

Scope of Accreditation for Testing

Certificate No. 19T080/0857

Laboratory name Japan Electrical Testing Laboratory (Thailand) Co., Ltd.
 Address 46/173 Nuanchan Road, Nuanchan, Bueng Kum, Bangkok
 Accreditation No. TESTING 0442
 Laboratory Status Permanent Site Temporary Mobile

Field of Tested	Specific Test	Test Method
Electrical field		
1. A.C. electric fans	- Full test	- TIS 934-2558 (2015)
2. Washing machines	- Full test	- TIS 1463-2556 (2013)
3. Electric rice cookers	- Full test	- TIS 1039-2547 (2004)
4. Electric thermo-pots	- Full test	- TIS 2062-2558 (2015)
5. Household refrigerators	- Full test	- TIS 2186-2547 (2004) - TIS EGAT's Energy efficiency household refrigerator program, B.E. 2555
	- Linear dimension, volume and space - Energy consumption - Operating condition of refrigerator	- TIS 455-2537 (1994)
6. Household and similar electrical appliances	- Full test except clause 15.1.1 (IPX1 IPX2) 22.16 and 22.32 (Oxygen bomb test)	- TIS 1375-2539 (1996)
	- Full test except clause 14 15.1.1 (IPX1 IPX2) 19.11.4 22.16 22.32 (Oxygen bomb test) 22.46 and annex ฅ	- TIS 1375-2547 (2004)

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<p>Electrical field</p> <p>7. Household and similar electrical appliances</p>	<p>- Full test except clause 15.1.1 (IPX1 IPX2) 22.16 and 22.32 (Oxygen bomb test)</p> <p>- Full test except clause 14 15.1.1 (IPX1 IPX2) 19.11.4 22.16 22.32 (Oxygen bomb test) and 22.46 annex R</p> <p>- Full test except clause 14 15.1.1 (IPX1 IPX2) 19.11.4 22.16 22.32 (Oxygen bomb test) 22.46 22.57 and annex R</p>	<p>- IEC 60335-1 Third edition 1991-04</p> <p>- IEC 60335-1 : 1991 Amendment 1 : 1994-11</p> <p>- IEC 60335-1 : 1991 Amendment 2 : 1999-06</p> <p>- IEC 60335-1 Fourth edition 2001-05 Amendment 1 : 2004 and Amendment 2 : 2006</p> <p>- IEC 60335-1 Edition 5.0 : 2010-05</p> <p>- IEC 60335-1 Edition 5.0 Amendment 1 : 2013-12</p> <p>- EN 60335-1 : 2002 Incorporation of amendment A1 : 2004, A11 : 2004, A12 : 2006 and A2 : 2006</p> <p>- SS 146 Part 1 : 2008</p> <p>- IEC 60335-1 Edition 5.2 : 2016-05</p>
<p>8. Vacuum cleaners and water suction cleaning appliances</p>	<p>- Full test except clause 21.101 to 21.105</p>	<p>- TIS 1522-2552 (2009)</p>

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Electrical field 9. Vacuum cleaners and water suction cleaning appliances	- Full test except clause 21.101 to 21.105	- IEC 60335-2-2 : Fourth edition 1993-04 - IEC 60335-2-2 : 1993 Amendment 1 : 1998-01 - IEC 60335-2-2 : 1993 Amendment 2 : 1999-11 - IEC 60335-2-2 Fifth edition 2002-05 - IEC 60335-2-2 Edition 5.2 : 2006-08 - IEC 60335-2-2 Edition 6.0 : 2009-12 - IEC 60335-2-2 Edition 6.0 Amendment 1 : 2012-11 - IEC 60335-2-2 Edition 6.2 : 2016-04 - EN 60335-2-2 : 2003, Amendment 1 : 2004 and Amendment 2 : 2006
10. Electric irons	- Full test	- TIS 366-2547 (2004)
11. Electric irons	- Full test	- IEC 60335-2-3 Fourth edition 1993-06 - IEC 60335-2-3 : 1993 Amendment 1 : 1999-05 - IEC 60335-2-3 Edition 5.1 : 2005-01 - IEC 60335-2-3 Edition 5.0 Amendment 2 : 2008-04 - IEC 60335-2-3 Edition 6.0 : 2012-03 - IEC 60335-2-3 Edition 6.1 : 2015-07 - EN 60335-2-3 : 2002 - EN 60335-2-3 : 2002/A1 : 2005

