**GEMS ACT COMPLIANCE:**

**CHECK TESTING RESULTS JULY 2016 TO JUNE 2017**

1. **Purpose**

This report presents the results of check tests of models of GEMS products finalised between 1 July 2016 and 30 June 2017.

1. **Background**

Check testing refers to activities undertaken to ensure models of GEMS products meet the relevant determination’s GEMS level requirements, often referred to as minimum energy performance standards or MEPS; and the energy efficiency claims of manufacturers and suppliers. Check tests are conducted on behalf of the GEMS Regulator by National Association of Testing Authorities (NATA) accredited or affiliated laboratories either in Australia or overseas. Further information is available from the [GEMS Check Testing Policy](http://www.energyrating.gov.au/document/gems-check-testing-policy).

1. **GEMS Products Check Tested**

The GEMS Regulator finalised the check tests of 86 models of the following 12 GEMS products:

|  |  |
| --- | --- |
| **GEMS Product** | **No. Models** |
| Incandescent lamps | 17 |
| Air conditioners | 13 |
| Televisions | 12 |
| Computers | 10 |
| Refrigerators and freezers | 9 |
| Electric motors | 7 |
| Clothes dryers | 6 |
| Electric water heaters | 4 |
| Clothes washing machines | 4 |
| Dishwashers | 2 |
| Gas water heaters | 1 |
| Compact fluorescent lamps | 1 |
| **Total** | **86** |

1. **Check Test Results**

Seventy-seven of the 86 models (90%) met the relevant determination’s GEMS level requirements and the energy efficiency claims of manufacturers and suppliers at the completion of Stage (1) check testing. Nine models (10%) did not.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **GEMS Product** | **Stage 1 Pass** | | **Stage 1 Fail** | |
| Incandescent lamps | 14 | 82% | 3 | 18% |
| Air conditioners | 11 | 85% | 2 | 15% |
| Televisions | 9 | 75% | 3 | 25% |
| Computers | 10 | 100% | 0 | 0% |
| Refrigerators and freezers | 9 | 100% | 0 | 0% |
| Electric motors | 7 | 100% | 0 | 0% |
| Clothes dryers | 6 | 100% | 0 | 0% |
| Electric water heaters | 4 | 100% | 0 | 0% |
| Clothes washing machines | 4 | 100% | 0 | 0% |
| Dishwashers | 2 | 100% | 0 | 0% |
| Gas water heaters | 1 | 100% | 0 | 0% |
| Compact fluorescent lamps | 0 | 0% | 1 | 100% |
| **Totals** | **77** | **90%** | **9** | **10%** |

In accordance with the GEMS Check Testing Policy, the registrants of the nine models failing the Stage (1) check test were given the choice to arrange for Stage (2) check testing or elect to cancel the registration of the models.

The registrants of four models: two air conditioners and two incandescent lamps, chose to proceed to Stage (2) check testing. The two incandescent lamp models passed Stage (2) check testing and no further action was required.

Seventy-nine models (92%) therefore met the relevant GEMS level requirements and energy efficiency claims of manufacturers and suppliers at the completion of Stage (1) and Stage (2) check testing. Seven models (8%) did not.

Details of the 79 models that passed Stage (1) or Stage (2) check testing are included at Attachment “A”.

1. **GEMS Regulator Responses**

The registrations of both air conditioner models were cancelled by the GEMS Regulator at the request of registrants prior to the completion of Stage (2) check testing:

|  |  |  |  |
| --- | --- | --- | --- |
| **Registration** | **Brand** | **Model** | **Date of Cancellation** |
| QAC2448 | Dunnair | PHS 12 (11.5 kW ducted) | 05/09/2016 |
| QAC2467 | ICE Solair | ICE(RC)-60WM | 07/09/2016 |

The registrants of two models of televisions elected to cancel the model’s registration:

|  |  |  |  |
| --- | --- | --- | --- |
| **Registration** | **Brand** | **Model** | **Date of Cancellation** |
| ATV1765 | Wintal | 32LED16HD | 20/02/2017 |
| ATV0780 | Seiki | SE22RSD01AUR | 30/03/2017 |

Further details are included at Attachment “B”.

