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FEATURED ARTICLE

UL Offers Certification for European Gas Cooking Appliance Standards

By: Jonathan Brania / UL Principal Engineer - Gas & Wood-Fired Cooking Appliances + Foodservice Sanitation

In addition to controlling costs and remaining innovative, gas appliance manufacturers remain committed to reducing time to market. At UL, we understand how important this is and can now offer improved market access opportunities in Europe. As a leader for gas appliance conformity assessments, UL continues to expand services for the European market to help streamline market access for its clients.

In September 2016, UL's Demko office in Denmark became a Notified Body (NB) for the Gas Appliance Directive (GAD). Coordination with an NB is a mandatory part of the conformity assessment process for the European market, and this status will be expanded when the GAD becomes the Gas Appliance Regulation (GAR) in April 2018.

Later in October 2016, UL opened another state-of-the-art combustion test facility in Carugate, Italy. These efforts to improve and expand continue into 2018, as UL's Northbrook and Toronto facilities leverage their extensive technical expertise and laboratory capabilities to add the EN gas cooking appliance standards to their scopes of accreditation.

These service expansions build on decades of experience certifying gas cooking equipment for the North American market. UL, as both the evaluator and NB, and its customers will be equipped to demonstrate compliance with Europe's gas appliance laws and quickly expedite the certification process.

UL's offerings for gas cooking appliances will include certification to the EN 30 series of standards for household gas cooking appliances, the EN 203 series of standards

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A Letter From Alessio Dellanoce



UL continues to evolve with the appliance industry by expanding our expertise and global footprint. A new center of excellence for testing in the Milan area, specializing in appliances, HVAC and lighting products, marks a significant increase in capacity. The laboratory is spread over 2,500 square meters and enhances the UL Italy headquarters.

The creation of a European center that meets all the testing and certification needs of the appliances and HVAC sector allows UL to offer local safety and performance services to European manufacturers and simplifies the process by offering a suite of services in one facility. Stay tuned to learn more about the future of UL's global journey.

All the best,

Alessio Dellanoce
Global Commercial Leader –
Appliances Industry



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(cover story continued)

UL Offers Certification for European Gas Cooking Appliance Standards

for gas heated catering equipment (also known as “foodservice equipment” or “commercial food equipment” in North America), and EN 298 for automatic burner control systems for burners and appliances that burn gaseous or liquid fuels.

The GAD and GAR

On April 21, 2018, the EU’s Gas Appliance Directive (GAD), which has been in effect since 1993, will become the Gas Appliance Regulation (GAR). While these titles appear synonymous, the change represents a subtle shift in how gas appliances will be regulated by the European Union (EU). An EU directive is a target that is agreed to at the federal level, with each member nation having latitude on how to meet the target. A regulation must be applied in its entirety by each member nation. By shifting from a directive to a regulation, the requirements will become EU law as opposed to national legislation.

If you currently manufacture gas appliances for the EU, it is important to note that the enactment of the GAR will introduce several changes, including the following:

- Manufacturers will be required to perform and document a risk assessment for their products. The assessment must anticipate foreseeable use and misuse. A specific risk assessment model is not mandated, but standards such as EN 15502 and EN 14459 can provide a resource. Risks to consider include explosion, fire, hot surface temperatures, suffocation and poisoning (by combustion gases and contamination of food and water).
- To the extent that risks are identified, the manufacturer will make efforts to remove or reduce the hazard, implement a safeguard, or warn the consumer/user in that prescribed order.
- Both manufacturers and notified bodies must ensure that certified products meet the evolving “state of the art.”

The EN Gas Appliance Standards

Beyond the overarching directives and regulations, the EN gas appliance standards introduce some unique European elements, such as terminology, appliance designation nomenclature and a greater number of test gases intended to better reflect the composition of those used in various EU nations.

- For household appliances, top or surface units that are installed in or on a counter top are referred to as “hobs.” A “range” is a cooker in EN standard language, and an “orifice” is an injector. These are just some of the examples of how terminology differs.
- Whereas gas cooking appliances for the U.S. and Canada are designated as dedicated, convertible, or universal, based on the type of fuel that the appliance is designed to use, European gas cooking appliances are required to be identified by a category designation that signifies the gas types and pressures for which the appliance is designed.
- Depending on the category of the appliance, families of gases are required for testing that can include ordinary methane and propane, along with hydrogen, nitrogen, propylene, butanes (n- and iso-), and combinations thereof to create operational and limit gases for evaluating various burner characteristics. Gases that represent normal operation are referred to as “reference gases,” while gases intended to address flashback/light back, lifting, incomplete combustion, sooting and overheating are called “limit gases.”

