

ZIP CHILLMASTER

Commercial chiller systems.



IT'S WATER. REFRESHED.

MODEL NUMBER:

CH101



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IMPORTANT SAFETY INSTRUCTIONS



- Please read all installation requirements, installation procedures and precautions before installing any Zip product.
- Do not install the Chillmaster without reading all of the applicable instructions.
- Installation, commissioning and maintenance of the Chillmaster must only be carried out by a competent installer who will then be responsible for adhering to all relevant standards and regulations.
- The Chillmaster must be wired to a user easy accessible double pole switched fused spur with a minimum breaking capacity of 13A and protected by a suitably rated RCD.
- Installation must comply with current IEE regulations and local authority requirements.
- **⚡ The Chillmaster must be earthed.**
- Check that the power supply is switched off prior to electrical connection.
- The Chillmaster, its wiring and piping must not be modified in any way.
- In case of malfunction isolate the electricity supply immediately. In case of leaks also isolate the incoming mains cold water supply. Repairs must only be carried out by Zip or an authorised service engineer.
- If the power supply cable is damaged it must be replaced by an authorised Zip service engineer or a qualified electrician.
- The power supply cable must be adequately secured.
- Do not remove the cover under any circumstances without first isolating the Chillmaster from the electricity supply.
- This Chillmaster must not be used by any person (including children) with limited physical, sensorial or mental abilities or failing experience and / or knowledge unless they are supervised by a person responsible for their safety, or have received instructions about how to use the Chillmaster.

IMPORTANT SAFETY INSTRUCTIONS

- Children should be supervised in order to make sure that they do not play with the Chillmaster.
- The Chillmaster must only be used when correctly functioning and installed.
- This Chillmaster is approved to the LVD and EMC directives and is CE marked.
- This product has been examined, tested and found, when correctly fitted, to comply with the requirements of the United Kingdom Water Regulations / Byelaws (Scotland).
The products are listed under the WRAS (Water Regulations Advisory Scheme) Water Fittings and Materials Directory.
- **Zip cannot be held liable for any damages caused by failure to observe these instructions**
- **Caution: Refrigerant** The Chillmaster contain R134a refrigerant under pressure. No part of the Chillmaster should be exposed to a naked flame.
- Maintenance of the refrigeration unit must be carried out by an accredited service provider or qualified refrigeration mechanic.
- Leave these instructions with the end user after installation.

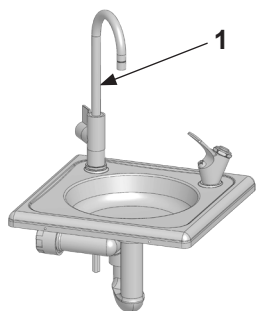
TECHNICAL DATA

Model	Chilled water	Ambient water	Capacity chilled (200ml glasses / hr)	Power rating (kW) 230V	Unit Dimensions W x D x H (mm)	*Dry weight (kg)	*Full weight (kg)
CH101	●	N/A	140 @ 5-10°C	0.3	350 x 350 x 915	25	26.8

- 1/2" BSP connection to mains water supply.
- A wholesome (cat 1) water supply is required.
- Minimum water pressure of 0.17 MPa (1.7 bar).
- Maximum water pressure of 0.5 MPa (5.0 bar).
- Power Supply: 1/N/PE 230V AC correctly rated for the Chillmaster (see power rating above).
- Chiller type: Fan cooled condenser with compressor. Operating temperature range 5°C - 35°C.
- Storage capacity: 1.8 Litres.
- Refrigerant type: Non-toxic R134a.
- Heavy duty ChillTap, chrome plated brass, self return lever action, vented with swivel spout.
- Filtration type: Submicron filtration.