In relation to the remaining three models, the following action was taken:

* one television model, the Hitachi UZ507000 (GEMS registration ATV1518) failed to display an on screen warning when the television was set in “store” mode, and the registrant agreed to provide purchasers with software to rectify the contravention.
* one incandescent lamp model was unregistered at the time of failing the Stage (1) check test, and the registrant agreed the model could not be re-registered as it did not meet GEMS level requirements. The registrant agreed to remove all products of the model from supply and destroy remaining stock.
* one compact fluorescent lamp failed a GEMS labelling requirement, and the registrant agreed to relabel all existing and new stock.

1. **Monitoring and Enforcing Compliance**

The GEMS Regulator reminds all suppliers of GEMS products of their obligations under the [GEMS Act 2012](https://www.legislation.gov.au/Details/C2014C00303). The GEMS Regulator, assisted by GEMS inspectors, monitors compliance with the GEMS Act via a GEMS Compliance Monitoring program of check testing and market surveillance. Enforcement action, in accordance with the [GEMS Compliance Policy](http://www.energyrating.gov.au/document/gems-compliance-policy-e3-program), may be taken by the GEMS Regulator where contraventions of the GEMS Act are found.

Further information is available at [energyrating.gov.au](http://www.energyrating.gov.au/suppliers/compliance).