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Electrical field		
12. Appliances for skin or hair care	- Full test	- TIS 1985-2549 (2006)
13. Appliances for skin or hair care	- Full test	- IEC 60335-2-23 Fourth edition 1996-02 - IEC 60335-2-23 : 1996 Amendment 1 : 2000-02 - IEC 60335-2-23 Fifth edition 2003-01 - IEC 60335-2-23 Edition 5.0 Amendment 1 : 2008-01 - IEC 60335-2-23 Edition 5.0 Amendment 2 : 2012-01 - IEC 60335-2-23 Edition 6.0 : 2016-06 - EN 60335-2-23 : 2003
14. Household refrigerators	- Full test	- TIS 2214-2548 (2005)
15. Refrigerating appliances, ice-cream appliances and ice-markers	- Full test	- IEC 60335-2-24 Fifth edition 2000-07 - IEC 60335-2-24 Sixth edition 2002-10 - IEC 60335-2-24 : 2002 Amendment 1 : 2005-02 - IEC 60335-2-24 Edition 6.2 : 2007-03 - IEC 60335-2-24 Edition 7.0 : 2010-02 - IEC 60335-2-24 Edition 7.0 Amendment 1 : 2012-05 - IEC 60335-2-24 Edition 7.0 2017-04 Amendment 2 - EN 60335-2-24 : 2003 Incorporation of Amendment A11 : 2004, Amendment A1 : 2005

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Electrical field		
16. Motor-compressors	<ul style="list-style-type: none"> - Full test except clause <ul style="list-style-type: none"> • Annex nn 	- TIS 812-2548 (2005)
	<ul style="list-style-type: none"> - Full test except clause <ul style="list-style-type: none"> • Annex nn • Clause 22.7 only for minimum high side test pressure for R-744 	- TIS 812-2558 (2015)
17. Motor-compressors	<ul style="list-style-type: none"> - Full test except clause <ul style="list-style-type: none"> • Annex AA 	<ul style="list-style-type: none"> - IEC 60335-2-34 Fourth edition 2002-10 - IEC 60335-2-34 : 2002 Amendment 1 : 2004-12 - EN 60335-2-34 : 2002 Incorporation of Amendment A11 : 2004 and Amendment A1 : 2005
	<ul style="list-style-type: none"> - Full test except clause <ul style="list-style-type: none"> • Annex AA • Clause 22.7 only for minimum high side test pressure for R-744 	<ul style="list-style-type: none"> - IEC 60335-2-34 Edition 4.0 : 2008-10 Amendment 2 - IEC 60335-2-34 Edition 5.0 : 2012-05 - EN 60335-2-34 : 2002/A2 : 2009
	<ul style="list-style-type: none"> - Full test except clause <ul style="list-style-type: none"> • Annex AA • Clause 22.7 only for minimum high side test pressure for R-744 • Annex DD 	<ul style="list-style-type: none"> - IEC 60335-2-34 Edition 5.0 2015-05 Amendment 1 - IEC 60335-2-34 Edition 5.0 2016-11 Amendment 2

