



EBT Trio Series

Automatic Under Bench Boil, Hot & Chill Units

Installation and maintenance instructions

Please read prior to installation

WHAT'S IN EACH BOX:

BOX 1:

- 1 x EBD Boil/Hot Unit
- 1 x EB WP30 Fusion Tap
- 1 x UBFKI 10B Filter kit
- 1 x EB FM 350 kPa PLV
- 1 x Boiling Water Warning Label

BOX 2:

- 1 x EC 30 Chiller Unit
- 2 x EB 400 JG Connectors

OPTIONAL:

- EB 260 Valve kit for Boil/Hot unit (includes brass adaptors)

Note: Copper line for Manifold construction is not supplied

Important

This unit must be installed by an authorised plumber

The unit to be connected in accordance with AS 3500.4.1
or AS/NZS 3500.4.2

Do not turn on power to the units until water is flowing from
the tap

Please leave these instructions with the owner

Prior to installation

- Flush main water supply inlet prior to making connections.
- Minimum Inlet Pressure 260 kPa
- Only teflon tape to be used where necessary. Under no circumstances is plumbing paste to be used.
- When fitting this unit in a cupboard of small proportions, please note that the unit does omit heat. if in doubt fit cross flow vents.
- Do not connect to the hot water line or fire hydrant supply - to do so will void the warranty.

Product Information

The boil unit is fitted with a computerised element and boil dry protection. The computer is set at 95 Degrees C, altitude will alter the boiling point.

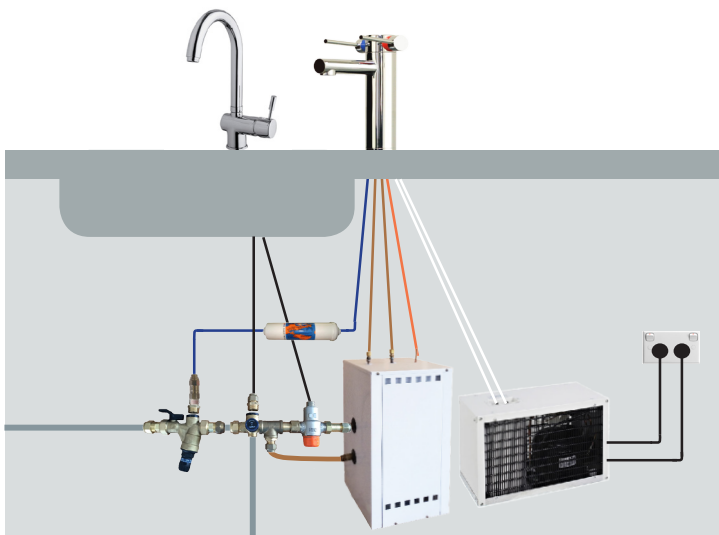
- All Valves supplied must be fitted for the correct operation of this unit.
- We recommend changing the filter cartridge every 12 months.
- We recommend cleaning and servicing the boil unit every 24 months, or every 12 months in hard water areas.
- If the supplied power cord is damaged, it must be replaced by an electrician.

Installation Instructions

- 1. Do not plug the units in or turn on the power until the installation process is complete.**
2. Position the Fusion Boil & Chill tap at the rear of the sink in a workable location relative to the mixer. Drill a 38mm hole to facilitate mounting of the tap. Some shaping of the hole may be required to fit. Secure the tap by tightening the bracket securing nuts.
3. Position the Boil/Hot unit underneath the sink in a position that does not require extensions to be made in the installation hoses that are permanently affixed to the bottom of the Duo Boil & Chill Dispenser tap. The 5/16" copper pipe (boil outlet) may be cut to fit, but never extended.
4. Position the Chiller unit underneath the sink so that the chiller air-intake is as close as possible to the front of the cupboard. The cupboard floor which extends past the toe-board must have a slot cut into it to provide the necessary ventilation (at least 20mm wide by 3/4 the width of the cupboard door). The white inlet and outlet hoses from the Fusion Boil & Chill Dispenser Tap can be extended in length if necessary.
5. Secure the 10" Filter, with the bracket and screws provided, to the cupboard wall in a handy position relative to the mains inlet line as shown, taking careful note of which ports are Outlet and Inlet.
6. The filter cartridge comes with quick fit John Guest connections, simply push the correct inlet/outlet tubes ends into the fittings and pull back carefully to secure.

Note: The next 5 steps involve the installation of an Eco-boil valve kit (supplied if ordered) and small section of copper line (not provided) between the hot inlet port and the tempering valve.

7. Screw the Tempering Valve into the top port of the Boiler unit heat exchanger (the hot outlet port on the side of the unit). Plumb the hot water line from the mixer tap to the Tempering Valve tempered outlet as shown in the diagram.
8. Connect the Brass Tee to the tempering valve then construct a 1/2" copper pipe from the Brass Tee to the heat exchanger bottom port (cold inlet port).
9. Install the Expansion Control Valve (ECV) as shown next to the Brass Tee, remove the top blank and connect to the cold line of the mixer tap. Then use the bottom port and connect to a suitable drain port.
10. Install the Non Return Valve with Isolator next to the ECV also connecting the mains water line. Then connect the 350 kPa PLV using the 15mm brass hex nipple provided. (This PLV protects the blue inlet line and water filter cartridge from water hammer).
11. Then connect the extra blue 1/4" hose the the PLV using the 1/4" brass connector provided and then push this line into the inlet of the water filter quick connector.
12. Connect the hoses on the Fusion Tap to the Boil & Chill Units as follows:
 - (a) 1/4" Blue hose marked "Main Water Supply" fit to Outlet port of Water Filter.
 - (b) 1/4" Black hose marked "Inlet Boiling Water Unit": connect to the 1/4" brass connector on the top of the Boil/Hot Module marked "Inlet".
 - (c) 5/16" Copper Pipe marked "Outlet Boiling Water Unit": connect to the 5/16" brass connector on top of the Boil/Hot Unit marked "Outlet"



- (d) 1/4" Red Oxide Silicon tube: push-fit over the end of the extended copper line marked "Vent" on Boil/Hot Module" top.
- (e) Connect opaque silicon tube to the outlet pipe using the pipe clam connector supplied.
13. There are two 1/4" White hoses coming from the Fusion Tap; connect the "Outlet Chiller Unit" hose to the "Outlet" port on the chiller using the quick fit connectors supplied. Likewise connect the "Inlet Chiller Unit" hose to the "Inlet" port on the chiller. Cut or extend chiller hoses as required and never install with sharp bends - use a John Guest elbow if necessary.
14. Turn on both Boiling and Chilled Water at the Fusion tap until water flows without air bubbles. Then turn on mixer tap at the sink (50/50 cold and hot position) until water flows without air bubbles.
15. Plug both units into power points and switch on and allow 20 minutes prior to testing and use.
16. Check for leaks at all connections.
17. Position 'Caution Boiling Water' label close to the tap to alert users to take care when using the Boil tap.

Trouble Shooting

SYMPTOM	CAUSES	ACTION
Water Overflowing from tap Spout	Expansion Chamber Full	Run tap for 5-10 minutes
	Low Inlet Pressure	Contact Supplier
Excessive Steam from tap	Faulty Element	Replace element
Water not hot	No Power supply	Check and test power supply
	Element faulty	Replace element
No water	Water has been turned off	Check Mains water supply
	Blocked inlet filter	Clean or replace filter cartridge



For more information about Ecoboil and our products,
visit our website or email us:

Phone 09 238 2209

Fax 09 282 4073

Web www.ecoboil.co.nz