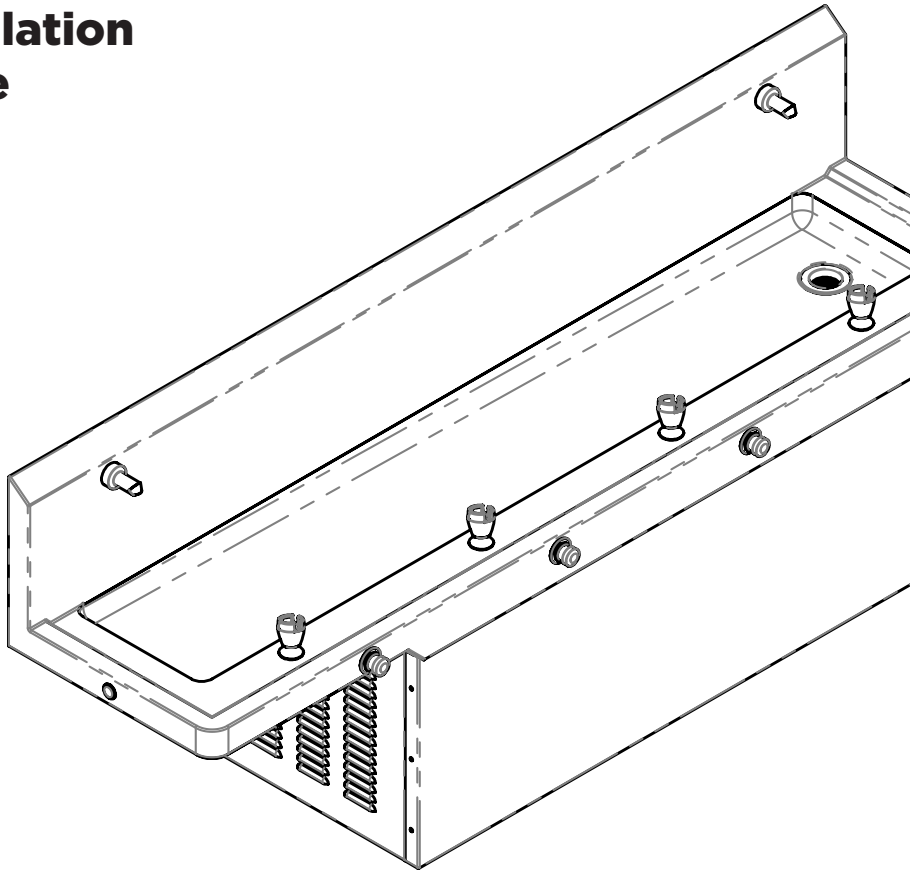


TP6R & TP6R-SS

Refrigerated Accessible Drinking Trough

Installation Guide



IMPORTANT

ALL SERVICE TO BE PERFORMED BY AN AUTHORISED SERVICE PERSON

*Installation of this unit must be in accordance with AS/NZS 3500.1 and AS/NZS 3500.2
For further support and after-sales care, please contact Britex.*

About

The BRITEX Accessible Drinking Trough is particularly suited to school and university projects. The AS1428 compliant Drinking Troughs include pre-plumbed Drink Safe™ low lead water efficient push button drink bubblers with bacteria and sunlight resistant rubber compound mouth pieces for added safety in the event users are bumped whilst drinking. The fully welded stainless steel troughs, rounded corners both internally and externally ensure easy cleaning and provide added safety in high traffic areas. Accessible drinking stations can be supplied at either the left or right-hand end. Available in refrigerated models. (TP6R)

