



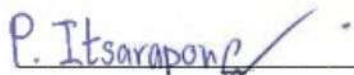
ศูนย์ทดสอบผลิตภัณฑ์ไฟฟ้า  
และอิเล็กทรอนิกส์ สวทช.

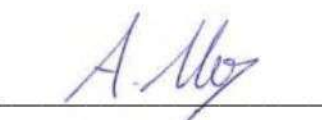
# TEST REPORT

<b>Report No.</b> .....	<b>10/65-85</b>
<b>Equipment Under Test (EUT) No.</b> ..	<b>EM-65-0169</b>
<b>TISI No.</b> .....	-
<b>Testing Laboratory</b> .....	<b>Electrical and Electronic Products Testing Center</b>
<b>Address</b> .....	141 Thailand Science Park, Phahonyothin Road, Khlong Nueng, Khlong Luang, Pathum Thani 12120, Thailand.
<b>Applicant's name</b> .....	<b>AF INNOVATION CO., LTD.</b>
<b>Address</b> .....	377/22 One Building 3 <sup>rd</sup> , Fl., Klong Lamchiak Rd., Nuanchan Buengkum, Bangkok 10230
<b>Manufacturer's Name</b> .....	<b>AF INNOVATION CO., LTD.</b>
<b>Address</b> .....	377/22 One Building 3 <sup>rd</sup> , Fl., Klong Lamchiak Rd., Nuanchan Buengkum, Bangkok 10230
<b>Standard</b> .....	EN 61000-6-1:2007, EN 61000-6-3:2007+A1:2011, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019
<b>Non-standard test method</b> .....	-
<b>Test item description</b> .....	<b>Air Sterilizing Purifier</b>
<b>Trademark</b> .....	-
<b>Model/Type reference</b> .....	<b>ASP-20</b>
<b>S/N</b> .....	-
<b>Ratings</b> .....	<b>230Vac, 50 Hz (L+N)</b>
<b>Date of receive</b> .....	<b>7 December 2021</b>
<b>Date of tested</b> .....	<b>8 - 14 December 2021, 26 January, 17 February 2022</b>
<b>Date of issue:</b> .....	<b>2 March 2022</b>

Tested by

Approved by

  
(MR. Itsarapong Poolpram)  
Engineer

  
(MR. Anake Meemoosor)  
Operation Manager

This test report is test results from the EUT only, not the product's quality certificate. It shall not be reproduced except in full without the written approval of testing laboratory.

## 1 SUMMARY OF TESTING

This product was tested and complied according to following specification standards:

EN 61000-6-3 Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for equipment in residential environments.

EN 61000-6-1 Electromagnetic compatibility (EMC). Generic standards. Immunity standard for residential, commercial and light-industrial environments.

EN 61000-3-2 Limits - Limits for harmonic current emissions (equipment input current  $\leq 16A$  per phase).

EN 61000-3-3 Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16A$  per phase and subject to conditional connection.

Test Item	Test Specification	Test Method	Result
Conducted Emission	EN61000-6-3:2007+A1:2011	CISPR 16-2-3:2016+A1:2019	PASS
Radiated Emission	EN61000-6-3:2007+A1:2011	CISPR 16-2-3:2016+A1:2019	PASS
Harmonic Emission	EN 61000-3-2:2014	EN 61000-3-2:2014	PASS
Voltage Fluctuation	EN 61000-3-3:2013	EN 61000-3-3:2013	PASS
Electrostatic Discharge	EN61000-6-1:2007 8kV air, 4kV contact, Criterion B	IEC 61000-4-2:2008 (Ed 2.0)	PASS
Radiated Immunity	EN61000-6-1:2007 80MHz to 1000 MHz, 3V/m 1KHz 80% AM Criterion A	IEC 61000-4-3:2010 (Ed 3.1)	PASS
	EN61000-6-1:2007 1400MHz to 6000 MHz, 3V/m 1KHz 80% AM Criterion A		
Electrical Fast Transient	EN61000-6-1:2007 1kV 5/50ns 5kHz, Criterion B	IEC 61000-4-4:2012 (Ed 2.0)	PASS
Surge	EN61000-6-1:2007 1.2/50us, 2kV CM, 1kV DM, Criterion B	IEC 61000-4-5:2017 (Ed2.0)	PASS
Conducted Immunity	EN61000-6-1:2007 0.150 MHz to 80 MHz, 3V 1KHz 80% AM, Criterion A	IEC 61000-4-6:2013 (Ed 3.0)	PASS
Power frequency Magnetic	EN61000-6-1:2007 3A/m 50Hz, Criterion A	IEC 61000-4-8:2009 (Ed 2.0)	PASS

