



Product Instruction Manual

# Sapphire



**SAPUC2**











Undersink Chiller

## Overview

Thank you for purchasing a Sapphire Undersink Water Chiller. When used with a counter mounted tap and filter it will provide instant, high quality chilled drinking water.

Please read and follow these instructions to ensure that installation and operation are as simple and safe as possible.

## Important Safety Points

-  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;
  - by clients in hotels, motels and other residential type environments;
  - bed and breakfast type environments.
-  This appliance is not designed for outdoor use or use in damp conditions.
-  This appliance should only be installed and maintained by a competent person in accordance with any local electrical and plumbing regulations.
-  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.
-  Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
-  Do not damage the refrigerant circuit.
-  This appliance must be earthed.
-  Only connect the appliance to an electrical supply that meets the specification detailed on the rating label.



This appliance is intended to be permanently connected to the water mains and should not be connected by a detachable hose-set.



Only connect this appliance to a water supply that meets the min/max pressures specified in the specifications section of this manual.



Do not locate the appliance where the consequences of a water leak could be unusually serious.



The appliance should be drained if it will be switched off or unattended for any length of time, particularly during the colder months of the year where a possibility of freezing temperatures exists.

# 1. Installation



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



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



Keep ventilation openings in the appliance enclosure clear of obstruction.



To avoid a hazard due to instability of the appliance, it must be fixed in accordance with the instructions.

- The appliance must be installed in a frost free environment. Frost damage is not covered by the warranty.
- Ensure the appliance is installed on a flat, level surface.
- Allow adequate clearance around all sides of the appliance to avoid issues relating to over heating during the cooling cycles.
- **Ventilation**  
Depending on the installation environment and usage of the appliance, appropriate ventilation may be required such as door spacers or air vents in the cupboard housing the appliance.

## 2. Plumbing Connection



This appliance is intended to be permanently connected to the water mains and should not be connected by a detachable hose-set.



Only connect this appliance to a water supply that meets the min/max pressures specified in the specifications section of this manual.

- Make a connection from the cold water supply of the building to the connection marked 'WATER IN'.
- Cut to length the 1/4" pipe provided to fit your installation. Take care to make a clean straight cut and not to crush the ends of the pipe as this may cause the connection to fail.
- A brass adapter and plastic connector are provided to connect the 1/4" pipe to 15mm mains supply copper pipe.
- Two identical connectors are provided to connect the 1/4" pipe to the 'WATER IN' inlet on the appliance and then to connect a new run of 1/4" pipe from the 'WATER OUT' outlet of the appliance to the desired tap/ cold water dispenser. The 2 black washers provided are for these 2 connectors and a locking collar is provided for each of the 3 plastic connectors.
- If a filter is specified, check the specific filter for guidance on any installation and flushing procedures. Flushing of the filter should be performed before connection to the appliance.

### 3. Commissioning

- Open the cold water outlet and then turn on the cold supply to the appliance.
- Wait until a smooth flow of water is dispensed to ensure any air is purged from the appliance before closing the tap and checking all water connections for leaks.

### 4. Electrical Connection



This appliance must be earthed.



Only connect the appliance to an electrical supply that meets the specification detailed on the rating label.

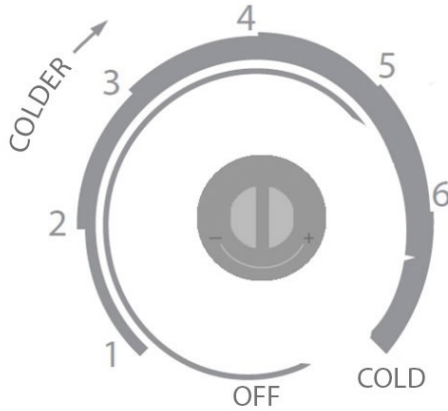


Do not switch on electrical power unless the appliance is full of water.

Connect the kettle style lead to corresponding socket located at the rear of the appliance before plugging the other end into an electrical socket.

## 5. Operation

- The appliance can be set to deliver chilled water temperatures from 8 °C to 12 °C.
- To adjust the temperature setting of the chilled water, a flat headed screwdriver is required to turn the screw located at the rear of the appliance.



