HOTSTREAM INSTALLATION INSTRUCTIONS

ELECTRICAL REQUIREMENTS

This appliance must be earthed.
Cold water resistivity rating 1300 ohms/cm at 15° C.
This appliance must be wired and connected by a registered electrician in accordance with local wiring regulations. **WARNING:** A supply isolation switch must be fitted.
Mr Electrician check for cable size to prevent voltage drop.
Use hot tap, air must be bled from heater before electrical power is switched on.
This is an open outlet appliance. Pressure rating 0 pa.

ONLY HOTSTREAM TAPS AND FITTINGS MUST BE USED

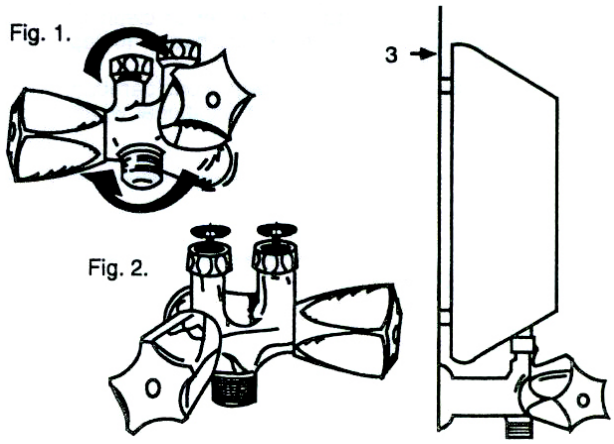
PLUMBING REQUIREMENTS

1. **Minimum water pressure:** 240 kPa (35 psi)
   Maximum water pressure: 517 kPa (75 psi)
2. All units must be installed by a registered Plumber.
3. The Hotstream heater is an open-outlet appliance.
   The outlet acts as a vent and must always remain open to the atmosphere. For this reason, only Hotstream taps and fittings must be used.
4. All air must be bled from heater and pipes by turning on hot tap and letting run for 5 minutes **BEFORE** the electricity is switched on. This procedure must be followed whenever the water supply is interrupted, or whenever there is a risk of air pockets being present in the water supply.
   In areas prone to air locks in the water supply, an air eliminator valve should be fitted.
5. In New Zealand: An isolating stop-cock must be fitted on the cold water supply for all models
6. Take care during installation of heaters.
   Unnecessary force can result in breakage.
7. For multiple installations where all units are likely to be in operation at the same time (eg. bank of showers, wash rooms, hairdressing salons etc.)
   It is **CRITICAL** that the plumbing allows for sufficient water flow, regardless of pressure.
   In general the diameter of the cold water pipe must increase proportionally as the number of units increases, in order to compensate for pressure drops when all units are operating. As an example, for a bank of 8 units a $1^{1/2"}$ feed pipe would generally be required rather than a 1/2" pipe, depending upon the pressure.
8. We recommend fitting a 500 kpa pressure limiting valve to all installations where the incoming pressure exceeds 500 kpa.

WARNING: Water Heater must not be switched on if there is a possibility that the water in the heater is frozen.

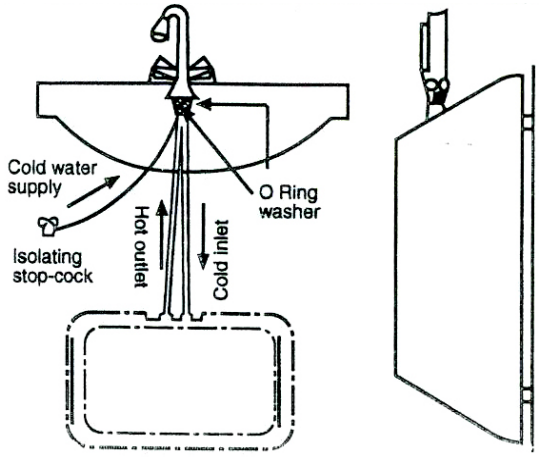
FOR HEATERS INSTALLED ABOVE THE BASIN OR IN SHOWERS

1. For new installations one 1/2" BSP female threaded cold water supply socket is required.
2. Screw the mixing tap into the water main finishing in a horizontal position as illustrated. Fig. 1.
3. Temporarily mount heater unit minus front cover.
   Ensure distance of mixing tap from wall surface is compatible with distance required to attach the unit directly to wall surface.
   Place the supplied washer into each connecting nut and mount the heater into position. When tightening hexagonal nuts on mixer do not apply excessive force.
   - Turn on the water mains supply.
   - Bleed all air from heater and pipes by turning on HOT tap and let run for 5 minutes BEFORE the electricity is switched on



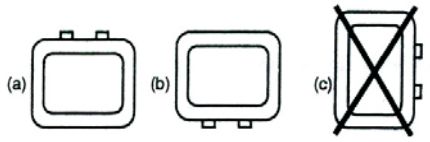
FOR HEATERS INSTALLED BENEATH THE BASIN

1. Fix the three-way combination tap securely to the hand basin or kitchen bench ensuring that the sealing washers supplied are fitted correctly.
2. Turn off the water mains supply.
3. Close both taps of the mixer.
4. Connect the short pipe to the cold water mains.
5. Use the screws provided to mount heater on wall.
6. Connect the long pipe (with the blue arrow pointing downwards) to the inlet side of the heater as shown by the arrow on the heater. (This is the cold water supply to the heater).
7. Connect the pipe with the red arrow to the outlet of the heater. Do not forget the washers.
8. Turn on the water mains supply.
9. Bleed all air from heater and pipes by turning on HOT tap and let run for 5 minutes **BEFORE** the electricity is switched on.

