

Commission Regulation (EU) No 813/2013 of 2 August 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for space heaters and combination heaters (Text with EEA relevance)

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ANNEX I

Definitions applicable for Annexes II to V

For the purposes of Annexes II to V the following...

Definitions related to heaters

- (1) 'standby mode' means a condition where the heater is connected...
- (2) 'standby mode power consumption' (PSB) means the power consumption...
- (3) 'average climate conditions' mean the temperature conditions characteristic for the...
- (4) 'temperature control' means the equipment that interfaces with the end-user...
- (5) 'gross calorific value' (GCV) means the total amount of heat...
- (6) 'equivalent model' means a model placed on the market with...

Definitions related to boiler space heaters, boiler combination heaters and...

- (7) 'fuel boiler space heater' means a boiler space heater that...
- (8) 'fuel boiler combination heater' means a boiler combination heater that...
- (9) 'type B1 boiler' means a fuel boiler space heater incorporating...
- (10) 'type B1 combination boiler' means a fuel boiler combination heater...
- (11) 'seasonal space heating energy efficiency in active mode' (η_{son})...
- (12) 'useful efficiency' (η) means the ratio of the useful heat...
- (13) 'useful heat output' (P) means the heat output of a...
- (14) 'electrical efficiency' (η_{el}) means the ratio of the electricity...
- (15) 'ignition burner power consumption' (P_{ign}) means the power consumption...
- (16) 'condensing boiler' means a boiler space heater or boiler combination...
- (17) 'auxiliary electricity consumption' means the annual electricity required for the...
- (18) 'standby heat loss' (P_{stby}) means the heat loss of...

Definitions related to heat pump space heaters and heat pump...

- (19) 'outdoor temperature' (T_j) means the dry bulb outdoor air...
- (20) 'rated coefficient of performance' (COP_{rated}) or 'rated primary energy...
- (21) 'reference design conditions' means the combination of the reference design...
- (22) 'reference design temperature' ($T_{designh}$) means the outdoor temperature, expressed in...
- (23) 'part load ratio' ($pl(T_j)$) means the outdoor temperature minus...
- (24) 'heating season' means a set of operating conditions describing per...
- (25) 'bin' (bin_j) means a combination of an outdoor temperature...
- (26) 'bin hours' (H_j) means the hours per heating season,...
- (27) 'part load for heating' ($Ph(T_j)$) means the heating load...
- (28) 'seasonal coefficient of performance' (SCOP) or 'seasonal primary energy ratio'...
- (29) 'reference annual heating demand' (QH) means the reference heating...
- (30) 'annual energy consumption' (QHE) means the energy consumption required...
- (31) 'annual equivalent active mode hours' (HHE) means the assumed...
- (32) 'active mode coefficient of performance' ($SCOP_{on}$) or 'active mode...
- (33) 'supplementary capacity for heating' ($sup(T_j)$) means the rated heat...
- (34) 'bin-specific coefficient of performance' ($COP_{bin}(T_j)$) or 'bin-specific primary energy...
- (35) 'declared capacity for heating' ($P_{dh}(T_j)$) means the heating capacity...
- (36) 'capacity control' means the ability of a heat pump space...
- (37) 'design load for heating' ($P_{designh}$) means the rated heat output...
- (38) 'declared coefficient of performance' ($COP_d(T_j)$) or 'declared primary energy...
- (39) 'bivalent temperature' (T_{biv}) means the outdoor temperature declared by...
- (40) 'operation limit temperature' (TOL) means the outdoor temperature declared by...
- (41) 'heating water operation limit temperature' (WTOL) means the outlet water...
- (42) 'cycling interval capacity for heating' (P_{psych}) means the integrated heating...
- (43) 'cycling interval efficiency' (COP_{cyc} or PER_{cyc}) means the average coefficient...
- (44) 'degradation coefficient' (C_{dh}) means the measure of efficiency loss due...
- (45) 'active mode' means the condition corresponding to the hours with...
- (46) 'off mode' means a condition in which the equipment is...
- (47) 'thermostat-off mode' means the condition corresponding to the hours with...
- (48) 'crankcase heater mode' means the condition in which a heating...
- (49) 'off mode power consumption' ($POFF$) means the power consumption...
- (50) 'thermostat-off mode power consumption' (PTO) means the power consumption...
- (51) 'crankcase heater mode power consumption' (PCK) means the power...
- (52) 'low-temperature heat pump' means a heat pump space heater that...
- (53) 'low-temperature application' means an application where the heat pump space...
- (54) 'medium-temperature application' means an application where the heat pump space...

