

**Schedule Of Published Data Fields
From The On Line Database Of Energy
Labelling And MEPS Applications For
Electrical Appliances**

Prepared by

Energy Efficient Strategies

on behalf of

Equipment Energy Efficiency Committee (E3)

Draft for Public Comment

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Schedule Of Published Data Fields From The On Line Database Of Energy Labelling And MEPS Applications For Electrical Appliances

Public Comments Sought on the Draft

This discussion paper is open for comments until 28 February 2007. Comments should be forwarded to Simone Tiele, Equipment Energy Efficiency Team, Australian Greenhouse Office, <Simone.Tiele@deh.gov.au>. Telephone (02) 6274 1340.

Field names marked in orange highlight are new fields that were not previously listed as public fields. Most of these are new fields which have been added to the system in recent years, although some are existing fields that are of public interest.

Background

This document sets out the fields that are considered to be “public” as part of the energy labelling and MEPS programs. They include information about the product that is readily available from the product itself and information that is an essential part of the disclosure and calculation of the basis for determining the rating for the energy labelling and/or MEPS levels. Fields marked in blue are available from the interactive product listings on the website. Other fields are included in the CSV or Access files which are available from the interactive part of the website.

Standards listed are regulatory standards. Newly regulated products will be added in revisions of this document as they become available from the website.

Generic Fields – All Products

The following fields are found in most product listings.

| Generic | All Products | |
|--------------------------------|---------------------|--|
| Field Description | Field Name | Notes |
| Submit ID | Submit ID | Energy internal database reference number |
| Submit ID water rating | Submit ID | Water internal database reference number |
| Registration status | SubmitStatus | |
| Product sold in | Sold in | Australia, NZ, other |
| Brand Name | Brand | |
| Model Name | Model Name | |
| Model Number | Model No | May also be a family Name |
| Country of Manufacture | Country | |
| Awards Granted | Awards | Eg TESAW Awards and year applicable |
| All Star Award | ASAward | Energy All Stars Award status/details |
| Test Standard | N-Standard | Relevant registration standard (Part 1) – including amendments |
| Applicable Regulatory Standard | ApplStandard | Relevant registration standard (Part 2) – name of field varies for some products |
| Applicable MEPS level | | Name of field varies for some products |
| Appliance Width | Width | Voluntary field |
| Appliance Height | Height | Voluntary field |
| Appliance Depth | Depth | Voluntary field |

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|--|---|
| | Indicates that the field is displayed on most of the interactive listings at www.energyrating.gov.au . All other fields are downloadable from the same site as CSV or Access documents |
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| Appliance Type | Air Conditioners – AS/NZS 3823.2 | |
|---|---|--|
| Field Description | Field Name | Notes |
| Air Conditioner Type | Type | Cooling Only, Heating Only, Reverse Cycle |
| Ducted or Non Ducted? | Configuration1 | |
| A/C Type | Configuration2 | Eg Window Wall, Single Split etc |
| Unit Mounting System | Configuration2-unitmount | Eg Ceiling, Floor, Wall etc (indoor unit, split system only) |
| Cooling System Source | Configuration3 Source | Eg Air, Cooling Tower etc |
| Cooling System Sink | Configuration3 Sink | Eg Air, Cooling Tower etc |
| Indoor Component Test | Indoortype | Calorimeter, Enthaply or Simulation |
| Outdoor Component Test | Outdoortype | Calorimeter, Enthaply or Simulation |
| Power Supply Required | Phase | Single or three |
| Type of Refrigerant | Refrigerant | |
| Rated Total Cooling Capacity | C-Total_Cool_Rated | |
| Rated Sensible Cooling Capacity | C-Sens_Cool_Rated | kW |
| Rated Dehumidifying Effect | C-Dehumid_Rated | kW |
| EER – cooling | EERtestAvg | Measured value |
| Inverter 50% load EER | VSCP_EER50 | Voluntary data for inverter models |
| Rated Effective Power Input – Cooling | C-Power_Inp_Rated | |
| Rated Total Heating Capacity | H-Total Heat Rated | Reverse cycle only |
| COP – heating | COPtestAvg | Measured value - Reverse cycle only |
| Inverter 50% load COP | VSCP_COP50 | Voluntary data for inverter models |
| Rated Effective Power Input – Heating | H-Power_Inp_Rated | Reverse cycle only |
| Crankcase Heater in Unit | crankcase_heater | Yes/No |
| Average Power in Off Mode | avg_pwr_off_mode | W |
| Average Power in Passive Mode | avg_pwr_standby_mode | W |
| Average Power in Off Mode if Crankcase Heater Present | avg_power_crank_heater | W |
| Star Rating Index - Cooling | SRI_Cool | 2000 Algorithm |
| Star Rating Index - Heating | SRI_Heat | 2000 Algorithm - Reverse cycle only |
| Star Rating - Cooling | Star_Cool | 2000 Algorithm |
| Star Rating - Heating | Star_Heat | 2000 Algorithm - Reverse cycle only |
| Does the A/C use variable speed drive or multi-speed compressor | Inverter | Indicated as check box on label |

