

Installation & Operating Instructions

Birko TwinTemp Undersink Boiling/Chilled Systems

Boiling water and chilled water from the same smart tap.

Key Features

Filtered boiling water or filtered chilled water at the touch of a button.

Chilled water system can be switched to room temperature in winter.

Stylish tap with one-kilo-pressure-to-activate buttons to minimise accidental use.

Polished stainless steel under-sink cabinet.

Supplied complete with triple action filter, cupboard air vents and safe tray.

Key Specifications

Model	TT 15/30	TT 30/30	TT 30/60	TT 60/60
Boiling water delivery (cups)	15	30	30	60
Chilled water delivery (glasses)	30	30	60	60
Boiling water capacity (litres)	2.5	5	5	10
Boiling water recovery (cups/hour)	60	90	90	125
Boiling water element (amps)	10	10	10	10
Chilled water power (amps)	1	1	1.2	1.2
Supply voltage (volts)	220-240	220-240	220-240	220-240
Minimum water pressure (bar)	2	2	2	2
Maximum water pressure (bar)	8	8	8	8
Boiling water unit height (mm)	295	295	295	385
Boiling water unit width (mm)	360	380	380	380
Boiling water unit depth (mm)	360	425	425	425
Chilled water unit height (mm)	430	430	430	430
Chilled water unit width (mm)	300	300	300	300
Chilled water unit depth (mm)	260	260	295	295
Boiling unit safe tray height (mm)	30	30	30	30
Boiling unit safe tray width (mm)	395	415	415	415
Boiling unit safe tray depth (mm)	395	465	465	465

Notes: Cup size is 170 ml. Separate 10 amp power supply required for each boiling unit and chilling unit. Water filter and cupboard air vents supplied with each product must be installed before operation.



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Please Read These Warnings First

Read all installation instructions and precautions before installing any system.

Never attempt to install any system without reading all of the instructions.

All plumbing connections must be made in accordance with AS3500.

Do not install where water is microbiologically unsafe or of unknown quality.

The under-sink units must be installed on a clear level surface.

Filter, safety tray, plinths and cupboard air vents supplied must be installed before operation.

The system is not intended for use by young children or infirm people without supervision.

Young children should be prevented from having access to ensure that they are not able to use the system or play with it.

If the power supply cord is damaged it must be replaced by a Birko Service Provider or qualified technician.

Do not remove the cover of the under-sink unit under any circumstances without first isolating the heater from the power supply.

Do not store detergents or other chemicals in the same cupboard as the under-sink unit.

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Positioning

- Select a position for the tap where it will drain into a sink.
- Preferred position is to the rear and left of the sink bowl.
- Select a position for the under-sink units as close as possible to immediately beneath the tap.
- The under-sink units must be installed on a level surface <1000 mm below top of tap.
- Position the chiller so the front cover faces outwards, with the fan outlet to the left.
- Fasten the filter head assembly to a cupboard wall where accessible for filter changing.
- Ensure the units are positioned on the supplied plinths within the safe tray.

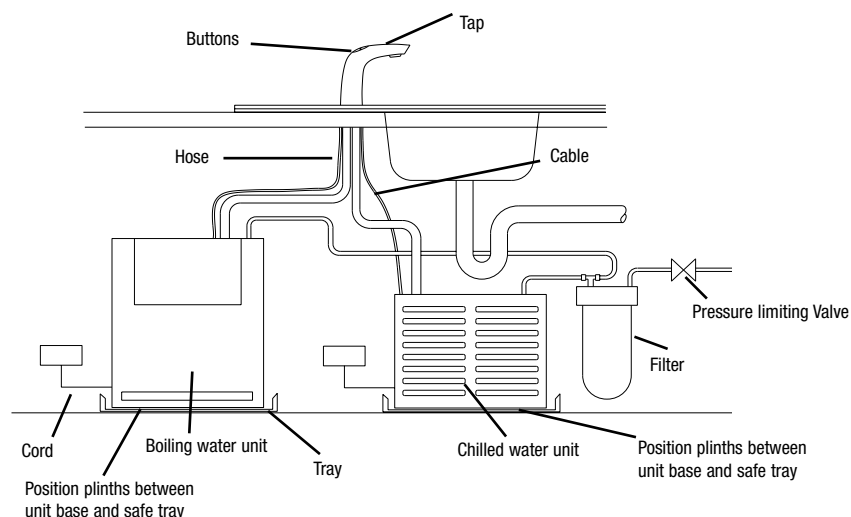
Ventilation

- The cupboard in which the under-sink units are installed must have ample ventilation. This is especially critical when other appliances (like dishwashers) are installed in the same cupboard.
- Without ample ventilation the system may overheat, malfunction or be permanently damaged. A gap of at least 80mm on all sides is required to achieve adequate airflow.
- Sample cupboard vents are supplied with this product to aid ventilation. They or something similar must be installed before operating the system. Louvred cupboard doors are ideal.

Water Supply

- Both under-sink units must be connected to a single cold water supply via
 - a filter (provided),
 - pressure limiting valve (provided) and
 - an isolating valve (not provided).

- Never connect this system to a hot water or warm water supply.
- Minimum operating pressure is 200 kPa and maximum 800 kPa.
- Cold water supply temperature should range only from 5°C to 30°C.
- Do not use sealing paste on water supply joints as it may taint water.