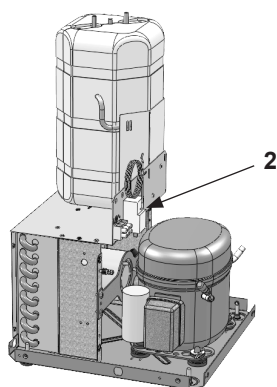
SPARE PARTS AND ACCESSORIES

Spare parts



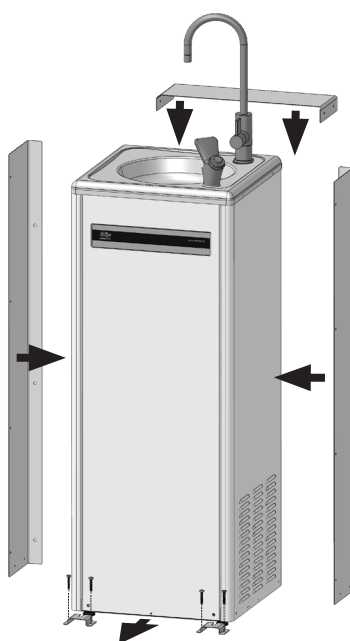
Item	Part No.	Description
1	SP99249	Heavy duty self return ChillTap
2	SP7036	Thermostat
	SP90019	Fan motor kit (not shown)
	93704	Sub micron filter

Accessories



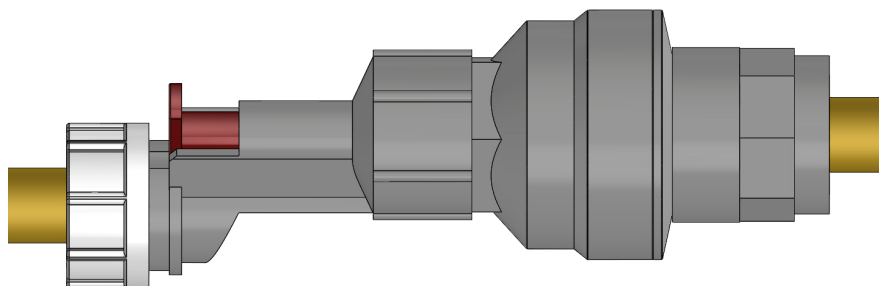
Item	Part No.	Description
Optional	ZG500*	BREEAM installation kit
Optional	ZI001	Drinking bubbler
Optional	HE45004	Water block (water shut down system)
Optional	ZD003	Waste water dish
Optional	ZE001	Disposable cup dispenser

* The Optional ZG500 Installation kit allows the Chillmaster to be installed fully in accordance with the requirements of BREEAM Health & Wellbeing Credit HEA 16 (Drinking Water) by enabling the Chillmaster to be securely attached to both the wall and the floor as well as providing security covers to protect the water and electrical connections.



ZG500 BREEAM Kit

WATER BLOCK



Description

- The water block is designed to be installed upstream of any Zip product and associated pipe-work to minimise the potential for water leakage in the event of a system malfunction.
- The water block is ideal for limiting potential leakage and resulting water damage from water heaters, water chillers etc. when fitted in supply pipe work that is subject to mains water pressure.
- Once set, the water block will ensure that the volume of water that can flow through at one time is limited to a pre-determined maximum, providing the flow rate through it exceeds 2 litres per minute.
- The water block also incorporates a non-return valve.
- The water block is WRAS approved.

Specification

Flow control range	5 - 50 litres
Minimum / Maximum pressure	0.2 - 10.0 bar
Maximum ambient temperature	40°C
Maximum water temperature	70°C
Minimum operating flow rate	1.5 +/- 0.5 litres / min.
Inlet connection	3/4" BSP female or 15mm
Outlet connection	3/4" BSP male or 15mm

