

ZIP HYDROCHILL

High capacity chiller systems



IT'S WATER. REFRESHED.

MODEL NUMBER:

HC10 range



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PRECAUTIONS AND GENERAL RECOMMENDATIONS



- Appliance for internal use only. Place the unit away from water jets.
- Always connect the water cooler to a water main that supplies wholesome drinking water only.
- Before each installation, the unit

must be sanitized by an authorized technician.

- After installation, ensure that the unit is not resting on the power cable.
- Check that the unit is level and that it is resting on a surface with sufficient load bearing capacity, in an environment that is suitable for its dimensions and its use.
- Before any maintenance or cleaning operation is carried out, remove the plug from the socket or disconnect the power supply.
- Ensure that the product is not sited close to sources of heat.
- To guarantee adequate ventilation, leave at least 10 cm of space around the unit.
- Install the product in a clean, dry, well-ventilated environment. The product is designed to function in environments with a temperature range of between 5°C and 32°C - Climate Class N.
- Take care not to damage the cooling fluid circuit: it is filled with R290, which is a highly flammable gas. It is essential to ensure that the tubes of the refrigerant circuit are not damaged.
- Ensure that it is possible to disconnect the power supply either by removing the plug or via a two-pole circuit-breaker, with a contact separation of at least

PRECAUTIONS AND GENERAL RECOMMENDATIONS

3mm in all poles.

- **The Appliance must be protected by an RCD or RCBO.**
- Check that the voltage shown on the serial number plate corresponds to the voltage being supplied at the installation site.
- The unit must not be cleaned with a water jet. Do not position other electrical equipment in the immediate vicinity of the water cooler.
- Turn off the main water inlet tap if the unit is not to be used for a long period.
- Keep the areas surrounding the unit dry to avoid the risk of people slipping.
- CO₂: You can have serious health problems if breathing air containing concentrations of CO₂ up to 15000ppm (1.5%) for more than 10 minutes. Proper ventilation must be provided to ensure that, in case of escape, concentrations of CO₂ remain below this level.
- **If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid a hazard**
- **Do not use extension leads or adapters.**
- **This appliance is intended to be used by persons (including children aged from 8 years) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, provided that they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.**
- **Children should be supervised to ensure that they do not play with the appliance.**
- **The appliance is only to be installed in locations where it can be overseen by trained personnel.**
- **This equipment is to be installed in compliance with the local plumbing regulations.**
- **Water pipe connections and fixtures directly connected to a wholesome (cat 1) water supply shall be sized, installed, and maintained in accordance with federal, state, and local codes.**
- This publication is based on information available when approved for printing.
- Continuing design refinements could cause changes that may not be included in this publication.

BEFORE INSTALLING THE HYDROCHILL

- Congratulations for choosing a HydroChill product.
- We have designed and manufactured this product with great care to ensure that it will dispense water of the highest quality.
- In order to get the most out of your water cooler, please read the instructions in this manual and retain the manual for future reference.

APPROVALS

This water cooler is designed, manufactured and marketed in compliance with:

- The safety objectives of the Machinery Directive 2006/42/C
- The protection requirements of the Electromagnetic Compatibility Directive 2014/30/EU.

The electrical safety of the product is ensured only when it is properly connected to an efficient, legally compliant grounding circuit.

PRODUCT DESCRIPTION

Compact, powerful and entirely made of stainless steel, HydroChill HC10 is the smallest cooler of the range: perfect for your home and office, with professional performance.



The main features of the unit are as follows:

DRY COOLING technology:

a noiseless, low maintenance and innovative system, allowing you to get great performances in a small size.

High quality stainless steel buttons, wear resistant and easy to use.