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| Appliance Type | Ballasts AS/NZS 4783.2 | |
|--|-------------------------------|---------------------------------------|
| Field Description | Field Name | Notes |
| Ballast Type | Type | |
| Starter Type | StarterType | |
| Ballast Rated Voltage | Voltage | |
| Ballast Maximum Rated Voltage | VoltageMax | Applies only where a range is claimed |
| Recommended Lamp Types | LampTypes | |
| Recommended Lamp Ratings | LampRating | |
| Test Method | TestMethod | Either Appendix C or E |
| Compliance with MEPS? | CompMinEng | 1 March 2003 requirements |
| Is the ballast dimmable? | Dimmable | Applies to A1 classifications only |
| Does ballast comply with requirements at 25% output? | Inputat25 | Applies to A1 classifications only |
| Does ballast comply with 10% light output limit? | 10PercDim | Applies to A1 classifications only |
| MEPS level total circuit W | BaseVal | From Standard – no field |
| MEPS compliance Table | EnergyEffIndex_Det | Relevant table from AS/NZS4783.2 |
| Measured total circuit W | TestCorInpPowerAvg | |

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| Appliance Type | Clothes Dryers – AS/NZS 2442.2 | |
|---|---------------------------------------|--|
| Field Description | Field Name | Notes |
| Clothes Dryer Type | Type | Vented or condensing |
| Combination Unit | Combination | Yes/No – whether unit is a washer/dryer (has been on website since implementation) |
| Control Mechanism | Control | Timer or autosensing |
| Name of program/temperature setting to be noted on energy label | Prog_Name | |
| Rated Capacity (kg) | Capacity | |
| Rated Program Time (min.) | Prog_Time | |
| Total Water Consumed | Tot_Wat_Cons | Litres |
| Comparative Energy Consumption | CEC | 2000 Algorithm, 52 loads/year |
| Star Rating Index | SRI | 2000 Algorithm |
| Star Rating | Star | 2000 Algorithm |
| Moisture Removed (kg) | Test_Moist_Remove | |

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| Appliance Type | Clothes Washers – AS/NZS 2040.2 | |
|---|--|--|
| Field Description | Field Name | Notes |
| Clothes Washer Type | Type | Drum/non-drum |
| Clothes Washer Action | MachineAction | Agitator, impeller, jet, bubble, nutator, other (non drum only) |
| Clothes Washer Loading | Loading | Top/front |
| Detergent type | DetergentType | Type C or IEC B |
| Combination Unit | Combination | Yes/No – whether unit is a washer/dryer (has been on website since implementation) |
| Rated Load Capacity (kg) | Capacity | |
| Water connection mode | Conn_Mode | Cold/dual/hot |
| Internal heater | internal_heater | Yes/No |
| Delay start option | delayStartMode | Yes/No |
| Name of Program/temperature setting – Warm Wash | Prog_Name | |
| Name of Program/temperature setting – Cold Wash | Cold_Prog | |
| Tested Program Duration | Test_Prog_Time | |
| Tested Cold Water Volume | Cold_Wat_Cons | Litres (warm wash) |
| Tested Hot Water Volume | Hot_Wat_Cons | Litres (warm wash) |
| Tested Total Water Volume | Tot_Wat_Cons | Sum of hot and cold litres (warm wash) |
| Water Extraction Index (measured average value) | WEI | Spin index required for SRI calculation |
| Comparative Energy Consumption – Warm Wash | CEC | kWh/365 uses |
| Comparative Energy Consumption – Cold Wash | CEC_Cold | Includes 1 litre warm water for detergent, where used |
| Star Rating Index | SRI | 2000 Algorithm |
| Star Rating | Star | 2000 Algorithm |
| Post program energy | postProgenergy | Wh |
| End of cycle mode - power | powerConsMode | Watts |
| Off mode - power | standbyPowerUsage | Watts |
| Water Star Rating Index | WRI | From WELS database – public data |
| Water Star Rating | Water_Rating | From WELS database – public data |

