AMBIENT & HOT	51.8lbs
RATED CURRENT - CHILLED & AMBIENT	0.5A
RATED CURRENT - CHILLED, SPARKLING & AMBIENT	1.4A
RATED CURRENT - CHILLED, AMBIENT & HOT	7.4A

RATED CURRENT - CHILLED, AMBIENT, SPARKLING & HOT	8.3A
FUSE RATING	10A
MINIMUM TO MAXIMUM INLET WATER PRESSURE	0.05MPa (0.5 bar) - 145 MPa (1.0 MPa) Internally regulated to 43.5 MPa (0.36 MPa)
CO2 PRESSURE	58psi (0.4Mpa) Maximum
MINIMUM TO MAXIMUM AMBIENT ROOM OPERATING TEMPERATURE	41°F - 95°F
CLIMATIC CLASS	N

Model Overview

Introduction

Hygienic and ergonomic, E6 flourishes in all environments – from boardroom to sports hall. Its compact size, large dispense area for bottles, multiple water options and flexible configuration.

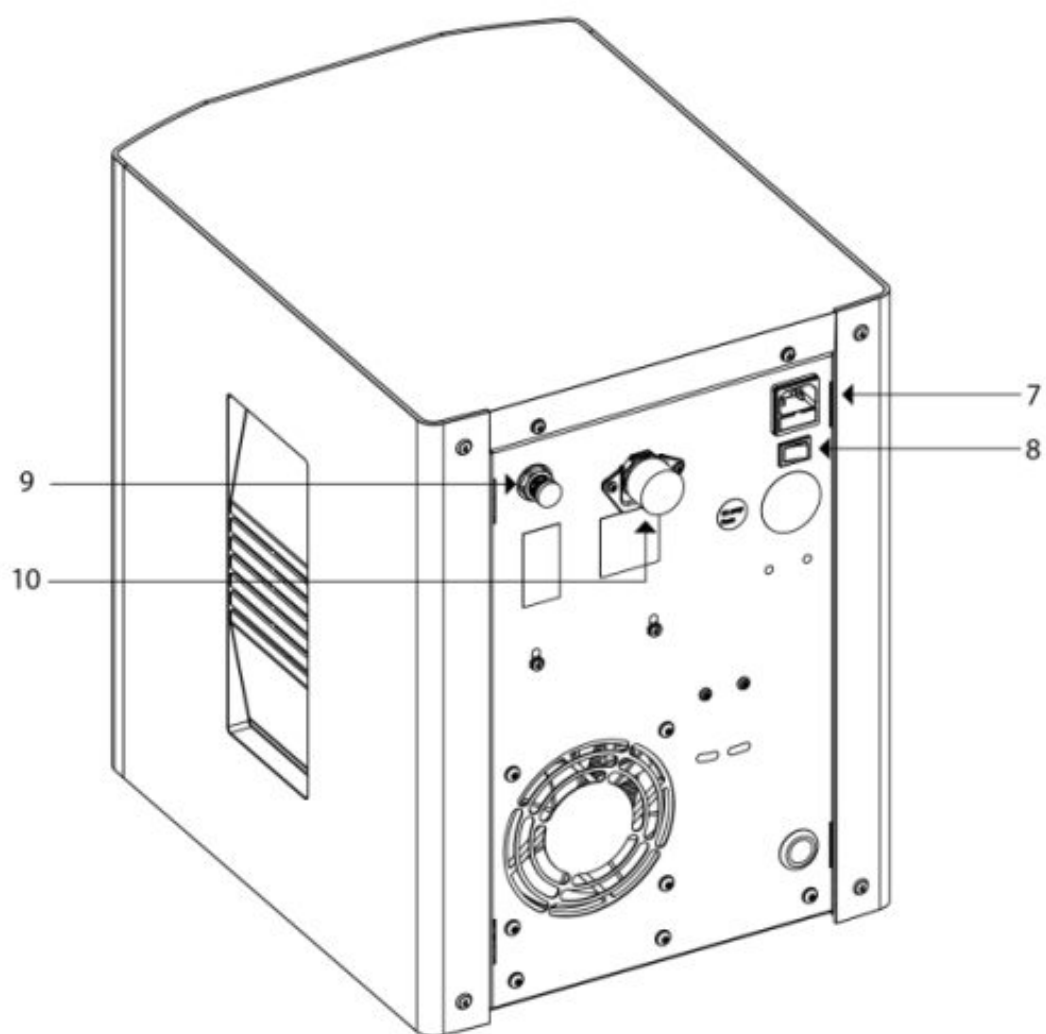
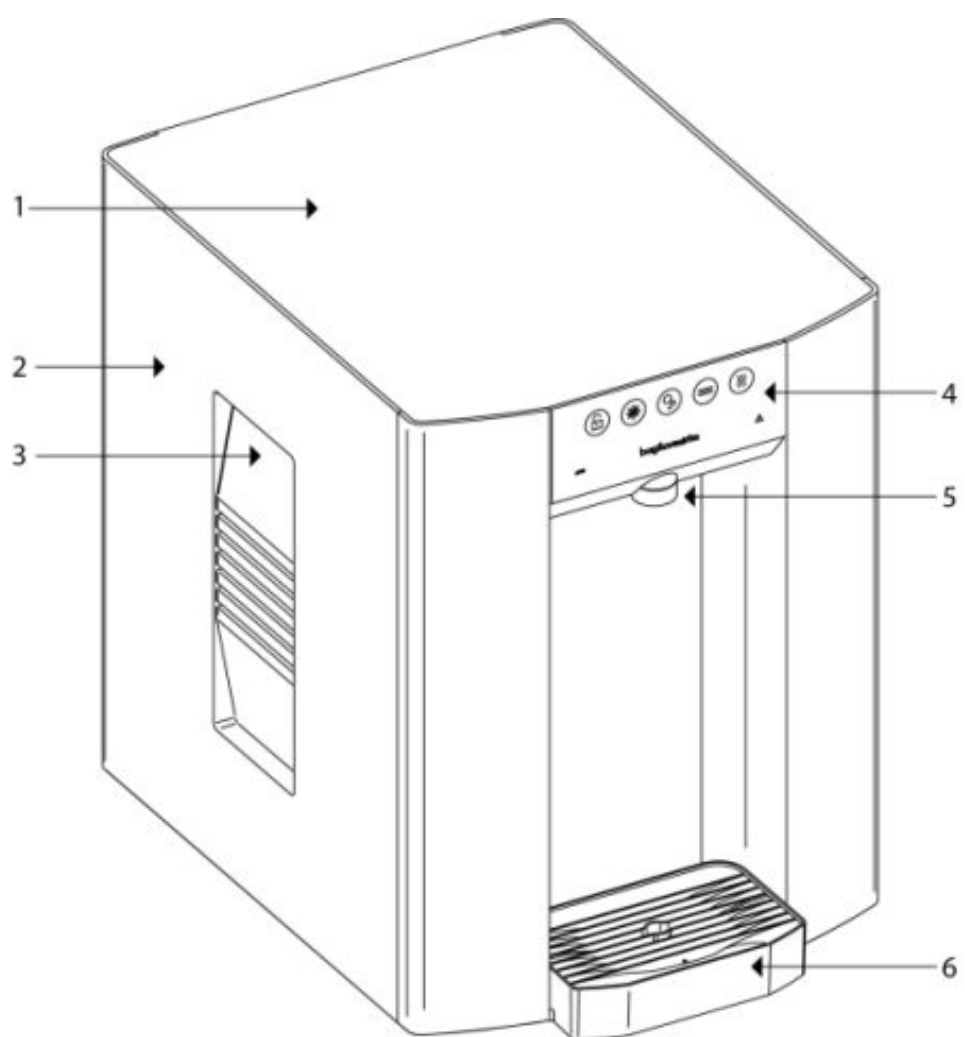
The E6 features a control panel designed for immaculate hygiene. Completely flush with no intricate buttons to harbour germs and contaminants, the touch sensitive console delivers instant high-quality chilled, ambient, hot and sparkling water.

Component/Feature Overview

E6 - Major Components

Contents:

- 1 no E6 Unit
- 1 no 2.0m Power Cord Set
- 1 no Warranty Card



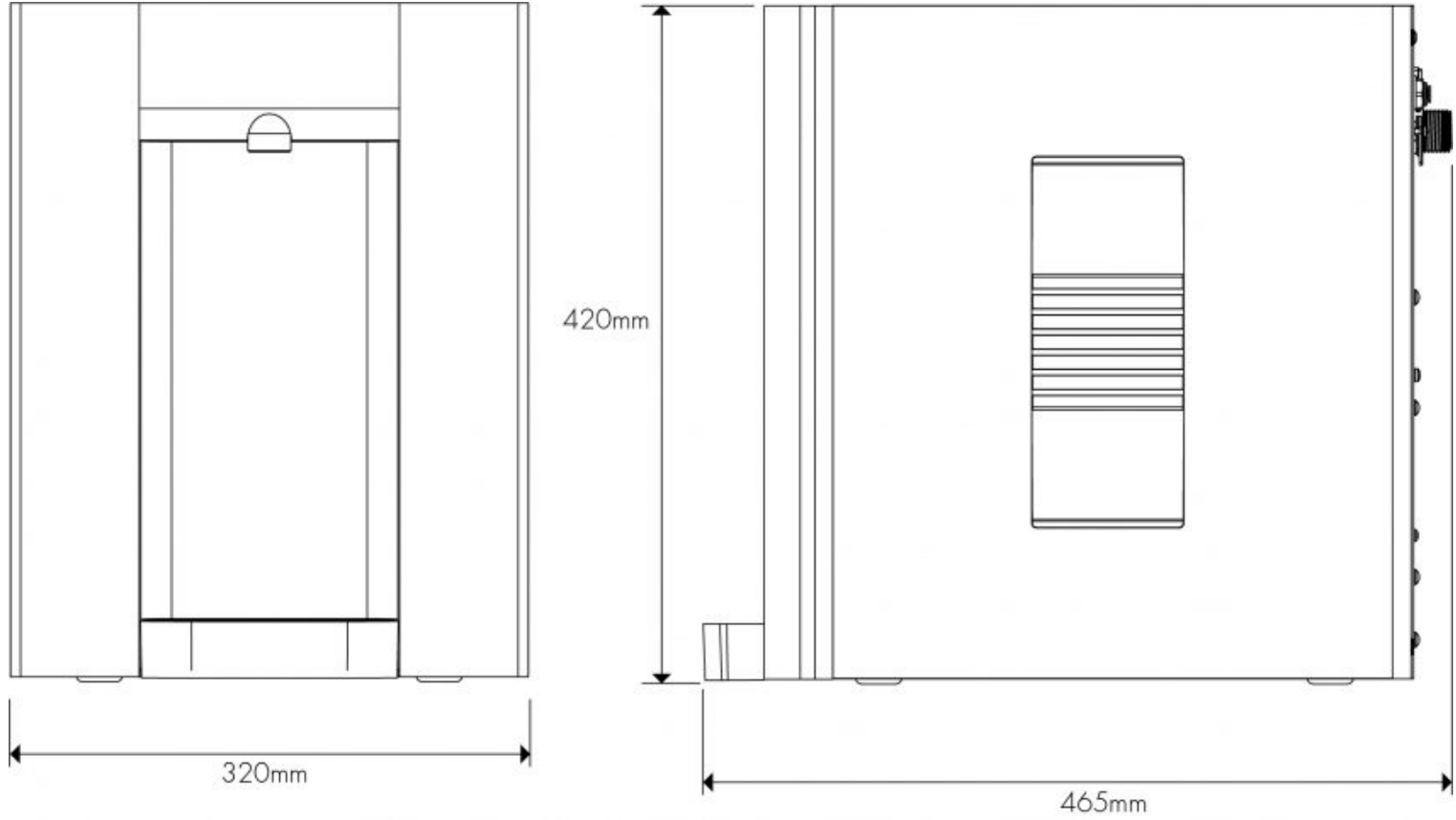
1. Unit Lid, 2. Side Panel, 3. Carry Handle, 4. Control Panel, 5. Dispense Outlet, 6. Drip Tray, 7. Power Connection, 8. On/Off Switch, 9. CO2 Inlet*, 10. Water Inlet

Please Note:

Mains Installation Kit & Filters are supplied as extra items according to individual ordering requirement.

*Sparkling versions only

Dimensions



Installation

Installation Requirements

Identify a suitable location for the E6 unit. It should be positioned within 2.0m of suitable services connections. Allow 15cm of free space at the rear for ventilation.

The E6 unit must be installed in accordance with the relevant requirements of:

- The appropriate building regulations by application of either The Building Regulations (England and Wales), The Building Regulations (Scotland) or The Building Regulations (Northern Ireland). In territories other than those listed the local regulations in force must be complied with.
- The Water Supply (Water Fittings) Regulations (England, Wales and Northern Ireland) or The Water Byelaws in Scotland.

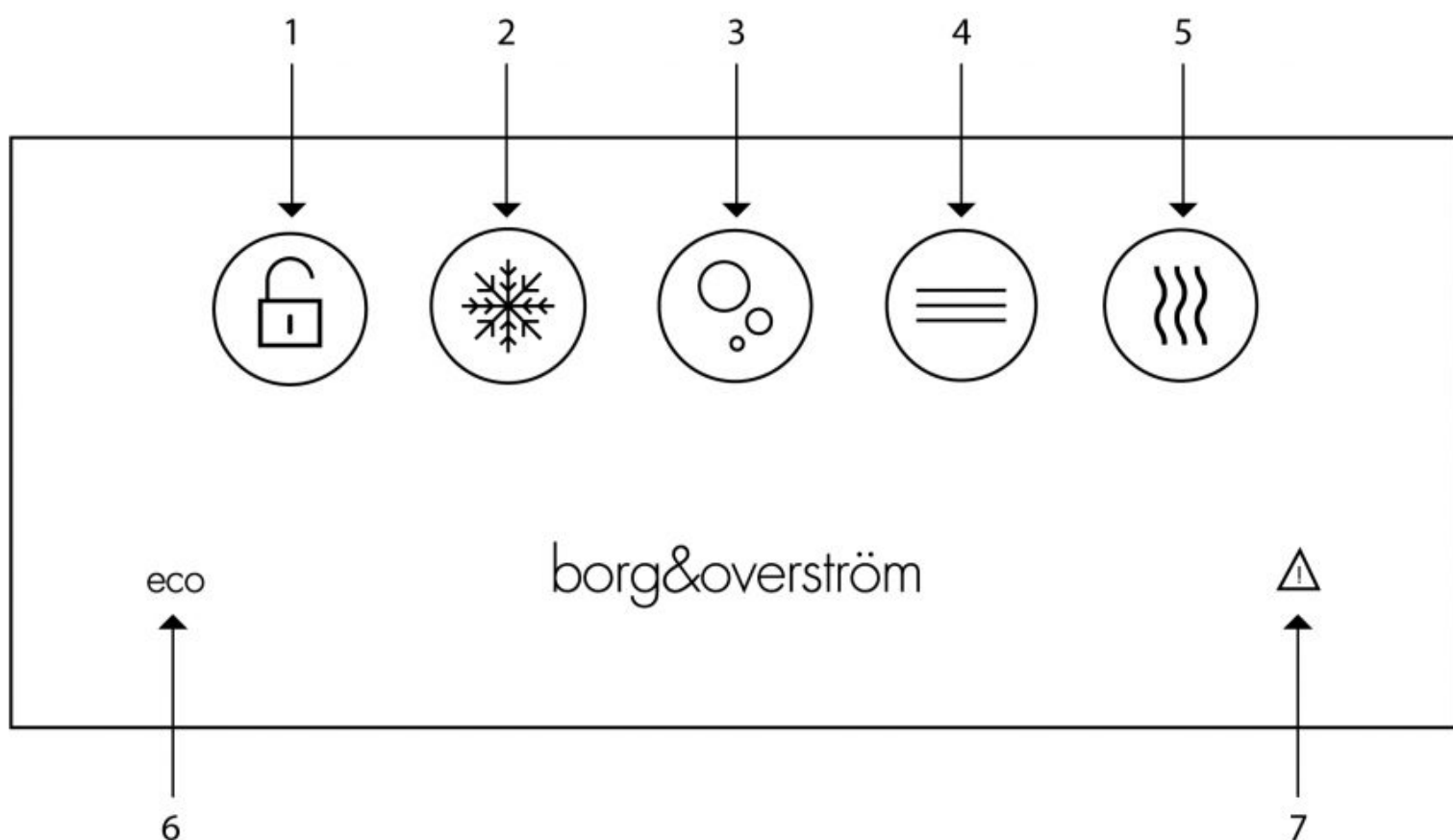
The unit must not be installed where it is liable to freeze. If the unit is thought to be frozen it must not be switched on. It should be allowed to thaw and must then be thoroughly inspected to ensure it is undamaged.

Service Requirements

- Water: Mains potable water – internally regulated to 0.2MPa (2 bar)
- CO2: Food Grade CO2 to be supplied
- Min mains pressure 0.05MPa (0.5 bar)
- Electricity: 10A supply – Earth Leakage Protected

Operation

Tap Control Panel



1. Unlock Button (commissioning mode), 2. Chilled Dispense, 3. Sparkling Dispense, 4. Ambient Dispense, 5. Hot Dispense
6. 'eco' Mode Symbol 7. Warning Symbol.

Basic Functions

Dispensing cold water from unit:

Press and hold dispense icon and release to finish dispense

- Chilled icon flashing – Dry Block is above 10 degrees and chilling down

Dispensing hot water from unit:

Press the unlock icon and then press and hold the hot button to dispense.

- Hot icon flashing – Hot tank is below 80 degrees and heating up

'eco' Mode:

'eco' mode symbol illuminates when unit is in 'eco' mode, to awaken unit press and hold any dispense icon. The ProCore will activate 'eco' mode in the below instances:

Dispense inactivity
Low room light level

To turn on/off eco mode tap the chilled icon 7 times and hold on the 7th. 2 beeps will indicate Eco is on and 1 beep will mean Eco is off.

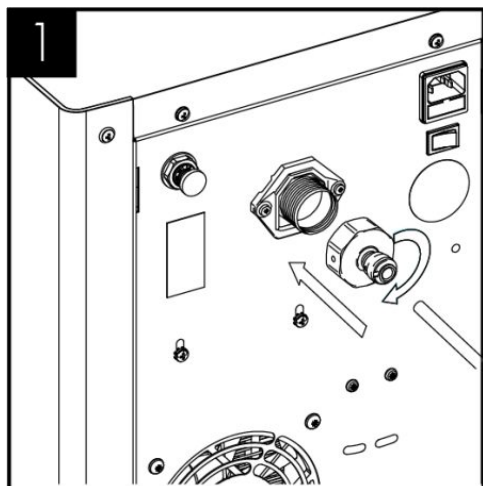
Warning Symbol

'Warning triangle' symbol will illuminate and flash upon a fault. The number of flashes relates to a particular fault. [Click to view fault codes](#)

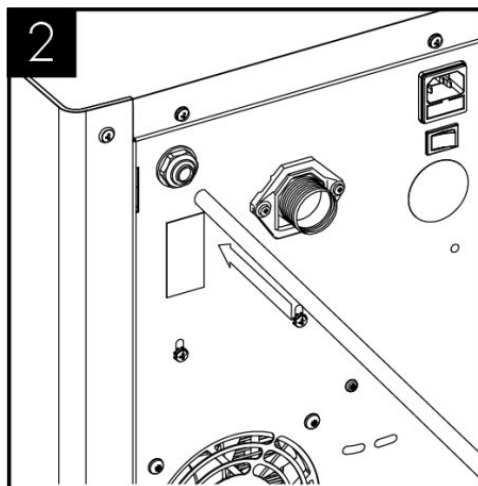
Advanced functions

Hold 'Hot Unlock Icon' for 10 seconds for decommissioning and commissioning.