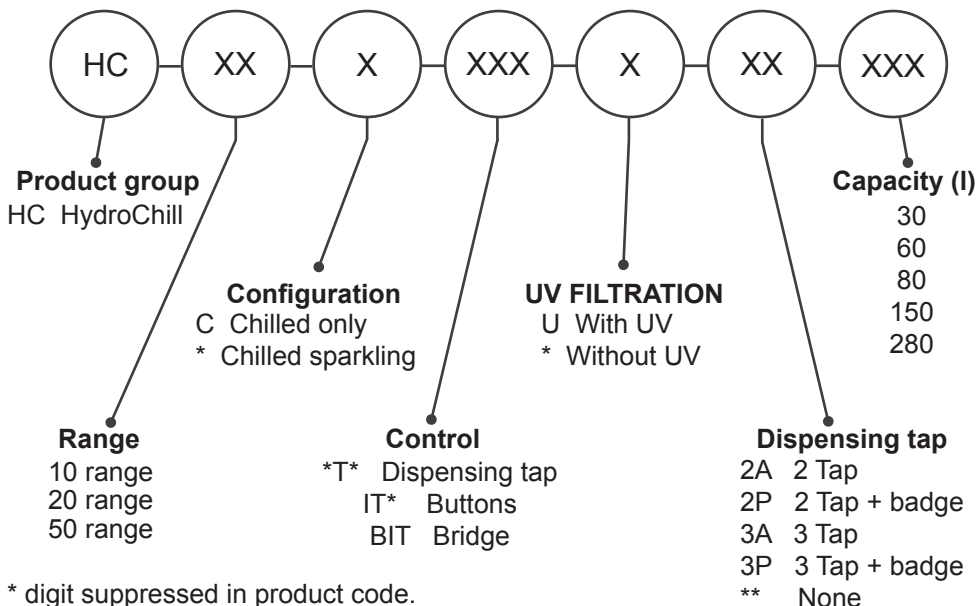
3 dispensing options: filtered chilled water, filtered ambient temperature water, filtered ,sparkling water (model dependant).

Modern and compact design in strong stainless steel.

Fast and easy installation for home and office usage

Filtration: on request, a UV lamp can be placed on the dispensing point.

Explanation of HydroChill range product code



Example

HC50CBITU280 Is a HC50, chilled only, bridge tap, with UV, 280 litre capacity.