Count On UL

Whether your company already manufactures gas cooking appliances for the EU market or aspires to enter the European market, UL has the expertise to meet your product compliance needs while helping you remain on schedule with product launch. To learn more about how UL can support your gas appliance business, contact ApplianceInfo@ul.com.

UL Creates a Building Automation Controls and System Category (CLSB)

By: Jason W Halverson / UL Engineer

Faced with rising energy costs, the need for automation to achieve energy efficiency and ultimately consume less energy is vital. Though individual products can help reduce energy consumption, building automation control systems (BACS) can prove beneficial in residential, commercial and industrial applications. In order to assist in certifying these systems, UL has created a Building Automation Controls and Systems category (CLSB) utilizing the applicable requirements of ANSI/UL 60730-1, where the installation method of the system is installed in accordance with ANSI/NFPA 70, “National Electric Code” (NEC).

This newly developed product category created by UL focuses on BACS that cover a broad range of controls intended for lighting, HVAC and energy efficiency applications through an automatic centralized building management system to analyze, monitor and control various functions of building equipment. The core functionality of the BACS is to maintain a building’s climate within a specified range, provide lighting based upon occupancy (can be scheduled or motion activated), and monitor performance and failures or peripheral devices, while providing non-safety related alarms to indicate the status of a system.

The products covered under this new product category include controls/systems intended to control lighting, heating, ventilation, air conditioning, and the like, for building comfort and energy efficiency. This product category does not cover building fire systems, security systems, elevator control systems, or drapery and window operators.

How does UL evaluate building automation controls systems?

All BACS are evaluated and tested to address potential fire and shock hazards that may be inherent to the product design. Where the design employs a function that is relied upon for functional safety to mitigate against conditions of operation under normal and abnormal operation, a reliable hardware and software investigation is considered in accordance with UL 60730-1. This includes EMC immunity testing, Failure Modes & Effect Analysis (FMEA) of the design and a software reliability investigation, which are all inherent requirements of UL 60730.

How Can UL Assist?

Historically, BACS have been certified under Energy Management Equipment (UL 916), Appliance Controls (UL 244A) and Information Technology Equipment (UL 60950). Evaluation of BACS in accordance with ANSI/UL 60730-1 under UL’s new CLSB product category offers the added benefit of being able to bundle product evaluations for international certifications since UL 60730 is an IEC based standard, which builds upon IEC 60730-1 requirements:

STANDARD	CERTIFICATION TYPE
CSA E60730-1	UL Certification for Canada
IEC 60730-1	IEC CB Test Certificate or Informative Test Report, which can be used towards a manufacturer declared CE marking*
EN 60730-1	European Group Difference, which can be used towards ENEC licensing or Informative Test Report, which can be used towards a manufacturer declared CE marking*

* Note: CE marking is not a UL Certification Marking

Applicable Part 2’s of UL 60730 series of standards may be used in conjunction with the Part 1 standard (General Requirements) depending on the equipment’s specific features (e.g. temperature sensing, humidity sensing, pressure sensing etc.).

What are the benefits of an evaluation under the Building Automation Controls and Systems product category?

Evaluation under the CLSB product category offers several benefits, including:

- Evaluation for safety compliance from a world renowned third-party testing and certification organization;
- Inclusion in UL’s Online Certifications Directory, helping you promote your product as compliant to dealers, installers, consumers and authorities having jurisdiction (AHJs);
- Easier global market access with the option to bundle international certifications.

For additional information regarding the Building Automation Control Systems (CLSB) product category, please [click here](#).

UL Opens Center of Excellence Laboratory for Appliances, Lighting and HVAC in Carugate, Italy

UL recently celebrated the grand opening of its new Carugate-based center of excellence: a new laboratory for testing lighting, appliances, HVAC and gas products and equipment. The opening highlight was an official ceremony, in which the Mayor of the city of Carugate – Mr. Luca Maggioni – took part, along with representatives from UL and many customers from different industries.



UL's Carugate center of excellence, which sits on a 2,500-square meter site, will serve as a hub for the European market and is entirely dedicated to safety, energy efficiency and performance testing. The new facility, which integrates the UL lighting laboratory (formerly based in Burago di Molgora), a lab dedicated to appliances and HVAC products, and the brand new laboratory for gas equipment, benefits from the combined expertise of these complementary services to offer high-tech solutions and a highly skilled staff of engineers and technicians.