***Attachment A. The 79 models that passed Stage (1) or Stage (2) check testing****.*

| **GEMS Product** | **Brand** | **Model Number** |
| --- | --- | --- |
| Air conditioner | Rinnai | RINV25RHDRC |
| Air conditioner | Beko | BK5200 |
| Air conditioner | Teco | TWW53CFBGJBB |
| Air conditioner | Midea | MIS70 |
| Air conditioner | Elfa | TAC-18F |
| Air conditioner | Proma | PRO-80IT |
| Air conditioner | Dimplex | DCSS18 |
| Air conditioner | Kelvinator | KWH62HRE |
| Air conditioner | Teco | TWS26HVEM/TSO26HVEM |
| Air conditioner | Kogan | KASSAIR25GA |
| Air conditioner | Levante | LEV-ASF26A |
| Clothes dryer | Teka | TCD70 |
| Clothes dryer | AEG | L99699HWD |
| Clothes dryer | Heller | CD06ELEC |
| Clothes dryer | V-ZUG | 12005 |
| Clothes dryer | Teco | TCD70ASAMDBF |
| Clothes dryer | Midea | MDHP07 |
| Clothes washing machine | LG | WD1410SBW |
| Clothes washing machine | Bosch | WAW32640AU |
| Clothes washing machine | Electrolux | EWF14012 |
| Clothes washing machine | AEG | L99699HWD |
| Computer | Fujitsu | B24T-7 |
| Computer | Philips | 243V5Q |
| Computer | Kogan | KALED27MONSC |
| Computer | Dell | E2016Hb |
| Computer | Dell | P1917Sc |
| Computer | Kogan | KALED28UHDMA |
| Computer | GAEMS | G190 (Vanguard) |
| Computer | Sharp | LLS201A |
| Computer | Acer | K242HL |
| Computer | Philips | 273V5L |
| Dishwasher | Esatto | EDW6\*\* |
| Dishwasher | Fisher & Paykel | DW60CKX1 |
| Electric motor | ABB | M2BA 100LB2 |
| Electric motor | Guanglu | YX3-132M-4 |
| Electric motor | SAMT | MSE3-132S-4 |
| Electric motor | Techtop | TAI 801-2 |
| Electric motor | Teco | 2.2kW-2 pole-D90L-AEMB/AEMV |
| Electric motor | Teco Australia | UniMax 11kW 4P (AEAV28) |
| Electric motor | CMG | HLA160L-42-2 |
| Electric water heater | Aquamax | 50L Aquamax Electric Storage (991050Vx) |
| Electric water heater | Radiant | 315A136 |
| Electric water heater | Thermann | 315THM136 |
| Electric water heater | Rheem | 160L Electric Storage (191160R7) |
| Gas water heater | Bosch | 7736502494 (Family 4000S External 12L) |
| Incandescent lamp | NELSON | 70W 240V Halogen Energy Saver Dimmable GLS Lamp (4 pack) N250212 257 (lamp cap) MNGLS70BCF |
| Incandescent lamp | NELSON | 42W 240V Halogen Energy Saver Dimmable GLS Lamp (4 pack) MNGLS42BCF |
| Incandescent lamp | PHILIPS | EcoClassic A55 240V ES E27 42W Dimmable |
| Incandescent lamp | PHILIPS | EcoClassic A55 240V BC22 70W Dimmable |
| Incandescent lamp | Crompton | Halogen MR16 Dichroic bulb CROBAB 12V 20W |
| Incandescent lamp | Osram | Decostar 51 Longlife 45860 WFL |
| Incandescent lamp | Brilliant | Antique Style G94 Bulb B22 Clear |
| Incandescent lamp | Philips | Standard Lustre 25W E27 P45 Clear |
| Incandescent lamp | Mercator | Banana B22 25W 240v |
| Incandescent lamp | Sansai | GL-B1522C 25W P45 |
| Incandescent lamp | Verve Design | Vintage FLG17E |
| Incandescent lamp | Philips | Vintage T30 25W E27 |
| Incandescent lamp | Brilliant | Antique Style T9 Clear E27 |
| Incandescent lamp | Verve Design | FLG15B |
| Incandescent lamp | Liteworks | W9B2215 Large Sphere |
| Incandescent lamp | Liteworks | W9B2216 Pear Clear Retro Globe |
| Refrigerator and freezer | Gorenje | R6192KX |
| Refrigerator and freezer | LG | GB-310NWL |
| Refrigerator and freezer | Fisher & Paykel | RF610ADW5 |
| Refrigerator and freezer | Samsung | SR318LSTC |
| Refrigerator and freezer | Panasonic | NR-CY54AGSAU |
| Refrigerator and freezer | GVA | GVACF200WH |
| Refrigerator and freezer | Palsonic | PAL295CHF |
| Refrigerator and freezer | Elcold | 21XLE |
| Refrigerator and freezer | Gram | FS 3105-90 |
| Television | LG | 49UH610T-TB |
| Television | Samsung | UA55KS8000W |
| Television | Kogan | KALED32DVDZE |
| Television | Kogan | KALED32SMTZC |
| Television | Pendo | PNDLHDU18 |
| Television | Sphere | OX195LED |
| Television | RV Media | 42419 |
| Television | Hitachi | UZ557000 |
| Television | JVC | LT-55NU58A |

***Attachment B. The 4 GEMS registrations cancelled by the GEMS Regulator***

| **Registration** | **GEMS Product** | **Brand** | **Model** | **Registrant** | **Cancelled** | **Reasons** |
| --- | --- | --- | --- | --- | --- | --- |
| QAC2448 | Air conditioner | Dunnair | PHS 12 (11.5kW ducted) | Dunnair Australia | 05/09/2016 | Failed to meet:   * MEPS Cooling (AEER) at rated capacity * MEPS Heating (ACOP) at rated capacity * Power Factor (Cooling mode) * Power Factor (Heating mode) * Effective Power Input (Cooling) * Capacity (Cooling) * EER * AEER * Effective Power Input (Heating) * Capacity (Heating) * COP * ACOP |
| QAC2467 | Air conditioner | ICE Solair | ICE(RC)-60WM | ICE Solair Australia Pty Ltd | 07/09/2016 | Failed to meet:   * MEPS Cooling (AEER) at rated capacity * Capacity (Cooling) * EER * Capacity (Heating) |
| ATV1765 | Television | Wintal | 32LED16HD | Radio Parts Group | 20/02/2017 | Failed to meet:   * On screen warning when set in store mode |
| ATV0780 | Television | Seiki | SE22RSD01AUR | Seiki Australia Pty Ltd | 30/03/2017 | Failed to meet:   * On screen warning when set in store mode |