

SCHEDULE 2

Product requirements

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 (E_{max}) 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 maximum allowable electricity consumption – appliances in categories 1 to 9

<i>Category</i>	<i>Description</i>	<i>E_{max} (kWh/.24h)</i>
1	Refrigerator without low temperature compartment (being any compartment with a temperature at or below -6 degrees C)	$(0.207 \times V_{adj} + 218) / 365$
2	Refrigerator/chiller compartment at 5 degrees C and/or 12 degrees C	$(0.207 \times V_{adj} + 218) / 365$
3	Refrigerator with no-star temperature compartment	$(0.207 \times V_{adj} + 218) / 365$
4	Refrigerator with low temperature compartment (*)	$(0.557 \times V_{adj} + 166) / 365$
5	Refrigerator with low temperature compartment (**)	$(0.402 \times V_{adj} + 206) / 365$
6	Refrigerator with low temperature compartment (***)	$(0.573 \times V_{adj} + 206) / 365$
7	Refrigerator/freezer, freezer compartment (****)	$(0.697 \times V_{adj} + 272) / 365$
8	Food freezer, upright	$(0.434 \times V_{adj} + 262) / 365$
9	Food freezer, chest	$(0.480 \times V_{adj} + 195) / 365$

3. If a refrigerator appliance—
- (a) has more than 2 doors; or
 - (b) is not described in table 1,

the maximum allowable electricity consumption (E_{max}) 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—

Status: This is the original version (as it was originally made).

Table 2

Requirements for maximum allowable electricity consumption – other appliances

<i>Temperature of the coldest compartment</i>	<i>Category</i>	<i>E_{max} (kWh/24 hours)</i>
> - 6 degrees C	1/2/3	(0.207 x V _{adj} + 218) / 365
- 6 degrees C(*)	4	(0.557 x V _{adj} + 166) / 365
- 12 degrees C(**)	5	(0.402 x V _{adj} + 219) / 365
- 18 degrees C (***)	6	(0.573 x V _{adj} + 206) / 365
- 18 degrees C(****)	7	(0.697 x V _{adj} + 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—

$$V_{adj} = \sum_{i=1}^n V_i \theta_i / \theta_c$$

$$\theta_c = (23 - t_c) / 20$$

7. For the purposes of paragraph 6—

V_{adj} is the value of the adjusted volume (in litres);

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

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

F_c is a factor which equals—

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

C_c is—

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

X_c and Y_c are weighting co-efficients defined in paragraph 8.

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

Table 3

Table of weighting co-efficients X_c and Y_c, according to the temperature of the compartment

	<i>X_c</i>	<i>Y_c</i>
Cellar compartment	1.25	1.35
Fresh food compartment	1.20	1.30
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 (****) star compartments	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.