Preparation and Completion Notes

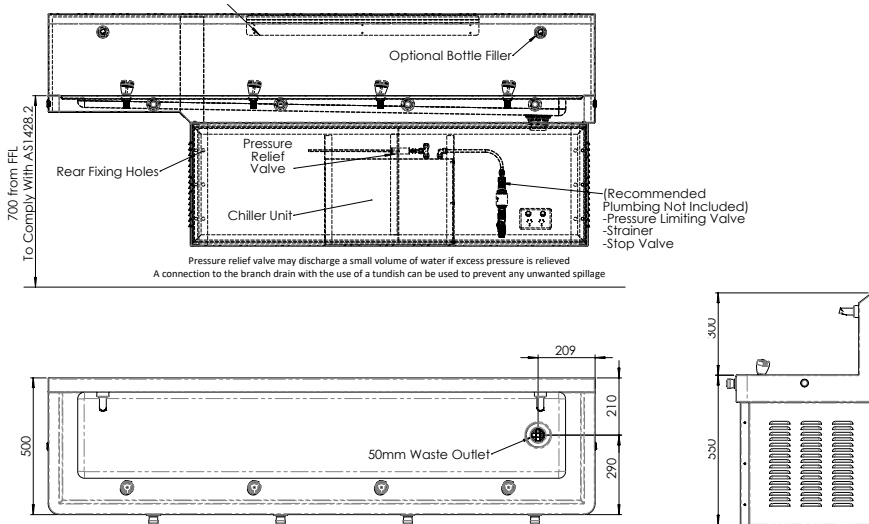
Contractors please note: Ideally, stainless steel troughs should be installed after all other building activities that could cause contamination to the surface of the stainless steel have been completed. These activities include: Using proprietary building mortar removers containing hydrochloric acid. Welding, cutting and grinding that may 'spray' carbon steel and iron particles onto the stainless steel surface.

1. Remove trough from box packaging and inspect for any damage before beginning installation process. Do not remove the protective film from the stainless steel at this stage.
2. Confirm all requested details (trough length, waste position, tap holes etc.) are correct.
3. If trough is damaged in transit or if any details are not as requested, do not install the trough. Notify Britex immediately.

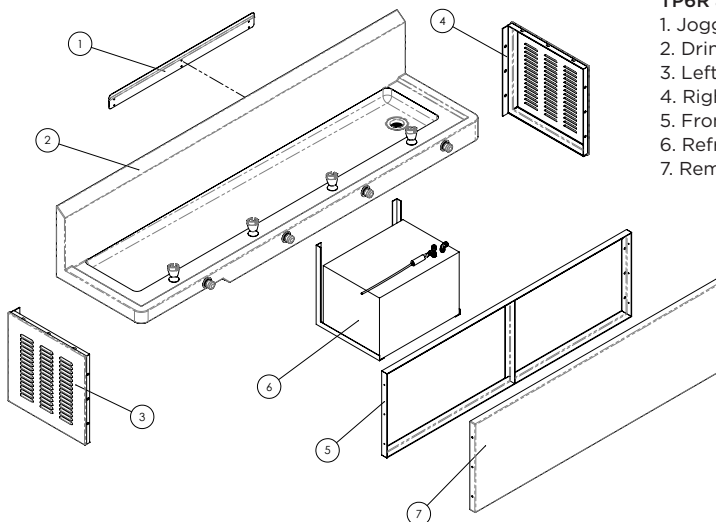
General Services

1. Water supply (500 kPa Max) - Incorporating isolator valve, inline filter and pressure reducing valve, (not Supplied), terminated with a M1/2" BSP to 10mm PE (push in) straight adaptor fitting (supplied).
2. Branch drain - required to receive a discharge pipe from a 50mm waste outlet.
3. Relief valve discharge - A pressure relief valve is located on the refrigerated chiller unit that may discharge a small volume of volume of water, if excess pressure is relieved. A connection to the branch drain with the use of a tundish can be provided to prevent any unwanted spillage.
4. 220-240 V GPO - Required to receive a 10 amp male power cable plug from the refrigerated chiller unit.