The Carugate laboratory is now open for testing, and offers all the safety marks required to access global markets, and to verify lighting and energy efficiency performance. Accepted product categories include luminaires, street-light, lighting components, dishwashers and all domestic appliances; commercial coffee machines and all commercial appliances of the HO.RE.CA channel; ovens and gas equipment; heating and air conditioning equipment



The new facility dedicated to the testing of gas equipment can test 43 different kinds of gas, and represents the most innovative element of the center and the first UL laboratory in Europe dedicated to gas equipment. Manufacturers can now have very different types of products tested and certified locally for the global market and for Europe, all in one central location.

“With this new center of excellence, we are further expanding our testing and certification capacities in Europe to improve how we serve market demand,” said Todd Denison, vice president and general manager for UL's Appliances, HVAC and



Lighting division. “The creation of a European hub to cover all the testing and certification needs of the AHL sectors allows us to offer high-performance services to European manufacturers locally, which simplifies the process by providing testing and certifications from a single source and at one location.”

“UL is a worldwide leader in appliances, HVAC and lighting products testing. This laboratory, matched with our world-class engineering expertise, will increase our capability in the EU, and help our clients access and enter new markets around the world,” says Marcello Manca, UL's vice president of government & industry affairs for Europe.

This article was originally published by [UL Newsroom](#).



Environmental Impact of Water Products

By: Josh Jacobs / UL Technical Information & Public Affairs Manager

When water products and sustainability are discussed in the same sentence, our minds immediately go to water savings, and this is a natural place to start. Water is a resource that is a right for all and is more precious than most people realize. Some have even hypothesized that the next major global war could start over water rights. With this in mind, saving water is the best place to start when thinking about water products and sustainability, but the conversation should not end there.

Saving water is an important aspect of the environmental impact of the products we use in water conveyance and consumption. Programs like WaterSense® make it easy for us to identify some of the water efficient products on the market; however, water savings is certainly not the only aspect we should consider. *What about the simple concept of embodied energy? How much energy was used in the production of one fixture or fitting? How much energy does an ozone generator use during its use phase?* These are questions we can track and understand. They can also help us with our primary

goal of saving water. As the US Geological Survey states¹, in 2005, 349 billion gallons of freshwater were withdrawn per day in the United States. The largest use of that freshwater was thermoelectric production, accounting for 41 percent of freshwater withdrawal, so conserving embodied energy saves water, as well.

To understand how energy contributes to water consumption, we need to understand the overall impact that a product has on its environment. Life Cycle Analysis (LCA) is a tool that is widely used in the sustainable space but, in reality, it's the environmental space that adopted this tool. At its heart, LCAs are incredible business tools that enable manufacturers to take an in-depth look at their manufacturing processes, procedures and delivery methodologies, as well as their supply chain and inputs. A good LCA lets organizations have a comprehensive look inside their business to identify opportunities for improvement. However, many of the products that your organization purchases or specifies aren't going to have an LCA that the manufacturer can provide because it likely contains hundreds of pages with incredibly complex calculations and research, along with confidential information on how they run their business and compete in the marketplace. In other words, an LCA normally is not very leverageable.

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Environmental Impact of Water Products

A better way to understand some of the environmental impacts of the products you are purchasing is to use Environmental Product Declarations (EPDs). EPDs are distilled snapshots of a product's full LCA and impacts on environmental areas. Traditionally, these provide a review of seven impact areas:

- Global warming potential;
- Ozone depletion potential;
- Photochemical ozone creation potential;
- Acidification potential;
- Eutrophication potential;
- Depletion of abiotic resources (elements);
- Depletion of abiotic resources (fossil fuels).

These transparency tools show either an entire industry average impact of a type of product (with an industrywide EPD) or a specific product's impact (in the case of product-specific EPDs). They also show the boundaries of the information – from natural resource gathering for the manufacturing of the product to the end of product life, from when the material gets to a manufacturing facility to when it leaves, or from natural resource gathering for the manufacturing of the product to when it leaves the manufacturing facility – and what performance and/or safety standards they meet. This can be accomplished in approximately 20 pages. To demonstrate commitment, an EPD should be produced in conjunction with a third-party organization, such as UL Environment, that verifies the information in the EPD is accurate per the LCA. [EPDs](#) do not guarantee that a product is environmentally friendly or sustainable, but they offer a third-party-verified look at the manufacturing impacts of that product.

Many industry associations and manufacturers are producing EPDs. You simply need to request to see them and then use them in your procurement procedures. These can be used throughout procurement, bidding and specification. EPDs are becoming more and more available in numerous industries, including water products, and you can rely on the traditional third-parties and approved agencies that you have used for years in procurement. This will allow you to understand some of the main ways in which a product can impact the environment.

