

Metro Mega Smart Wetback Installation Instructions

⚠ WARNING! Important Information

- Do not connect to an unvented hot water system.
- Install in accordance with AS 3500.4.1 or NZS 4603 and the appropriate requirements of the relevant building code or codes.

⚠ CAUTION! Important Information

- Wetbacks must be connected with water before operating the fire. Water must always be available to the wetback while the fire is in operation.
- Wetback systems are not suitable for use in locations where the water supply has lime content. Lime build up inside the coil will eventually block the coil causing the wetback to fail.
- Rainwater collection tanks installed lower than the wetback that use a water pump to supply the home, can cause problems if the pump is not operational.

Suitable for installation into the following models:

- **Mega Smart Built-In**

The Mega Smart Wetback comes fully assembled and is designed to be fitted to the outside face of either the left or right hand side of the firebox.

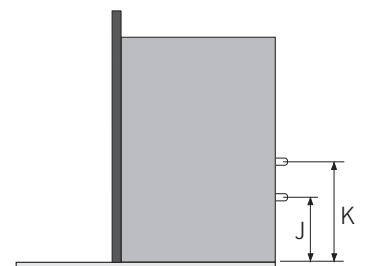
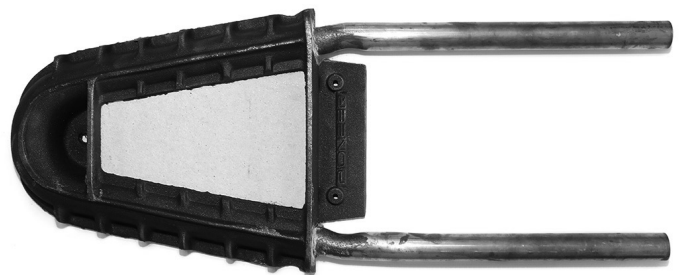
INSTALLATION - Fitting the water heater is best performed prior to installing the appliance into the fireplace cavity, and the plumbing connections should be aligned before any cladding is put up.

- The closer the Mega Smart Built-In is to the hot water storage cylinder, the greater the hot water production will be, and generally distances over 3 metres are not recommended.
- The 'return' hot water connection copper pipe must be insulated and have a 'minimum' rise of 1 in 12 along its entire length. 1 in 12 is minimum and the greater the rise the better the performance.
- The return hot water pipe must be connected to the riser pipe connection in the base of the hot water storage cylinder.

To fit the wetback proceed as follows:

1. Remove the fascia (if fitted) then remove the vertical angle cover plate located just behind the door hinge or door latch pin depending on which side you intend fitting the water heater to. If fitting to the hinge side it is recommended you remove the hinge also to assist with access.
2. Fold open the side return of the inner wrap so it is parallel with the outer cabinet, this is to allow room for the water heater to slide in between the firebox and the wrap.
3. Remove the 5 x 50mm knock out plates from the 2 inner wraps and outer cabinet through which the copper pipes will exit.
4. With a long handled 10mm set spanner reach in between the inner wrap and the firebox and loosen the nuts on the 2 rear and 1 front water heater securing Pozi drive screws, then unscrew from the inside and discard 2 of the 6mm nuts as the rear screws will thread directly into the water heater casting.

5. Remove the water heater from it's box and inspect the threaded holes making sure the Pozi drive screws removed from the firebox will thread in easily.
6. Thoroughly clean the 2 copper pipe ends with a file or emery paper, this will make brazing easier.
7. Smear a liberal amount of Pioneer fire cement over the flanged face of the water heater.
8. Holding the water heater by the bottom of the casting and the 2 x 25mm tubes facing the rear of the fire carefully position the water heater in between the inner wrap and the firebox until the pipes enter the inner wrap then slide the water heater along until the front Pozi screw lines up with the slotted hole. Take care to keep the water heater close to the wrap and away from the firebox so as to not wipe the fire cement off. Position the water heater so the front screw passes through the slotted hole in the water heater, fit a 6mm nut and washer and hand tighten.
9. Pivot the water heater around this bolt to fit the remaining 2 Pozi drive screws which are threaded into the casting.
10. Fully tighten all Pozi drive screws, you should see fire cement oozing out around the edges which will indicate a good square fit.
11. Insulate pipes where they exit the outer cabinet as cold air is being drawn in past this point.
12. Bend the side return back so it folds around the front of the water heater and refit the angled cover plate, this is critical.
13. Braze the required pipe work to the 2 x copper pipes in accordance with standard wet back installation requirements and inspect for leaks. Both side bricks must be fitted inside the firebox.
14. Ensure all firebox and wetback installation and operation manuals are left for the home owner.



Connection heights (mm)

Model	J	K
Mega Smart Built-In	212	402