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Electrical field		
18. Instantaneous water heaters	- Full test	- TIS 1693-2547 (2004)
19. Instantaneous water heaters	- Full test	- IEC 60335-2-35 : Third edition 1997-12 - IEC 60335-2-35 1997 Amendment 1 : 1999-11 - IEC 60335-2-35 Fourth edition 2002-10 - IEC 60335-2-35 : 2002 Amendment 1 : 2006-10 - IEC 60335-2-35 Edition 4.0 Amendment 2 : 2009-12 - IEC 60335-2-35 Edition 5.0 : 2012-11 - IEC 60335-2-35 Edition 5.0 2016-11 Amendment 1 - EN 60335-2-35 : 2002 - EN 60335-2-35 : 2002/A1 : 2007 - SS 146 Part 2-5 : 2007
20. Degree of protection provide by enclosures (IP Code)	- Full test except IPX1 IPX2 IP5X and IP6X	- TIS 513-2553 (2010)
21. Degree of protection provide by enclosures (IP Code)	- Full test except IPX1 IPX2 IP5X and IP6X	- IEC 60529 Edition 2.1 2001-02 - EN 60529:1991 Incorporation of Amendment A1 : 2000
22. Appliances for heating liquids	- Full test	- TIS 2439-2552 (2009)

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Electrical field 23. Appliances for heating liquids	- Full test	- IEC 60335-2-15 Fourth edition 1995-11 - IEC 60335-2-15 : 1995 Amendment 1 : 1999-05 - IEC 60335-2-15 : 1995 Amendment 2 : 2000-07 - IEC 60335-2-15 Fifth edition 2002-07 - IEC 60335-2-15 Edition 5.1 : 2005-10 - IEC 60335-2-15 Edition 5.2 : 2008-09 - IEC 60335-2-15 Edition 6.0 : 2012-11 - IEC 60335-2-15 Edition 6.1 : 2016-04 - EN 60335-2-15 : 2002 Incorporation of Amendment A1 : 2005 - EN 60335-2-15 : 2002/A2: 2008
24. Electrical heat pumps, air-conditioners and dehumidifiers	- Full test except clause 22.108	- TIS 1529-2541 (1998)
25. Electrical heat pumps, air-conditioners and dehumidifiers	- Full test except clause 22.108	- IEC 60335-2-40 Third edition 1995-04 with Amendment 1 : 2000-02 - IEC 60335-2-40 Fourth edition 2002-12 - IEC 60335-2-40 : 2002 Amendment 1 : 2005-03 - IEC 60335-2-40 : 2002 Amendment 2 : 2005-05 - EN 60335-2-40 : 2003 Incorporation of Amendment A11 : 2004 - EN 60335-2-40 : 2003/A12 : 2005
	- Full test except clause 21.2 and 22.108	- IEC 60335-2-40 Edition 5.0 : 2013-12 - IEC 60335-2-40 Edition 5.1 : 2016-04

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Electrical field 26. Electric fans	- Full test	- IEC 60335-2-80 First edition 1997-04 - IEC 60335-2-80 Second edition 2002-09 - IEC 60335-2-80 Edition 2.1 : 2004-03 - IEC 60335-2-80 Amendment 2 : 2008-04 - IEC 60335-2-80 Edition 3.0 : 2015-04 - EN 60335-2-80 : 2003 Incorporation of Amendment A1 : 2004 - EN 60335-2-80 : 2003/A2 : 2009
27. Commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor	- Full test	- IEC 60335-2-89 Edition 1.2 : 2007-03 - IEC 60335-2-89 Edition 2.0 : 2010-02 - IEC 60335-2-89 Edition 2.0 Amendment 1 : 2012-07 - IEC 60335-2-89 Edition 2.2 : 2015-05 - EN 60335-2-89 : 2002 Incorporation of Amendment A11 : 2004 and Amendment A1 : 2005 - EN 60335-2-89 : 2002/A2 : 2007
28. Spin extractors	- Full test	- IEC 60335-2-4 Edition 6.0 : 2008-09 - IEC 60335-2-4 Edition 6.0 : 2012-11 Amendment 1 - IEC 60335-2-4 Edition 6.0 : 2017-08 Amendment 2
29. Stationary cooking ranges, hobs, ovens and similar appliances	- Full test except clause 22.110 22.111 22.135 22.136 and 32.101	- TIS 1913-2554 (2011)
30. Stationary cooking ranges, hobs, ovens and similar appliances	- Full test except clause 22.110 22.111 22.135 22.136 and 32.101	- IEC 60335-2-6 Fifth edition : 2002-07 - IEC 60335-2-6 Edition 5.2 : 2008-03 - IEC 60335-2-6 Edition 6.0 : 2014-02 - IEC 60335-2-6 Edition 6.0 : 2018-05 Amendment 1