Many different sustainability rating systems/codes/standards are now recognizing EPDs as a way to ensure people understand the environmental impacts of products. The US Green Building Council's LEED Rating System, NAHB's National Green Building Standard, ASHRAE 189.1, International Code Council's International Green Construction Code, Green Globes, and BREEAM are some of the green building rating systems or codes where EPDs are recognized in material chapters. Many architects, designers and procurement professionals are also utilizing EPDs to help make choices when deciding between products for their projects.

With an increasing number of organizations looking to ensure their environmental impacts are as minimal as possible, and procurement being done based on environmental impact factors, the use of EPDs is somewhat obvious. Today, we, as a water focused community, can easily make a difference in multiple areas of sustainability by expanding the new tools we have in our toolbox.

About the Author: Josh Jacobs serves as the Technical Information & Public Affairs Manager for UL, LLC. He is responsible for environmental and public health authority engagement and outside code participation for UL Environment.

As originally published in the February 2018 issue of WQP Magazine.

¹ <https://water.usgs.gov/edu/wateruse-total.html>

A First-of-its-Kind Certification from UL

UL issued the first Certification for the super high voltage DC Li-ion battery produced by SUMEC Hardware & Tools Co., Ltd., an affiliate under SUMEC Group (hereinafter referred to as “SUMEC Hardware”). This Certification represents a significant breakthrough and successful cooperation in the area of new energy and high-class gardening tools. Brian Ferriol, business development director of Appliances, HVAC & Lighting of UL, Liu Kai, president of SUMEC Hardware, and other leaders and colleagues in relevant departments attended the ceremony to observe this important moment.

to research and development to solve the problems of short service time and low working efficiency of DC tools. SUMEC Hardware, with its series of gardening tools powered by 120V super high voltage Li-ion battery, met all UL requirements to earn the first certificate of this kind in the world

“In China, UL has endeavored to provide up-and-down stream manufacturers with high quality, local and professional service. With the help from UL, more and more Chinese brands have been accepted by consumers around the world, and SUMEC is one of them who outperformed.” said Brian Ferriol

Given the lack of authorized standards for DC high voltage products in the market, UL researched and developed the standard requirements applicable to DC high charging and discharging currents (UL 2595 Ver. 2). These requirements are lower than the requirements in Class II insulation, clarifying different opinions on the section of high charging and discharging currents in the market.

Liu Kai, President of SUMEC Hardware expressed, “SUMEC has insisted on marketization and industrialization as its ultimate goals, with ‘integrated research and development, collaborative innovation’ as basic patterns. By establishing a number of domestic and international R&D institutions, it forms sustainable R&D mechanisms and platforms. SUMEC has been collaborating closely with UL, and we are in accordance with international standards in the whole process. Being awarded the UL certification implies the guarantee of SUMEC’s quality. It has also boosted the confidence in the ‘Made in China’ products’ performances on the world stage.”

Brian Ferriol, business development director of Appliances, HVAC & Lighting of UL (right) presented the certificate to Liu Kai, president of SUMEC Hardware (Left)

In the future, UL will maintain its global vision by paying close attention to the trends and development of Li-ion battery DC tools, bringing value-added certification and global access information to the industry, and helping “Made in China” products win a world-wide reputation.

As one of the biggest gardening tool and electric tool exporting enterprise in China, SUMEC Hardware has dedicated many years



Brian Ferriol, business development director of Appliances, HVAC & Lighting of UL (right) presented the certificate to Liu Kai, president of SUMEC Hardware (Left)

Standards Corner

[Click here](#) for Standards information

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STP 1017 - VACUUM CLEANERS, BLOWER CLEANERS, AND HOUSEHOLD FLOOR FINISHING MACHINES – A new revision cycle has begun. The UL call for the proposals period closed February 12, 2018. Two new proposal requests were received. The technical harmonization committee met the week of February 26 to review and finalize the draft proposals prior to passing along to the SDOs for processing.

STP 507 - ELECTRIC FANS AND POWER VENTILATORS – UL 705 revisions were published on February 13, 2018. UL 507 revisions were published on February 22, 2018. An STP meeting was held February 27, 2018; the decision list was posted February 28, documenting outcomes from the meeting.

STP 923 – MICROWAVE COOKING APPLIANCES – A new proposal intended to address the potential risks associated with handling hot food and beverage items by young children in connection with microwave oven usage has been circulated for preliminary STP review, closing March 26, 2018. This proposal is the result of a task group that worked diligently to get to this point, carefully considering information available on this topic.

STP 749 – HOUSEHOLD DISHWASHERS – The STP preliminary review of the proposed 11th edition concluded October 23, 2017. Comments were received and addressed by the technical harmonization committee, with the ballot expected to open March 2018.