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Plumbing

Do not remove the covers of the under-sink units during installation, all connections can be accessed without removing the covers. Install both safety trays (provided) in the cupboard under the tap. Plumb each tray to a suitable drain by cutting a hole in the side of the tray and attaching drainage tubes and fittings (not supplied). Place two wooden plinths (provided) in each safety tray. Sit each unit on top of the plinths in a stable position.

Tap Connection: To install the tap, first cut a 35mm hole in the sink. Position the tap so the spout drains directly into the sink. Pass the tap hoses and cables through hole to under-sink units. Clamp tap base in position using the clamping device provided. Trim the tap hoses to length and insulate the hose to be connected to the chiller using the insulating sleeve provided. Push the stem end of the grey fitting supplied with the chiller into the fitting marked 'OUTLET' at the top rear of the unit. Connect each tube to the barbed fitting on the relevant unit, using hose clamps to secure them. Do not coil, kink or extend the tap hoses.

Filter Connection: Connect the pressure limiting and double NRV assembly to the water supply after an isolating valve. Mount the filter assembly in a suitable location, allowing access for filter changes. Screw the brass adaptor to the inlet side of the filter head, then screw one leg of the brass tee to the outlet side of the filter head. Firmly screw the 3/4" BSP fitting (black plastic and brass) to the fitting on the side of the chiller marked 'INLET'. Connect a short length of tube between the outlet of the pressure limiting valve and the inlet fitting of the filter, then connect tubing between the brass tee outlets and the inlets to each unit. Use the small brass tube inserts for each tube end being connecting to a nut and olive fitting at the filter. The other fittings are push-in type; ensure each of these is secure with the tube pushed in about 15mm.

Electrical

Connect the low voltage cables from the tap to the under-sink units. (white plugs)

Do not cut the cable: excess cable must be coiled and tied off.

Each of the two under-sink units is equipped with a 1.9 metre power cord and plug to connect to a standard 10 amp 220-240 volt power outlet. Two such outlets are required beneath the sink. For fixed wiring use a licensed electrician.

Note: this appliance is electronically controlled and will not operate with a portable generator power supply or a split system transformer.

Drainage

A vent hose is located inside the under-sink boiling unit to allow for the discharge of any excess water and steam in the unlikely event of a system failure.

The vent hose is intended to drain into the base of the unit whilst maintaining an air break so as to eliminate the risk of cross contamination of the water should the base become filled.

In the unlikely event of a system failure in either or both of the two under-sink units, water may then flow into either safety tray or both. To avoid the risk of damage to cupboards and flooring, both safety trays must be drained as per **AS/NZS3500.4**.

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Commissioning

To avoid damage to the system, water must be turned on before power. When the installation is complete, turn on the water and check for leaks. Push the rocker switch on the left of the chiller down, then turn the power to the chiller on. Operate the blue (cold water) button on the tap, checking for leaks. Run water from the tap until the water runs freely and is clear. This may take several minutes. Push the rocker switch up and chilling will commence. Next turn on the power to the boiling unit and it will automatically prime as below.

Priming Mode

When the power is turned on for the first time, the boiling system will prime itself automatically, covering the heating element. The element will switch ON and boil that amount of water. This will take between 10 and 15 minutes and will start the heat-and-refill process until the boiling chamber is filled. The system then goes into standby mode, keeping the stored water close to boiling point.

Operation

To dispense boiling water press and hold down the red button on the tap. After a two second delay boiling water will flow for 20 seconds or until the button is released. If more water is needed, press the red button again. If, after much use, the system fails to respond, it should be left to replenish itself. If continuous operation is required for 30 minutes or more a rest period of 60 seconds every ten minutes will be necessary. To dispense chilled water, press and hold down the blue button. If drinking water at room temperature is preferred, press the switch on the chiller unit to turn off the chilling function - many users do this during winter. If the taste of the water deteriorates, it may be time to replace the water filter. Always ensure that water AND POWER are turned off before replacing filter. For safety's sake, filters should be replaced at least once each 12 months.

Safety

Take care when using the system otherwise scalding may occur. The boiling unit is fitted with a manual-reset safety device for boil-dry protection. The boiling unit is also fitted with an auto-reset thermostat to detect excessive steam in the event of any failure of the electronic controls or water solenoid valve. If either safety feature is actuated, the system must be serviced by a Birko Service Provider or a suitably qualified technician. It is not user-serviceable. If for any reason the water supply must be turned off, it is most important that the power be turned off to prevent any damage to the system.



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Warranty Information

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

Birko Heaters Australia Pty Ltd warrants that, should any part fail within 12 calendar months of installation, that part will be repaired or replaced free of charge by Birko or its Distributor or Service Provider, except as set out below, provided the appliance is installed and used strictly in accordance with the written instructions supplied, and that the 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 Birko.

No costs are payable by the customer other than any mileage or travelling-time charges incurred by a Birko 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 Birko 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.

Furthermore, this warranty does not displace any statutory warranty, but, to the extent to which Birko is entitled to do so, the liability of Birko under any statutory warranty will be limited at Birko'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.

Registering Your Purchase

Registering your purchase on the Birko website may help to establish date of purchase should it become necessary to service the appliance under terms of the Birko warranty. To register your installation go to www.birkoheaters.com and look under the heading "Warranty".



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June 2003 Publication 601010

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