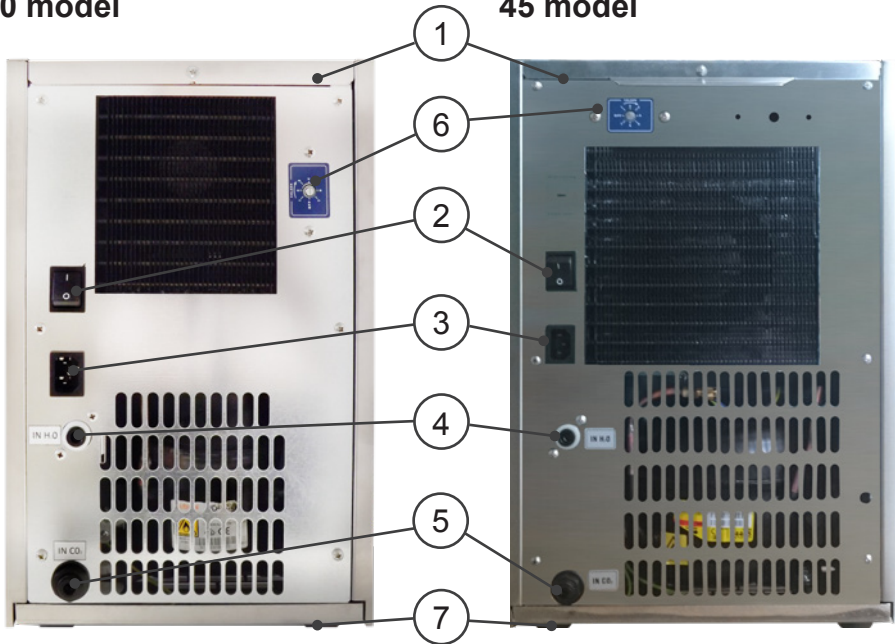
Front of product



Rear of product

30 model

45 model

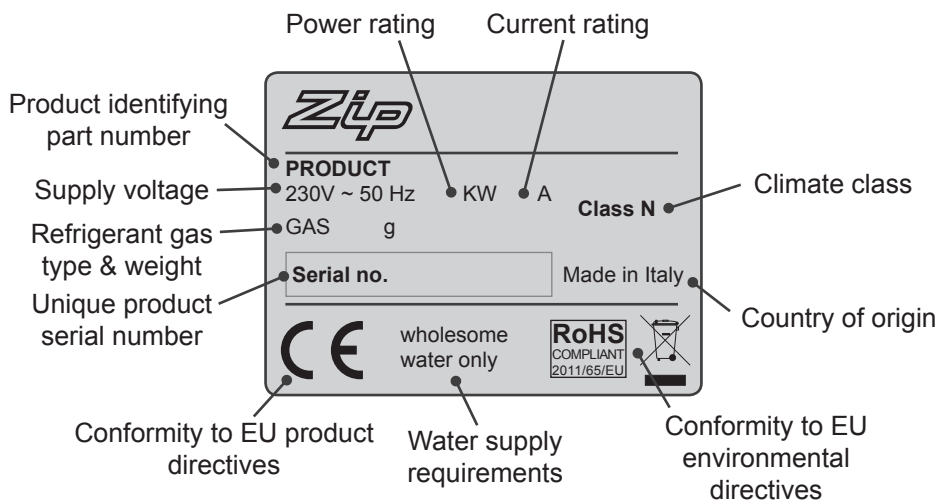


- 1 Slide cover
- 2 Power button
- 3 IEC outlet power cable
- 4 Drinking water inlet pipe joint Ø5/16" (8mm)
- 5 CO₂ inlet pipe joint Ø5/16" (8mm)
- 6 Adjustable thermostat
- 7 Support feet

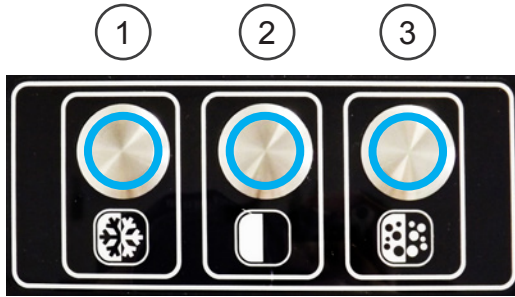
Rating plate



(situated on the back of product)



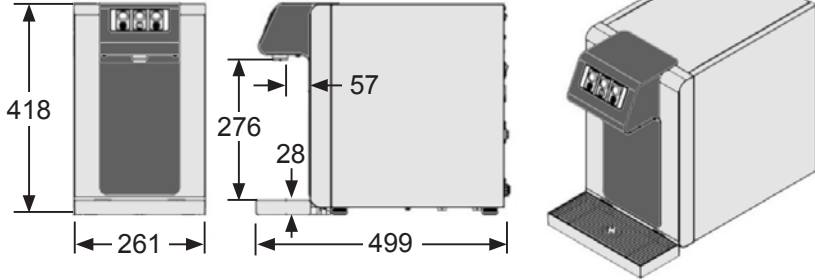
Operation of dispensing buttons - press to dispense



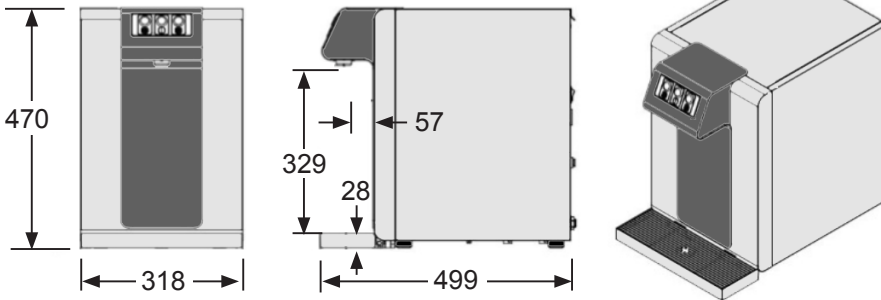
- ① Filtered chilled water
- ② Filtered ambient water
- ③ Filtered sparkling water (model specific)

Dimensions (sparkling model shown for ref. only)

30 model



45 model



TECHNICAL DATA

Technical Data Sheet	30	45
Cooling capacity	30 lt/h	45 lt/h
Continuous supply	6 lt	12 lt
Cold water temperature	5 - 12°C *	
Cooling technology	Aluminium fusion block heat exchanger	
Cold Water Coil	Stainless Steel AISI 316	
Pump	Professional membrane carbonation pump	
Condensation	Ventilated	
Adjustable Thermostat	Yes	
Refrigerant gas	R290	
Supply	230 V - 50 Hz	
Compressor power	1/8 HP	1/5 HP
Watt	230 W - 1 A	300 W - 1,3 A
Inlet water Pipe	Ø 8 mm (5/16")	
Inlet water pressure	2.5 bar (0.25 MPa) - 3.5 bar (0.35 MPa)	
Inlet CO ₂ Pipe	Ø 8 mm (5/16")	
Dispensing area height	280 mm	331 mm
Dimensions LxDxH (mm)	261x499x418	318x499x470
Packaging dimensions LxDxH (mm)	310x540x470	390x590x540
Net weight (kg)	28	31
Gross weight (kg)	31	35

