HOTSTREAM
CONTINUOUS HOT WATER SYSTEM

• Provides a continuous supply of hot water

• Turns cold water into HOT – Instantly!

• Can be used for shower, handwashing or hairdresser

• Compact and wall-mounted, saving floor space

• No storage of water or long hot pipe runs

Hairdresser HS / HDT
Basin HS / BT
Oversink HS / OST
Shower HS / ST
HOTSTREAM SPECIFICATIONS

Product Durability: HOTSTREAM has been designed for a minimum of 6000 operations.

New Zealand Building Code: HOTSTREAM meets the requirements of the New Zealand Building Code clause G12.4.12.1(b), (i.e. maximum 55°C).

HOTSTREAM is suitable for connection in Zone 1 area NZECP2. Appliance must be earthed and have an isolating switch.

Water Pressure:
Check water pressure before installation.
Minimum 35psi – 250 KPA
Maximum 75psi – 500 KPA
Inlet connection ½” BSP – 15mm
Outlet / Tapware: Open vented taps (Only HOTSTREAM tapware should be used)

Electrical Power:
Please note: These products must have an independent power supply from the switchboard with an isolating switch.
HS 4/1 230V 18 amps (4kW single phase)
HS 6/1 230V 25 amps (6kW single phase)
HS 7/1 230V 30 amps (7kW single phase)
HS 8/1 230V 35amps (8kW single phase)
HS 8/2 400V 20 amps (8kW two phase)
HS 10/2 400V 25 amps (10kW two phase)

Flow Rates at 40°C:
(average shower temp with incoming water at 14°C)
HS 4/1 = 2.51/min
HS 6/1 = 3.3l/min
HS 7/1 = 3.51/min
HS 8/1 = 4.4l/min
HS 8/2 = 4.4l/min
HS 10/2 = 5.5l/min

Warranty: 1 year domestic or commercial

Pressure Limiting Valve: We recommend the fitting of a 350KPA pressure limiting valve if the incoming water pressure exceeds 500KPA.

For all spare sparts contact your local merchant. Your local stockist:
Installation Instructions
for new and existing heater replacement

To the installer, Plumber or Electrician:

• **HOTSTREAM** is a push through (open vented) system.

• Only use **HOTSTREAM** taps (open vented) with this heater (hot on the left, cold on the right).

• **DO NOT USE** old **REINHARDT** tapware or unvented taps. i.e. Stoptaps on outlet of units.

• Please check the water pressure before installation. The water pressure must not exceed 500kPa (72psi). If so, a pressure-limiting valve will need to be fitted. (High water pressure will damage the unit).

• **UNIT REPLACEMENT:** (ISOLATE POWER) CHECK EXISTING TAP OUTLETS, SHOWER HEADS, HOSES, SINK ARMS AND ROSES FOR BLOCKAGES AND WATER PRESSURE WHEN REPLACING A HEATER UNIT.

• Before turning on the power to the **HOTSTREAM** unit, please run the water through the unit for **AT LEAST 5 MINUTES** to remove air from the element housing. This should be done using the hot tap.

• If screwing unit back to the wall, see Hotstream Troubleshooting Guide, section 3, No.7.

• 1 Year Warranty – Domestic or Commercial.
The HOTSTREAM instant hot water unit is not designed to be used with any other tapware other than HOTSTREAM tapware in a shower or bathroom vanity or sink.

The reason that other tapware cannot be used is that the HOTSTREAM unit is designed to be OPEN-VENTED and the porting inside of the tapware allows the water to be controlled at the inlet rather than the outlet, while still having the ability to mix the cold supply water with the hot outlet water to achieve the desired temperature.

Open-vented means there is no restriction or blockage on the outlet of the HOTSTREAM unit. i.e. So the unit is not pressurised.

WARRANTY – Failure to comply with the attached instructions will void the warranty. This includes failure to check the unit inlet and outlet pressures. Defects to the product caused by accident, negligence or Act of God will void the warranty.

HOTSTREAM TAPWARE - OPERATING INSTRUCTIONS

PLEASE ENSURE THIS INFORMATION IS GIVEN TO YOUR CUSTOMER

This unit is a fully automatic resistance-heated water heater. After this heater has been correctly installed the heater may be used as follows:

**Cold Water** (ambient temperature) only

* Turn cold tap on (blue) to desired flow.

**Hot Water**

* Turn on hot tap (red), indicator lamp will light. Depending on power a water temperature of approx 55°C may be obtained at minimum flow rate.

WATER TEMPERATURE / FLOW

Unlike other taps the more you open a HOTSTREAM hot tap the cooler the water becomes. This is quite normal for this type of system. If you want to make the water hotter slowly close the hot tap until the desired temperature is reached.

If you want to make the water cooler slowly open the hot tap until the desired temperature is reached or slowly open the cold tap until the desired temperature is reached.

This will differ between Summer and Winter as the water becomes colder in Winter.

Manufactured and Distributed by: HOTSTREAM LTD

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Web: www.hotstream.nz
HOTSTREAM Installation Instructions

1. ELECTRICAL REQUIREMENTS

- This appliance must be earthed.
- Cold water resistivity rating 1300 Ohm.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.
- Electrician to check for cable size to prevent voltage drop.
- Using the hot tap, air must be bled from heater before electrical power is switched on.
- This is an open outlet appliance. Pressure rating 0 pa.

