



Fact Sheet - Water Chillers: Minimum Energy Performance Standards

October 2008

Implementation Date: 1 July 2009 in Australia & New Zealand

What is covered?

Air and water cooled water chillers with a capacity of 350kw and above that operate with a vapour compression cycle. The program does not include water chillers that:

- are driven by other than electric motors;
- are air cooled using centrifugal fans;
- are air cooled with remote condensers; or
- are used for chilling fluids other than water.

MEPS Requirements

The MEPS requirements are covered in Australian and New Zealand Standards AS/NZS 4776.1.1:2008, AS/NZS 4776.1.2:2008 and AS/NZS 4776.2:2008. The MEPS levels are as follows:

Capacity (kWR)	Minimum COP		Minimum IPLV	
	Air cooled	Water cooled	Air cooled	Water cooled
<350	N/A	N/A	N/A	N/A
350–499	2.70	5.00	3.70	5.50
500–699	2.70	5.10	3.70	6.00
700–999	2.70	5.50	4.10	6.20
1000–1499	2.70	5.80	4.10	6.50
>1500	2.70	6.00	4.10	6.50

For liquid-chilling packages operating under non-standard rating conditions as defined in Part 1.1, the MEPS COP and IPLV levels are adjusted in accordance with Appendix E. of the standard

The AS/NZS 4776 series is expected to be published in November 2008.

Registration Requirements

Any water chiller within the scope of AS/NZ 4776.2:2008 imported into, or manufactured in Australia and New Zealand prior to the respective implementation dates and held in stock, may continue to be sold, however no new importation or manufacture of non-compliant products is allowed on or after the implementation date.

Registration will require:

- Registration of each model or family of models within the scope of AS/NZ 4776.2:2008.
- Payment of the registration fee in Australia of \$150 per model/family (listing is free in New Zealand). A supplier/product registration with any one of the Australian regulators is sufficient for a water chiller within the MEPS program to be legally sold in both Australia and New Zealand. Where registration takes place in New Zealand, the water chiller can only be legally sold in Australia, if manufactured in New Zealand, or imported directly into New Zealand, and then exported to Australia.
- For products that are not covered by the certification programs of either the ARI or EUROVENT, a test report in accordance with AS/NZ 4776.1.2:2008 must be provided at the time of registration.

The preferred method of registration is online at www.energyrating.gov.au. This registration method will be available in February 2009. The full details of these requirements and an explanation of products covered, are provided in AS/NZ 4776.2:2008; while the relevant methods of rating and testing are published as AS/NZ 4776.1.1:2008 and AS/NZ 4776.1.2:2008. These will be available in November 2008 from:

- Standards Australia - www.standards.com.au
- Standards New Zealand - www.standards.co.nz

Enforcement

Regular checks are conducted to ensure that all products offered for sale have a current registration with one of the State or NZ regulators. In addition, “checktests” by independent accredited laboratories may be conducted to see whether the chillers perform in compliance with MEPS requirements. These performance tests will co-ordinated with international certification programmes, such as ARI and EUROVENT. Where appropriate, the check test process comprises an initial Screen Test, paid for by the Government. If the unit complies with MEPS no further action is taken. If the unit fails, the supplier has the option of:

- choosing to request cancellation of the registration, or
- testing more randomly selected units at the supplier’s cost.

Full details of the general processes are contained in the Administrative Guidelines available from www.energyrating.gov.au/admin-guidelines.html. These will be reviewed as required for MEPS for Water Chillers.

Regulatory Contacts

State and NZ contacts for Minimum Energy Performance Standards applications are:

NSW

Department of Water and Energy, Level 17, 227 Elizabeth Street Sydney NSW 2000
(GPO Box 3889, Sydney NSW 2001) Tel 02 8281 7706 Fax 02 8281 7750

Email: energylabelling@dwe.nsw.gov.au Website: www.dwe.nsw.gov.au

Queensland

Electrical Safety Office Department of Industrial Relations LMB 2234 Brisbane QLD
4001 Tel +61 7 3237 0280 Fax +61 7 3406 3808

Email: equipmentsafety@dir.qld.gov.au Website: www.eso.qld.gov.au

South Australia

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Victoria

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