

DIN EN 303-6:2019-12 (E)

Heating boilers - Part 6: Heating boilers with forced draught burners - Specific requirements for the domestic hot water operation and energy performance of water heaters and combination boilers with atomizing oil burners of nominal heat input not exceeding 70 kW

Contents		Page
European foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	Constructional requirements	8
4.1	General	8
4.2	Materials and method of construction of components of the domestic water circuit	8
4.3	Domestic water connections	9
4.4	Soundness of the domestic water circuit	9
4.5	Adjusting, control and safety devices for the domestic hot water circuit	9
5	Operational requirements	9
5.1	General	9
5.2	Safety of the domestic hot water circuit	9
5.3	Rational use of energy	10
5.4	Fitness of purpose	10
6	Test methods	11
6.1	General	11
6.2	Safety of the domestic hot water circuit	11
6.3	Rational use of energy	13
6.4	Fitness for purpose	15
7	Energy efficiency for hot water production	18
7.1	Reference conditions	18
7.2	Measurement uncertainties	19
7.3	Test conditions	19
8	Determination of the energy consumption of the appliance	20
8.1	General	20
8.2	Tapping cycles	20
8.3	Measurement of the energy recovered by the useful water	29
8.4	Calculation of heating oil energy	30
8.5	Calculation of daily electrical energy	31
8.6	Measurement of heating oil and electrical energy consumptions in standby mode	32
8.7	Measurement of daily auxiliary energy consumption in off mode	33
9	Determination of the wasted water	33
10	Eco design related products data	34
10.1	Water heating energy efficiency	34
10.2	Annual fuel consumption (AFC)	35
10.3	Annual electricity consumption (AEC)	35

11	Marking and instructions	36
11.1	Marking of the boiler and/or the tank	36
11.2	Instructions	36
	Annex A (informative) Test conditions	38
	Annex B (informative) Test rig and measurement devices	41
	Annex ZA (informative) Relationship between this European Standard and the eco-design requirements of Commission Regulation (EC) No 814/2013 aimed to be covered	45
	Annex ZB (informative) Relationship between this European Standard and the eco-design requirements of Commission Regulation (EC)No 812/2013 aimed to be covered	46
	Annex ZC (informative) Relationship between this European Standard and the eco-design requirements of Commission Regulation (EC) No 813/2013 aimed to be covered	47
	Annex ZD (informative) Relationship between this European Standard and the eco-design requirements of Commission Regulation (EC) No 811/2013 aimed to be covered	48