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Electrical field		
31. Washing machines	- Full test	- IEC 60335-2-7 Edition 7.0 : 2008-06 - IEC 60335-2-7 Edition 7.0 : 2011-02 Amendment 1 - IEC 60335-2-7 Edition 7.0 : 2016-04 Amendment 2
32. Grills, toasters and similar portable cooking appliances	- Full test	- TIS 1641-2552 (2009)
33. Grills, toasters and similar portable cooking appliances	- Full test	- IEC 60335-2-9 Edition 4.1 : 1998-06 - IEC 60335-2-9 : 1993/AMD2 : 1999-11 - IEC 60335-2-9 Edition 5.2 : 2006-03 - IEC 60335-2-9 Edition 6.0 : 2008-07 - IEC 60335-2-9 Edition 6.0 Amendment 1: 2012-11 - IEC 60335-2-9 Edition 6.2 : 2016-04
34. Electric fryers	- Full test	- TIS 1509-2547 (2004)
35. Deep fat fryers, frying pans and similar appliances	- Full test	- IEC 60335-2-13 Fifth edition: 2002-10 - IEC 60335-2-13:2002/ Amendment 1: 2004-04 - IEC 60335-2-13:2002/ Amendment 2: 2008-01 - IEC 60335-2-13 Edition 6.0 : 2009-12 - IEC 60335-2-13 Edition 6.1 : 2016-04

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Electrical field		
36. Kitchen machines	- Full test except clause 25.7	- TIS 1515-2550 (2007)
37. Kitchen machines	- Full test except clause 25.7	- IEC 60335-2-14 Fourth edition : 2002-10 - IEC 60335-2-14 Fifth edition : 2006-04 - IEC 60335-2-14 Edition 5.0 Amendment 1 : 2008-07 - IEC 60335-2-14 Edition 5.2 : 2012-11 - IEC 60335-2-14 Edition 6.0 : 2016-06
38. Storage water heaters	- Full test	- IEC 60335-2-21 Fifth edition: 2002-07 - IEC 60335-2-21 Edition 5.1: 2004-11 - IEC 60335-2-21 Edition 5.0 Amendment 2: 2008-09 - IEC 60335-2-21 Edition 6.0: 2012-11 - IEC 60335-2-21 Edition 6.0: 2018-08 Amendment 1
39. Room heaters	- Full test except clause 19.108 - Full test except cab heaters testing	- IEC 60335-2-30 Edition 5.0: 2009-11 - IEC 60335-2-30 Edition 5.0 2016-11 Amendment 1
40. Electric pumps	- Full test	- TIS 1548-2551 (2008)
41. Pumps	- Full test	- IEC 60335-2-41 Third edition : 2002-10 - IEC 60335-2-41: 2002 Amendment 1: 2004-01 - IEC 60335-2-41 Edition 4.0 : 2012-12

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Electrical field 42. Tumble Dryers	- Full test except annex BB only 21.201	- TIS 1389-2559 (2016)
43. Tumble Dryers	- Full test except annex BB only 21.201	- IEC 60335-2-11 Edition 7.0 2008-07 - IEC 60335-2-11 Edition 7.0 2012-10 Amendment 1 - IEC 60335-2-11 Edition 7.0 2015-11 Amendment 2

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(Signature)

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Deputy Secretary - General

for Secretary – General

Thai Industrial Standards Institute