

TECHNICAL REPORT		
Report number	043/23/02784/BT	Rev 00
Date of document	2023/01/30	
Total number of pages	6	
Applicant	Eurotec srl DIV. MBM	
Product description	Electric deep fat fryer	
Reference product code	See par 3.1	
Derived product code	See par 3.2	
Reference standard	IEC 60335-2-37:2021 in conjunction with IEC 60335-1:2020 EN 60335-2-37:2002 EN 60335-2-37/A1:2008 EN 60335-2-37/A11:2012 EN 60335-2-37/A12:2016 in conjunction with EN 60335-1:2012 EN 60335-1/A11:2014 EN 60335-1/A13:2017 EN 60335-1/A14:2019 EN 60335-1/A15:2021 EN 60335-1/A1:2019 EN 60335-1/A2:2019 EN 62233:2008	
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1 – IDENTIFICATION	
1.1 –Testing laboratory	
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1.2 – Applicant	
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Refer to:	Manuele Manghi
2 - SCOPE	
<p>The scope of this technical report is to evaluate the conformity of the models, detailed in the next clause 3, to the requirements stated by the following reference standard:</p> <ul style="list-style-type: none"> • IEC 60335-2-37:2021 in conjunction with • IEC 60335-1:2020 • EN 60335-2-37:2002 • EN 60335-2-37/A1:2008 • EN 60335-2-37/A11:2012 • EN 60335-2-37/A12:2016 in conjunction with • EN 60335-1:2012 • EN 60335-1/A11:2014 • EN 60335-1/A13:2017 • EN 60335-1/A14:2019 • EN 60335-1/A15:2021 • EN 60335-1/A1:2019 • EN 60335-1/A2:2019 • EN 62233:2008 <p>The technical analysis described in this document refers to tests performed on representative models of the product family and on the evaluation of the technical product documentation provided by the manufacturer.</p>	

3 – EUT IDENTIFICATION	
3.1 – Reference model <i>(declared data by the customer/manufacturer under his sole responsibility)</i>	
Reference model n°1	
Description:	Electric deep fat fryer
Model:	FRE77T
Manufacturer:	Eurotec srl DIV. MBM
Electrical specifications:	
Rated voltage:	400 or 380-415 V
Rated frequency:	50/60 Hz
Rated Power:	18000 W
Protection IP	IPX5
Addition information	---
3.2 – Derived model <i>(declared data by the customer/manufacturer under his sole responsibility)</i>	
Derived model n°1	
Description:	Electric deep fat fryer
Model:	FRE77A
Manufacturer:	Eurotec srl DIV. MBM
Electrical specifications:	
Rated voltage:	400 or 380-415 V
Rated frequency:	50/60 Hz
Rated Output Power:	18000 W
Protection IP	IPX5
Derived model n°2	
Description:	Electric deep fat fryer
Model:	FRE74A
Manufacturer:	Eurotec srl DIV. MBM
Electrical specifications:	
Rated voltage:	400 or 380-415 V
Rated frequency:	50/60 Hz
Rated Output Power:	9000 W
Protection IP	IPX5
Derived model n°3	
Description:	Electric deep fat fryer
Model:	FRE74T
Manufacturer:	Eurotec srl DIV. MBM
Electrical specifications:	
Rated voltage:	400 or 380-415 V
Rated frequency:	50/60 Hz
Rated Output Power:	9000 W
Protection IP	IPX5

4 – TECHNICAL ANALISYS

All products have the same technical specification associated to:

- Rated voltage
- Rated frequency
- Construction

The differences are limited to:

- Dimension
- Power

The product have the same techical specification without any modifications regarding to the product indicated on the test report 521/21/01360/BT

Test report 521/21/01360/BT demonstrate the compliance evaluation of product indicate on par.3 in accordace to reference tandard:

- IEC 60335-2-37:2017 in conjunction with IEC 60335-1:2010, COR1:2010, COR2:2011, AMD1:2013, COR1:2014, AMD2:2016, COR1:2016
- EN 60335-2-37:2002 + A1:2008 + A11:2012 + A12:2016 in conjunction with EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017
- EN 62233:2008 + AC:2008

IEC 60335-2-37:2021, IEC 60335-1:2020, EN 60335-1/A14:2019, EN 60335-1/A15:2021, EN 60335-1/A1:2019, EN 60335-1/A2:2019 of reference standard does not introduce any modification or additional requirements for this products and compliance evaluation described in 521/21/01360/BT still in force

5 – LIST OF EVALUATED DOCUMENTS

For the evaluation concerning this technical report, the followings documents received by the customer have been evaluated:

Reference code	Document type	Description
043_23_DelARATION	Technical dossier identification	Models declaration "DICHIARAZIONE PER ESTENSIONE MODELLI –FRYES–"
043_23_Report	Technical report	Technical report 521/21/01432/BT
043_23_Report	Test results – test report	Test report 521/21/01360/BT

6 - LIST OF PERFORMED TEST

Considering the rated data and characteristics of the FE7xx models, the following tests have been selected for the compliance assessment:

- Model FRE77T full analysis of reference standard requirements

Clause	Object	Tested	Note	Results
6	Classification	Tested	---	COMPLIES
7	Marking and instructions	Tested	---	COMPLIES
8	Protection against access to live parts	Tested	---	COMPLIES
9	Starting of motor-operated appliances	Not applicable	---	---
10	Power input and current	Tested	---	COMPLIES
11	Heating	Tested	---	COMPLIES
13	Leakage current and electric strength at operating temperature	Tested	---	COMPLIES
14	Transient overvoltage	Not applicable	---	---
15	Moisture resistance	Partially evaluated Excluded clause: 15.1	---	COMPLIES
16	Leakage current and electric strength	Tested	---	COMPLIES
17	Overload protection of transformers and associated circuits	Not applicable	---	---
18	Endurance	Not applicable	---	---
19	Abnormal operation	Tested	---	COMPLIES
20	Stability and mechanical hazards	Tested	---	COMPLIES
21	Mechanical strength	Tested	---	COMPLIES
22	Constructions	Tested	---	COMPLIES
23	Internal wiring	Tested	---	COMPLIES
24	Components	Tested	---	COMPLIES
25	Supply connection and external flexible cords	Tested	---	COMPLIES
26	Terminals for external conductors	Tested	---	COMPLIES
27	Provision for earthing	Tested	---	COMPLIES
28	Screws and connections	Tested	---	COMPLIES
29	Clearance, creepage distances and solid insulation	Tested	---	COMPLIES
30	Resistance to heat and fire	Tested	---	COMPLIES
31	Resistance to rusting	Tested	---	COMPLIES
32	Radiation, toxicity and similar hazards	Not applicable	---	---
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7 – CONCLUSION

Kiwa Creiven analysed the information concerning the reference and derived models and in particular:

- laboratory test results performed on reference models (fully tested and partially tested)
- technical documentation of all models
- list of technical differences between reference models and derived models
- manufacturer declarations
- component lists

Kiwa Creiven determined that the tests performed have been considered the most significant for the compliance evaluation of the applicable requirements defined in the reference standard:

- IEC 60335-2-37:2021
in conjunction with
- IEC 60335-1:2020

- EN 60335-2-37:2002
- EN 60335-2-37/A1:2008
- EN 60335-2-37/A11:2012
- EN 60335-2-37/A12:2016
in conjunction with
- EN 60335-1:2012
- EN 60335-1/A11:2014
- EN 60335-1/A13:2017
- EN 60335-1/A14:2019
- EN 60335-1/A15:2021
- EN 60335-1/A1:2019
- EN 60335-1/A2:2019
- EN 62233:2008

for the following models

- FRE77T
- FRE77A
- FRE74A
- FRE74T