* Rated at a room temp. of 25°C and inlet water temp. of 20°C
 For the technical data of other models, examine the rating plate attached to each product.

Unpacking

- Remove the HydroChill from the box and remove the inner packing.
- In 30 model, the packaging can be easily moved by the handles on the two sides of the box (see 1, Fig 1).
- Once you have unpacked the unit, ensure that it is not damaged. You must inform the reseller about any damages as soon as possible after delivery.
- If the unit has been shipped horizontally or at an angle, it will be necessary to wait at least 8 hours before setting it up, in order to allow the cooling circuit to reset itself.
- Ensure that the unit is installed and connected to the main supply by a qualified technician in compliance with the manufacturer's instructions and the local safety guidelines.



Fig 1

Note there are no user serviceable part inside the HydroChill.



Fig 2

Siting the product

- Wear safety gloves when handling the unit.
- The unit must be handled by two people.
- Site the unit away from sources of heat.
- Do not place on inclined surfaces. Leave at least 10cm around the unit to allow for ventilation.

Sanitise the product as described in the paragraph on page 20.

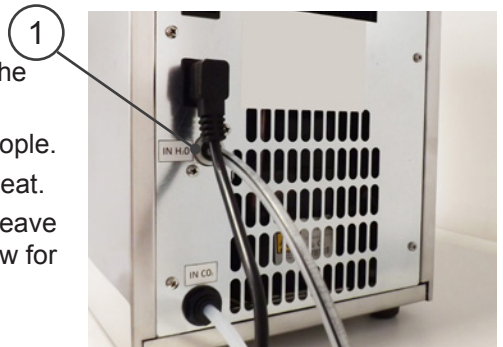


Fig 3

Water supply connection kit

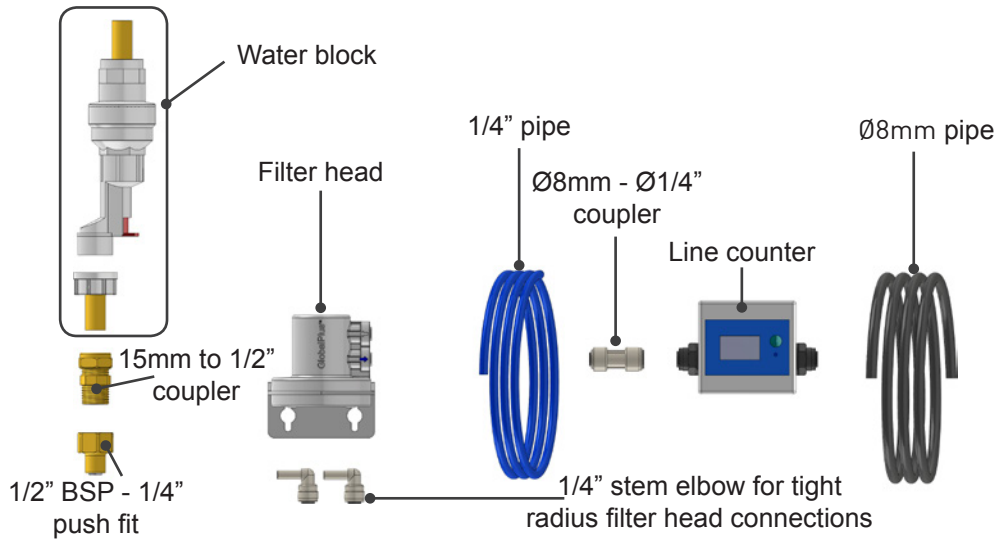


Fig 4

Water supply connection detail, assembled

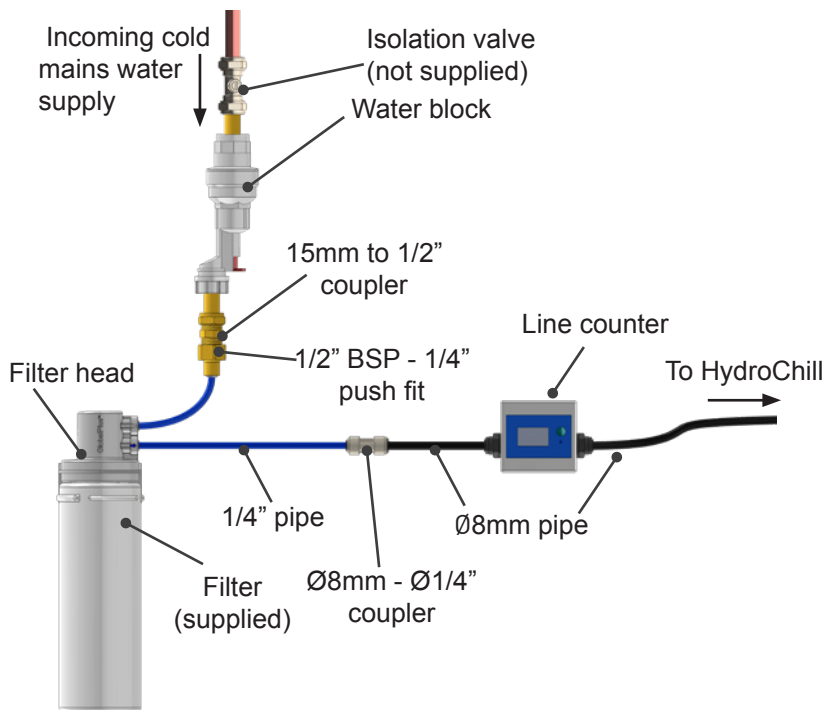


Fig 5

Connection to the mains water supply



WARNING (also see precautions pages 2 & 3)

- To connect the HydroChill to the mains water supply, always use a new set of connectors, pipes & fittings.