STP 60335-2-8 – HOUSEHOLD & SIMILAR ELECTRICAL APPLIANCES, PART 2: PARTICULAR REQUIREMENTS FOR SHAVERS – The STP preliminary review of the 6th edition concluded September 18, 2017. Comments were addressed at the STP Meeting at the UL Northbrook office on November 11, 2017. Resolutions will be incorporated into the draft for the ballot expected to open March 2018.

STP 2157 - ELECTRIC CLOTHES WASHING MACHINES, EXTRACTORS AND DRYERS – The proposed new editions of UL 2157 and UL 2158 have concluded SDO review and are currently being prepared for final publication.

STP 2595 - GENERAL REQUIREMENTS FOR BATTERY-POWERED APPLIANCES – The new (third) edition of UL/CSA 2595 has been developed and will be circulated for preliminary STP review in March 2018. The new edition will integrate, update and clarify a number of requirements related to maximum rated voltages, use of general purpose batteries, general conditions of test requirements, normal charging of lithium-ion systems, power switches and products powered or charged by universal serial bus (USB) power sources. It is anticipated that third edition UL 2595 will be published in the 4th quarter of 2018.

Global Market Access Corner:

Our Global Market Access team is prepared to help you achieve compliance with new requirements around the world. For more information or to contact our experts, visit our Global Market Access site at ul-certification.com.

These updates are for information purposes only and are not intended to convey legal or other professional advice.

Middle East, G-Mark – UL LLC in the U.S. Becomes Notified Body

*By: Gabriella Mazzola / UL Global Market Access Engineering Leader,
Convenor of Working Group 3 of GSO Notified Bodies Cooperation Group for Low Voltage Regulation*



As an exciting follow-up on UL's participation in the G-Mark program, UL LLC in the U.S. has become the second Notified Body, in addition to UL-Demko, who received their accreditation in June 2016.

UL participated as a major contributor in the second meeting of the GSO Notified Bodies Cooperation Group for the Low Voltage Electrical

Technical Regulation (GNBCG -LV) and relevant Working Group meetings held in Oman on March 18th, 19th and 20th and officially received the accreditation certificate from GSO officials.

Gabriella Mazzola, Convenor of Working Group 3 under the cooperation Group, and Mohamed Amer, UL representative with GSO in GCC countries, attended the meeting to contribute to the harmonization and growth of the program.

More to come, stay tuned!

How UL can help

UL is active and effectively participating in GSO Notified Bodies Cooperation Group for LVE Regulation and can offer expert advice to determine if your product is in scope.

UL is also providing technical expertise and a worldwide network of CB testing laboratories and qualified staff that can deliver G-Mark certificates in an effective, reliable way.

[Learn more about G-Mark Services](#)

Middle East, G-Mark – Restriction of Scope for Washing Machines and Dryers Above 10 kg

*By: Gabriella Mazzola / UL Global Market Access Engineering Leader,
Convenor of Working Group 3 of GSO Notified Bodies Cooperation Group for Low Voltage Regulation*

As G-Mark program implementation continues to improve towards the removal of all inconsistencies, GSO officially announced that the scope of category 3 for "household clothes dryers and clothes washing machines, including machines which both wash and dry" will be restricted from 12 kg capacity to 10 kg.

The decision is due to the alignment of the scope of the category with the relevant HS codes in order to achieve full consistency for market access surveillance by custom officers in GCC countries.

Category 3 scope is detailed as follows:

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Global Market Access Corner

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Middle East, G-Mark – Restriction of Scope for Washing Machines and Dryers Above 10 kg

PRODUCT CATEGORY, COVERAGE, IEC STANDARDS	HS COMMODITY CODES AND COMMODITY SCOPE
Household clothes dryers and clothes washing machines, including machines which both wash and dry with capacity up to 10 kg:	84 21 12 00 Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases. - Centrifuges, including centrifugal dryers:
Tumble dryers - IEC 60335-1; IEC 60335-2-11	- - Clothes dryers
Spin extractors - IEC 60335-1, IEC 60335-2-4	84 50 11 00 Household or laundry-type washing machines, including machines which both wash and dry
Clothes washing machines - IEC 60335-1, IEC 60335-2-7	- Machines, each of a dry linen capacity not exceeding 10 kg: - - Fully automatic machines.
	84 50 12 00 Household or laundry-type washing machines, including machines which both wash and dry
	- Machines, each of a dry linen capacity not exceeding 10 kg: - - Other machines, with built-in centrifugal drier
	84 50 19 00 Household or laundry-type washing machines, including machines which both wash and dry
	- Machines, each of a dry linen capacity not exceeding 10 kg: - - Other

Discussions are still ongoing inside GSO-NB's cooperation group to address all issues connected to this change.

More to come, stay tuned!