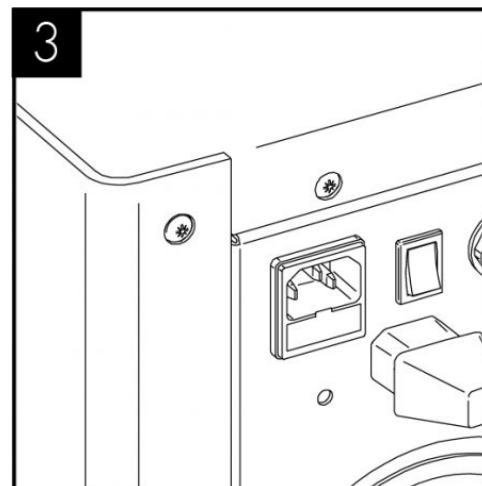
E6 Installation & Water Connection



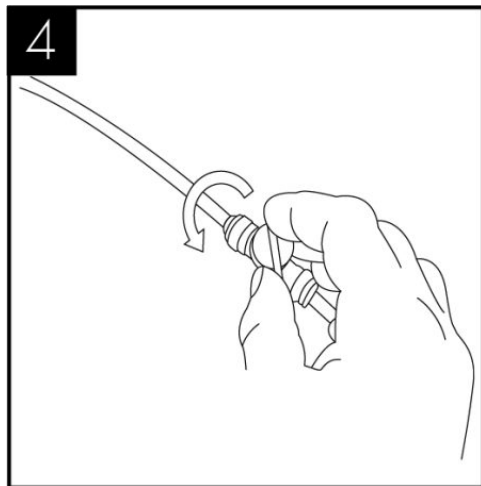
Connect the water inlet adapter as supplied and connect to the water supply.



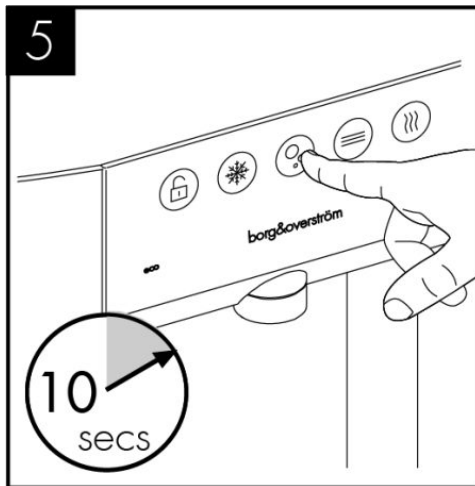
Connect the CO2 supply from gas regulator, ensuring the pressure is set to max 58 PSI (4 bar), and turn on the supply (See CO2 Installation section).



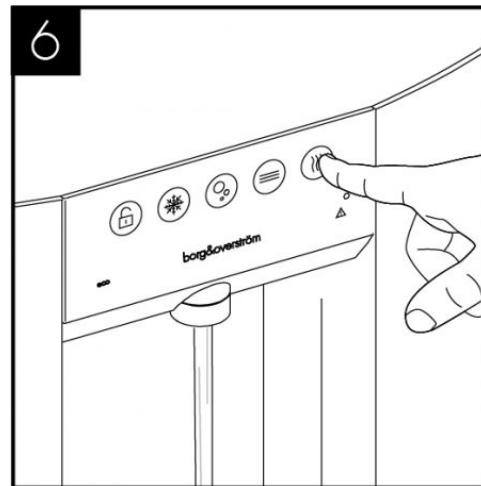
Connect the chiller to the electricity supply and ensure unit is switched on.



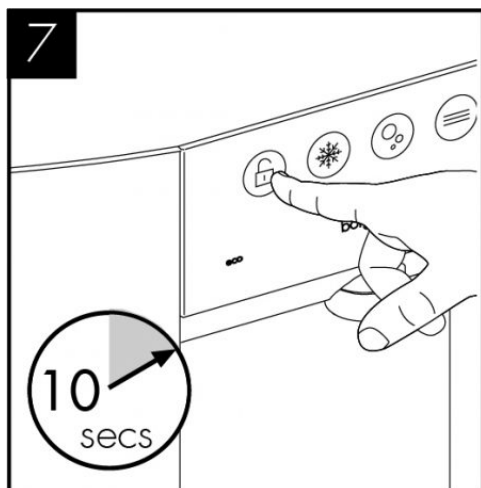
Turn on the water supply.



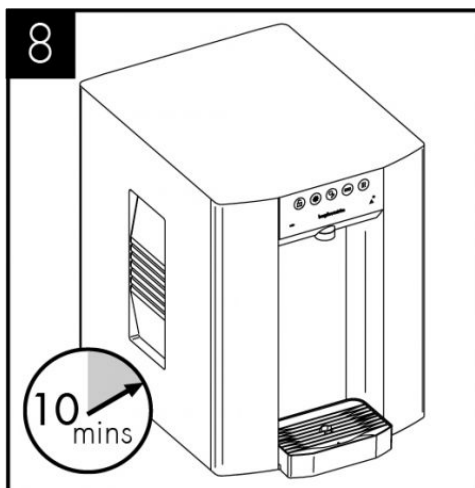
The carbonator should be purged of air by activating the sparkling water dispense for approximately 10 seconds.



The hot versions will be in commissioning mode which stops the unit from running only allowing dispensing.
With hot water versions fill the hot tank until you see water dispense.

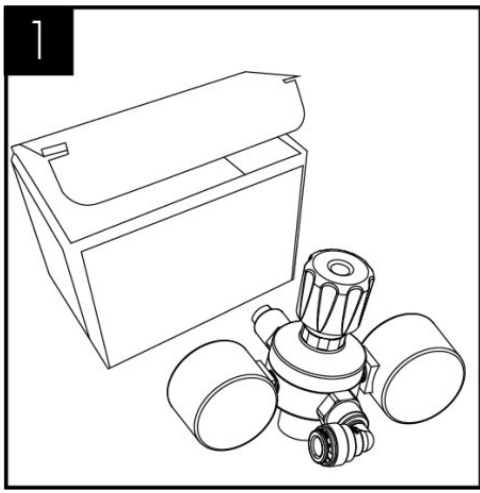


Press the lock symbol for 10 seconds to take the unit out of commissioning mode and the LED's and display will change.

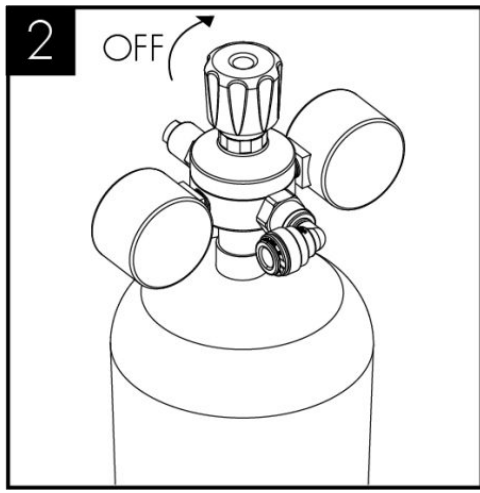


Allow the machine to stand for 8 - 12 minutes for the initial chilling process to complete.

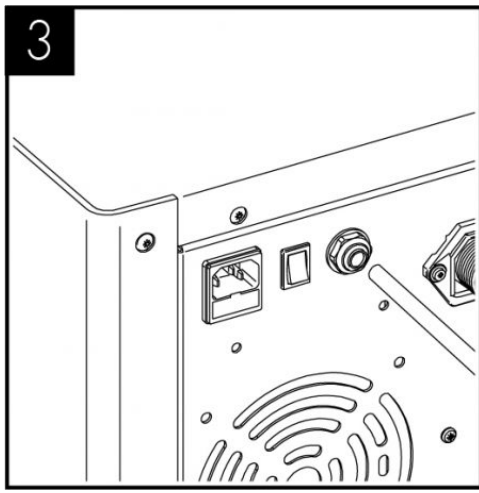
CO2 Bottle Installation - Sparkling Versions Only



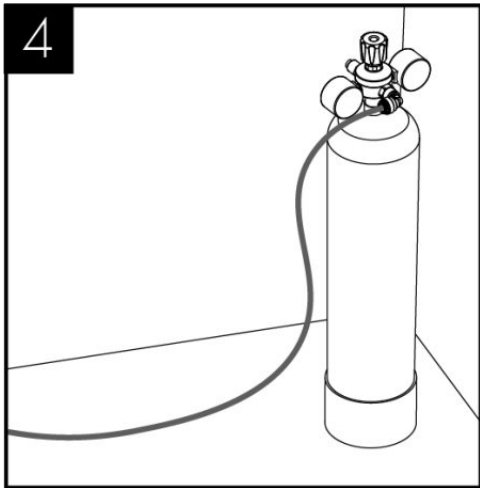
1 Unpack CO2 Regulator and fit elbow fitting to spigot outlet.



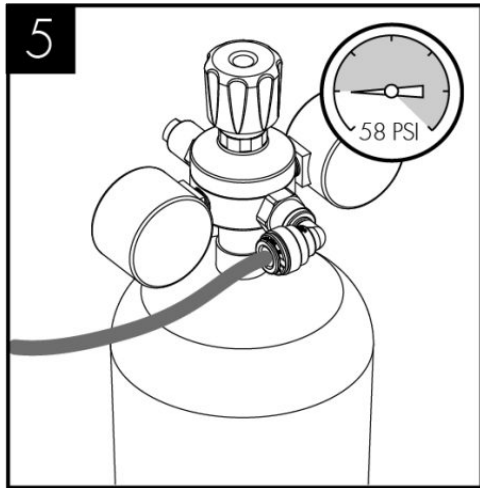
2 Attach the regulator to the disposable CO2 bottle, ensuring the small pressure relief vent in the stem is facing away from you or anyone else. Ensure the regulator is closed. Hand tighten securely.



3 Connect the assembled CO2 bottle and regulator to the CO2 inlet using a 1/4" pipe.



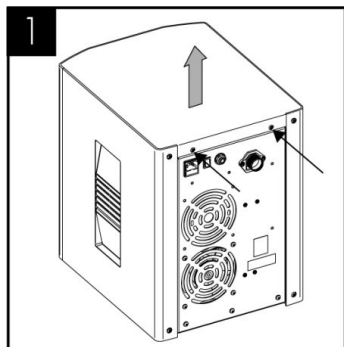
4 Stand the cylinder in a suitable place.



