



OWNERS MANUAL

SEPTEMBER 24

- ✓ High quality, efficient and energy saving
- ✓ Industry leading technology and innovation

EG_OWNERS MANUAL

EG-260FR



ECOGENICA
INNOVATION MEETS TECHNOLOGY

All-in-one Connection Model EG-260FR



The EcoGenica **EG-260FR** litre All in one Mains Pressure Heat Pump Hot Water Heater, offers a slim line design, with rapid hot water heating and exceptional energy efficiency. This model does not contain an electric heating element.

This water heater is designed for direct connection to mains water supply. In case the mains supply pressure exceeds 500kPa, a pressure limiting valve must be installed. A minimum water supply pressure of 200kPa is required to assure the effective operation of this water heater.

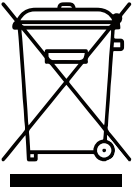


Warning: Safety Information

Please read all manuals carefully before installing and operating this unit. The following safety warnings are very important, always read and obey all safety signs.



WARNING

- The device must be effectively grounded.
 - RCBO circuit breaker must be installed.
 - Do not remove, cover or damage any permanent instructions or labels from the exterior or interior of the unit panel.
 - Only qualified personnel should install in accordance with local and national regulations and this guide.
 - Improper installation may cause water leakage, electric shock or fire alarm.
 - All electrical connections must comply with the requirements of the local power company, the local power company and this guide.
 - Do not use rated fuse, otherwise it may malfunction and cause electrical fire.
 - Do not insert fingers, rods or other objects into the air inlet or outlet. The fan is rotating at high speed, which may cause injury.
 - Do not use flammable sprays, such as hairspray or paint, near the machine to avoid fire.
 - **Disposal:** Do not dispose of electrical appliances as unsorted municipal waste. A separate collection facility should be used. Contact your local government to find out information about the collection system. If electrical appliances are disposed of in landfills or dump sites, hazardous substances can seep into groundwater and cause health problems.
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- Make sure there are no obstacles around the device.
 - In places with strong wind (such as seaside areas), the unit should be installed in a windproof place.
 - The PTR valve should be operated every 6 months to ensure that the valve does not have any restrictions. The drain pipe should be well insulated to prevent the water in the pipe from freezing in cold weather.



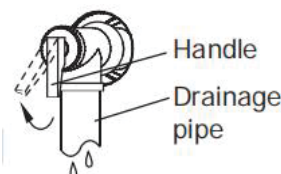
CAUTIONS

- The ground electrode must be well grounded. Make sure all electrical sockets and plugs are dry and tightly connected;
- Before cleaning, be sure to stop operation and isolate the unit (ie, turn off the isolating switch or circuit breaker). Otherwise, electric shock and injury may occur;
- Water temperature over 50 degrees Celsius will cause severe burns and even death. Children, the disabled and the elderly are at the highest risk of burns. In the bath feel the water temperature with your hands before showering to avoid burns.
- Do not operate the machine with wet hands to avoid electric shock.
- A one-way check valve and a suitable isolation valve must be installed on the water inlet side.
- It is normal for the one-way safety valve to release some water during operation. However, if there is a large amount of water, please contact our service team. Improper drainage can cause water damage to surrounding areas such as buildings, furniture etc. Except for repair and maintenance purposes, do not turn off the power, especially in cold weather, as it may freeze the machine when the power is turned off. Continuously powered heating water is necessary.

⚠ DANGER



Do not puncture the water heater casing, do not smoke, or activate sparking of any description within 1.5 meters of this water heater. Compliance with national gas regulations should be observed. This water heater contains flammable propane refrigeration in a sealed closed refrigeration circuit..



Warning: Notice to Customer

The manufacturer's warranty does not cover any damage or defect caused by improper installation, attachment or use for any type of accessories (other than those listed in this user manual) with this water heater. The use of unauthorised energy saving devices may shorten the life of the water heater and may endanger life and cause property damage. The manufacturer disclaims any responsibility for such loss or injury resulting from the use of such unauthorised devices. Check council laws for specific rules in relation to location requirements for this appliance.

Warning: - If the hot water system is not in use for a number of weeks a quantity of hydrogen gas may accumulate in the Water Heater. To dissipate the gas safely please turn on the hot water tap for several minutes to ensure that gas has been properly removed from the water heater. As the air escapes sometimes sounds occur, this is normal.

TEMPERATURE LIMITING VALVE

Ecogenica Pty Ltd requires the installation of a temperature limiting device between the water heater and the hot water outlets in a bathroom or similar usage point to reduce the risk of scalding.