How UL can help

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[Learn more about G-Mark Services](#)

Global Market Access Corner

Japan, PSE Specified Products Mark – UL at Northbrook Expands Capability

By: Kazu Iwasaki / UL DENAN (PSE Mark) Program Owner

We are pleased to announce that UL at Northbrook is now recognized by Japan's Ministry of Economy, Trade and Industry (METI) as a Conformity Assessment Body (CAB) authorized to provide services relating to mandatory product investigation (safety and EMC), factory inspection and issuance of DENAN certificates for Specified Products (SPs) in the categories shown below. UL LLC is currently the only CAB in North America who is registered by METI and issues mandatory DENAN (PSE Mark) certificates on behalf of METI. Recent additions to UL LLC at Northbrook's scope is noted below:

- Electric heating appliances
- Motor-operated appliances

How UL can help

As a conformity assessment body recognized by METI, UL is expertly qualified to conduct testing and product investigations, factory inspections and issuance of the PSE Mark for products on the Specified Products List. For products on the Non-specified List, we can support by conducting testing required for compliance.

European Union – Upcoming Standard Changes for Appliances Products

By: Elena Andreula / UL EMEA Regulatory Program Expert

Harmonized Standards Dates of Withdrawal

Electrical equipment which is in conformity with a harmonized European Standard (EN) cited in the Official Journal of the European Union may be presumed to be in conformity with the corresponding requirements of harmonization legislation.

New European harmonized standard editions or amendments become mandatory starting from the "Date of cessation of presumption of conformity of superseded standard" as published in the Official Journal of the European Union. Generally this date is the same as the "Date of Withdrawal" (DOW) as published in the individual superseding standards.

This date marks the end of the period during which both the old and the new version of the standard can be used to claim 'presumption of conformity' to the essential requirements of the relevant directive. After that date, 'presumption of conformity' can no longer be claimed for a product manufactured according to the old version of the standard.

Here is an overview of the recent and expected changes in harmonized standards.

EN 60335-1:2012/A12:2017/A13:2017 DOW 2020-05-03 – New Amendments

The principal changes concerns Annex ZZ that has been added as mandated by the Commission, showing the relation between the coverage of the standard and the individual parts of the essential requirements of the directives, so that the standard can be listed in the Official Journal of the European Union under the New Low Voltage Directive 2014/35/EU which came into force in April 2016, and the Machinery Directive 2006/42/EC. This aligns the standard with the new legislative framework of the Low Voltage Directive.

EN 60335-2-6: 2015 DOW 2018-02-09 supersedes EN 60335-2-6:2003/A11/A12/A13/A1/A2

EN 60335-2-6:2015 is in alignment with IEC 60335-2-6:2014 and deals with the safety of stationary electric cooking ranges, hobs, ovens and similar appliances for household use, their rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances. This Standard also includes some requirements for ovens that are intended to be used on board ships.

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European Union – Upcoming Standard Changes for Appliances Products

The principal changes in this edition are as follows:

- introduction of requirements for steam ovens;
- introduction of requirements for ovens intended for use on ships;
- clarified requirements for oven shelf construction and test;
- introduction of optional values for the accessible surface temperatures of ovens;
- introduction of stabilising means including warnings;
- clarified representative periods for various appliances (Clause 10);
- introduction of a spillage test for built-in under-bench ovens.

EN 60335-2-25:2012/A2:2016 DOW 2018-12-28 – New Amendment

60335-2-25 deals with the safety of microwave ovens for household and similar use, their rated voltage being not more than 250 V. This standard also deals with combination microwave ovens. Appliances not intended for normal household use.

A2:2016 to EN 60335-2-25:2015 is in alignment with A2:2015 to IEC 60335-2-25:2010 and contains the following changes:

- Include dated reference to EN 60335-2-6: 2015
- Add compliance options for outer glass panels of microwave oven doors that breaks during the test of 21.104
- Revised routine tests conditions in Annex A
- Revised marking requirements for microwave ovens to be used on board of ships (Annex BB)

EN 60335-2-34:2013 DOW 2018-06-27 supersedes EN 60335-2-34:2002/A1/A2

EN 60335-2-34:2013 is in alignment with IEC 60335-2-34:2012 and deals with the safety of sealed (hermetic and semi-hermetic type) motor-compressors, their protection and control systems, if any, which are intended for use in equipment for household and similar purposes and which conform with

the standards applicable to such equipment. It applies to motor-compressors tested separately, under the most severe conditions that may be expected to occur in normal use, their rated voltage being not more than 250 V for single-phase motor-compressors and 480 V for other motor-compressors. This standard does not supersede the requirements of standards relevant to the particular appliance in which the motor-compressor is used. However, if the motor-compressor type used complies with this standard, the tests for the motor-compressor specified in the particular appliance standard may not need to be made in the particular appliance or assembly. If the motor-compressor control system is associated with the particular appliance control system, additional tests may be necessary on the final appliance.