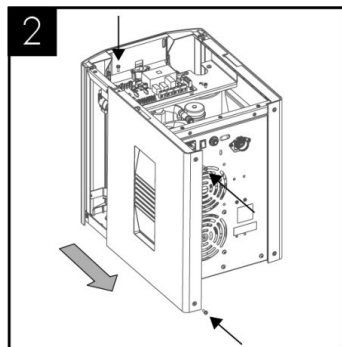
5 We recommend between 3.5 - 4 bar (58 PSI) (max). Do not exceed 4 bar pressure.

Sparkling Water Flow Rate - Sparkling Versions Only

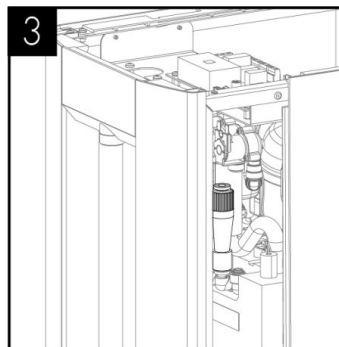
NOTE: Sparkling water flow rate factory setting = 2.4L per minute MAX. This may need adjusting depending on inlet pressure. To do so follow below steps:



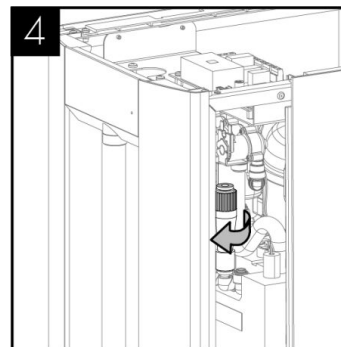
Remove the 2 screws holding the unit lid down and slide the lid off.



Remove the right hand side panel screws. 2 screws are located at the back and one on top. Then slide the panel back to gain access to the flow controller.



Locate the flow control adjuster, this is towards the front of the unit.



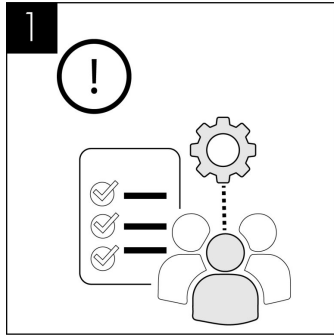
Flow can then be adjusted as follows: turning the cap anti-clockwise to increase flow and clockwise to restrict flow. After each adjustment the flow rate should be timed to an acceptable flow rate and/or uninterrupted sparkling dispense.

Once the correct flow rate is achieved place the cover back on to the unit by sliding it in place and replacing the screws.

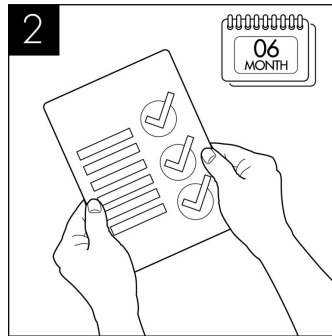
Maintenance & Cleaning

Sanitisation Guide

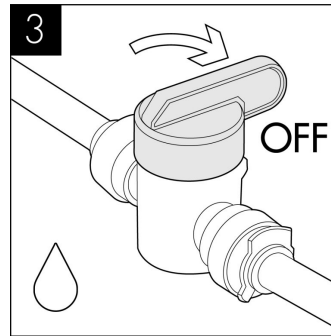
NOTE: Failure to use sanitising products and processes approved by Borg & Overström will invalidate your warranty.



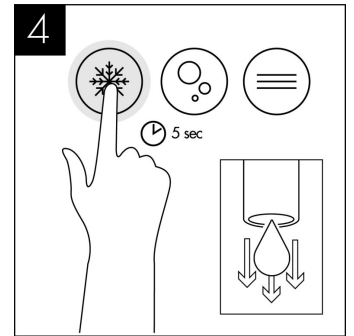
This operation must only be carried out by trained staff.



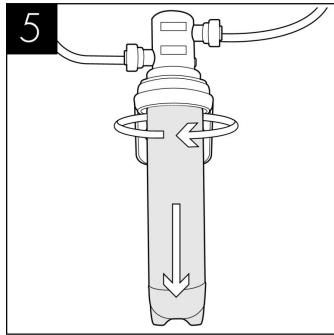
A sanitisation procedure is recommended every 6 months.



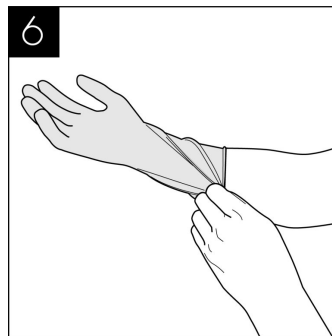
Turn off incoming mains water



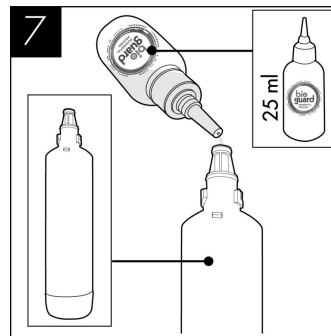
Briefly press chilled dispense button to release internal water pressure from the machine.



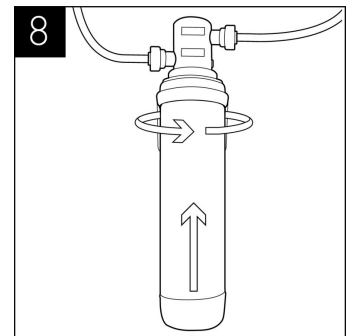
Remove the existing filter



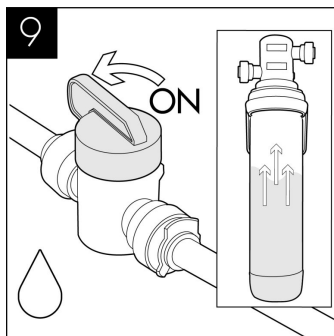
Use hand gel and put on protective gloves.



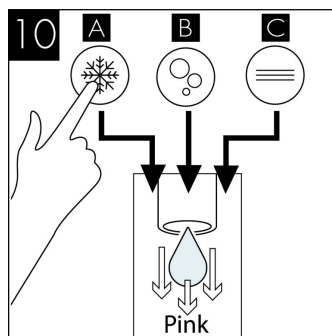
Add 25 ml of Bioguard Internal Sanitising Solution to a clean and empty service filter cartridge.



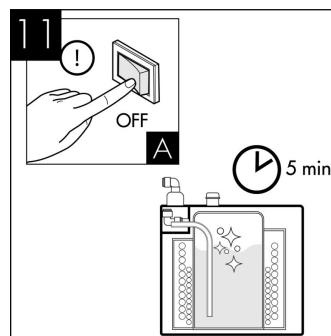
Connect to filter head.



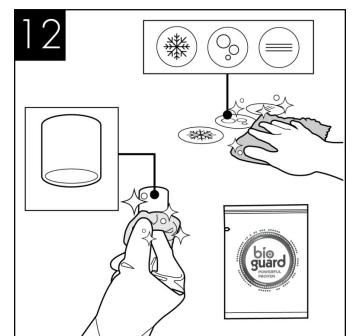
Turn on incoming water, allow the service filter cartridge to fill



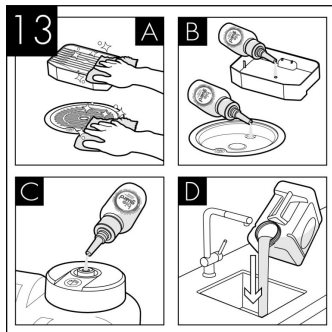
Dispense water using the chilled button until the water appears pink. Repeat with sparkling & ambient water buttons.



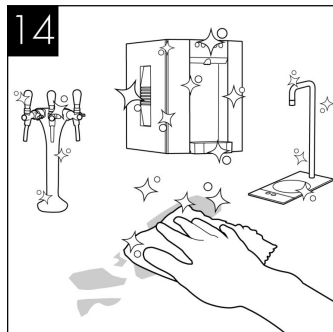
Leave the solution inside machine for sanitisation to take effect (minimum 5 minutes) while thoroughly cleaning the dispenser externally. (All maintenance operations must be carried out with the dispenser switched off.)



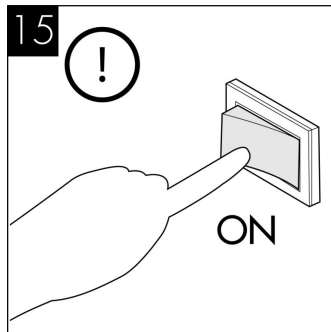
Pay particular attention to the dispense faucet and the push button controls. For this use Sterizen External Sanitiser and Sanitising Wipes.



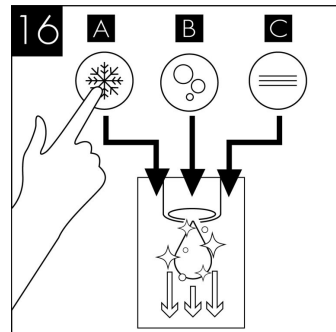
Remember to include the drip tray. If a Waste Overflow System is fitted, empty this and flush through with a small amount of sanitisation fluid if needed.



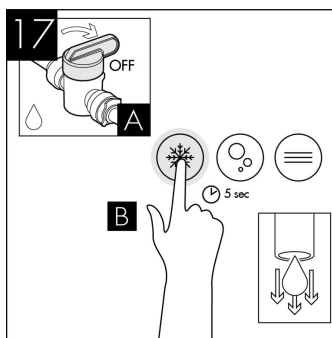
Attend to any cosmetic marks as needed. For this we recommend the use of Bioguard External Sanitiser.



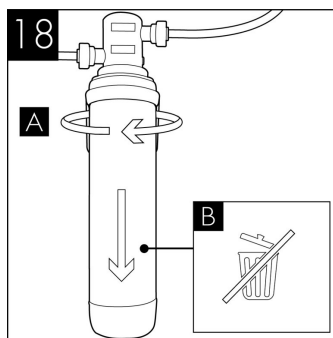
Reconnect the power and switch on the dispenser.