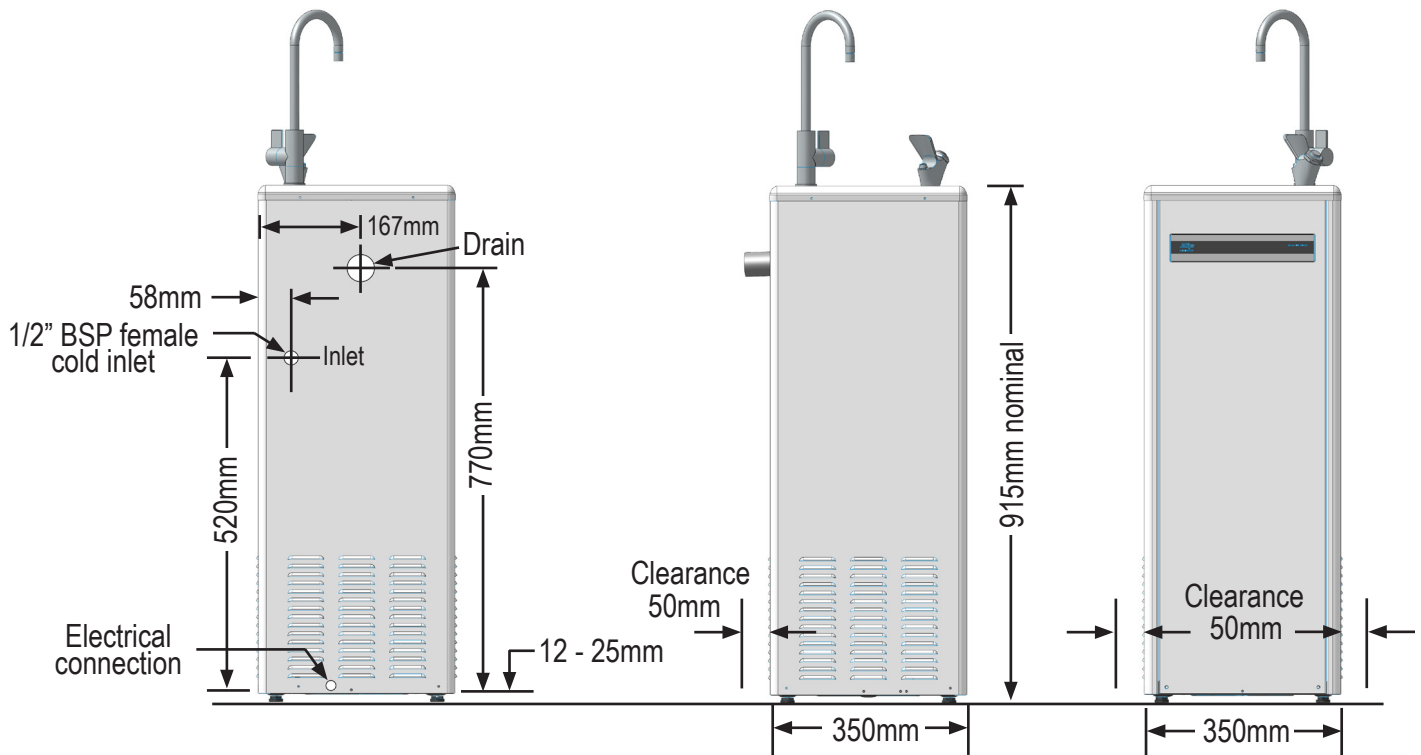


Precautions

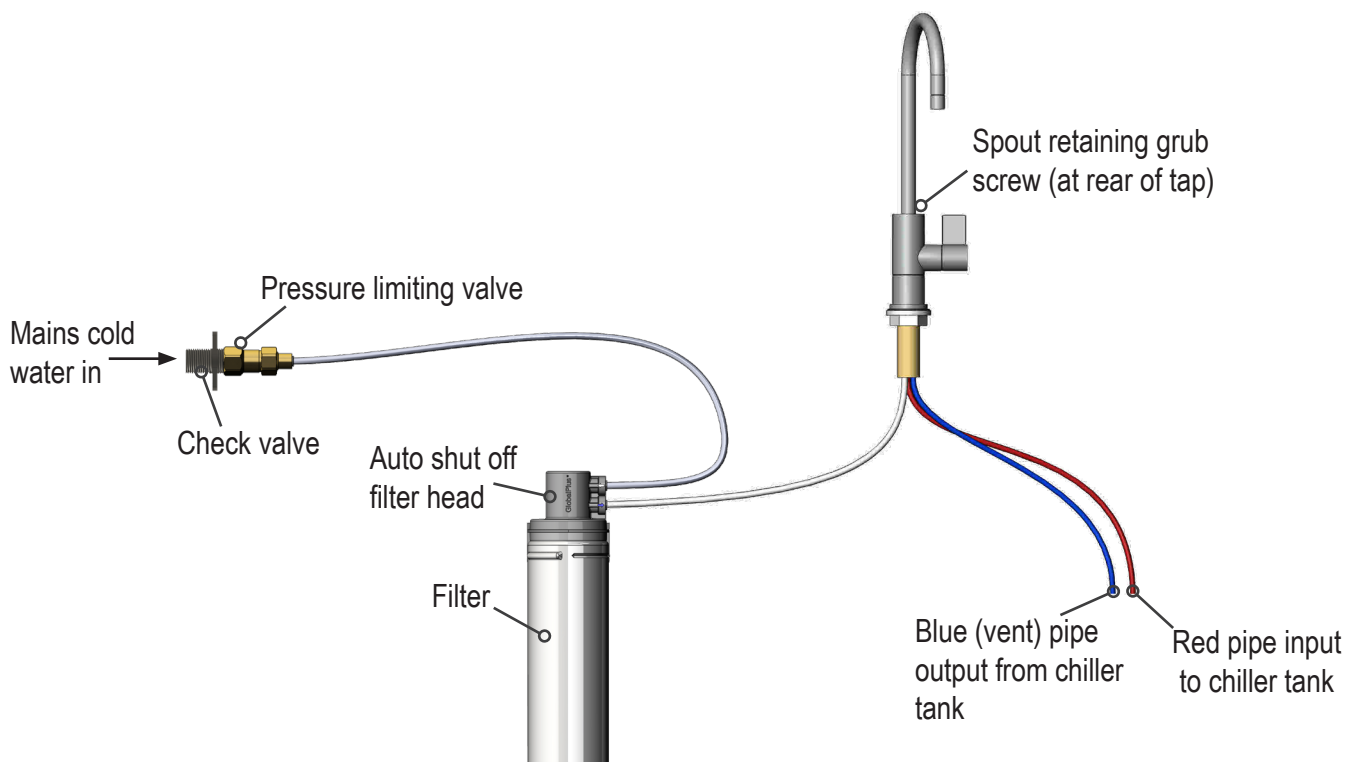
- The Water Block will help to contain leakage exceeding a rate of 2 l/min.
- **Note** The leakage at lower flow rates may not be detected by the Water Block and could remain unchecked.
- Appropriate measures should be taken to contain leakage in these circumstances.

