

2011 Winner: Bosch 32C Hot Water System A 6 Star energy efficient commercial appliance

Award for Excellence in Green Purchasing – Innovative green product of the Year

This award recognises an ECO-Find product that is innovative, satisfies a significant need and demonstrates outstanding environmental benefits.

Water heating accounts for 25 percent of the energy used in an average Australian home, and is also responsible for 23 per cent of the total greenhouse gas emissions from home energy use. Commercial operations such as child care centres, kindergartens, leisure centre or aged care facilities would use a similar proportion of their overall energy use on hot water.

heat exchanger. This system reduces energy consumption by more than 15% compared with standard continuous flow commercial systems.

The system also comes with temperature controller(s) which enable the precise temperature to be set. This reduces (or eliminates) need to mix hot and cold which provides opportunities for additional energy savings and improved safety.



Building on the success of its eco26+ - Bosch's domestic condensing model which was named GreenPlumbers 'Product of the Year' in 2009, Bosch has developed the 32C condensing gas hot water system.

Designed specifically for commercial developments and larger homes, the 32C has been awarded a 6 Star energy efficiency rating. According to Bosch, this is the highest rating achieved by commercial systems currently on the market in Australia.

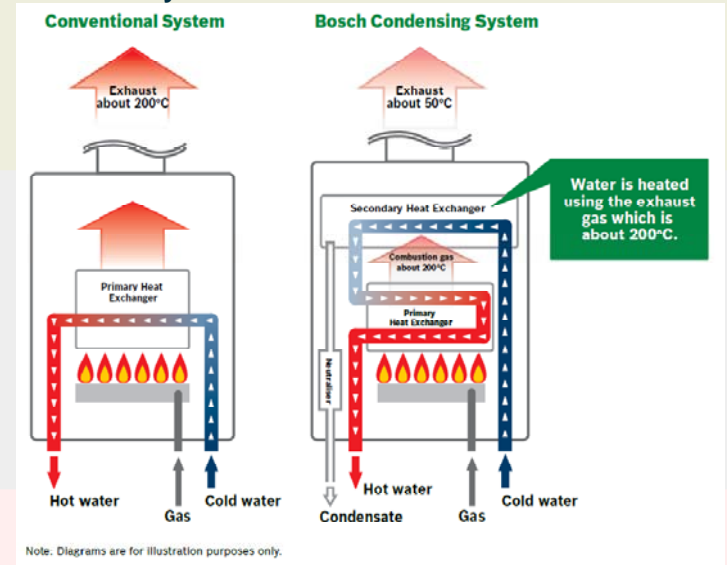
Unlike conventional systems, in which cold water only passes once through the primary heat exchanger, the Bosch system contains an extra condensing unit which captures the heat from the exhaust gas and uses it to preheat the incoming cold water before it passes through the primary



Bosch's 32C system is designed to run up to 16 – 20 hours per day and produce a flow rate of 32 litres per minute. According to Bosch, using the 32C hot water system instead of a conventional electric hot water system in a commercial business can reduce greenhouse gas emissions by the equivalent of taking one and a half cars off the road for a year.

Bosch has found that including the 32C on the ECO-Find database assures businesses of the reputability of the product from an environmental perspective because the energy efficiency and star ratings have been verified by ECO-Buy prior to listing.

Operating Features of the Bosch Continuous Hot Water System



KEY ENVIRONMENTAL FEATURES OF THE 32C BOSCH CONTINUOUS HOT WATER SYSTEM

- 6-Star energy efficiency rating
- Captures heat in exhaust gas to preheat incoming water, reducing energy consumption by 15%
- Compatible with solar hot water and warm water return systems (however this reduces condensing efficiency)
- In-built neutraliser to render condensate neutral for safe release
- Precise temperature control reduces excess/over heating of water which can potentially save energy and improve safety

Note: This case study has been prepared using information provided by the supplier. Every effort has been made to ensure the information is accurate. We, however, recommend you consult with the supplier before purchasing the product.