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| Appliance Type | Dishwashers – AS/NZS 2007.2 | |
|---|------------------------------------|---------------------------------------|
| Field Description | Field Name | Notes |
| Dishwasher Type | Type | Built in/freestanding/on bench/mobile |
| Name of Program/Temperature setting to be noted on Energy Label | Prog_Name | |
| Claimed Program Time (min) | Prog_Time | |
| Rated Capacity | Capacity | Place Settings |
| Load type | Load_Type | IEC or AS/NZS |
| Water connection mode | Conn_Type | Single/dual |
| Water softener | Water_Softener | Yes/No |
| Delay start option | delayStartMode | Yes/No |
| Claimed Total Water Consumption | Tot_Wat_Cons | Litres |
| Comparative Energy Consumption | CEC | kWh/365 uses |
| Star Rating Index | SRI | 2000 Algorithm (same as 2003) |
| Star Rating | Star | 2000 Algorithm (same as 2003) |
| Post program energy | postProgenenergy | Wh |
| End of cycle mode - power | powerConsMode | Watts |
| Off mode - power | standbyPowerUsage | Watts |
| Water Star Rating Index | WRI | From WELS database – public data |
| Water Star Rating | Water_Rating | From WELS database – public data |

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| Appliance Type | Water Heaters – AS/NZS 4692.2 | |
|--|--------------------------------------|---|
| Field Description | Field Name | Notes |
| NZ MEPS claim | Label-MEPSNZ | Claimed for NZ MEPS – NZ MEPS levels different to Australia |
| Water Heater Type | Type | Unvented/Displacement (max >120k Pa) Unvented/Displacement (max <120k Pa) Vented/Displacement Vented/Non-displacement Heat Exchange |
| Vented type | vent_displacement | Cistern fed (separate/remote feed tank) Top mounted feed tank – attached Side mounted feed tank – attached |
| Adjustable thermostat | adjust_temp | Yes/No |
| Rated Hot Water Delivery | Capacity | Litres |
| Rated Nominal Capacity | Gross_Store_Cap | Litres |
| Main Heating Element Rating | Main_unit_rating | kW |
| No. of Heating Units | Heating_Elements | Required to calculate MEPS level |
| No. of TPR Valves | TPR_Valves | Required to calculate MEPS level |
| No. of Attached Feed Tanks (heat exchange and vented water heaters only) | tot_feed_tanks | Required to calculate MEPS level |
| No. Expansion relief valves (heat exchange units only) | tot_expan_valves | Required to calculate MEPS level |
| No. Other hot water fittings (heat exchange units only) | tot_hotwat_fittings | Required to calculate MEPS level |
| Rated or Declared Standing Heat Loss | Decl_Stand_Heat | |
| Prescribed MEPS Level | Label-MEPS | MEPS level without allowances |

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| Appliance Type | Electric Motors – AS/NZS 1359.5 | |
|--------------------------------------|--|-----------------------------------|
| Field Description | Field Name | Notes |
| Rated Output | HP | kWatt |
| Number of Poles | Number of Poles | |
| Efficiency at 100% rated load | Eff_FL | |
| Efficiency at 75% rated load | Eff_75 | |
| Frame Mounting Code | Mount Code | |
| Frame Size and Code | Frame | |
| Enclosure IP Rating | Encl | |
| Rated Voltage | Voltage | |
| Test Standard | N-Standard | |
| Is MEPS applicable to this model? | MEPS_Applic | MEPS 2006 |
| If MEPS is not applicable – Why Not? | MEPS_Why | |
| Load for MEPS compliance | MEPS_compl_load | 75% or 100% load or both |
| Is this motor High Efficiency (HE)? | High_eff_compl | 2001 or 2005 |
| Load for HE compliance | High_eff_load | 75% or 100% load or both |
| Test Method used | N-TestMethod | Method A or B |
| Weight | Weight | Voluntary data |
| Torque full load | Torque_FL | |
| Efficiency at 50% rated load | Eff_50 | |
| Supply frequency | Frequency | Not in CSV – Motor Selector field |
| Design | Design | Not in CSV – Motor Selector field |
| Feature | Feature | Not in CSV – Motor Selector field |
| RPM at full load | RPM_FL | Not in CSV – Motor Selector field |
| Catalogue reference | Catalog | Not in CSV – Motor Selector field |
| Insulation Class | Insulation_Class | Not in CSV – Motor Selector field |
| Efficiency at 25% rated load | Eff_25 | Not in CSV – Motor Selector field |
| Power factor 100% rated load | PF_FL | Not in CSV – Motor Selector field |
| Power factor 75% rated load | PF_75 | Not in CSV – Motor Selector field |
| Power factor 50% rated load | PF_50 | Not in CSV – Motor Selector field |
| Power factor 25% rated load | PF_25 | Not in CSV – Motor Selector field |
| Full load current (amps) | Amps_FL | Not in CSV – Motor Selector field |
| Direct on line starting current | DOL_Starting_vs_FL_Current | Not in CSV – Motor Selector field |
| Star Delta starting current | Star_Delta_Starting_vs_FL_Current | Not in CSV – Motor Selector field |
| No load current | Amps_Idle | Not in CSV – Motor Selector field |
| DOL starting vs full load torque | DOL_Starting_vs_FL_Torque | Not in CSV – Motor Selector field |
| DOL pull up vs full load torque | DOL_Pull_up_vs_FL_Torque | Not in CSV – Motor Selector field |
| DOL pull out vs full load torque | DOL_Pull_out_vs_FL_Torque | Not in CSV – Motor Selector field |
| Rotor inertia | Rotor_Inertia | Not in CSV – Motor Selector field |
| Star starting vs full load torque | Star_Delta_Starting_vs_FL_Torque | Not in CSV – Motor Selector field |
| Star pull up vs full load torque | Star_Delta_Pull_up_vs_FL_Torque | Not in CSV – Motor Selector field |
| Star pull out vs full load torque | Star_Delta_Pull_out_vs_FL_Torque | Not in CSV – Motor Selector field |