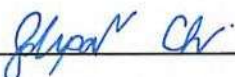
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Test Item	Test Specification	Test Method	Result
Voltage Dips	EN61000-6-1:2007 Dip 0% 0.5P, Dip 0% 1P, Dip 70% 25P Interrupt 250P Criterion C	IEC 61000-4-11:2018 (Ed2.0)	PASS

Note: -

<b>TEST REPORT</b> <b>IEC 60335-2-65</b> <b>Safety of household and similar electrical appliances</b> <b>Part II : particular requirements for air-cleaning appliances</b>	
Test Report No.....	356/65-004
Equipment Under Test (EUT) No....	ST-65-0128
Total number of pages.....	91
Testing Laboratory .....	<b>Electrical and Electronic Products Testing Center (PTEC)</b>
Address.....	141 Thailand Science Park Innovation Cluster 2 Phahonyothin Rd. Khlong Nueng, Khlong Luang, Pathum Thani 12120, Thailand.
Applicant's name.....	<b>AF INNOVATION Co., Ltd.</b>
Address.....	377/22 One Building, 3rd Fl, Khlong lamchiak Rd., Nuanchan, Buengkum, Bangkok 10230, Thailand
<b>Test specification:</b>	
Standard.....	IEC 60335-2-65:2002, COR1:2004, AMD1:2008, AMD2:2015 in conjunction with IEC 60335-1:2010, COR1:2010, COR2:2011, AMD1:2013, COR1:2014, AMD2:2016, COR1:2016
Test Report Form No.....	IEC60335_2_65L
Non-standard test method.....	N/A
Test item description.....	Air Sterilizing Purifier
Trade Mark .....	
Manufacturer.....	AF INNOVATION Co., Ltd.
Model/Type reference.....	ASP-20
Serial number.....	ASP02064090000001
Rating(s).....	220V~, 50Hz, 22W, Class II
Date of receipt of test item(s) .....	07 December 2021
Dates tests performed.....	10 – 21 January 2022
Date of issue.....	31 January 2022

Tested by

  
(Mr. Adipat Chaloeungam)  
Engineer

Approved by

  
(Mr. Ruengrit Niniae)  
Operation Manager

<b>Test item particulars</b> .....	Air Sterilizing Purifier
Classification of installation and use .....	Portable appliance
Supply Connection.....	Detachable cord with a plug
Class of protection against electrical shock .....	II
Type of cord attachment .....	Type X attachment
Steaming function .....	N/A
Automatic programmes .....	N/A
Appliance for building-in.....	N/A
Appliance for fixing to a wall.....	N/A
Browning function.....	N/A
Degree of protection against moisture .....	IPX0
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object .....	N/A
- test object does meet the requirement.....	P(Pass)
- test object does not meet the requirement.....	F(Fail)
<b>General remarks:</b>	
Test marked ( * ) in this Report are not included in the TISI Accreditation Schedule for our Laboratory.	
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The test results presented in this report relate only to the item(s) tested.	
"(see remark #)" refers to a remark appended to the report.	
"(see Annex #)" refers to an annex appended to the report.	

**Summary of testing:**

The product fulfils the requirements of IEC 60335-2-65:2002, COR1:2004, AMD1:2008, AMD2:2015 in conjunction with IEC 60335-1:2010, COR1:2010, COR2:2011, AMD 1:2013, COR1:2014, AMD2:2016, COR1:2016

**Copy of marking plate:**

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBS that own these marks.

