Energy Labelling and MEPS program
Regulatory Ruling

Ruling Number: 23 **Revision** A **Revision Date** 13.10.09

This ruling has been prepared on behalf of all regulators for energy labelling and MEPS for electrical appliances in Australia and New Zealand. This ruling represents an agreed interpretation of the relevant regulations. This interpretation shall be recognised in all Australian and New Zealand jurisdictions.

Product Type: Liquid Chilling Packages
Relevant Standard AS/NZS 4776.1.1:2008
Relevant Clause/s 1
Initial Date of Draft Ruling: 13.10.09
Date of Standard Amendment TBA

	NSW	QLD	SA	VIC	NZ
Accepted By	T Aldrich	B Richardson	J Corbett	M Grubert	T Collins
	Department of Water and Energy	Department of Justice and Attorney-General	Department for Transport, Energy and Infrastructure	Energy Safe Victoria	Energy Efficiency and Conservation Authority
Date Accepted	13.10.09	14.10.09	30.10.09	14.10.09	30.10.09

Subject:

Exemption for:

- Free Cooling Liquid-Chilling Packages
- Heat Pump (Reverse Cycle) Liquid-Chilling Packages
- Heat Recovery Liquid-Chilling Packages

Ruling:

- That Free Cooling, Heat Pump (Reverse Cycle), and Heat Recovery Liquid-Chilling Packages be exempted under clause 1 of AS/NZS 4776.1.1:2008.

Definitions

Free Cooling Liquid-Chilling Packages (Air Cooled):
'Air Cooled Free Cooling Liquid-Chilling Packages' specifically refer to packaged air cooled chillers as defined in clause 4.10 of AS/NZS 4776.1.1:2008 and having an additional integral free cooling circuit with a self-contained control system. The term 'free cooling' encapsulates how ambient air, temperature permitting, is used to cool the chilled water supply, utilising compressors, evaporators, condensers, etc., as in a conventional air cooled chiller, but with the addition of an integral dry cooler circuit.

Free Cooling Liquid-Chilling Packages (Water Cooled):
'Water Cooled Free Cooling Liquid-Chilling Packages' specifically refer to packaged water cooled chillers as defined in clause 4.10 of AS/NZS 4776.1.1:2008 and being designed with the appropriate controls and valves to be able to utilise condenser water which is at a temperature lower than the required leaving chilled water temperature, typically 10ºC to 12.5ºC to provide cooling without the need to run the compressor.

Heat Pump (Reverse Cycle) Liquid-Chilling Packages:
'Heat Pump (Reverse Cycle) Liquid-Chilling Packages' specifically refer to packaged air or water cooled chillers as defined in clause 4.10 of AS/NZS 4776.1.1:2008 and having components and controls that enable the reverse of the flow of refrigerant so that the water leaving the evaporator vessel of the chiller is heated in the process rather than cooled.

Heat Recovery Liquid-Chilling Packages:
'Heat Recovery Liquid-Chilling Packages' specifically refer to packaged air or water cooled chillers as defined in clause 4.10 of AS/NZS 4776.1.1:2008 and having components and controls that allow for heat to be reclaimed from the refrigeration and to be used for such applications as heating water for use in the air conditioning/heating system. The chiller must be specifically designed to be able to heat water to a minimum of 40ºC.

<u>Proposed revisions to the Standard</u>

The intent of the revisions to the clause is to exclude these Liquid-Chilling Packages that by virtue of their application and the lack of an acceptable test standard cannot be practically tested for compliance with MEPS.

Revisions are to be added to clause 1 as additional exemptions (e), (f) and (g).