EN 60335-2-35:2016 DOW 2018-10-12 supersedes EN 60335-2-35:2002/A1/A2

EN 60335-2-35:2016 is in alignment with IEC 60335-2-6:2014 (with modifications) and deals with the safety of electric instantaneous water heaters for household and similar purposes and intended for heating water below boiling temperature, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances. The principal changes are as follows:

- converted notes to normative text (7.12, 7.102, 8.1.5, 22.104, and 22.109.3);
- deleted notes in 19.13, 22.109, and A.101;
- Added Annex R and 22.108 for appliances with programmable electronic circuits and added requirements for water heaters (22.50, 22.51).

EN 60335-2-58:2005/A2:2015 DOW 2018-05-27

A2:2015 to EN 60335-2-58:2005 is in alignment with A2:2015 to IEC 60335-2-58:2015. Principal changes are as follows:

- This amendment includes Additional requirements for appliances that are controlled by programmable electronic circuits

[continued on next page](#)

(continued)

European Union – Upcoming Standard Changes for Appliances Products

- Revised Annex AA relevant to Detergent and rinsing agent
- Revised Annex BB relevant to “Ageing test for elastomeric parts”
- Revised Annex CC relevant to “Requirements to avoid backsiphonage”

EN 60335-2-58:2005/A12:2016 DOW 2019-01-22 – New Amendments

60335-2-58 deals with the safety of electrically operated dishwashing machines for washing plates, dishes, glassware, cutlery and similar articles, with or without means of heating water or drying, not intended for household use. The rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral and 480 V for other appliances. Appliances within the scope of this standard are used in restaurants, canteens, hospitals, and commercial enterprises such as bakeries, butcheries, etc.

This European amendment included the following:

- Aligns the application of the part 2-58 with EN 60335-1:2012
- Contains specific requirement to provide a means of conforming to essential safety requirements of the Machinery Directive 2006/42/EC.
- Adds Annex ZZ relevant to “coverage of Essential Requirements of EU Directives”

EN 60335-2-89:2010/A1:2016 DOW 2019-02-12; EN 60335-2-89:2010/A2:2017 DOW 2020-07-03 – New Amendments

60335-2-89 specifies safety requirements for electrically operated commercial refrigerating appliances that have an incorporated compressor or that are supplied in two units for assembly as a single appliance in accordance with the manufacturer’s instructions (split system).

A1:2016 and A2:2017 to EN 60335-2-89:2010 is in alignment with A1:2012 and A2:2015 to IEC 60335-2-89:2010 (modified) and contains numerous significant modifications

The principal changes in the edition are as follows:

- aligns the text with IEC 60335-1 and its Amendments 1 and 2;
- introduces requirements for appliances using transcritical refrigerant systems;
- introduces an enhanced flexing test.

EN 60335-2-102:2016 DOW 2019-01-22 Supersedes EN 60335-2-102:2006 EN 60335-2-102:2006 / A1:2010

EN 60335-2-102:2016 is in alignment with IEC 60335-2-102:2004 with A1:2008 and A2:2012 (Modified) and deals with the safety of gas, oil and solid-fuel burning appliances having electrical connections, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.

This edition contains numerous significant modifications.

How UL can help

UL is expertly qualified to assist companies in demonstrating their products meet the essential requirements of harmonized legislation and help customers achieve compliance testing according to applicable harmonized standards.

In addition, UL certifies products for the DMark and UL-EU Mark. Widely recognized throughout Europe, the DMark and UL-EU Mark are voluntary for appliances and they demonstrate compliance of products with harmonized European standards as determined by UL. Therefore, they are complementary marks to the mandatory CE marking which is based on a self-declaration.

Global Market Access Corner

European Union - Energy Labelling Regulation (EU) 2017/1369

By: Elena Andreula / UL EMEA Regulatory Program Expert

On July 28, 2017, the new Regulation (EU) 2017/1369 was published in the European Union Official Journal and it replaced Directive 2010/30/EU with effect on August 1, 2017.

The Regulation (EU) 2017/1369 establishes deadlines to replace the current A+, A++, A+++ classes with an A to G scale and establishes a product database that assists both national surveillance authorities in their enforcement of market surveillance and makes publicly available online the list of labelled products.

Purpose

The classification using letters from A to G is cost effective for customers selecting products based on energy efficiency. Moreover, it helps manufacturers develop and produce more efficient products.

