SCHEDULE 2

Regulation 3

Product requirements

PART 1

Introduction

1. This Schedule sets out in relation to a listed product the requirements that must be met by that product.

PART 2

Boilers and appliances

- 1. A boiler or an appliance must comply with the useful efficiency requirements—
 - (a) at rated output (that is operating at rated output Pn expressed in kW, at an average boilerwater temperature of 70 degrees C); and
 - (b) at part load (that is operating at 30 per cent part load, at an average boiler-water temperature which varies according to the type of boiler),

set out in the table in paragraph 2.

2. The table referred to in paragraph 1—

Useful efficiency requirements

Type of Boiler	Range of power output	Efficiency at ro	ited output	Efficiency at po	art load
	kW	Average boiler-water temperature expressed in degrees C	Efficiency requirement expressed in percent	Average boiler-water temperature expressed in degrees C	Efficiency requirement expressed in per cent
Standard	4 to 400	70	Greater than or equal to 84+2 log Pn	Greater than or equal to 50	Greater than or equal to 80 + 3 log Pn
Low temperature ⁽¹⁾	4 to 400	70	Greater than or equal to 87.5+1.5 log Pn	40	Greater than or equal to 87.5 + 1.5 log Pn
Gas condensing	4 to 400	70	Greater than or equal to 91 + 1 log Pn	30 ⁽²⁾	Greater than or equal to 97 + 1 log Pn

(1) Including a condensing boiler using liquid fuels

(2) Temperature of boiler water supply

3. A boiler or an appliance with a dual function of—

(a) heating premises; and

(b) providing sanitary hot water,

must comply with paragraph 1 to the extent of the heating function only.

- 4. A boiler which is—
 - (a) a back-boiler; or
 - (b) a boiler designed to be installed in the living space,

must be treated as a standard boiler but its efficiency at rated output and part load may be 4 per cent less than shown in the table in paragraph 2.

PART 3

Refrigerator appliances

1. If a refrigerator appliance is within categories 1 to 9 as described in table 1 in paragraph 2, the maximum allowable electricity consumption (Emax) of that appliance, expressed in kWh per 24 hours, is set out in column 3 of that table.

2. The table referred to in paragraph 1—

Table 1

Requirements for m	naximum allowable electricity consur	nption – appliances in categories 1 to 9
Category	Description	Emax (kWh/.24h)

Category	Description	Emax (kWh/.24h)
1	Refrigerator without low temperature compartment (being any compartment with a temperature at or below -6 degrees C)	(0.207 x Vadj + 218) / 365
2	Refrigerator/chiller with compartment at 5 degrees C and/or 12 degrees C	(0.207 x Vadj + 218) / 365
3	Refrigerator with no-star low temperature compartment	(0.207 x Vadj + 218) / 365
4	Refrigerator with low temperature compartment (*)	(0.557 x Vadj + 166) / 365
5	Refrigerator with low temperature compartment (**)	(0.402 x Vadj + 206) / 365
6	Refrigerator with low temperature compartment (***)	(0.573 x Vadj + 206) / 365
7	Refrigerator/freezer, with freezer compartment (****)	(0.697 x Vadj + 272) / 365
8	Food freezer, upright	(0.434 x Vadj + 262) / 365
9	Food freezer, chest	(0.480 x Vadj + 195) / 365

3. If a refrigerator appliance—

(a) has more than 2 doors; or

(b) is not described in table 1,

the maximum allowable electricity consumption (Emax) of that appliance as described in columns 1 and 2 of table 2 in paragraph 4, expressed in kWh per 24 hours, is set out in column 3 of that table.

4. Table 2 referred to in paragraph 3—

Table 1

Requirements for maximum allowable electricity consumption - other appliances

1	J 1	11
<i>Temperature of the coldest compartment</i>	Category	Emax (kWh/24 hours)
> - 6 degrees C	1/2/3	(0.207 x Vadj + 218) / 365
- 6 degrees C(*)	4	(0.557 x Vadj + 166) / 365
- 12 degrees C(**)	5	(0.402 x Vadj + 219) / 365
- 18 degrees C (***)	6	(0.573 x Vadj + 206) / 365
- 18 degrees C(****)	7	(0.697 x Vadj + 272) / 365

5. The categories 1 to 7 referred to in column 2 of table 2 are the same categories of refrigerator appliance numbered 1 to 7 referred to in column 1 of table 1.

