

# RADIANT<sup>®</sup> HOT WATER

## Installer's Guide

### IMPORTANT INFORMATION

Read This Document First

On completion, sign and leave with owner

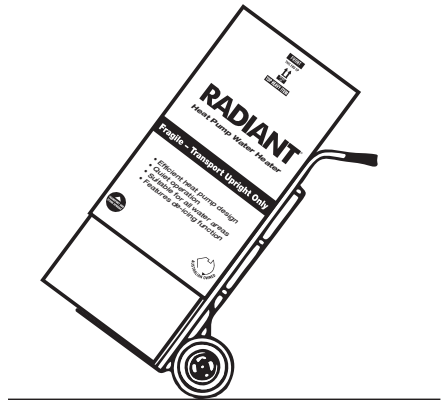
## RADIANT<sup>®</sup>

### Heat Pump Water Heater

Model: R2FHG1000C

Installation by a licensed tradesperson and in accordance with:

- AS/NZS 3500.4 "National Plumbing & Drainage Code Hot Water Supply Systems – Acceptable Solutions"
- Adherence to local authority and OH&S regulations
- Victorian PIC Requirements



For advice, repairs and service, call:

1300 365 115 (Australia)

0800 729 389 (New Zealand)

Specifications and materials may change without notice.

Effective for Radiant<sup>®</sup> Heat Pump water heaters manufactured and sold after 1st Jan 2009.

Part No: H3779

Version: 3779C

# RADIANT HOT WATER

## Installer's Guide – Radiant® Heat Pump Installation Guide

### Step 1

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- Arrive at site and conduct a safety audit.
- Safety audits can also be known as Work Method Statements (WMS) or Job Site Analysis (JSA).
- Park your vehicle as close as allowable to your installation.
- Do not commence a job where the risks cannot be controlled.
- Unload and transport “CRITICAL – MUST BE UPRIGHT”. When using a trolley to move the unit, ensure it is not tilted more than 45° from the vertical.
- **IMPORTANT:** When moving the unit, it must be close to vertical at all times. Non-compliance will void warranty and severely affect product performance and operation.



### Step 2

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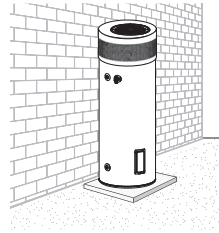
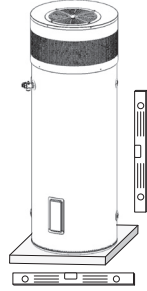
- Unload all materials in a safe manner.
- Position all materials in a convenient position near the work area.
- The existing tank can now be drained and removed responsibly.
- **NOTE: DO NOT DRAIN ON TO GRASS OR GARDEN BEDS.**

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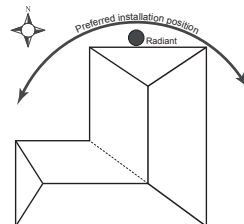
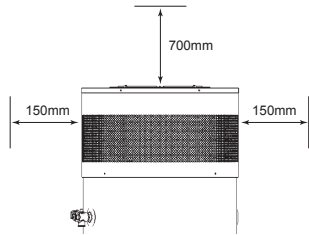
### Step 3

- The unit should be installed in an outdoor location.
- Position the unit close to the most frequently used hot water outlet.
- Adequate access must be available to the ECO, Relief valve and Anode.
- Avoid positioning near bedrooms or neighbour bedrooms.
- Safely position the unit on a level surface in accordance with all plumbing and building regulations.



### Step 4

- Optimum installation location is on the warmest side of house.
- Allow 200m<sup>3</sup> of free space surrounding the unit. This provides unit with clear ambient airflow assisting product performance and operation.
- Area must also be clear of debris such as leaves and tree branches.
- Allow 700 mm clearance above and 150mm clearance to either side of the unit as a general rule.
- Total clearance from ground to install unit is approximately 2455mm.



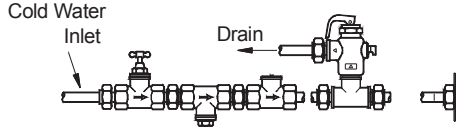
# RADIANT HOT WATER

## Installer's Guide – Radiant® Heat Pump Installation Guide

### Step 5

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- Connect the cold water pipe to the storage tank, according to local regulations and the Plumbing Code, fit all valves that are necessary e.g. tempering valves, pressure limiting valves, duo valves. The use of a Reliance brand tempering valve is recommended.
- Minimum 13mm (R Value of 0.3) closed cell polymer insulation (e.g. ARMAFLEX) on hot water outlet pipes. If insulation is exposed to sun then UV stabilised insulation is required.



### Step 6

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- Connect the PTR valve and discharge according to plumbing regulations.
- PTR Valves for the unit are rated at 1000kpa.