- It is recommended that the lowest acceptable setting is used for drinking water, this is based on personal preference. The appliance is factory set to 4 which is approx 10°C.
- If a lower temperature than is necessary is chosen the compressor will work harder and in turn lead to an increase to the temperature of the installation environment.
- After heavy draw- offs from the chiller, it will need time to recover before further chilled water is available. The recovery time will vary dependent on incoming water temperature and temperature set point but is typically between 8 and 12 minutes for the full capacity of the tank.

## 6. Cleaning and Maintenance



This appliance should only be installed and maintained by a competent person in accordance with any local electrical and plumbing regulations.



Ensure any future maintenance or modifications to the plumbing system also complies with the guidelines in these instructions.



Keep records of maintenance and ensure any future occupier of the building is fully aware of the content of these instructions.



Do not use abrasive materials or chemicals to clean this appliance.



Isolate the appliance from the electrical supply before performing any maintenance task.

### Draining

- It is recommended the appliance is sanitised every 3 - 6 months.
- Unplug the power cable from the electrical outlet.
- Isolate the water supply to the appliance and remove ¼" pipe from the 'WATER IN' and 'WATER OUT' connections at the top of the appliance. To do this the collars of the push fit connectors should be pushed down as the ¼" pipe is pulled away from the connections, a small spanner can be used to facilitate this.
- Remove and position the appliance where the water can be drained from beneath e.g. over a bucket or sink.
- To drain the appliance simply unscrew the drain nut located on the underside of the appliance, ensure the drain seal is retained in the drain nut.
- When the appliance is drained, replace the drain nut and seal and then follow the commissioning section when reinstating.



## **Sanitising**

- First drain down appliance as per the draining section. Ensure the drain nut and seal are replaced before adding the sanitising fluid to the tank via the 'WATER IN' fitting at the top of the appliance.
- Reinstall the appliance and recommission as per commissioning section.
- Follow the specific instructions of the sanitising fluid used for required times before thoroughly flushing the appliance through.

## **Filter Maintenance**

- Follow the specific guidance provided with the filter.

## 7. Specification

<b>Model</b>	<b>SAPUC2</b>
<b>Power</b>	<b>140 W</b>
<b>Initial draw off</b>	<b>2 L</b>
<b>Cooling capacity</b>	<b>14L/H &lt; 10°C</b>
<b>IP rating</b>	<b>IP20</b>
<b>Voltage</b>	<b>230 V</b>
<b>Min supply pressure</b>	<b>0.1 MPa (1 bar)</b>
<b>Max supply pressure</b>	<b>0.3 MPa (3 bar)*</b>
<b>Connections inlet/ outlet</b>	<b>1/4" push fit</b>
<b>Refrigerant</b>	<b>R290/25g</b>
<b>Operating ambient min/ max</b>	<b>10°C min / 38°C max</b>
<b>Approvals</b>	<b>UKCA</b>
<b>Dimensions (h x w x d)</b>	<b>360 x 180 x 380 mm</b>

\* If pressure is above 3 bar then a pressure reducing valve is required

## **8. Guarantee and Service Policy**

This product is covered by a standard parts or replacement warranty for a period of 1 year from the date of purchase.

If there is a manufacturing defect within the warranty period we will send spare parts, repair and return the unit or, at our discretion, supply a replacement product. Incorrect installation, frost damage, the consequences of limescale deposits or failure to follow correct operating and maintenance instructions are excluded. Consequential costs such as labour charges or damage to fittings and surroundings are expressly excluded.

## **9. Contact Us**

If you experience a problem with this product you should first contact our service department on 01924 225 200 before taking any further action. Experience has shown that issues can often be resolved without the need to return or uninstall the product.



INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCE WITH THE EUROPEAN DIRECTIVE 2012/19/EU.

At the end of its working life this equipment must not be disposed of as household waste. It must be taken to a local authority waste collection centre or to a dealer providing this service. Disposing of electrical and electronic equipment separately enables its components to be recovered and recycled to obtain significant savings in energy and resources. In order to underline the duty to dispose of this equipment separately, the product is marked with a crossed out dustbin.

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