TP6R and TP6R-SS Drawing



Accessible Drinking Trough Parts



TP6R and TP6R-SS parts:

1. Joggle Strip
2. Drinking Trough
3. Left Hand Panel
4. Right Hand Panel
5. Front Panel Frame
6. Refrigerated Chiller Unit
7. Removable Front Panel

Installation Instructions

1. Mark vertical centreline on wall where trough is to be installed.

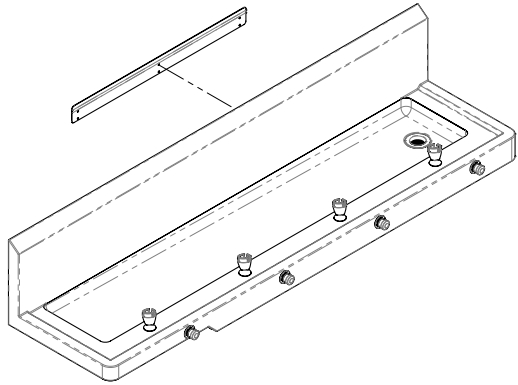
2. Mark a level horizontal line 295mm (for 300mm splash back model) above desired trough height from FFL.

E.G. to comply with AS1428, operable trough height from finished floor level must be 700mm, making horizontal line to be marked at 995mm from finished floor level.

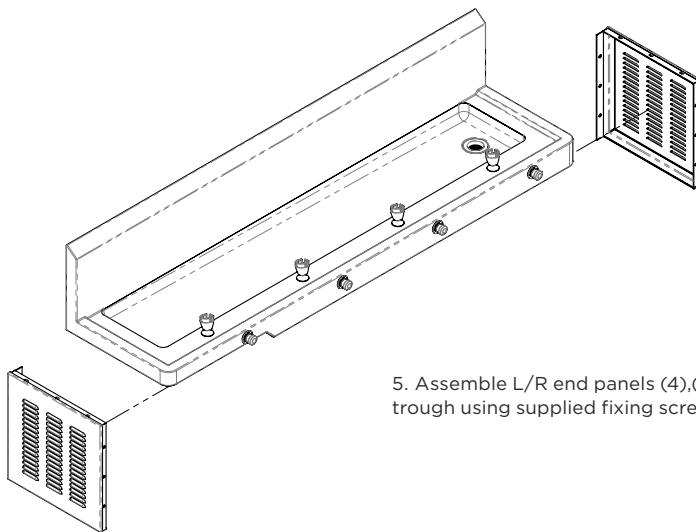
3. Line top of joggle strip (1) up with the horizontal line and mark fixing points.

Insert appropriate wall fixings and secure joggle to wall.