		<b>เครื่องฟอกกำจัดเชื้อโรคและมลพิษในอากาศ</b> <b>Air Sterilizing Purifier</b>	
Model	<b>ASP-20</b>		
Serial No	<b>ASP02064090000001</b>		
Rated Voltage	<b>220</b>	<b>Vac</b>	
Frequency	<b>50</b>	<b>Hz</b>	
Current	<b>0.14</b>	<b>A</b>	
Power	<b>22</b>	<b>W</b>	
Net Weight	<b>1.2</b>	<b>Kgs</b>	
Manufactured date	<b>092564</b>		
Product by <b>AF INNOVATION CO., LTD.</b> 377/22 One Building 3 rd Fl., Khlong Lamchiak Rd., Nuanchan, Buengkum, Bangkok 10230, Thailand. Tel: +66(0) 2946-0224-5 Fax: +66(0) 2946-0226			
			 เครื่องใช้ไฟฟ้าประเภท II

<h2 style="margin: 0;">TEST REPORT</h2> <h3 style="margin: 0;">IEC 62471</h3> <h3 style="margin: 0;">Photobiological Safety of Lamps and Lamp Systems</h3>	
Test Report No. ....	61/65-11
Equipment Under Test (EUT) No ....	PR-65-0056
TISI No. ....	-
Testing Laboratory Name .....	<b>Electrical and Electronic Products Testing Center</b>
Address .....	141 Thailand Science Park Innovation Cluster 2 Phahonyothin Rd., Khlong Nueng, Khlong Luang, Pathum Thani 12120, Thailand.
Applicant's Name .....	<b>AF INNOVATION CO., LTD.</b>
Address .....	377/22 One Building 3 <sup>rd</sup> Fl., Khlong Lamchiak Rd., Nuanchan, Buengkum, Bangkok 10230, Thailand.
Manufacturers Name .....	<b>AF INNOVATION CO., LTD.</b>
Address .....	377/22 One Building 3 <sup>rd</sup> Fl., Khlong Lamchiak Rd., Nuanchan, Buengkum, Bangkok 10230, Thailand.
<b>Test specification</b>	
Standard .....	IEC 62471-2006
Non-standard test method .....	N/A
<b>Test item description</b> .....	
	<b>Air Sterilizing Purifier</b>
Trademark .....	Natural AirFresh
Model and/or type reference .....	ASP-20
Serial number .....	-
Date of receipt of test item .....	December 07, 2021
Date(s) of performance of test .....	December 16, 2021
Date of report issue .....	December 21, 2021

Tested by

Approved by



Mr. Weerasak Rungrotnetikul



Mr. Weerayut Ranghom



Engineer

Operation manager 3

EUT Description	
Description	Air Sterilizing Purifier
Trademark	Natural AirFresh
Model	ASP-20
Serial number	-
Ratings	220VAC 50Hz, 22W

**Summary of testing:**

Tests performed (name of test and test clause):

Measurement of irradiance, spectrum, and radiance as prescribed by IEC 62471-2006.


The models complied with the requirements of Exempt Group LED Product according to IEC 62471:2006

**Summary of compliance with National Differences:**

The products complied with the requirements of Exempt Group LED Product according to EN 62471:2008

**Copy of marking:**



<b>TEST REPORT</b> <b>IEC 60335-2-65</b> <b>Safety of household and similar electrical appliances</b> <b>Part II : particular requirements for air-cleaning appliances</b>	
Test Report No.....	356/65-005
Equipment Under Test (EUT) No....	ST-65-0319
Total number of pages.....	92
Testing Laboratory .....	<b>Electrical and Electronic Products Testing Center (PTEC)</b>
Address.....	141 Thailand Science Park Innovation Cluster 2 Phahonyothin Rd. Khlong Nueng, Khlong Luang, Pathum Thani 12120, Thailand.
Applicant's name.....	<b>AF INNOVATION Co., Ltd.</b>
Address.....	377/22 One Building, 3rd Fl, Khlong lamchiak Rd., Nuanchan, Buengkum, Bangkok 10230, Thailand
<b>Test specification:</b>	
Standard.....	IEC 60335-2-65:2002, COR1:2004, AMD1:2008, AMD2:2015 in conjunction with IEC 60335-1:2010, COR1:2010, COR2:2011, AMD1:2013, COR1:2014, AMD2:2016, COR1:2016
Test Report Form No.....	IEC60335_2_65L
Non-standard test method.....	N/A
Test item description.....	Air Sterilizing Purifier
Trade Mark .....	
Manufacturer.....	AF INNOVATION Co., Ltd.
Model/Type reference.....	ASP-40
Serial number.....	ASP04064120000023
Rating(s).....	220V~, 50Hz, 43W, Class II
Date of receipt of test item(s) .....	09 March 2021
Dates tests performed.....	14 – 25 March 2022
Date of issue.....	30 March 2022