6. The following have effect in respect of tables 1 and 2—

 $Vad = \sum VerWerVerCe$ We = (25 - 7e)/20

7. For the purposes of paragraph 6—

Vadj is the value of the adjusted volume (in litres);

Vc is the net volume (in litres) of a given type of compartment in the appliance;

Tc is the design temperature in each compartment (in degrees C);

Fc is a factor which equals—

- (a) 1.2 for no-frost compartments; or
- (b) 1 for other compartments;

Cc is-

- (a) 1 for refrigeration appliances belonging to the normal (N) and subnormal (SN) climate classes;
- (b) Xc for refrigeration appliances belonging to the sub-tropical (ST) climate class; or
- (c) Yc for refrigeration appliances belonging to the tropical (T) climate class;

Xc and Yc are weighting co-efficients defined in paragraph 8.

8. The following table defines the co-efficients Xc and Yc referred to in paragraph 7—

Table 3

Table of weighting co-efficients Xc and Yc, according to the temperature of the compartment

	Xc	Yc
Cellar compartment	1.25	1.35
Fresh food compartment	1.20	1.30

	Хс	Yc
0 degrees C compartment	1.15	1.25
1-star (*) compartment	1.12	1.20
2-star (**) compartment	1.08	1.15
3 (***) and 4 (****) compartments	star 1.05	1.10

9. For the purposes of this Part, a manufacturer must establish the electricity consumption of a refrigerator appliance in accordance with European Standard EN 153.

PART 4

Ballasts for fluorescent lighting

1. A ballast for fluorescent lighting must be allocated to a category as described in table 1 in paragraph 3.

- 2. In respect of—
 - (a) the category of ballast shown in column 1 of table 2 in paragraph 4; and
 - (b) the lamp power shown for that category in column 2 of table 2,

the maximum input value of a ballast lamp circuit shall be the value shown in column 3 of table 2.

3. Table 1 referred to in paragraph 1—

Table 1	Table	1
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Categories of ballast	
Category	Description
1	Ballast for linear lamp type
2	Ballast for compact 2 tubes lamp type
3	Ballast for compact 4 tubes flat lamp type
4	Ballast for compact 4 tubes lamp type
5	Ballast for compact 6 tubes lamp type
6	Ballast for compact 2 D lamp type

4. Table 2 referred to in paragraph 2—

Table	2
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Maximum input power of a ballast-lamp circuit

Ballast category	Lamp Power		Maximum input power of Ballast-lamp circuits	
Column 1	Column 2		Column 3	
	50 Hz	HF		
1	15W	13.5W	23W	

Ballast category	Lamp Pov	ver	Maximum input power Ballast-lamp circuits	
	18W	16W	26W	
	30W	24W	38W	
	36W	32W	43W	
	38W	32W	45W	
	58W	50W	67W	
	70W	60W	80W	
2	18W	16W	26W	
	24W	22W	32W	
	36W	32W	43W	
3	18W	16W	26W	
	24W	22W	32W	
	36W	32W	43W	
4	10W	9.5W	16W	
	13W	12.5W	19W	
	18W	16.5W	26W	
	26W	24W	34W	
5	18W	16W	26W	
	26W	24W	34W	
6	10W	9W	16W	
	16W	14W	23W	
	21W	19W	29W	
	28W	25W	36W	
	38W	34W	45W	

5. For a ballast for fluorescent lighting designed for a lamp which falls between two values shown in table 2, the maximum input value of a ballast lamp circuit must be calculated by linear interpolation between the two values of maximum power for the two lamps which are closest in table 2 to the lamp in question.

6. For the purposes of this Part, a manufacturer must establish the electricity consumption for a ballast for fluorescent lighting in accordance with European Standard EN 50294.