Definitions related to water heating in combination heaters

- (55) 'load profile' means a given sequence of water draw-offs, as...
- (56) 'water draw-off' means a given combination of useful water flow...
- (57) 'useful water flow rate' (f) means the minimum flow rate,...
- (58) 'useful water temperature' (T_m) means the water temperature, expressed...
- (59) 'useful energy content' (Q_{tap}) means the energy content of...
- (60) 'energy content of hot water' means the product of the...

- (61) 'peak temperature' (Tp) means the minimum water temperature, expressed...
- (62) 'reference energy' (Qref) means the sum of the useful...
- (63) 'maximum load profile' means the load profile with the greatest...
- (64) 'declared load profile' means the load profile applied for conformity...
- (65) 'daily electricity consumption' (Qelec) means the consumption of electricity...
- (66) 'daily fuel consumption' (Qfuel) means the consumption of fuels...

ANNEX II

Ecodesign requirements

1. REQUIREMENTS FOR SEASONAL SPACE HEATING ENERGY EFFICIENCY
2. REQUIREMENTS FOR WATER HEATING ENERGY EFFICIENCY
 - (a) From 26 September 2015 the water heating energy efficiency of...
 - (b) From 26 September 2017 the water heating energy efficiency of...
3. REQUIREMENTS FOR SOUND POWER LEVEL
4. REQUIREMENTS FOR EMISSIONS OF NITROGEN OXIDES
 - (a) From 26 September 2018 emissions of nitrogen oxides, expressed in...
5. REQUIREMENTS FOR PRODUCT INFORMATION

ANNEX III

Measurements and calculations

For the purposes of compliance and verification of compliance with...

Table 3 Standard rating conditions for heat pump space heaters...

Table 4 Reference design conditions for heat pump space heaters...

Table 5 European reference heating season under average climate conditions...

Table 6 Maximum ventilation exhaust air available [m³/h], at humidity...

ANNEX IV

Product compliance verification by market surveillance authorities

The verification tolerances defined in this Annex relate only to...

When verifying the compliance of a product model with the...

The Great Britain authorities shall verify one single unit of...

The Great Britain authorities shall use the measurement and calculation...

The Great Britain authorities shall only apply the verification tolerances...

Table 8 Verification tolerances Parameters Verification tolerances Seasonal space-heating energy...

Changes to legislation: There are currently no known outstanding effects for the
Commission Regulation (EU) No 813/2013. (See end of Document for details)

ANNEX V

Indicative benchmarks referred to in Article 6

At the time of entry into force of this Regulation, ...
Benchmark for seasonal space heating energy efficiency in
medium-temperature application: ...
The benchmarks specified in points 1 to 4 do not ...

Changes to legislation: There are currently no known outstanding effects for the
Commission Regulation (EU) No 813/2013. (See end of Document for details)

- (1) OJ L 285, 31.10.2009, p. 10.
- (2) OJ L 167, 22.6.1992, p. 17.
- (3) OJ L 330, 16.12.2009, p. 10.
- (4) See page 1 of this Official Journal.
- (5) OJ L 316, 14.11.2012, p. 12.

Changes to legislation:

There are currently no known outstanding effects for the Commission Regulation (EU) No 813/2013.