Tested by



(Mr. Adipat Chaloenngam)  
Engineer

Approved by



(Mr. Ruengrit Niniae)  
Operation Manager


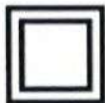
<b>Test item particulars</b> .....	: Air Sterilizing Purifier
Classification of installation and use .....	: Portable appliance
Supply Connection.....	: Detachable cord with a plug
Class of protection against electrical shock .....	: II
Type of cord attachment .....	: Type X attachment
Steaming function .....	: N/A
Automatic programmes .....	: N/A
Appliance for building-in.....	: N/A
Appliance for fixing to a wall.....	: N/A
Browning function.....	: N/A
Degree of protection against moisture .....	: IPX0
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object .....	: N/A
- test object does meet the requirement.....	: P(Pass)
- test object does not meet the requirement .....	: F(Fail)
<b>General remarks:</b>	
Test marked ( * ) in this Report are not included in the TISI Accreditation Schedule for our Laboratory.	
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"(see Annex #)" refers to an annex appended to the report.	


**Summary of testing:**

The product fulfils the requirements of IEC 60335-2-65:2002, COR1:2004, AMD1:2008, AMD2:2015 in conjunction with IEC 60335-1:2010, COR1:2010, COR2:2011, AMD 1:2013, COR1:2014, AMD2:2016, COR1:2016

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	<b>เครื่องฟอกกำจัดเชื้อโรคและมลพิษในอากาศ</b>	
	<b>Air Sterilizing Purifier</b>	
<b>Model</b>	<b>ASP-40</b>	
<b>Serial No</b>	ASP04064120000023	
<b>Rated Voltage</b>	220	Vac
<b>Frequency</b>	50	Hz
<b>Current</b>	0.19	A
<b>Power</b>	43	W
<b>Net Weight</b>	2.0	Kgs
<b>Manufactured date</b>	092564	
<b>Product by AF INNOVATION CO., LTD.</b>		
377/22 One Building 3 rd Fl., Khlong Lamchiak Rd., Nuanchan, Buengkum, Bangkok 10230, Thailand. Tel: +66(0) 2946-0224-5 Fax: +66(0) 2946-0226		
		
เครื่องใช้ไฟฟ้า ประเภท II		

<b>TEST REPORT</b> <b>IEC 60335-2-65</b> <b>Safety of household and similar electrical appliances</b> <b>Part II : particular requirements for air-cleaning appliances</b>	
Test Report No.....	356/65-006
Equipment Under Test (EUT) No....	ST-65-0320
Total number of pages.....	92
Testing Laboratory .....	<b>Electrical and Electronic Products Testing Center (PTEC)</b>
Address.....	141 Thailand Science Park Innovation Cluster 2 Phahonyothin Rd. Khlong Nueng, Khlong Luang, Pathum Thani 12120, Thailand.
Applicant's name.....	<b>AF INNOVATION Co., Ltd.</b>
Address.....	377/22 One Building, 3rd Fl, Khlong lamchiak Rd., Nuanchan, Buengkum, Bangkok 10230, Thailand
<b>Test specification:</b>	
Standard.....	IEC 60335-2-65:2002, COR1:2004, AMD1:2008, AMD2:2015 in conjunction with IEC 60335-1:2010, COR1:2010, COR2:2011, AMD1:2013, COR1:2014, AMD2:2016, COR1:2016
Test Report Form No.....	IEC60335_2_65L
Non-standard test method.....	N/A
Test item description.....	Air Sterilizing Purifier
Trade Mark .....	
Manufacturer.....	AF INNOVATION Co., Ltd.
Model/Type reference.....	ASP-80
Serial number.....	ASP08064120000009
Rating(s).....	220V~, 50Hz, 86W, Class II
Date of receipt of test item(s).....	09 March 2021
Dates tests performed.....	21 – 29 March 2022
Date of issue.....	30 March 2022

Tested by

  
(Mr. Adipat Chaloeungam)  
Engineer

Approved by

  
(Mr. Ruengrit Niniae)  
Operation Manager



<b>Test item particulars</b> .....	Air Sterilizing Purifier
Classification of installation and use .....	Portable appliance
Supply Connection.....	Detachable cord with a plug
Class of protection against electrical shock .....	II
Type of cord attachment .....	Type X attachment
Steaming function .....	N/A
Automatic programmes .....	N/A
Appliance for building-in.....	N/A
Appliance for fixing to a wall.....	N/A
Browning function.....	N/A
Degree of protection against moisture .....	IPX0
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object .....	N/A
- test object does meet the requirement .....	P(Pass)
- test object does not meet the requirement .....	F(Fail)
<b>General remarks:</b>	
Test marked ( * ) in this Report are not included in the TISI Accreditation Schedule for our Laboratory.	
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**Summary of testing:**