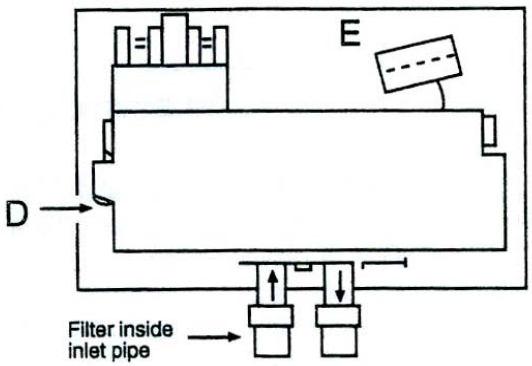


ATTENTION PLUMBERS

The heaters must be mounted in a horizontal position either as illustrated in (a) or (b). They must not be mounted vertically, refer (c). Also after installation, check that the pressure switch activates before electric power supply is connected.



NOTE: Screw D is set after testing of the heater in factory, and is sealed with enamel. **DO NOT** adjust this screw or the warranty is void.



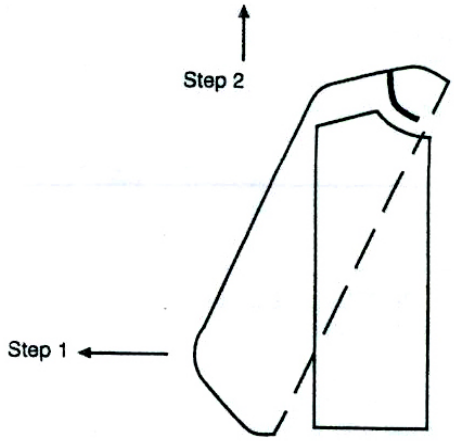
OPERATING INSTRUCTIONS

The Hotstream is a fully automatic resistance-heated water heater. After the heater is properly installed cold water may be obtained by turning on the cold water tap; hot water, by turning on the hot water tap. With the latter, the indicator lamp switches off, water temperature is about 55°C.

(The quantity depends on the kW power of the heater).
The further the hot water tap is turned on, the water flow will increase, and temperature decrease. Now you can select a water temperature between 40°C and 55°C by increasing or reducing the flow from the hot water without using the cold tap.

MAINTENANCE

CAUTION: Always isolate main power before removing cover.
Dirt Removal: Every few years or more often in areas of dirty water supply, sediment build-up in the water filter may prevent the water flow from activating the heater. When this occurs, unscrew nuts joining heater to tap body.
Cover Removal: Remove cover screws adjacent to water inlet, carry out steps 1 and 2.
Gently lift heater to allow access to the inlet water pipe. With a small screwdriver, lift rubber 'O' ring out of inlet pipe. Remove filter, rinse it under cold water to clean it, then replace it and the 'O' ring. Reconnect heater to tap body ensuring washers are in place.
In areas of particularly hard or dirty water, consideration should be given to the installation of an additional water filter.



TROUBLESHOOTING

PROBLEM	SOLUTION OR REASON
(a) Light works but no hot water.	Microswitch malfunction - element ruptured. Replacement instructions are included in new element kit packs available from your plumbers merchant. **DO NOT USE DIFFERENT kW ELEMENT THAN THAT ORIGINALLY INSTALLED.**
(b) No light. By turning on the hot tap valve, the neon light does not glow.	(i) No electric power OR (ii) Insufficient water pressure OR (iii) Water filter blocked. See dirt removal (above)
(c) Hot water too hot to shower under when the hot tap is fully turned on.	(i) Spray nozzle could be partially blocked by sediment. Remove insert by undoing screw and clean OR (ii) Water filter could be blocked. Remove and clean as described under dirt removal (above) OR (iii) If (i) or (ii) does not rectify the problem, increase water pressure or replace heater with smaller kW model.
(d) The same problem as in (c) above but by adding cold water to reduce temperature, the light switches off.	Back pressure caused by spray nozzle being blocked. Clean spray nozzle and problem will be rectified. If not increase water pressure.
(e) After installation, hot water does not give a maximum temperature rise of 40°C with the minimum water flow.	Low voltage. It occasionally happens in rural areas of low voltage. Low voltage will give low water temperature. Your electrician will be able to advise.

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