GENERAL INSTALLATION INSTRUCTIONS

- The Chillmaster is an indoor appliance and must not be exposed to the elements.
- Installed height will vary due to adjustable feet.
- Place the Chillmaster on a level floor and screw the feet in or out as appropriate, ensure that the Chillmaster is level and steady.
- Leave a 50 mm gap between the sides of the Chillmaster and adjacent walls, to allow air flow through the vents.
- The rear of the Chillmaster can be flush mounted against the surface of a wall if the plumbing permits.



CONFIGURATION



INSTALLATION INSTRUCTIONS

Plumbing (see general installation instructions, page 6)

- Connect the mains cold water supply to the 1/2" BSP female inlet at the back of the Chillmaster.
- Connect the 40 mm PVC female outlet at the back of the Chillmaster to waste.
- Alternatively, there are pre-punched holes in the base of the Chillmaster for bottom access to plumbing services.
- Carefully insert the tap spout into the tap body & retain with the grub screw at the rear of the tap body.
- The Chillmaster incorporates back flow protection. No further back flow protection is required for connection to the water supply.

Electrical

- Electrical connection is to be made by an authorised Zip service engineer or a qualified electrician. Installation must comply with current IEE regulations and any local authority requirements.
- Chillmaster must be wired to a double pole switched fused spur with a minimum breaking capacity of 13 amps.
- The supply cable is supplied, but if replaced, should be 3 core 0.75mm² minimum and securely fixed by the cable clamp inside the Chillmaster.



 **The Chillmaster must be earthed.**

- DO NOT turn the electricity supply on until the Chillmaster is purged.
- Fit the filter change reminder light batteries to the circuit board (matching the polarity indicated). The batteries are located on the PCB inside of the front cover. To remove, undo the two screws at the base of the cover and lift out.

COMMISSIONING

- Purge the air from the Chillmaster when the plumbing connections are complete by turning on the incoming mains cold water supply and operating the tap until the water flows through without spluttering.
- Allow 10 litres of water to flow through, to purge the system of air and particulates.
- Check for leaks.
- Repair as necessary.

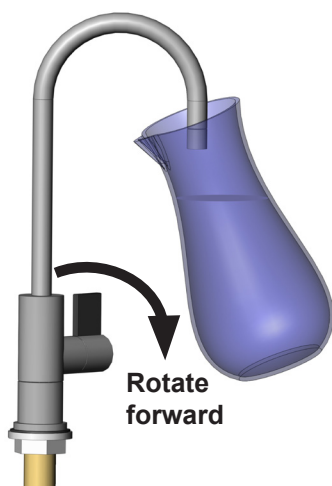
OPERATION

Operating the Tap

- Chilled water is dispensed (within the rated capacity) by rotating the spring loaded lever. In the upright position the tap is off. When the lever is rotated forward water will flow until the lever is released. When released, the lever will spring back to the upright (off) position.