4. Place trough (2) onto wall, hooking rear trough fold onto the joggle, suspending it from wall.



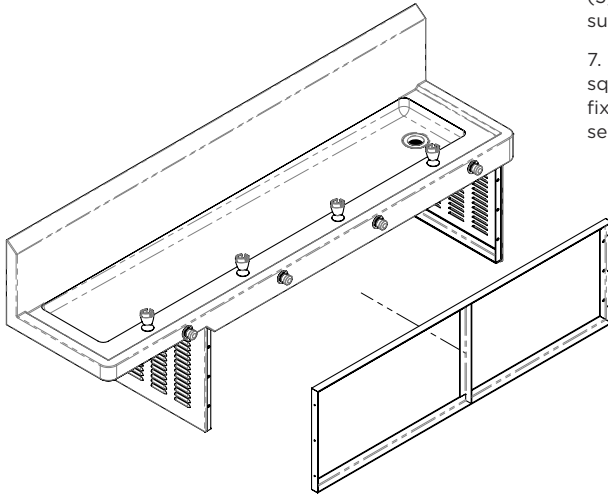
1



5. Assemble L/R end panels (4),(5) to underside of trough using supplied fixing screws.

2

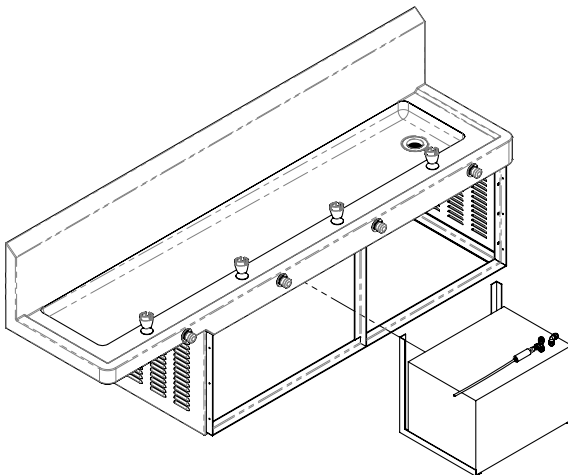
Installation Instructions



6. Assemble front panel frame (5) between end panels using supplied fixing screws.

7. Ensure parts are flush and square. Appropriate wall fixings can now be used to secure end panels to wall.

3



8. The CWU-4 refrigerated chiller unit (6) can now be installed within the confines of the trough shroud. Secure brackets to wall using appropriate wall fixings then place unit on brackets and secure using supplied fixing screws.

Steps 9-14: Installing Refrigeration Unit

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Installation Instructions

9. The trough is supplied with a M-1/2" BSP – 10mm PE push in straight adaptor fitting. Install the adaptor fitting onto the water supply line, which should be located within the confines of the trough shroud. Connect one end of the supplied 10mm PE pipe in the connection of the straight adaptor. The opposite end should then be connected into the 'water in' push-in connection located on the top panel of the chiller unit.

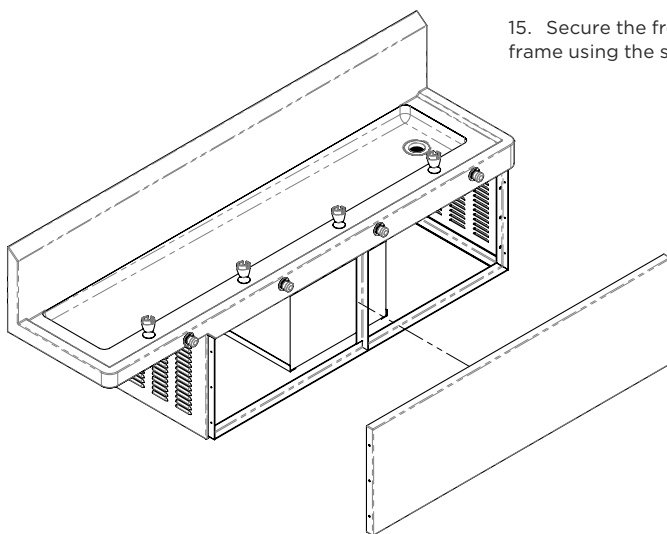
10. All drinking bubblers and bottle fillers have been pre-plumbed and a coiled length of 10mm PE pipe provided for the water supply from the refrigerated chiller unit. Uncoil and connect to the 'water out' connection located on the chiller unit.

11. The trough is supplied with a standard 50mm waste outlet. The outlet should be connected to the drain network with the use of a discharge pipe in accordance with AS/NZS 3500.1 and AS/NZS 3500.2.

12. A short length of PE pipe is connected to the pressure relief drain valve fitting. Outside drinking troughs may have this drainpipe terminated to allow ground spillage if desired or a connection to the branch drain with the use of a tundish can be used to prevent any unwanted spillage. (Pressure relief valve may discharge a small volume of water if excess pressure is relieved).

13. Turn on water supply and press one of the bubbler buttons. This will allow air to bleed out of the chiller water tank and internal piping. Hold the bubbler open until a steady stream of water is flowing through the bubbler. This process should be repeated for each bubbler.

14. Connect power from chiller unit to 10amp GPO ideally located within the shroud of the trough. Turn power on, the chiller will automatically start. The chiller will require 20-30 minutes to chill the water to optimum temperature.