- Mains water pressure limits, see Technical data page 10.
- To enhance the quality of the sparkling water dispensed, an incoming flow rate in excess of 3.5 l/min is recommended.
- Connect incoming water tube (1) above to the drinking-water main, ideally with a tap upstream of the HydroChill.
- Connect the drip tray (provided closed - 2) to a drainage pipe, drill out, max. $\varnothing 7\text{mm}$ (2) and inserting a pipe on the drain connection $\varnothing 10$ (3) located below the machine.



Fig 6

- HydroChill models are equipped with a non-return valve combined in the water block.
- Once the pipes are attached, turn on the tap. Ensure there are no leaks.
- Before drinking the water from the system, perform a thorough rinse of the circuit by dispensing water from each product line.



Fig 7

Electrical connection

- The connections must comply with local regulations.
- The HydroChill must be earthed.
- Connect the power cord to the IEC inlet (1) and to a socket.
- Turn the unit on by selecting the “I” position on the main on/off rocker switch (2).
- The compressor and fan are now activated.
- On the sparkling models, the carbonator pump is also activated.
- Press the “Sparkling Water” button on the right of the keypad (4) in order to release any air in the circuit and to allow the pump to fill the carbonator with water.
- After around 1-2 minutes, the sparkling water pump stops.

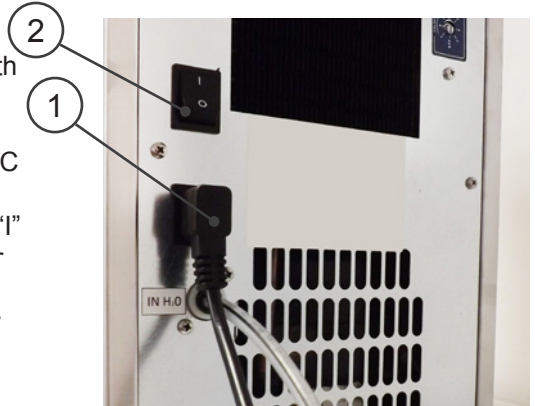


Fig 9

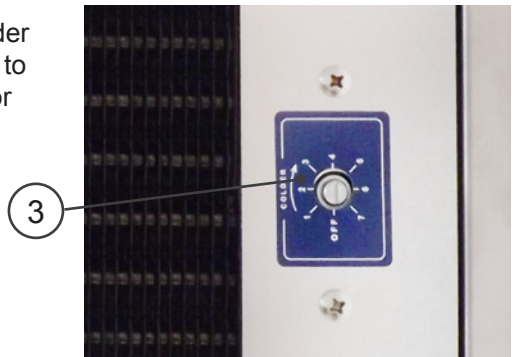


Fig 10

Thermostat

- The thermostat (3) is set in the maximum position to control the water temperature.
- Turn the thermostat screw to adjust the water temperature.