Operating the Bubbler (if fitted)

- Chilled water is obtained momentarily by pressing the bubbler button. Water will stop flowing once the button is released.



BATTERY REPLACEMENT



- The Chillmaster has a filter replacement reminder light that shows through the front label. The 2 AAA reminder light batteries (located on the inside of the front cover) must be replaced at the same time as the filter.
- To remove the front cover, undo the two screws at the base of the cover and lift out.
- Normal operation is for the light to flash once per minute. When the filter cartridge is due for replacement, the indicating light will flash once per second.

FILTER REPLACEMENT

CH101

Remove filter

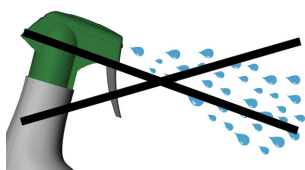


Insert filter



- For safe operation, the filter cartridge should be replaced at least every 6-12 months, or earlier if you notice a persistent reduction in water pressure from the tap or an unpleasant taste or odour in the water.
- For safe operation, thoroughly flush the water through after periods of non-use longer than 12 hours.
- Not changing the filter cartridges when required may cause the water to become biologically unsafe.
- Use only a Zip filter to match the one used in your chiller product (see Spare parts and accessories page 4). The filter cartridge can be obtained through plumbing suppliers or directly from Zip. The filter is located behind the front access panel on the CH101. The installation date should be written on the filter cartridge. No special tools or skills are required to install the filter cartridge.
- Turn off the electricity supply.
- Unscrew the front panel (2 screws at bottom of panel) & lift out to locate the filter.
- Grasp the filter cartridge firmly and twist it horizontally a quarter turn clockwise until it stops.
Some water will drip from the filter head during the replacement process so it is a good idea to have a bucket and cloth handy to catch and mop up any spills.
- Ensure that the electrical connections do not get wet.
- Gently ease the cartridge downwards to detach it from the filter head, then pull it out and discard responsibly. Take care not to tip it up once free as water may spill out.
- Write the date of replacement on the new filter cartridge label.
- Remove the protective plastic cap. Insertion method is opposite to removal.
- Align the tabs of the replacement cartridge with the filter head and insert it up into the filter head.
- Turn the replacement cartridge a quarter turn anti-clockwise until it stops and locks into position.
- When the filter replacement has been completed, purge the system of trapped air by dispense water from the tap until it flows without any further spluttering. Run 10 litres of water through the system to complete the purge.
- Refit the front panel, clean the stainless steel surfaces, wipe dry any water spills.
- Turn on the electricity supply, & wait for the water to cool before drinking.

CLEANING



Never use strong, corrosive or abrasive cleaning materials.

Wipe clean the outer surfaces with a sponge or a soft cloth using a mild soap and water.

The Chillmaster is made of stainless steel that will show scratches if an abrasive cleaning product is used.

The louvres on the sides need to be kept free of dust and lint to permit free flow of air throughout the vents. They should be checked regularly, at least monthly, and dusted or vacuumed.

SERVICE



- There are no user serviceable parts but there are dangerous voltages present within the Chillmaster.

- All service work must only be carried out by a suitably qualified and experienced trades-person.
- Before calling for service, check that both the water and electricity supplies are turned on and functional.
- Call Zip, a qualified electrician or plumber for assistance, service, spare parts, or enquiries.
- Zip customer service 0345 6 005 005.

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 collection and recycling of unwanted electrical and electronic equipment. In order to help preserve our environment we ask that you dispose of this product correctly. Please contact Zip Customer Service on 0345 6 005 005 for advice.

WARRANTY

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 Heaters UK Ltd warrants that, should any part fail within 12 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 chiller 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 chiller 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 chiller, the use of non-authorised parts or consequential damage to any other goods, furnishings or property.

No warranty applies to the life of any filtration cartridge installed with the chiller as cartridge life may vary according to water quality and the rate of water consumption.

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 chiller or supply of equivalent chiller, the payment of the cost of replacing the chiller or acquiring an equivalent chiller, or the payment of the cost of having the chiller repaired or the repair of the chiller.

Registering Your Purchase

Registering your Zip installation on the Zip website may help to establish date of installation should it become necessary to service the chiller under terms of the Zip warranty. To register your installation go to www.zipwater.co.uk and look under the heading "Warranty".

In order to help preserve our environment we ask that you dispose of this product correctly. Please contact your local council for collection centre details.



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Zip Water UK

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