15. Secure the front panel (7) onto the frame using the supplied fixings.

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Specifications for CWU-4 Chiller Unit

	CWU - 4
Height	315 mm
Length	470 mm
Width	330 mm
Dry Weight	22 Kg
Water Tank Capacity	4.5 Litres
Water Tank Safety Pressure Relief Valve	500 kPa
Litres per minute of Chilled Water @ 350kPa	20 Litres per hour cold water supply
Compressor	Hermetically sealed with automatic over load
Condenser	Fan assisted
Temperature Control	Capillary controlled factory pre-set thermostat
Thermostat Pre-Set	5 Degrees Celsius (+2)
Power Supply	10 amp power cable and plug
Capacity	1 / 4 HP
Power	410 Watts
Optimum Ambient Operating Temperature	2 – 30 Degrees Celsius
Minimum Working Pressure	100 kPa
Maximum Working Pressure	500 kPa
Water Inlet	10 mm PE Push in Fitting
Water Outlet	10 mm PE Push in Fitting
Optimum Quantity of Serviced Taps/ Bubblers	4

Troubleshooting for CWU-4

IMPORTANT

ALL SERVICE TO BE PERFORMED BY AN AUTHORISED SERVICE PERSON

SYMPTOM	CAUSES	ACTION
No Water	Water supply	Check main supply
Water not cold	<ul style="list-style-type: none">• Loss of gas• Failed fan	Contact manufacturer
	No power supply	Check and test power supply
	Poor ventilation	Clean cabinet louvers (if fitted) and condenser fins. These units need ventilation

Troubleshooting for Manual Push Button Tapware

PROBLEM	CAUSES	ACTION
Inconsistent flow	Blocked top assembly	Remove top assembly and clean
Water is not flowing from tap	Water is turned off	Turn on water
	Blocked flow regulating screw	Remove flow regulating screw and clean
Continuous flow	Top assembly loose or internally obstructed or damaged	Remove top assembly, clean with water and re-grease spindle if required
Rate of flow inadequate	The flow regulating screw may not be adjusted correctly	Remove blanking screw and adjust flow regulating screw as described above
Button hard to press	The mains pressure may be too great	Reduce to below 500kPa (70PSI). Regrease spindle if required

How to Activate the Piezo Button



- Press the button once to activate.
- The water will flow for the set duration and turn off automatically.
- Alternatively press the button at any time to turn off.

DO NOT OPERATE PIEZO FOR 20 MINUTES IF YOU HAVE UNPLUGGED AND REPLUGGED THE BATTERY. IF SO, THEN YOU MUST FOLLOW THE RE-PROGRAMMING STEPS SHOWN IN TROUBLE SHOOTING.

Troubleshooting for Electronic Piezo Activation

PROBLEM	CAUSES	ACTION
No water flow	Battery faulty	Replace battery
	Electrical interference	Ensure electrical suppressors are installed correctly
	No power	Check power is reaching transformer
	Power supply leads joined incorrectly	Replace electronic components
	Faulty solenoid valve	Check electrical connections, Replace solenoid valve
	Water or structural damage to electrical components	Replace damaged electrical components
	Incorrect connections	Check all connections
	Pressure exceeding 1000kPa	Reduce pressure to solenoid to 850 kPa
	Water corroded electrical connections	Replace electronic components
Continuous water flow	Solenoid valve jammed open	Remove obstruction from solenoid valve
	Solenoid installed incorrectly	Reinstall valve correctly

If the timing of the drinking tap has been changed by unplugging the battery, then please follow the instructions to reset.

To reprogram the taps manually, please follow these steps:

1. Disconnect the power
2. Connect the power
3. Press the button 4x times
4. Wait 5 seconds after which the water will flow and then stop automatically.
5. Press the button 5 times
6. Water will start to flow, after the desired flow duration is achieved press the button to set flow duration time

Note: It's crucial not to interact with the piezo for 20 minutes after programming or reconnecting to power to ensure the settings are locked in.