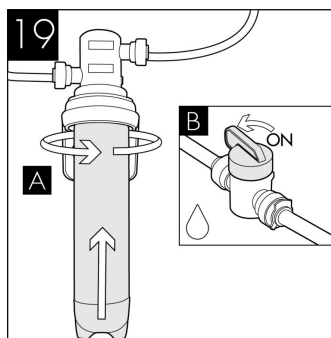
When the external cleaning (minimum 5 minutes) is completed, flush the machine using the chilled button with clean water until the dispense water runs clear. Repeat briefly with the ambient and sparkling buttons if present.



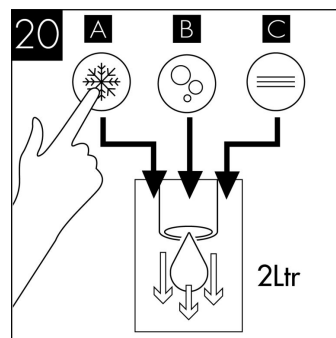
Turn off water and briefly press chilled dispense button to release internal water pressure from the machine.



Remove the service filter. Retain service filter for reuse.



Fit new filter and turn on incoming water supply.



Pre-flush the new filter to waste using the chilled button until the water appears clear and is free of air. Flush through a small amount of water to check all functions.



Please note that this sanitisation fluid contains an active caustic/alkaline agent. Always use responsibly and with care remembering that due to its alkaline nature unnecessary concentrated/prolonged contact with any materials, including metals, can cause damage. Always rinse all contact surfaces after use with clean water.

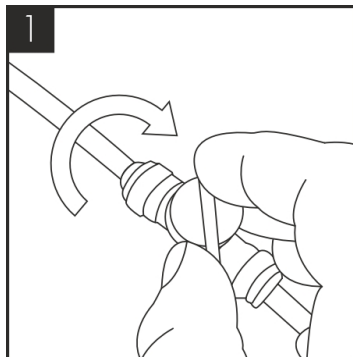


Avoid skin contact and wear protective gloves when handling sanitisation fluids.

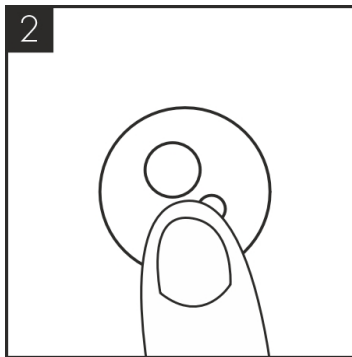


In the event of any skin contact, flush immediately with clean, cold water.

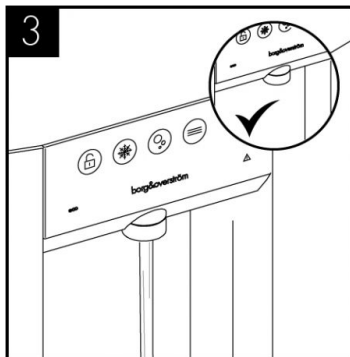
Emptying the CO2 Tank



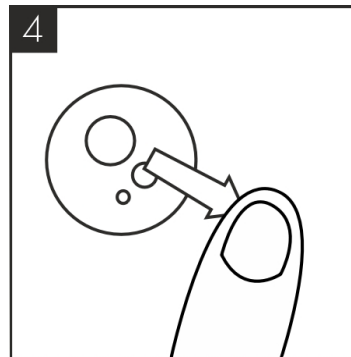
Turn off the water supply.



Press and hold the Sparkling water dispense button until all the water is expelled and only CO₂ gas is being released.



The tank is empty of sparkling water when only CO₂ is being released.



Ensure to release the Sparkling water button and take care to avoid releasing excess amounts of CO₂ gas as this may damage the tank.

Advanced Troubleshooting

Fault Diagnostics

Problem/Report	Possible Cause	Suggested Action
No Water Dispensing	Power supply turned off	Check the power supply has been fitted properly and turned on.
	Water Pressure Regulator	Check water flow through the regulator. Replace if necessary.
	Check Tap HMI Control	Check fault codes.
	Water isolated from machine	Check water inlet supply.
	Leak detection in unit triggered	Disconnect the power and water supply, check for leaks.
	Commissioning mode	Ensure hot tank is full by dispensing hot option and then take unit out of commissioning mode.
	Lock icon not pressed	To dispense from hot, press the lock symbol first then hot shortly after.
No Sparkling Water	No CO2 pressure	Check CO2 bottle, regulator and non-return valve. Supply pressure should be 58 psi (4bar), replace as necessary.
	Carbonator Tank Not Filling	Check carbonator probe for possible short circuit to ground. Check for pump timeout, cycle power off & on then purge carbonator.
Poor Quality Carbonation	Incorrect CO2 Pressure	Check CO2 bottle, regulator and non-return valve. Supply pressure should be 58 psi (4bar), replace as necessary.
	Air in Carbonator Tank	Visit to view steps for purging tank.
	Residue in Carbonator Tank	After prolonged use, a surface film can develop within the carbonator tank. Refer to cleaning and sanitising instructions.
Warm Drinks	Insufficient cooling air flow through the fridge.	Check that the condenser is not blocked. Check supply to cooling fans If supply present replace fans. If supply not present move on to the compressor. The supply to the fans and the compressor are linked.
	Compressor not running	Check supply to compressor (115/230V AC). Check NTC probe is not faulty Check for system over heat. Allow the unit to cool and check for airflow obstructions. Once the unit has cooled the fridge system will restart. If the problem persists contact technical support.
	Fridge failure (See fault codes)	If compressor & fan are running and there is no cooling contact technical support.

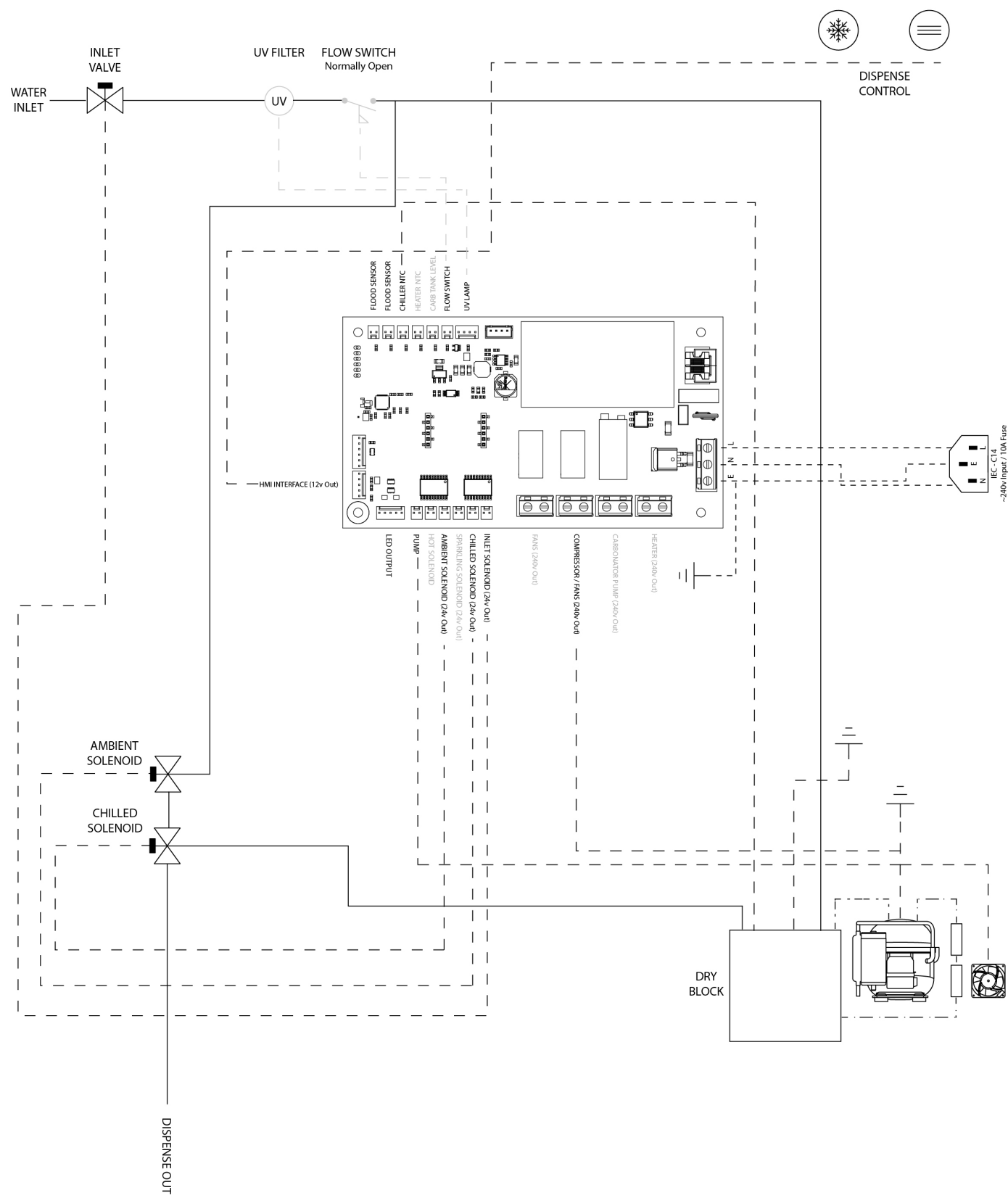
Problem/Report	Possible Cause	Suggested Action
Water lying on top edge of lower door panel and/or bottom of cabinet	Overflowing drip tray or waste container	Empty waste container and check drainpipe is not blocked.
Water lying in bottom of machine	Leak in pipe work and/or filter	Contact your distributor.
Bleeping noise	Level sensor fitted and waste tank full	Empty waste tank.
Not all symbols displayed	Unit is in heater commissioning mode	Check water is dispensing then hold lock symbol for 10 seconds.
Temperature not hot enough	Mid heating cycle	If the hot icon is pulsing then unit is not at correct temperature. Wait for solid light.
	Temperature probe not installed correctly or damaged	Ensure temperature probe is correctly installed or request replacement.
	Water demand too high	See product specification.
	Element not working	Check and replace as required.
Dripping	Heater over heating	Ensure temperature probe is correctly fitted and not damaged.
		Lower temperature using app.
Continuous or incorrect dispense	Poorly seated HMI lens	Replace lens assembly.
	Excess water on lens	Ensure you keep lens clean and clear of liquids.

