ENERGY STAR heat pump specification revision 2009/2010

Thank you to the stakeholders who provided feedback on the proposed changes to the ENERGY STAR heat pump specification.

The new specification will ensure that ENERGY STAR qualified heat pumps continue to be the most energy efficient products on the market, while also performing efficiently at winter temperatures.

The new specification

The increases to EER and COP (H1) levels will proceed as communicated. Following industry feedback, we have decreased the COP (H2) comparative performance requirement from 85% to 80% of H1 performance.

		Current ENERGY STAR specification		**ENERGY STAR Version 2 effective 1 April 2010**		
Rated cooling capacity band (kW)	**MEPS 2010**	**EER**	**H1 COP**	**EER**	**H1 COP**	**H2 COP**
<4	3.33	3.51	3.50	3.60	3.60	2.88
4 - 7.5	2.93	3.00	3.40	3.05	3.45	2.76
7.5 - 10	2.93	2.93	3.20	2.93	3.20	2.56
10 - 19	2.75	3.16	3.20	3.30	3.35	2.68
				COP H2 comparative performance to COP H1		80%

Submitting H2 data

Industry feedback strongly supports the collection of tested data. Therefore the submission of modelled data will be an interim measure in the first year.

1. Year One - Modelled data

To qualify for the ENERGY STAR programme between 1 April 2010 and 31 March 2011, partners will be asked to submit modelled H2 data, evidence to support their data, and a signed supplier declaration. We will also be happy to accept tested H2 data.

This data will be used by EECA to determine which heat pumps qualify for the ENERGY STAR programme, but will not be published on the ENERGY STAR website.

During the first year, we will be closely scrutinising the modelled data and check-testing one unit from each partner's range under H2 test conditions. The expectation is that the modelled data will reflect the test results. If a unit fails the check test, it will be removed from ENERGY STAR and the Warm Up New Zealand: Heat Smart programme.

2. Year Two onwards – Tested data will be required

From 1 April 2011, to participate in the ENERGY STAR programme, partners must submit H2 test results for each of their heat pumps.

This information will be published on the ENERGY STAR website for consumer information.

New Zealand test facility

EECA has been working to assist in the development of a New Zealand based facility that is able to conduct testing under H2 conditions. This will be available for use shortly and we will provide interested suppliers with contact details. Alternatively, we will also accept test data from suitable laboratories in New Zealand and overseas.

Product registration process

More details on the process for re-signing your ENERGY STAR partnerships and re-registering your products ahead of the 1 April 2010 launch date will be provided in the near future.

Next steps

We will be submitting our proposed new specification to the US ENERGY STAR programme for their approval and will notify you when we have received sign-off. This is expected to take several months.

If you have any questions please don't hesitate to contact me.

Regards

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