The product database is a useful tool for the collection of data concerning products. This database provides the public with information about products and their energy labels and supports market surveillance authorities in carrying out their tasks.

Rescaling of Labels

The regulation is already in force but for household dishwashers, household refrigerating appliances, household



washing machines and household combined washer-dryers delegated acts will be adopted by the Commission by **November 2, 2018**.

For products groups covered by all the other delegated acts adopted pursuant to Directive 2010/30/EU, the Commission by **August 2, 2023**

adopts delegated acts of this Regulation.

Delegated acts of this Regulation have not been finalized yet.

They will lay down the details relating to introducing A to G rescaled labels with the aim of displaying them both in stores and online within specified effective dates.

After the adoption of a delegated act of this Regulation setting specific labeling requirements, the Commission publishes references to the harmonized standards that satisfy the relevant measurement and calculation requirements of the delegated act in the Official Journal of the European Union.

Database

The obligations of suppliers in relation to the product database shall apply beginning January 1, 2019

The product database consists of a public portion, a compliance portion, and an online portal. Information for the public and for the compliance portion of the database shall be entered by the supplier while information for the online portal shall be entered by the Commission.

Effective January 1, 2019, the suppliers shall, before placing a new covered model on the market, complete the public and compliance portions of the product database the information required for that model.

Where units of models covered by a delegated act are placed on the market between August 1, 2017 and January 1, 2019, the supplier shall, by June 30 2019, enter in the product database the information set out in relation to those models.

Information included in the public part of the database and the online portal shall be made publicly available while the compliance part shall be accessible only to the market surveillance authorities and to the Commission.

Conclusion

Delegated acts adopted pursuant to Article 10 of Directive 2010/30/EU and Directive 96/60/EC shall remain in force until they are repealed by a delegated act of this Regulation covering the relevant product group.

How UL can help

UL is expertly qualified to assist companies in demonstrating their products meet the essential requirements of Energy Labelling Regulation (EU) 2017/1369 and provides testing for appliances to demonstrate compliance from a trusted third party.



Middle East, Saudi Arabia – SASO CoPC Initial Scope Confirmed

*By: Gabriella Mazzola / UL Global Market Access Engineering Leader,
Convenor of Working Group 3 of GSO Notified Bodies Cooperation Group for Low Voltage Regulation*

The new SASO IECEE CB Recognition Program, also known as SASO Certificate of Product Conformity (SASO CoPC), which was announced to become mandatory starting February 15, 2018, has been postponed for water pumps, electric motors and dishwashers for a period of three to six months. The final implementation date has not yet been determined by SASO.

SASO must also define the details of the products in scope, applicable standards and HS commodity codes for customs surveillance.

SASO CoPC will replace the current SASO CoC program and will be based upon mandatory submission of a valid CB Test Certificate and CB Test Report covering Saudi national differences as applicable. The CoPC will be valid for one year and will need annual renewal.

Tradeshows & Webinars

Contact UL industry experts if you'd like to setup an in-person meeting at any of the listed tradeshows or if you have any general questions. We're here to help!

China Refrigeration (CRH)

April 9-11, 2018
New China Intl Exhibition Center (NCIEC),
Beijing, CN

[Learn more >](#)

Techno Frontier

April 18-20, 2018
Makuhari Messe Chiba, JP

[Learn more >](#)

IDA Expo

April 25-28, 2018
Las Vegas, NV

[Learn more >](#)

AHRI Spring Meeting

May 7-9, 2018
Baltimore, MD

[Learn more >](#)

National Hardware Show

May 8-10, 2018
Las Vegas, NV

[Learn more >](#)

National Restaurant Association Show

May 19-22, 2018
McCormick Place Chicago, IL

[Learn more >](#)

Kitchen & Bath China Show

June 5-8, 2018 – Shanghai New International
Expo Centre, CN

[Learn more >](#)

ACE AWWA

June 12-14, 2018 – Mandalay Bay Convention
Center Las Vegas, NV

[Learn more >](#)

FOOMA

June 12-15, 2018
Tokyo Big Sight, JP

[Learn more >](#)

NEHA Annual Educational Conference

June 25-28, 2018
Anaheim Marriott Hotel, CA

[Learn more >](#)

Recorded Webinar: WaterSense® Overview Presented by UL

This short webinar will provide a general overview of the EPA's WaterSense® program. We will provide a high level review of the program's goals and key players: EPA, Manufacturers, and Certification Bodies. The types of products included in the program, the marks used, and the product evaluation process will also be highlighted. Don't miss the opportunity to stay up-to-date with market surveillance and the continued compliance requirements for the industry.

[Click here to view the FREE recording >](#)

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