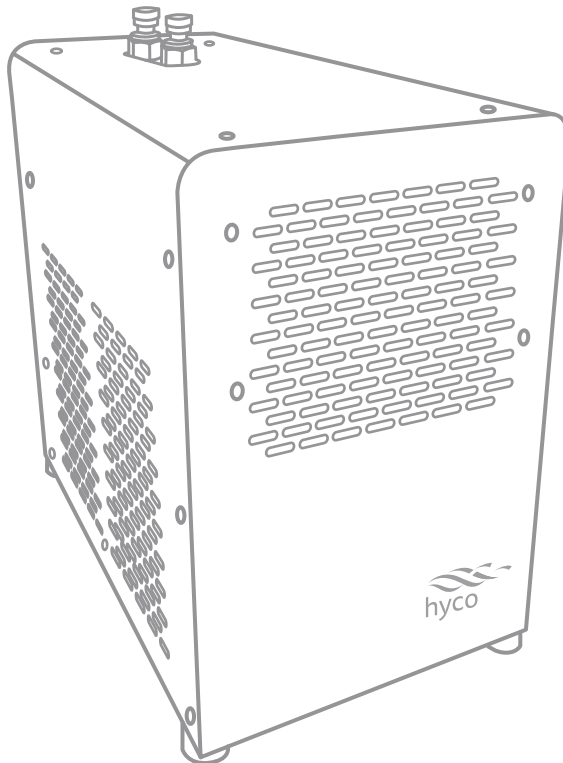




Product Instruction Manual

Sapphire



SAPUC1
Undersink chiller

Thank you for purchasing a Hyco Sapphire water chiller. This discrete undersink chiller is designed to be used with a counter-mounted tap and filter (not included) to provide instant high quality chilled drinking water.

This appliance is intended to be used in households and applications such as:

- Staff kitchen areas in shops, offices and other working environments
- By clients in hotels, motels, bed and breakfast and other residential type environments
- Catering and similar non-retail applications

Please read and follow these instructions carefully to ensure that installation and operation is simple and safe.

1. Important safety points



Only connect the unit to a single-phase supply as specified on the rating plate.



The unit should be installed with easy access to the electrical plug.



This appliance should be installed indoors, on a flat surface.



Install the appliance in a dry, well ventilated area; keep the ventilation openings on the sides and front of the unit uncovered and unobstructed with at least 10cm space from any surfaces.



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.



Connect ONLY to potable (drinking) water.



If the appliance is not going to be used for long periods, unplug it and drain.



Disconnect the unit from power source before removing panels for maintenance.



Before first use and after a long period of no use, the water tank and pipes should be sanitised.



Do not install in environments where ambient temperatures are $< 10^{\circ}\text{C}$ or $> 38^{\circ}\text{C}$.

2. Installation

Plumbing



Before commencing installation, ensure the location is a flat level surface that will allow for adequate airflow around all sides of the appliance.

Place the chiller in the final installation location and make a connection from the cold water supply of the building to the chiller connection marked "WATER IN". It is strongly recommended to fit a service valve on the branch for ease of future maintenance. Cut to length the $\frac{1}{4}$ " 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 $\frac{1}{4}$ " pipe to 15mm mains supply copper pipe. Two identical connectors are provided to connect the $\frac{1}{4}$ " pipe to the "WATER IN" inlet on the chiller and then to connect a new run of $\frac{1}{4}$ " pipe from the "WATER OUT" outlet of the chiller 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.

(Note: 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 chiller)

Commissioning

Open the cold-water outlet and then turn on the cold supply to the chiller, 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.

Electrical connection



Do not connect the electrical supply until the commissioning has been completed.

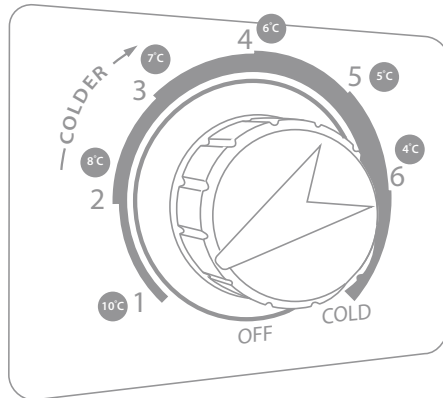
Connect the kettle style lead to corresponding socket located at the rear of the appliance before plugging the other end into an electrical socket.