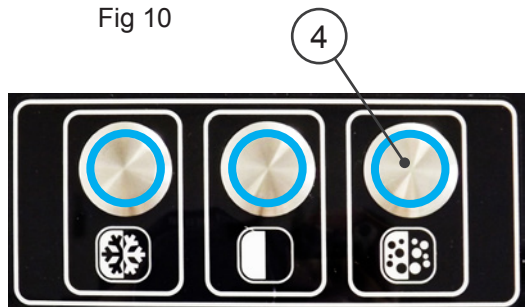


Fig 11

Installing the CO₂ cylinder (sparkling models)

(Not supplied by Zip)



WARNING (also see precautions pages 2 & 3)

- The area must be properly ventilated.
- The CO₂ cylinder must be used in a vertical position, and must be restrained safely, to prevent it falling over.
- Double check that the cylinder is the correct CO₂ gas for this application (see below).
- Once the unit is connected to the mains water and electricity, you can install the E290 food-grade carbon dioxide (CO₂) cylinder.
- Attach the regulator & CO₂ pipe to the cylinder valve.
- Insert the CO₂ inlet tube from the cylinder into the fitting (1). Be sure to remove any air in the hydraulic circuit and to achieve a good level of carbonation, before opening the valve on the CO₂ cylinder pull the ring of the remote safety valve (2) until water comes out of it.
- When the cylinder is open, to increase or decrease the level of carbonation of the water, you need to adjust the screw (3) on the pressure reducer.
- Turning it clockwise increases the level of carbonation.
- We recommend that you do not exceed 4 bar of pressure (4).
- To achieve a good level of carbonation, you need to wait until the water is sufficiently cold – i.e. at least one hour after installation.

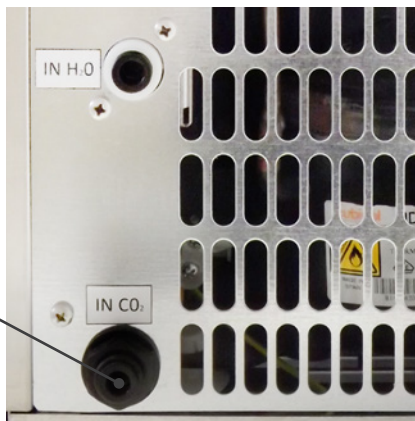


Fig 12

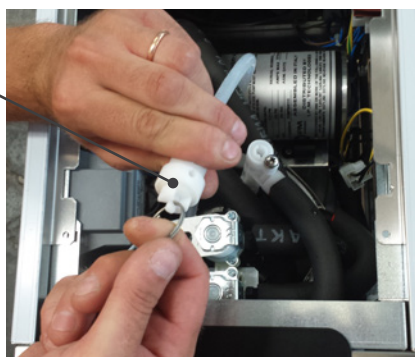


Fig 13

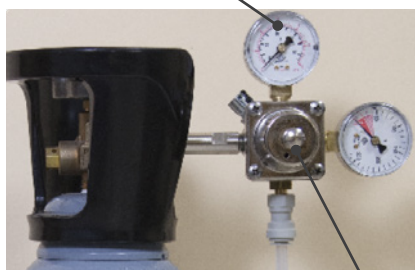


Fig 14

General CO₂ cylinder safety guidelines



WARNING (also see precautions pages 2 & 3)

- All of the cylinders must be fitted with a valve protector cap, which must be on tight at all times when the cylinder is not in use.
- The cylinders must be handled with care. It is essential to avoid: Clashes with other cylinders or surfaces; dropping the cylinders; or subjecting them to mechanical stress.
- All of the above may compromise their integrity and resistance.
- The cylinders must not be lifted by the cap, or dragged, rolled or slid along the floor even if only being moved for short distances.
- An appropriate hand cart or other suitable means of transport should be used.
- Do not use magnetic lifters or slings with rope.