Care and Maintenance

Cleaning: The coil at the front of the unit and the vents on the side must be kept clean from dust and lint. Regular checks of the unit should be conducted on a weekly basis and cleaning carried out as necessary by dusting with a soft brush and/or vacuuming. A damp cloth can be used to wipe the exterior cover down. Excessive build up of foreign material will result in poor ventilation, causing the compressor to overheat and drinking water to increase in temperature. High pressure hoses and water jets should never be used to clean chiller units.

Stainless steel products should be kept clean at all times. The secret to stainless steel's ability to maintain a high quality finish and promises of a long life expectancy is the invisible chromium-oxide film that sits on the surface and protects the steel beneath. To maintain this film it is essential that the surface remains clean and in constant contact with oxygen. If this film is penetrated (either by abrasion or chemically) and dirt, liquid, grime contaminants embed themselves in these micro chasms for an extended period of time, the chromiumoxide film will not be able to regenerate and the steel below will eventually become damaged and discoloured.

What we recommend for general cleaning and maintenance:

Cleaning Materials:

- A soft cloth
- A soft-bristled brush
- A natural or artificial sponge

Cleaning Solutions:

- Hand washing soap / soft water solution
- Mild soap / soft water solution
- White vinegar / soft water solution

It is recommended that general cleaning of stainless steel surfaces be carried out weekly, or as soon as a build up of surface media has been observed. To clean, simply wash stainless steel surfaces with, warm, diluted, mild soapy water using a cloth or soft bristled brush. Once all dirt, oil and grime is removed, rinse thoroughly with clean water and wipe dry.

Do NOT – use a metal brush or steel wool to clean stainless steel. Ever. These tools will scratch the surface as well as potentially leave behind steel fragments that can go rusty and cause the stainless to discolour. Using these materials will void the warranty.

Do NOT – use scourers of any kind that have previously been used on ordinary steel. Microscopic steel fibers transferred onto stainless steel can cause considerable damage to the surface and will void the warranty.

Do NOT – use abrasive cleaning brushes, pads or agents on highly polished finishes

Do NOT use harsh cleaners that contain powerful acidic or alkaline chemicals such as hydrochloric acid and sodium hydroxide that will damage the surface. Any water coming into contact with stainless steel, particularly cleaning solutions, should have zero chloride content as even minute amounts can cause damage. Using these cleaners will void any product warranty.

Do NOT – use chlorinated sanitizers, cleansers or bleach of any kind. Using these substances will void the warranty. Despite some cleaners displaying the text, 'Suitable for Toilets and Urinals' this is more likely in reference to ceramic/vitreous China products and use of these cleaners can damage stainless steel and will void the warranty.

Do NOT – use brick cleaning liquids that contain hydrochloric acid anywhere near stainless. If cement needs to be removed from stainless (before it sets), a mixture of hot water and 25% vinegar or 10% phosphoric acid can be effective. Once cleaned, the surface should then be neutralised with dilute ammonia or sodium bicarbonate then rinsed and dried.

Warranty

The BRITEX product is backed by our manufacturer's warranty available for download from our website at www.britex.com.au. We expressly warrant that the product is free from operational defects in workmanship and materials for the warranty period indicated on the schedule in the manufacturer's warranty. During the warranty period, BRITEX will repair or replace any defective products manufactured by BRITEX at no charge, provided that the terms of the manufacturer's warranty are followed.

This warranty is the only warranty given by BRITEX, and we expressly disclaim all other warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose. This warranty represents the sole and exclusive remedy for breach of warranty, and BRITEX shall not be liable for any incidental, special, or consequential damages, including lost profits, labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, electrical or any other circumstances beyond BRITEX's control.

This warranty shall be void if the product is abused, misused, improperly installed, maintained, or altered. By purchasing our product, you agree to these terms and conditions. We appreciate your business and look forward to providing you with high-quality products and services.



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