Fault Codes

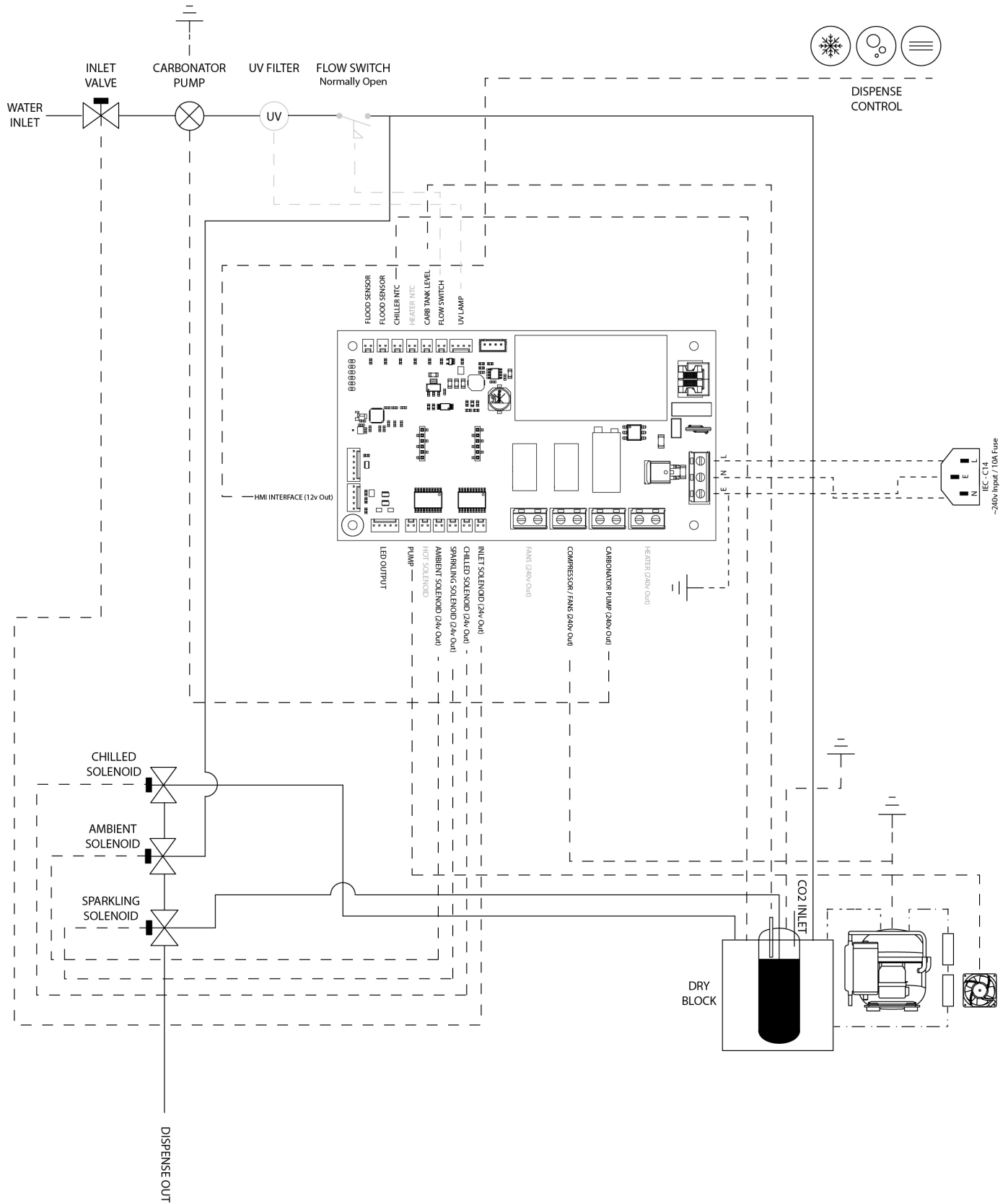
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Technical Information

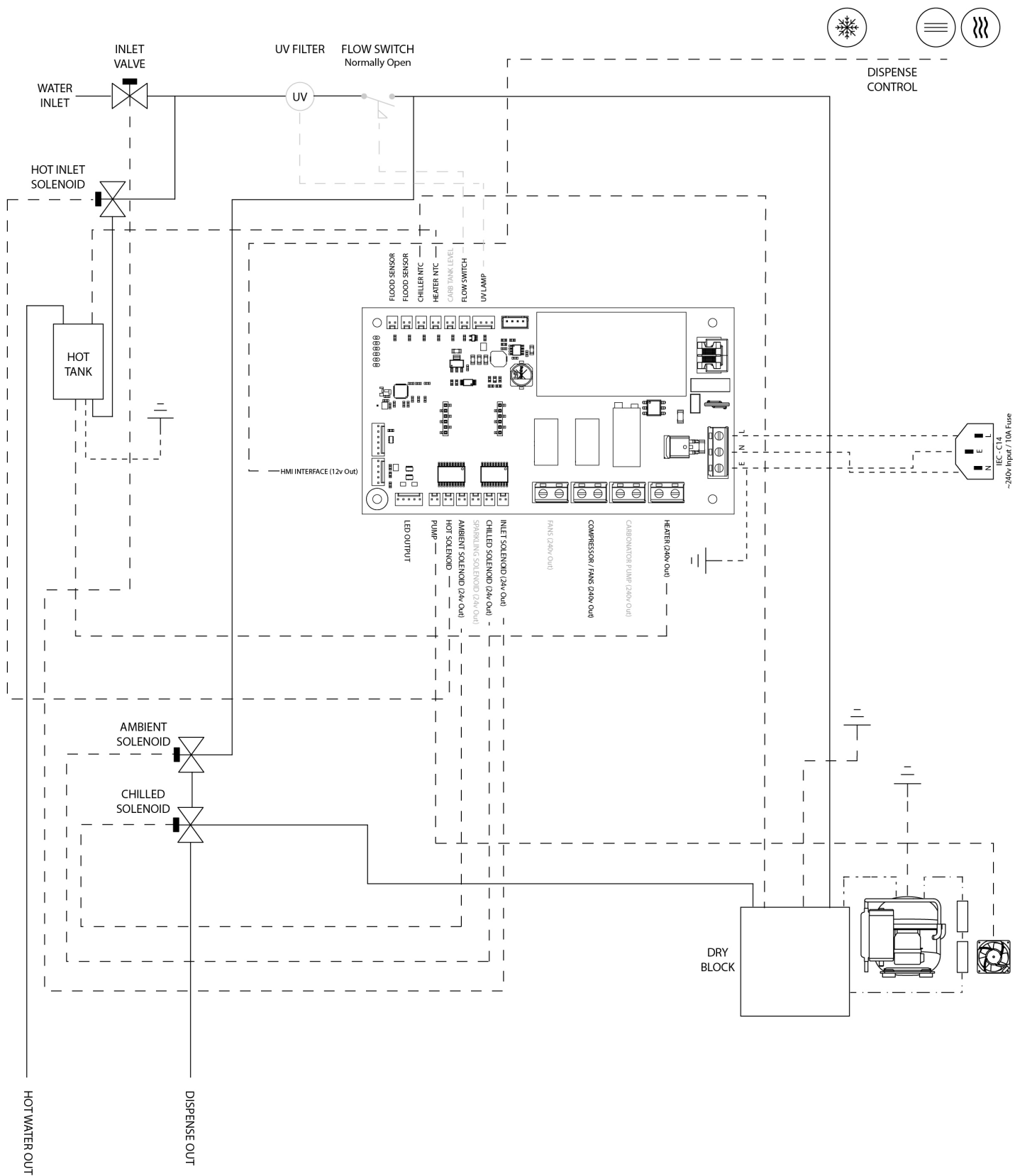
Chilled & Ambient Circuit Schematic



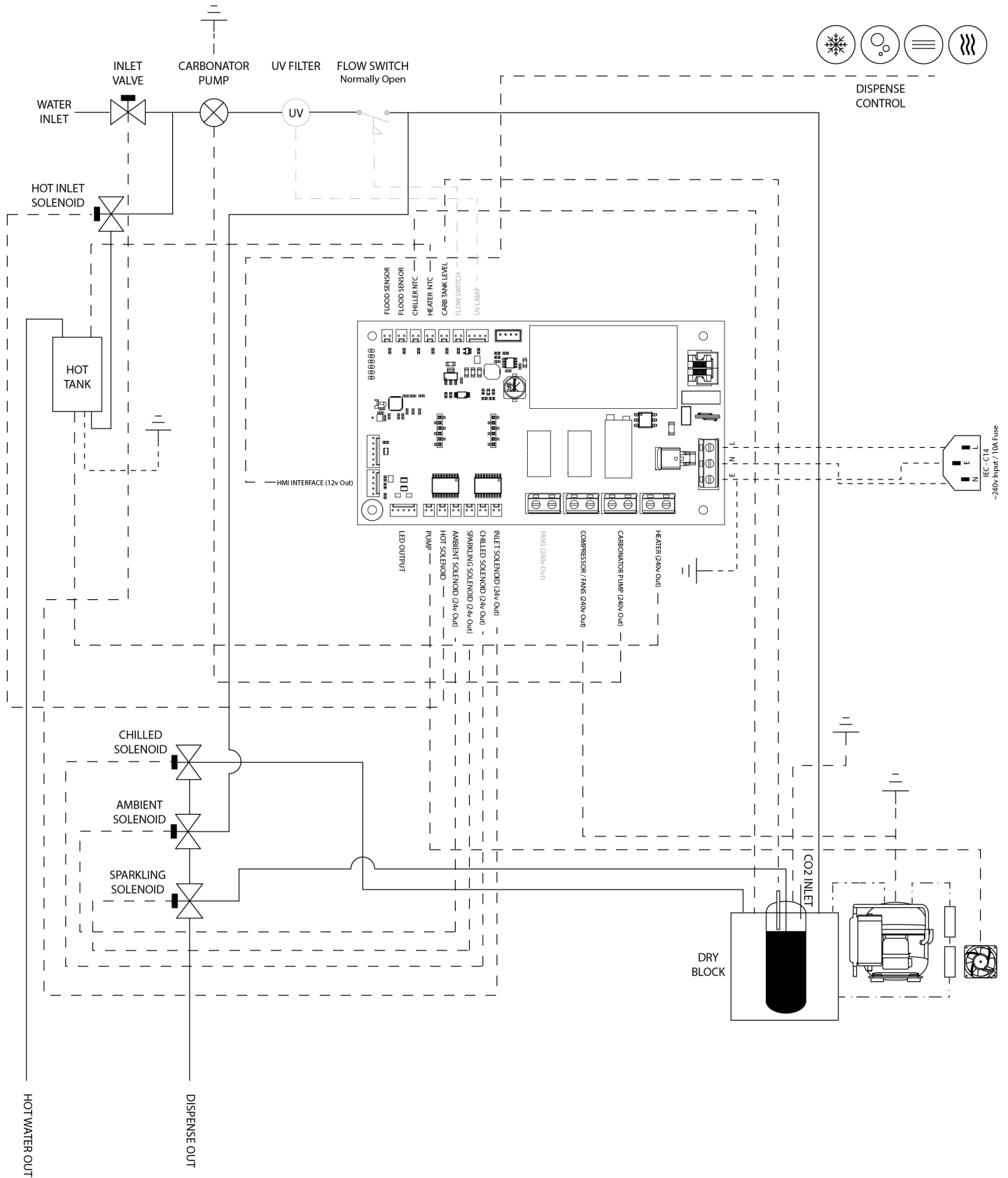
Chilled, Ambient & Sparkling Circuit Schematic