Ventilation

Depending on the installation environment and usage of the product appropriate ventilation may need to be provided in the cupboard housing the chiller such as door spacers or air vents.

3. Operating the chiller

The stored temperature of the chiller is selectable using the thermostat dial located on the back of the appliance.



The chiller can be set to deliver a range of chilled water temperatures between 4°C and 10°C. It is recommended that the lowest setting (1) is used for drinking water. Higher settings will cause the unit to work harder and in turn increase the temperature of the installation environment.

After heavy draw-offs of water 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 but is typically between 8 and 12 minutes for the full capacity of the tank.

4. Maintenance

Draining the unit

It is recommended the unit is sanitised every 3 - 6 months.



Before undertaking maintenance ensure the appliance is isolated from the electrical supply.

- Unplug the power cable from the electrical outlet.
- Isolate the water supply to the chiller and remove ¼" pipe from the "Water In" & "Water out" connections at the top of the product. To do this the collars of the push fit connectors should be pushed down as the ¼" pipe is pulled away for the connections, a small spanner can be used to facilitate this.
- Remove and position the chiller onto a location where the water can be drained away from beneath the unit. To drain the unit simply unscrew the drain nut located on the underside of the chiller, ensure the drain seal is retained in the drain nut.
- When the unit is drained, replace the drain nut and seal and then follow the commissioning section of this instruction when reinstating.

Sanitising the unit

- First drain down unit as per the "Draining the unit" 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 chiller.
- Reinstall the unit and recommission as per commissioning section of this instruction. Follow the instructions of the sanitising fluid for required times before thoroughly flushing the appliance through.

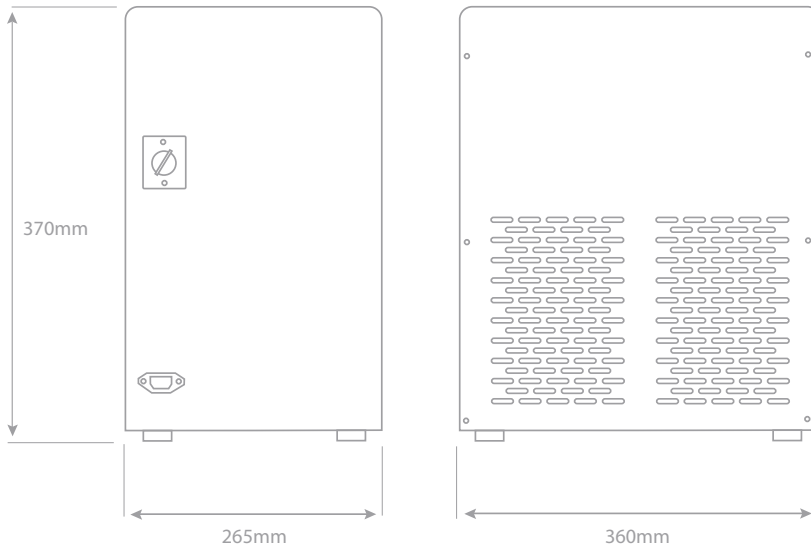
Filter Maintenance

- If a filter is installed in line with the chiller the filter cartridge needs replacing at the intervals specified in the filter instructions.

5. Specifications

	SAPUC1
Supply	230V AC 50Hz
Power	200W
Class	I
IP rating	20
Cooling capacity	20L/H < 10°C
Immediate draw off	3 litres
Minimum supply pressure	0.1 MPa
Maximum supply pressure	0.3 MPa*
Connections Inlet/Outlet	¼" push fit
Refrigerant	R134a/110g
Operating ambient (min/max)	10°C – 38°C
Approvals	CE, WRAS

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



6. Guarantee and service policy

This product is covered by a standard parts or replacement warranty for a period of two years 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 and frost damage or failure to follow correct operating and maintenance instructions are excluded. Consequential costs such as labour charges or damage to surroundings are expressly excluded.

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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