CO₂ connection (sparkling models)

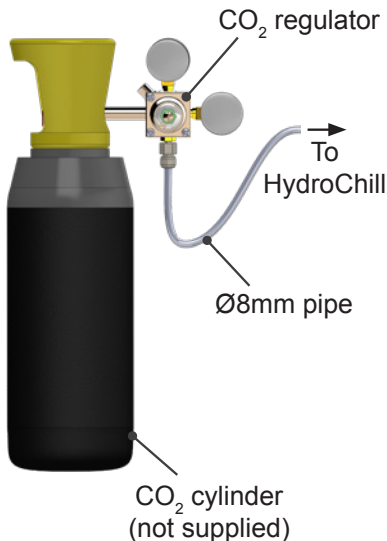


Fig 15

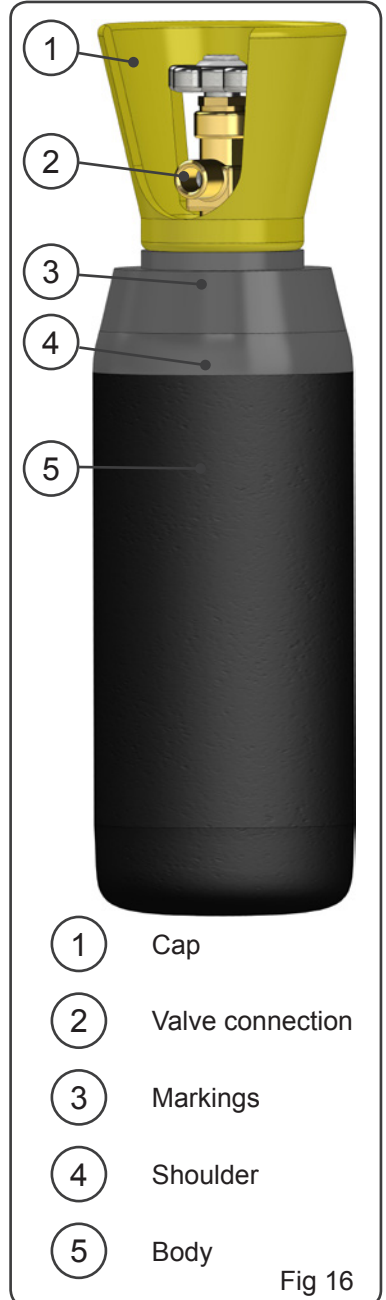


Fig 16

Filter removal, replacement & flush

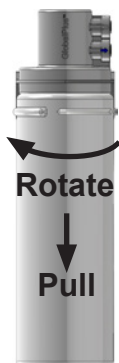
Insert filter



Caution Water will drip as the cartridge is removed. Do not tilt the cartridge as water may spill from it if tilted.

- Isolate the water supply.
- Unpack replacement cartridge and remove sanitary cap, write today's date where shown on the label. Avoid touching the filter o-rings and filter opening as this may cause bacterial contamination of the cartridge.
- Moisten the o-rings with water, align the front cartridge label to the left (as shown in the "insert filter" diagram below), and push the new cartridge up into the filter head.
- Turn the cartridge a quarter turn anticlockwise until it comes to a complete stop and locks, with the front label facing forward.
- Turn on the water supply.
- Flush the filter by dispensing chilled or ambient water for 5 mins.

Remove filter



When completed, clean up and dispose of old cartridge and packaging.



WARNING

If the HydroChill is switched off for a long period of time (e.g. more than a weekend), run water through the chilled water outlet for at least 5 minutes before consumption.

Fig 17



WARNING

The light emitted by the ultraviolet lamp may cause serious burns to the eyes and skin.

Installation repair and maintenance shall only be reformed by personnel qualified to work on UV products.

Sterilizing UV filter

- Alongside the carbon filter, it is also possible to have your water cooler fitted with a UV-C ($\lambda=254$ nm) sterilizing filter on the dispensing point
- The UV-C light emitted by the special 4W mercury vapour lamp is lethal for all micro-organisms (bacteria, viruses, mould, algae, etc.); for this reason, water treated with the UV-C sterilizer will be micro-biologically pure.