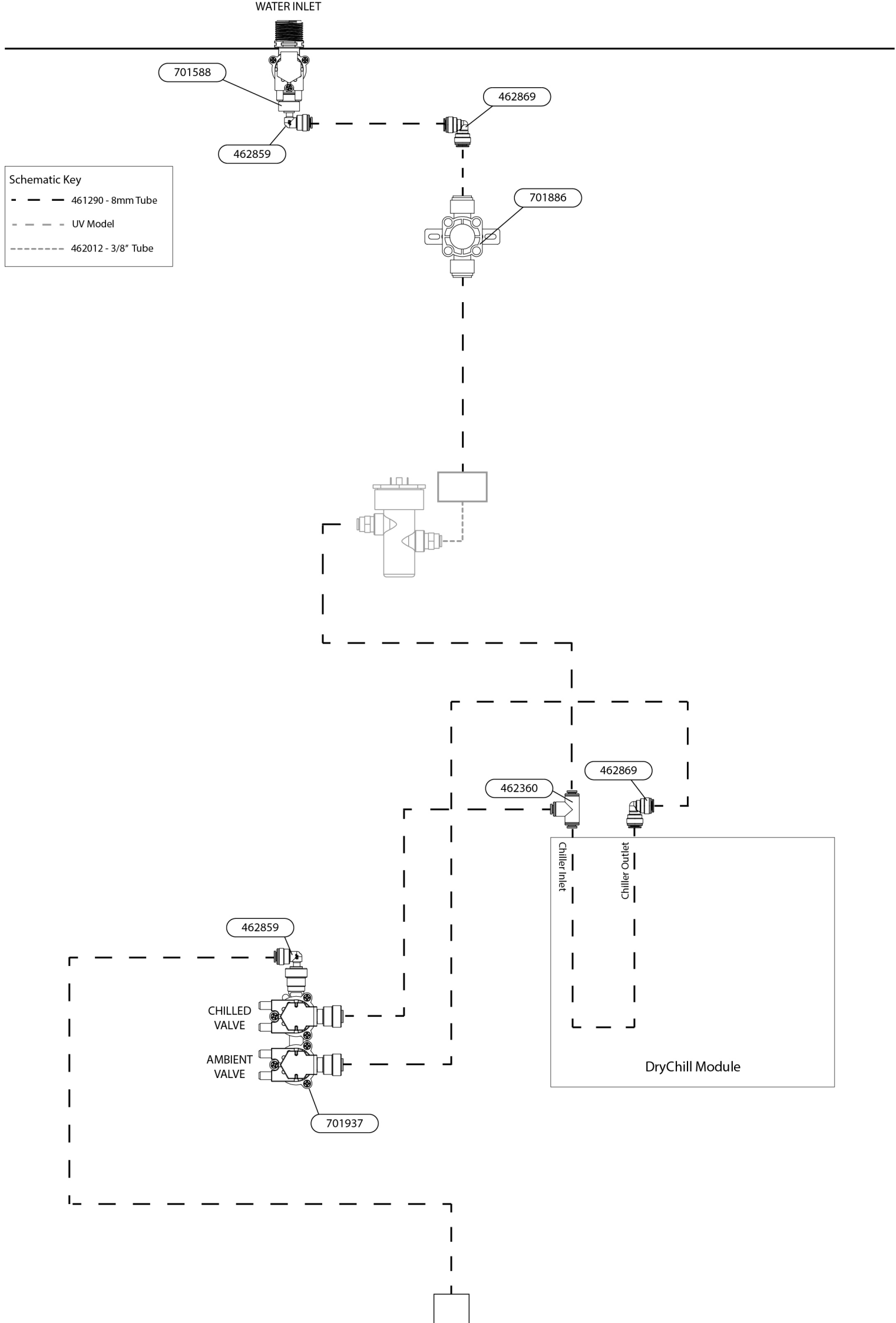
Chilled, Ambient & Hot Circuit Schematic



Chilled, Ambient, Sparkling & Hot Circuit Schematic



Water Pathway - Chilled & Ambient



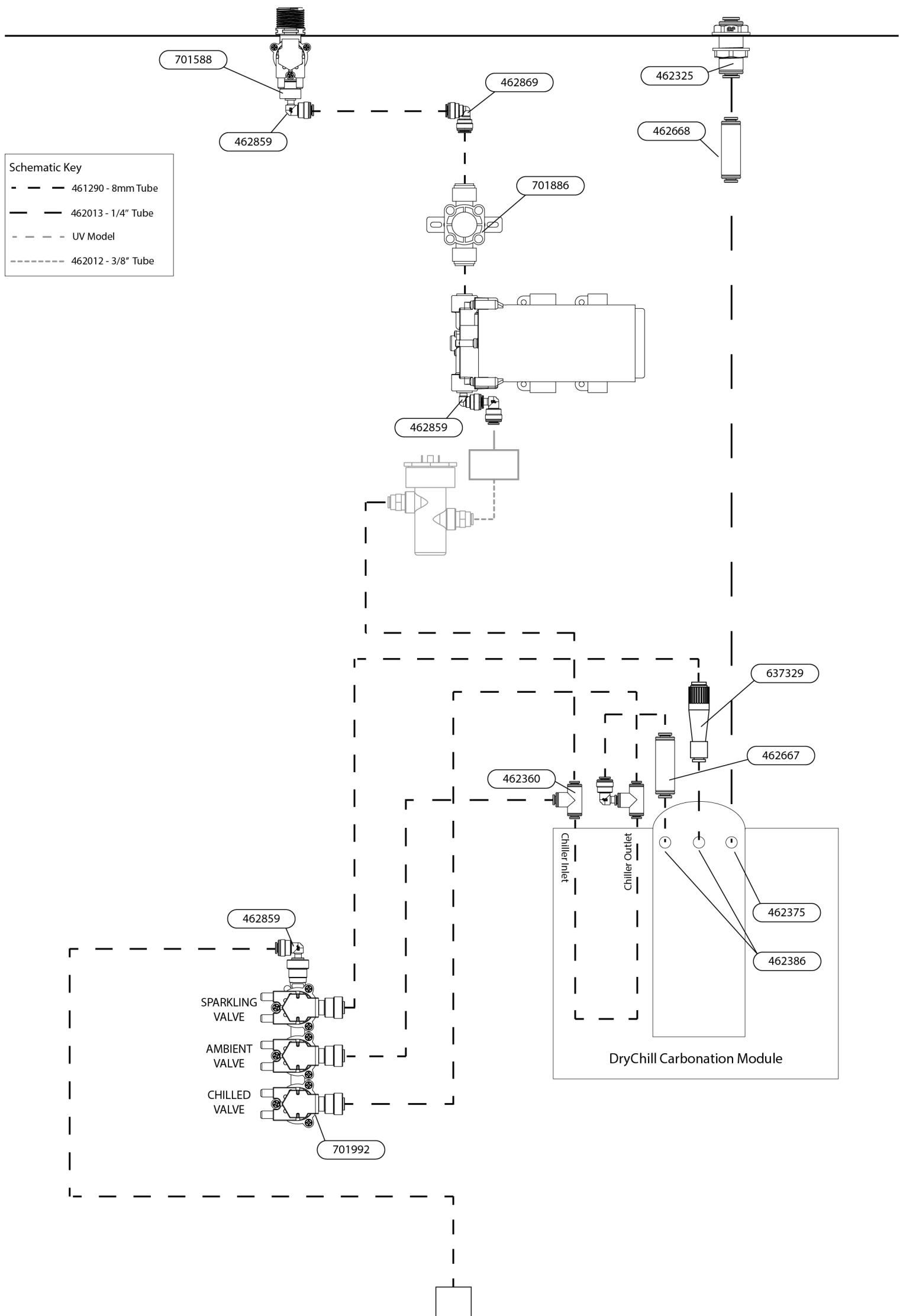
Water Pathway - Chilled, Ambient & Sparkling

WATER INLET

CO2 INLET

Schematic Key

- - - 461290 - 8mm Tube
- 462013 - 1/4" Tube
- - - UV Model
- - - - 462012 - 3/8" Tube



