

Product Fact Sheet – Miscellaneous: Commercial laundry appliances

Table 37. Overview of Commercial laundry appliances

Country	MEPS	High Label	S&L metric	Test procedure	Reference test procedure & metric	Test Procedure (*)	Energy Performance Metric (*)	Notes
EU	N/A		EEITW	WD2_Lot24_Prof_Wet_Draft_Measure_v1.0 . Annex III	unknown	N/A	N/A	Tunnel washer
EU	N/A		EEIWE		unknown	N/A	N/A	Washer-extractor
EU			EEI WCWW		unknown	N/A	N/A	Textile dryer
EU	N/A		unknown		unknown	N/A	N/A	Washer-dryer
India		0.076	unknown	IS 14155	IEC 60456	1	N/A	Washing machines
Russia		N/A	unknown	GOST 51380 (general requirements)	IEC 60456	1	N/A	Washing machines
US	N/A	N/A		10 CFR 431.154	unknown	N/A	N/A	Commercial clothes washers

(*) Conversion factors

Products

1. Commercial laundry products include washers (known as washing machines or clothes washers) and dryers and combinations of the two. Commercial clothes washers are used in commercial settings, multi-family housing, or laundromats. There are two main types of commercial clothes washers: front-loading and top-loading. These are generally horizontal axis (drum) and vertical axis (agitator and impeller) respectively.

2. A number of product types exist for clothes dryers. Firstly, there are air-vented versus condensing dryers (little significance in performance for most products). There are differences in control (timer/manual versus automatic sensing to terminate the load when dry – a range of technologies are used for sensing). Finally, the heat source for drying can be resistance (most common historically and generally low capital cost) and more recently heat pumps (double the efficiency, high capital cost).

Overview of international situation with regards to S&L for this product category

1. Standards for commercial laundry appliances appear to lag behind developments in the residential sector, where regulations are more numerous. Method in India and Russia at least refer to IEC 60456, and it is likely that developments in the EU will consider this standard also (noting that its original purpose was for household washing machines – see sources).

General description of conversion for test procedures and metrics/ efficiency metrics and standards

Methodologies related to the standards cited are not available.

Notes and assumptions

EU: regarding test standards, discussions are currently ongoing at the EU level within the CENELEC Technical Committee TC 59X (clothes washers, dryers and dishwashers). Several standards are available for household clothes washers, dryers and dishwashers, but none are identified for commercial variants. TC 59X is considering EN/ IEC 60456

India: clothes washers (multi-sector): the connection between IS 14155 and IEC 60456 has not been established, other than the latter has been described as equivalent to the former. (See reference below.)

Russia: The Energy Charter Secretariat has noted that test results for washing machines using EN 60456 were 'comparable' to those using Russian standards (see sources, below). However it is not clear whether those tested were residential or commercial types. Further, GOST 51380 specifies general requirements only; those relating specifically to commercial washing machines are unidentified.

US: test procedures are the same as those for US residential clothes washers, in appendix J1 to subpart B of part 431 of 10 CFR 431.154. See the fact sheet on domestic washing machines for details.

List of sources

EU: EC preparatory study - task 8 report: http://www.eup-network.de/fileadmin/user_upload/Produktgruppen/Lots/Working_Documents/Lot24_Dish_T8_ENE_R_clean.pdf;

For (residential) tumble dryers (also) sold for non-household use, see: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:278:0001:0010:EN:PDF>;

EN 60456: <https://shop.austrian-standards.at/Preview.action;jsessionid=C94DF2A28B0A01BA5CA0985ABBCFA49B?preview=&dokkey=366452&selectedLocale=en>

US: regulation and test procedure: <http://www.gpo.gov/fdsys/pkg/CFR-2012-title10-vol3/pdf/CFR-2012-title10-vol3-sec431-154.pdf>

Also see: http://www1.eere.energy.gov/buildings/appliance_standards/product.aspx/productid/46

India: clothes washers: <https://archive.org/details/gov.in.is.14155.1994>

Russia:
http://www.encharter.org/fileadmin/user_upload/document/EE_Standards_and_Labels_2009_ENG.pdf; p34

Product Fact Sheet – Miscellaneous: Medical imaging equipment

Table 38. Overview of Medical imaging equipment

Country	MEPS	High Label	S&L metric	Test procedure	Reference test procedure & metric	Test Procedure (*)	Energy Performance Metric (*)	Notes
EU	N/A		unknown	unknown	ISO WD 13579-1	N/A	N/A	Computer tomography, Ultrasound, X-ray, Magnetic resonance imaging (MRI), Nuclear medicine

(*) Conversion factors

Product

1. This group of products focuses on medical imaging equipment for human applications, including the following:

- Computer Tomography (CT),
- Ultrasound,
- X-Ray,
- Magnetic Resonance Imaging (MRI),
- Nuclear Medicine.

Overview of international situation with regards to S&L for this product category

1. The EU is in the early stages of regulation (or more likely in this case, voluntary agreement) development: based on the literature available (see sources below), test standards have yet to be developed.

General description of conversion for test procedures and metrics/ efficiency metrics and standards

Test procedures are not yet available.

Notes and assumptions

None

List of sources

EU: Draft voluntary agreement (2013): http://www.eup-network.de/fileadmin/user_upload/draft_self_regulation_June_2011_Version_2.pdf

European Commission report (2013): http://www.eup-network.de/fileadmin/user_upload/COM_report_CSTB_Nov_2012.pdf