The product fulfils the requirements of IEC 60335-2-65:2002, COR1:2004, AMD1:2008, AMD2:2015 in conjunction with IEC 60335-1:2010, COR1:2010, COR2:2011, AMD1:2013, COR1:2014, AMD2:2016, COR1:2016

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	<b>เครื่องฟอกกำจัดเชื้อโรคและมลพิษในอากาศ</b>	
	<b>Air Sterilizing Purifier</b>	
Model	<b>ASP-80</b>	
Serial No	ASP08064120000009	
Rated Voltage	220	Vac
Frequency	50	Hz
Current	0.4	A
Power	86	W
Net Weight	3.4	Kgs
Manufactured date	092564	
Product by <b>AF INNOVATION CO., LTD.</b>		
377/22 One Building 3 rd Fl., Khlong Lamchiak Rd., Nuanchan, Buengkum, Bangkok 10230, Thailand. Tel: +66(0) 2946-0224-5 Fax: +66(0) 2946-0226		
		
		เครื่องใช้ไฟฟ้า ประเภท II

<b>TEST REPORT</b> <b>IEC 60335-2-65</b> <b>Safety of household and similar electrical appliances</b> <b>Part II : particular requirements for air-cleaning appliances</b>	
Test Report No.....	356/65-007
Equipment Under Test (EUT) No...	ST-65-0533
Total number of pages.....	93
Testing Laboratory .....	<b>Electrical and Electronic Products Testing Center (PTEC)</b>
Address.....	141 Thailand Science Park Innovation Cluster 2 Phahonyothin Rd. Khlong Nueng, Khlong Luang, Pathum Thani 12120, Thailand.
Applicant's name.....	<b>AF INNOVATION Co., Ltd.</b>
Address.....	377/22 One Building, 3rd Fl, Khlong lamchiak Rd., Nuanchan, Buengkum, Bangkok 10230, Thailand
<b>Test specification:</b>	
Standard.....	IEC 60335-2-65:2002, COR1:2004, AMD1:2008, AMD2:2015 in conjunction with IEC 60335-1:2010, COR1:2010, COR2:2011, AMD1:2013, COR1:2014, AMD2:2016, COR1:2016
Test Report Form No.....	IEC60335_2_65L
Non-standard test method.....	N/A
Test item description.....	Air Sterilizing Purifier
Trade Mark .....	
Manufacturer.....	AF INNOVATION Co., Ltd.
Model/Type reference.....	ASP-480
Serial number.....	ASP48064090000013
Rating(s).....	220V~, 50Hz, 515W, Class I
Date of receipt of test item(s) .....	19 July 2022
Dates tests performed.....	25 July – 09 August 2022
Date of issue.....	11 August 2022

Tested by



(Mr. Adipat Chaloeungam)  
Engineer

Approved by



(Mr. Ruengrit Niniae)  
Operation Manager



<b>Test item particulars</b> .....	: Air Sterilizing Purifier
Classification of installation and use .....	: Moveable appliance
Supply Connection.....	: Detachable cord with a plug
Class of protection against electrical shock .....	: Class I
Type of cord attachment .....	: Type X attachment
Steaming function .....	: N/A
Automatic programmes .....	: N/A
Appliance for building-in.....	: N/A
Appliance for fixing to a wall.....	: N/A
Browning function.....	: N/A
Degree of protection against moisture .....	: IPX0
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object .....	: N/A
- test object does meet the requirement .....	: P(Pass)
- test object does not meet the requirement .....	: F(Fail)
<b>General remarks:</b>	
Test marked ( * ) in this Report are not included in the TISI Accreditation Schedule for our Laboratory.	
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**Summary of testing:**

The product fulfils the requirements of IEC 60335-2-65:2002, COR1:2004, AMD1:2008, AMD2:2015 in conjunction with IEC 60335-1:2010, COR1:2010, COR2:2011, AMD1:2013, COR1:2014, AMD2:2016, COR1:2016

**Copy of marking plate:**