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| Appliance Type | | Refrigerators/Freezers – AS/NZS 4744.2 |
|--|--------------------|---|
| Field | System Code | Notes |
| Appliance designation | Designation | |
| Group | Group | |
| Configuration | Configuration | Upright, Chest, Side-by-side |
| Applicable MEPS | MEPSApproval | Applicable MEPS level (year) and table |
| MEPS cutoff to applicable standard | S-MEPScutoff | Applicable MEPS level for year |
| Number of doors | No Doors | |
| Number of compartments | Tot No Compart | |
| Fresh Food Volume | FF Vol | Gross |
| Freezer Volume | FZ Vol | Gross |
| List compartment types | CompartmentType | Lists all types in model |
| List of Gross volumes by compartment | CompartmentGrVol | Gross volumes |
| List of Storage volumes by compartment | CompartmentNetVol | Storage (net) volumes |
| Total Volume | Tot Vol | Gross – sum of all compartments |
| Comparative Energy Consumption | CEC | kWh/year |
| Star Rating Index | SRI | 2000 Algorithm |
| Star Rating | Star | 2000 Algorithm |
| Is the unit a wine storage cabinet? | WineStorage | Yes/No |
| Does the model have adaptive defrost? | AdaptFrost | Yes/No |
| Does the model have an icemaker? | Icemaker | Yes/No |
| Additional door allowance (kWh/year) | S-MEPS Ad | |

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| Appliance Type | | Lamps – AS/NZS 4782.2 |
|------------------------|--------------------|------------------------------|
| Field | System Code | Notes |
| Length | Nom Len | |
| Nominal Wattage | Nom Watt | |
| Lamp Frequency | Lamp Freq | Hz (mains or HF) |
| Colour Rendering Index | Rated CRI | |
| Class | energy Eff Index | |
| Initial Efficacy | Rated IE | Lumens/Watt (100 hours) |
| Rated Initial Lumens | Rated IL | Lumens |
| Initial Lamp Watts | Rated ILW | Watts |
| Maintained Efficacy | Rated ME | Lumens/Watt (5000 hours) |
| Maintained Lumens | Rated ML | Lumens (5000 hours) |
| Maintained Lamp Watts | Rated MLW | Lumens/Watt (5000 hours) |

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| Appliance Type | | Commercial Refrigerators – AS/NZS 1731.14 |
|--------------------------------|-------------------|--|
| Field | System Code | Notes |
| Type | type | Remote, self contained |
| Climate Class | climate_class | |
| High Efficiency | high_efficiency | Shown as a tick |
| Total Display Area (TDA) | total_dis_area | m ² |
| Total Energy Consumption (TEC) | total_energy_cons | kWh/day/ m ² |
| Energy Efficiency (TEC/TDA) | | Calculated value (not a field) |
| M Package Temperature Class | Temp_Class | Self contained only |

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| Appliance Type | | Distribution Transformers – AS/NZS 2374.1.2 |
|-------------------------|-----------------|--|
| Field | System Code | Notes |
| Network Voltage | network_voltage | In kVs |
| Rated output | Output | kVA |
| Phase | powersupply | Single/three |
| High Efficiency | model_comply | Yes/No |
| Type | Type | Oil filled/dry |
| SWER type | SWERType | Yes/No |
| Input Voltage | In_Voltage | V |
| Output Voltage | Out_Voltage | V |
| Tested power efficiency | tested_PE | % - Nominal 50% load |

| | |
|--|--|
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