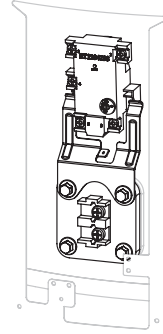


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## Installer's Guide – Radiant® Heat Pump Installation Guide

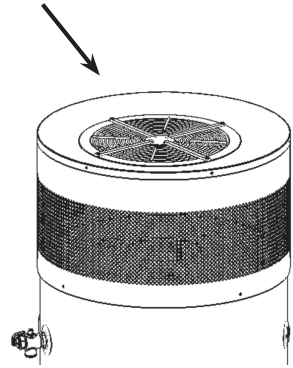
### Step 7

- A properly authorised electrical contractor must connect the unit.
- Minimum 10 Amp circuit required to operated the unit.
- The unit must be connected to CONTINUOUS TARIFF.



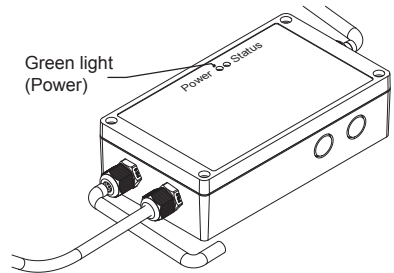
### Step 8

- Ensure there are no obstructions placed on top of the unit.
- Fill and pressurise the unit with water BEFORE switching on.
- Bleed air from system through a hot water tap NOT via PTR Valve.
- Switching on the unit without WATER will DAMAGE UNIT.



### Step 9

- Ensure the Hotlogic® unit is displaying the green power LED once unit has been switched on.
- If the Hotlogic® unit is not displaying the green power LED, refer to the table of Hotlogic Operational Codes on page 9 of the Radiant Heat Pump *Owner's Manual*.
- Contact DUX Service 1300 165 115 if problems arise.



# RADIANT HOT WATER

Installer's Guide – Radiant® Heat Pump

## Important Notes

### Condensation Drain

A drain line is required to be fitted to carry discharge clear of water heater.

Condensate drain line should NOT be connected to the PTR Valve drain line but can exit to the same point.

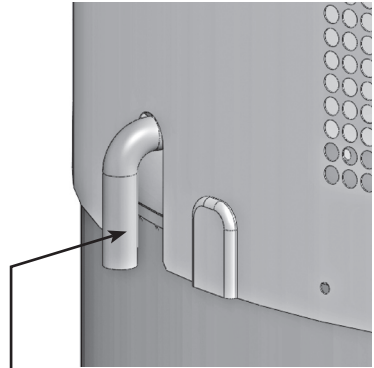
### System Start

Ensure the unit is filled, pressurised and all air has been removed before activation.

The unit has a 1 min delay after power up. Compressor will commence operation after this time delay.

### Handling

Radiant® is required to be VERTICAL AT ALL TIMES.



Copper elbow joined to the condensate drain

### Check Points

1. Always transport the unit in the upright position, if you lay it on its side the refrigeration system may be compromised and the system may fail.
2. Avoid installing the unit near a bedroom window.
3. The unit produces water condensation, so make sure the unit is installed on a flat surface and that a drain line is installed from the condensation drain port so as to conduct the water to a suitable drainage point.
4. Tempering Valves are a requirement, ensure they are commissioned correctly; incorrect commissioning can lead to a lack of hot water delivery. The use of a Reliance brand tempering valve is recommended.
5. It is recommended that all hot water lines are insulated with high temperature, UV resistant 13mm closed cell insulation.
6. Ensure there is no obstruction on top of the unit that will block the air outlet.
7. When the system is turned on, check that the Hotlogic unit (inside the top cover) is displaying the green power LED.  
  
If it is not displaying the green power LED, refer to the table of Hotlogic Operational Codes on page 9 of the Radiant Heat Pump *Owner's Manual* to determine the best course of action.
8. The Radiant Heat Pump is designed for connection to:
  - CONTINUOUS TARIFF, single phase 240 volt AC supply.
  - Tariff 33 (QLD only), single phase 240 volt AC supply.

# RADIANT HOT WATER

## Installer's Guide – Radiant® Heat Pump Installation Declaration

Location of Installation: .....  
.....  
.....

Tank Serial Number: .....

Tank Model Number: .....

Date Installed: .....

Dux Hot Water terms and conditions of warranty will only apply if the below is signed by the installer. This notifies Dux Hot Water that all the requirements of proper installation have been carried out by the installer in accordance with the Installation Commissioning Checklist and all other requirements noted in the Owner's Manual supplied with the Radiant® heat pump water heater.

Upon completion of installation, this document should be given to the home owner in its entirety. When required by Dux Hot Water, the home owner will provide this document as evidence that the installation of the Radiant® heat pump water heater was carried out in accordance with Dux Hot Water installation requirements.

### Declaration

I have installed the Radiant® heat pump water heater in accordance with the above instructions. If the instructions have not been followed, then I understand that the Dux Hot Water terms and conditions of warranty will be void.

Name: .....

Signed: .....

Company: .....

Date: .....



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