Additionally, a certified plumber may have the legal obligation to ensure the water heater installation meets the hot water delivery requirements listed in AS/NZS3500.4

LOCATION REQUIREMENTS

The water heater and water lines should be protected from freezing temperatures and highly corrosive atmospheres. Locate the water heater in a clean area as near as possible to the areas of the biggest hot water demand. Long uninsulated hot water lines can waste energy and water.

IMPORTANT - INDOOR INSTALLATION APPROVALS: Because this unit draws in ambient air to heat the water, when using the unit indoors, you must contact the manufacturer and seek written approval to ensure that the proposed installation meets Australian Standards and has sufficient clean air to operate correctly.

Place the water heater in such a way that clearance for proper servicing is considered (→section 3.7) namely for top cover removal, PTR valve access and anode rod removal and installation. Remember you may need to remove the entire unit later for servicing.



WARNING

This water heater SHOULD NOT be installed in an area with a corrosive atmosphere where chemicals or flammable liquids are stored or where aerosol propellants are released. When using indoors, because of natural air movement in a room or other enclosed space, these corrosive/flammable vapours can be carried from where they are being used or stored. Any electric arc drawn within the water heater's electronic controls can ignite these vapours, causing an explosion or fire, which may result in severe burns or death to those in range as well as property damage.



CAUTION

The heater should not be in an area where leakage of the tank or connection will result in damage to the area adjacent to it or to lower floors of the structure. In places where installation in such areas cannot be avoided, it is recommended that a suitable catch pan which adequately drains, be installed under.

Warning: Notice to Customer *(continued)*

This installation must comply with the requirements of the AS/NZ3500.4 and AS/NZS3000 standards and all additional local codes and regulatory authority requirements.

In New Zealand, the installation must comply with the clause G12 of the New Zealand Building Code. All packaging materials must be removed from the water heater prior to its installation.

REQUIRED CLEARANCES

There must be a 30cm vertical clearance, a 20cm min clearance between the inlet and the wall, and 100cm from the outlet grilles and walls, or barriers. This will ensure a proper air flow through the appliance and facilitate the service any time is needed.

APPLIANCE OPERATION

In case of possible direct exposure to strong wind, face the air outlet to the most protected area. The direct incidence of strong wind in the outlet grille during long periods may affect the performance of the heat pump increasing the heating times and the frequency of defrost cycles. The use of the noise reduction mode is not recommended in case of moderate or strong wind. Adjust the height to correctly align the appliance at the installation location.

To ensure the faultless operation, the unit must be installed vertically with a tilt no more than 1°, preferably in the direction of the condensate drain to favour the condensates drainage.



WARNING:

**Damage to external tank casing!
Do not tilt more than 20° without packaging.**



WARNING:

All plumbing work must be carried out by a qualified professional and in accordance with the Plumbing Standards AS/NZS3500.4 & local authority requirements.

INLET-OUTLET CONNECTIONS

Installation of the water inlet or outlet pipes: The water inlet and outlet thread are $\frac{3}{4}$ BSP (internal thread). Pipes must be heat resistant, durable and UV resistant (when doing outdoor installation). Installation of the pipe for PTR valve: The specification of the valve thread is $\frac{1}{2}$ BSP (internal thread). Note: one way valve must be installed at the inlet.

POWER REQUIREMENTS

Check the markings on the rating plate of the water heater to be certain the available power supply corresponds to the water heater requirements. The Heat Pump Water Heater must be directly connected to a 230V-240VAC 50Hz mains power supply.

The water heater Heat Pump must be installed on separate individual circuits with a RCBO breaker switch installed directly at the switchboard. The appliance must be powered for the first time during the purge procedure after the tank was filled with water.

The hot water heat pump supply must be protected by a separate RCBO on the main switchboard and rated to suit the size of the components. Do not connect other appliances, especially high powered appliances, to main power supply of the water heater to ensure it operates with out interference.

FR MODELS :these models can be installed on a shared circuit however, care must be taken by the licensed electrician to ensure that the shared circuit is not overloaded.

SOLAR POWER

The Heat Pump also comes with a Solar activation timer. Solar Power must be provided to the inverter and switch board, as per local regulations and Solar installation Standards. The timer ensures that the Heat Pump operates between daylight hours, to align with Solar Power production. Users of the Heat Pump should use the Application to engage Solar timer activation, or disengage the timer, if Solar Power isn't available, during rainy, or Winter Months, for example. For instruction on Solar Timer Activation see the Ecogenica website or contact Ecogenica directly.