Fig 18

Technical data

- Material AISI 304 and quartz tube
- Power rating 24V AC
- Power consumption 4Wh
- Maximum capacity of the lamp 9.000 h (max 12 months)

The UV sterilizer complies with European quality and safety guidelines.

General guidelines

- The HydroChill should be sanitized at first installation or
- When the hydraulic components are being replaced, or
- When the filter is being changed, or in any case at least once a year.
- This operation must be carried out by Zip qualified technical personnel who have completed specific training courses on hygiene and sanitization.

External cleaning of the unit



Read the precautions and general recommendations, page 2

- To clean the HydroChill, use a soft cloth and a dedicated product for the cleaning of stainless steel.
- To remove lime-scale use a proprietary cleaning agent (citric acid or similar).
- DO NOT USE alcohol or solvent based products or excessively acidic solvents that can ruin the surface of the steel.

Cleaning the drip tray

- When it is necessary to clean the drip tray, use a diluted lime-scale cleaner (citric acid or similar).
- The drip tray can also be washed in the dishwasher.

Cleaning the dispensing nozzles

- On a daily basis, spray a diluted hydrogen peroxide solution (e.g. Cooler Clean) onto the nozzles., or use sanitisation wipes, available from Zip - call 0345 6 005 005.

Cleaning the keypad

- Before cleaning the keypad, it is essential to turn off the unit to avoid accidental water supply.
- Clean with a soft cloth and alcohol-free glass-cleaning products.
- DO NOT USE a jet of water to clean the HydroChill, or abrasive detergents.

End of life disposal



The use of this crossed out wheeled bin logo indicates that this product needs to be disposed of separately to any other household waste.

Within each of the European Union member countries, provisions have been made for the collection and recycling of unwanted electrical and electronic equipment.

In order to preserve our environment we ask that you dispose of this product correctly. Please contact Zip Customer Service for advice on 0345 6 005 005.

Packaging materials

The packaging materials are 100% recyclable. Please follow the local guidelines on waste disposal. For safety reasons keep the packaging material out of the reach and sight of children.



Information on the natural, eco-friendly refrigerant gas used in this cooler

This product contains no CFCs or HFCs, which contribute to global warming. Indeed, it is the first water cooler on the market to use natural refrigerant. The refrigerating system is filled with HC R290 – Propane: a natural gas that does not contribute to global warming and that, thanks to its specific characteristics, allows for substantial energy savings to be made.

WARRANTY

The Zip appliance you have chosen is precision-built from the finest materials available and should give many years of trouble free service.

Certain warranties may be implied by law into your contract with Zip. The warranty provided below is additional to these implied warranties and nothing set out below shall limit your statutory rights or rights at law.

Zip Water UK warrants that, should any part fail within 24 calendar months of installation, that part will be repaired or replaced free of charge by Zip or its Distributor or Service Provider, except as set out below, provided the appliance is installed and used strictly in accordance with the instructions supplied, and that failure is not due to accident, misuse, abuse, unsuitable water conditions, or to any alteration, modification or repair by any party not expressly nominated by Zip. No costs are payable by the customer other than any mileage or travelling-time charges incurred by a Zip Service Provider or the cost of removal, cartage and re-installation of any component of the appliance if it needs to be returned for repair to Zip or its Distributor.

This warranty does not cover damage resulting from non-operation of the appliance or consequential damage to any other goods, furnishings or property. Zip does not exclude, restrict or modify any liability that cannot be excluded, restricted or modified or which cannot, except to a limited extent, be excluded, restricted or modified as between the owner or user and Zip under the laws applicable.

Furthermore, this warranty does not displace any statutory warranty, but, to the extent to which Zip is entitled to do so, the liability of Zip under any statutory warranty will be limited at Zip's option to the replacement of the appliance or supply of equivalent appliance, the payment of the cost of replacing the appliance or acquiring an equivalent appliance, or the payment of the cost of having the appliance repaired or the repair of the appliance.

Note It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

To ensure you have the latest revision of this instruction manual, please visit www.zipwater.co.uk to download the latest copy.

IMPORTANT No liability is accepted for incorrect use of this product.



IT'S WATER. REFRESHED.



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