2. PLUMBING REQUIREMENTS

1. Minimum water pressure: 240 kPa (35psi)
   Maximum water pressure: 517 kPa (72psi)
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 the 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, turned off 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 insulating stop-cock must be fitted to 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 (e.g. bank of showers, washrooms, 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 proportionately 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 1½” feed pipe would generally be required rather than a ½” pipe, depending upon pressure.
8. We recommend fitting a 350 kPa pressure limiting valve to all installations where the incoming pressure exceeds 500 kPa.

3. FOR HEATERS INSTALLED ABOVE THE BASIN OR IN SHOWERS

1. For new installations one ½”/15mm 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 in 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 a flat wall surface. If this is not possible - see attachment.
4. Place the supplied washer in to each connecting nut and mount the heater into position. When tightening hexagonal nuts on mixer do not apply excessive force.
5. Turn on the water mains supply.
6. Bleed all air from heater and pipes by turning on the HOT tap and let run for 5 minutes BEFORE the electricity is switched on.
7. A packer may be necessary to allow the unit to be screwed back with even pressure, with no excess pressure on the heater unit (NB: excess pressure on the back mounting cover will cause the unit to leak).

4. 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 and close both taps of the mixer.
3. Connect the short pipe to the cold water mains control tap.
4. 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).
5. Connect the pipe with the red arrow to the outlet of the heater. Do not forget the washers.
6. Turn on the water mains supply.
7. Bleed all air from the 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 the 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 tap 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 and 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.

TROUBLE SHOOTING

PROBLEM
(a) Light works but no hot water.
(b) No light. By turning on the hot tap valve, the indicator lamp does not glow.
(c) Hot water too hot to shower under when hot tap is fully turned on.
(d) The same problem as in (c) above but by adding cold water to reduce temperature the light switches off.
(e) After installation, hot water does not give a maximum temperature rise of 40°C with the minimum water flow.

SOLUTION OR REASON

Microswitch malfunction - element ruptured. Replacement instructions are included in new kit packs available from your plumber’s merchant. DO NOT USE A DIFFERENT ELEMENT THAN THAT WAS ORIGINALLY INSTALLED.

(i) No electric power OR
(ii) Insufficient water pressure OR
(iii) Water filter blocked. See Dirt Removal (above).

(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 a smaller kW model.

Back pressure caused by spray nozzle being blocked. Clean spray nozzle and problem will be rectified. If not, increase water pressure.

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.
# Troubleshooting Guide

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<tr>
<th>HOTSTREAM INSTANTANEOUS WATER HEATER</th>
<th>Volume</th>
<th>Section</th>
<th>Issue Date</th>
<th>Rev.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model: HS4/1, HS6/1, HS7/1, HS8/1</td>
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<tr>
<td>HS8/2, HS10/2</td>
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**SPECIFICATION**

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## FAULT

| New unit pressure switch not activating | 1. Not enough pressure | 1. If multiple application fit manifold |
| Used unit pressure switch not activating | 2. Not fitted to Hotstream tapware | 2. Customer to fit Hotstream tapware if Hotstream unit |
| Elements blowing                        | 1. Pressure switch gasket worn | 1. Replace |
| When cold water is mixed the light goes out | 1. Blocked tap outlets | 1. Clean or replace |
| Water not hot enough                    | 1. Tap usage | 1. The more open the hot tap the greater the flow the cooler water and vice versa |
| Water gets colder/warmer                | 2. Usage and kW rating | 2. Contact nearest service agent for advice |
|                                         | 1. Temperature fluctuates | 1. Pressure drop on system caused by use of water elsewhere in the house |

(Table continued overleaf)
<table>
<thead>
<tr>
<th>FAULT</th>
<th>CAUSE</th>
<th>REMEDY</th>
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</table>
| No hot water     | 1. Supply fuse blown  
                    2. Water pressure  
                    3. Blocked tap outlets  
                    4. Element blown    | 1. Replace  
                    2. Check for correct pressure  
                    3. Clean  
                    4. Replace   |
| Unit does not work | 1. Blocked inlet filter  
                        2. Faulty/damaged tapware  
                        3. Water mains off  
                        4. Insufficient pressure  
                        5. Blocked tap outlet  
                        6. Check position of micro switch shifter arm (photo back page) | 1. Remove and clean  
                        2. Contact nearest service agent  
                        3. Check with local body  
                        4. Boost pressure  
                        5. Clean  
                        6. Adjust   |
| Tapware leaks    | 1. Washer perished  
                    2. Grit under washer or on seat | 1. Replace  
                    2. Remove and clean   |
| Neon does not glow | 1. Neon blown  
                          2. No power  | 1. Replace  
                                  2. Check power supply |
| Heater unit leaks | 1. Loose bolts  
                        2. Loose element screws  
                        3. Base plate cracked  
                        4. Blocked outlet gauzes or Rose  
                        5. Water pressure too high  
                        6. Unit screwed back too tightly or unevenly | 1. Tighten to 28in/lbs torque  
                        2. Tighten element screws  
                        3. Replace unit  
                        3a. Check pressure, if above 500Kpa (72psi) fit pressure limiting valve  
                        4. Clean  
                        5. Customer to fit pressure limiting valve  
                        6. Walls screws not too tight |
Hotstream Back Plate Dimensions
(Note: Not to scale)

Depth 56 mm

4 m/m

195 mm

252 mm
Micro Switch Assembly

Correct position of the Micro switch rod bar
Hotstream Basin Tap & Unit Installation