9. To the extent permitted by law, Ecogenica shall not be liable under this Warranty for any consequential loss or damage or any incidental expenses resulting from any breach of this warranty, including but not limited to, claims for damage to buildings, roofs, ceilings, walls, foundations, gardens, personal belonging or household effects, fixtures and fittings, or any other consequential loss, damage or inconvenience, either directly or indirectly due to the Heat Pump Water Heater System or component(s) related to the system or its operation including but not limited to leakage.
 10. Where a failed component or Heat Pump Water Heater System is replaced under warranty, the balance of the original warranty period will remain effective. The replaced part or Heat Pump Water Heater System does not carry a new warranty.
 11. Ecogenica reserve the right to have the installed product returned to the factory for inspection.
 12. Products eligible for repair may be replaced by refurbished goods of same type rather than being repaired. Refurbished parts may be used to repair/replace the Products.
 13. Where the Heat Pump Water Heater System is not installed in accordance with the installation instructions or installed in a position that does not allow safe, ready access as determined by the attending service person, the service may be refused at their discretion. Any cost to access the site safely, including the cost of additional materials, handling and/or safety equipment, will be charged to the consumer and will be the consumer's responsibility.
 14. The Heat Pump Water Heater System must be sized to supply the hot water demand in accordance with the guidelines in the Heat Pump Water Heater System Literature.
- 13 WARRANTY EXCLUSIONS**
- Products supplied by Ecogenica are subject to warranties that cannot be excluded by law. Any breach of condition or warranty is limited to the repair or replacement of the Product, the supply of an equivalent Product, the payment of the cost of repairing or replacing the Product or acquiring an equivalent as determined by Ecogenica.
- Repair and replacement work will be carried out as set out in the Heat Pump Water Heater System terms of warranty. However, the following exclusions may void the warranty and may incur additional service charges and/or cost of parts:
15. Damage to the Heat Pump Water Heater System or any component, including accidental damage, natural disasters, acts of God, storm damage, vandalism.
 16. Failure due to abuse, misuse or neglect, improper maintenance, or failure to maintain and incorrect or unauthorised installations.
 17. Failure or damage caused by alterations, service or repair work carried out by persons other than Ecogenica accredited service agents or the Ecogenica service department.
 18. Where no fault is found with the Heat Pump Water Heater System or its components and the issue is related to the plumbing installation or is due to a direct or indirect failure of water, electric or gas supplies, corrosive atmosphere or other issues not caused by a fault of the Product including but not limited to:
 - (a) excessive discharge from the temperature and/or the pressure relief valve due to high water pressure.
 - (b) excessive water pressure.
 - (c) no flow of hot water.
 - (d) water leakage.
 - (e) where the supply of electricity or water does not comply with relevant codes or acts, or the power supply is cut;
 - (f) the overflow vent drain has not been installed or it is blocked or corroded.
 - (g) rust due to a corrosive atmosphere.
 19. Where the unit fails to operate or fails because of excessive cold or ice formation in the piping to or from the Heat Pump Water Heater System.
 20. Where any faults arise from connecting to a water source that is unfiltered such as dams, bores, rivers etc.
 21. The Heat Pump Water Heater System being relocated from its original point of installation.
 22. Operating the water heater and components when not filled with water.
 23. This warranty applies to Heat Pump Water Heater Systems connected to the energy source listed on the data label of the Product.
 24. This warranty does not apply to damage caused by sludge and/or sediment in the water supply.
 25. Repair and/or replacement of the Heat Pump Water Heater System due to scale formation above 200ppm. (water hardness) in the waterways or the effects of either corrosive water or water with a high chloride or low PH level when the water heater.
 26. Where the Ecogenica Heat Pump Water Heater System is in a position that does not comply with the Heat Pump Water Heater System installation instructions or relevant statutory requirements, causing the need to dismantle or remove cupboards, doors, or walls, or require the use of special equipment to bring the Heat Pump Water Heater System to floor or ground level or to a serviceable position.
 27. Labour costs incurred due to an Ecogenica accredited service agent performing checks which should have been carried out by the consumer in accordance with the operating instructions and where no defect is found.

“Water heating is the second largest source of greenhouse emissions accounting for almost a quarter of household energy use.”



ECOGENICA

Your new ECOGENICA® W-Series series heat pump uses a small amount of energy to move heat from one location to another. Heat is absorbed by ozone-friendly R290, a natural refrigerant which does not contribute to global warming.

We support the Australian government in its commitment to transforming our energy supply system into one that is cheap, clean and reliable.

This lays the foundation for future generations to enjoy more secure, reliable and affordable energy.

You can choose an ECOGENICA® product safe in the knowledge that our innovative technology is focused on energy and environment savings. Our hot water pumps are cfc free and utilise renewable energy, extracted from the air.

CONTACT US:

CALL: 1300 341 010

VISIT: ecogenica.com.au

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ECOGENICA® –A smart choice for the environment a smart choice for you