Water Pathway - Chilled, Ambient & Hot

WATER INLET

701588

462360

462869

701886

702146

701729

DRAIN PIPE

Hot Water Tank

462360

462869

Chiller Inlet

Chiller Outlet

DryChill Module

CHILLED
VALVE

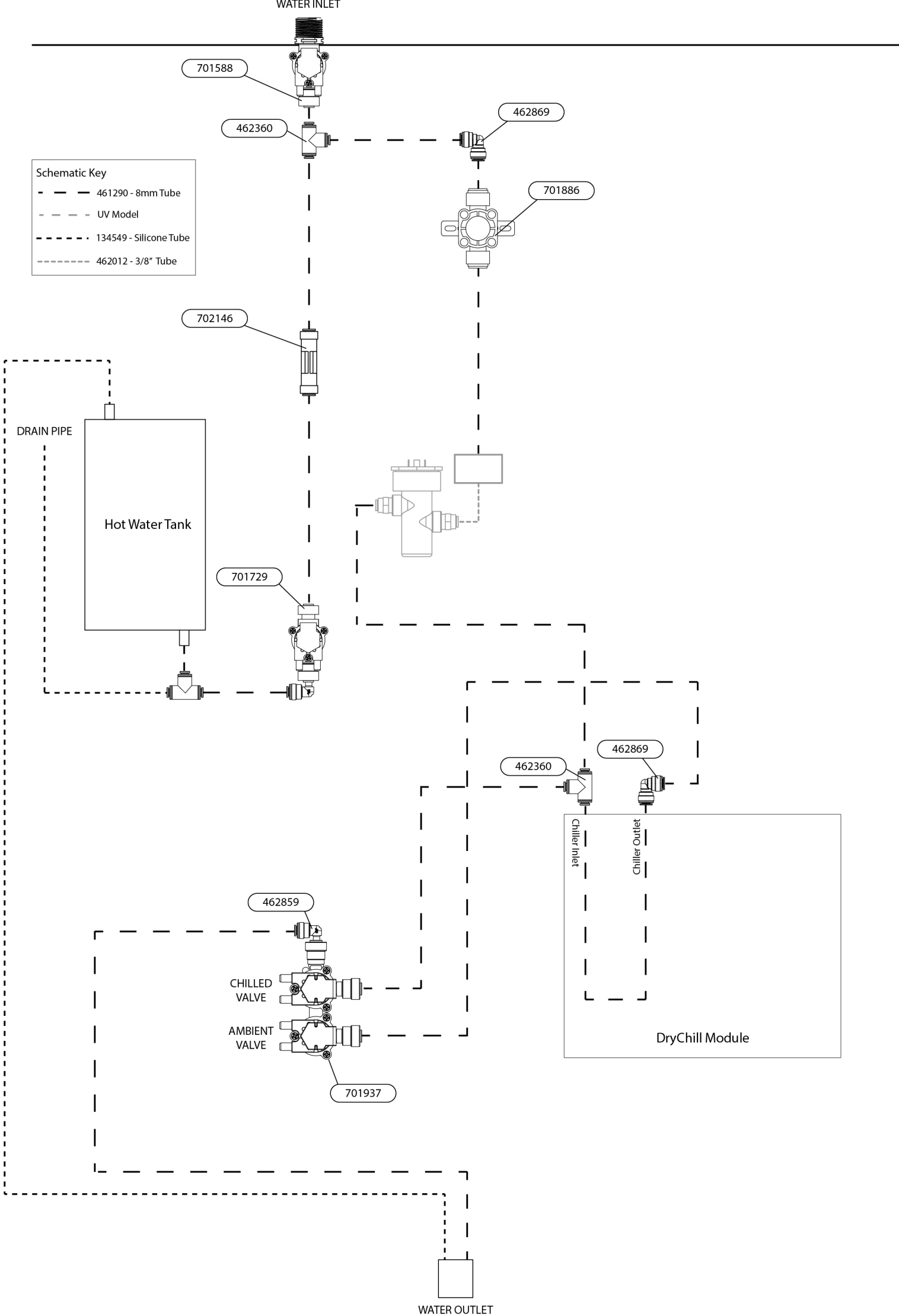
AMBIENT
VALVE

701937

WATER OUTLET

Schematic Key

- 461290 - 8mm Tube
- UV Model
- 134549 - Silicone Tube
- 462012 - 3/8" Tube



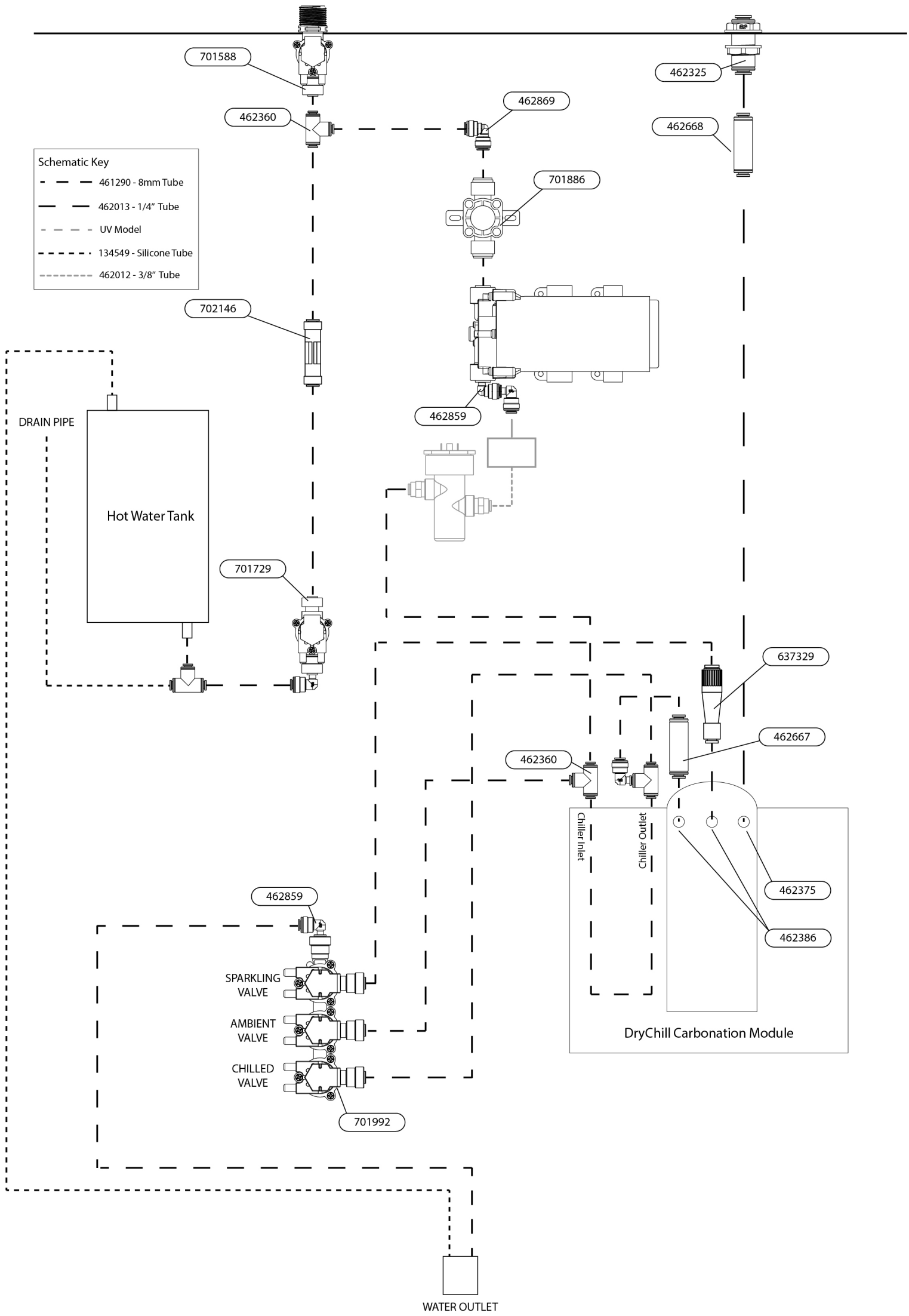
Water Pathway - Chilled, Ambient, Sparkling & Hot

WATER INLET

CO2 INLET

Schematic Key

- - - 461290 - 8mm Tube
- 462013 - 1/4" Tube
- - - UV Model
- - - - 134549 - Silicone Tube
- - - - 462012 - 3/8" Tube







Part No.	Description	CA	CAH	CSA	CSAH
720337	Main Control PCBA	•	•	•	•
720429	IOT PCBA	•	•	•	•
700154	LED PCB	•	•	•	•
701630	Top Panel	•	•	•	•
701678	Side Panel	•	•	•	•
720341	Front Panel Black	•	•	•	•
720383	Front Panel Silver	•	•	•	•
701656	Drip Tray Black	•	•	•	•
701657	Drip Tray Font	•	•	•	•
702558	Cooling Fan	•	•	•	•
702175	Pump 115v			•	•
701537	Pump 230v			•	•
702317	Hot Water Tank 115v		•		•
702488	Hot Water Tank 230v		•		•
702418	Cape Washer			•	•
720401	UV Assembly Kit	•	•	•	•
702078	Flow Sensor	•	•	•	•
720295	CA HMI Lens Asm	•			
720365	CAH HMI Lens Asm		•		
720289	CSA HMI Lens Asm			•	
720372	CSAH HMI Lens Asm				•
701711	Outlet Moulding	•	•	•	•
701486	Outlet Stainless	•	•	•	•

Part No.	Description	CA	CAH	CSA	CSAH
701588	3/4" BSP Inlet Solenoid	•	•	•	•
701886	8mm PRV 2 Bar	•	•	•	•
702146	Flow Restrictor		•		•
701729	Hot Inlet Solenoid		•		•
701937	8mm 2 Way Solenoid	•	•		
701992	8mm 3 Way Solenoid			•	•
462859	8mm Stem Elbow	•	•	•	•
462869	8mm Equal Elbow	•	•	•	•
462360	8mm Equal Tee	•	•	•	•
462325	1/4" Bulkhead Connector			•	•
462375	5/16" - 1/4" Elbow			•	•
637329	8mm Compensator			•	•
462667	8mm Safety Check Valve			•	•
462668	1/4" Safety Check Valve			•	•

