

CERTIFICATE & TEST REPORT FOR ACCESSORIES

RW SERIES



EAOT ISO 9001:2008



MANUFACTURE : AIR PLUS S.XENITOPOULOS.LP
AIR-CONDITIONNING - UVC SOLUTIONS - ENERGY SYSTEMS
Profiti Ilia 27 / Pilea TK 55535 / Thessaloniki / GREECE
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ISO 9001:2008

Hereby confirms that the following products including Sileo versions, comply with all applicable requirements in the following directives

ERGOCERT HELLAS A.E. as a Control and Third Member Certification carrier, after documentation control, verifies that the previously mentioned products meet the requirements of grade H14 filters and can be utilized in Intensive Care Units (ICUs), Burn Units (Bus), Increased Care Units (IICUs), Premature Units (Pus), Surgery Units, Maternity Homes.

Η ERGOCERT HELLAS AE ως φορέας ελέγχου και πιστοποίησης τρίτου μέλους, μετά από έλεγχο τεκμηρίωσης, επαληθεύει ότι τα προαναφερθέντα προϊόντα πληρούν τις απαιτήσεις των φίλτρων βαθμού H14 και μπορούν να χρησιμοποιηθούν σε μονάδες εντατικής θεραπείας (ICUs), μονάδες καύσης (λεωφορείο), αυξημένες μονάδες φροντίδας (IICUs), Πρόωρες μονάδες (Pus), Surgery Units, Maternity Homes



EN10204 FILTERS TECHNOLOGY
AAF Lufttechnik GmbH
Odenwaldstrasse 4

64646 Heppenheim Deutschland <https://www.aafintl.com>



2006/42/EC

ISO 846:1997

EN 1822-1:2018

ISO 16890:2017

ISO 29463-2:2018

ISO 29463-2:2011

49727/26-04-2010

EC MACHINERY DIRECTIVE

EVALUATION OF THE ACTIONS OF MICROORGANISMS

HIGH EFFICIENCY FILTERS (EPA , HEPA and ULPA) Classifications, performance testing, marking

AIR FILTERS FOR GENERAL VENTILATIONS

HIGH EFFICIENCY FILTERS (EPA , HEPA and ULPA) AND FILTER MEDIA FOR REMOVING PARTICLES IN AIR

HIGH EFFICIENCY FILTERS (EPA , HEPA and ULPA) AND FILTER MEDIA FOR REMOVING PARTICLES IN AIR

Compliance according to the Ministry of health's specifications for HVAC 49727/26-04-2010/ Leak integrity test / Hygiene Certificate / Filter Class / Elimination of viruses, with the calculating papers of UVC power.



SWKI VA104-01

STANDART CLIMATISATIONS DIN EN 13779 (05/05)

ISO 846:1997

HOSPITALS DIN 9646 01/94 – SWKI 99-3(03/04)



EMC TEST REPORT BALLAST CONTROL

POWER LINE CONDUCTED EMISSIONS RADIATIONS EMISSION TEST – MAGNETIC TEST – ELECTROSTATIC TEST – RADIO FREQUENCY.

EMC TEST REPORT UVC GERMICIDAL LAMP

POWER LINE CONDUCTED EMISSIONS RADIATIONS EMISSION TEST – MAGNETIC TEST – ELECTROSTATIC TEST – RADIO FREQUENCY.



IEC 60335-1

TEST REPORT SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES 9/20/2020



RoHS Directive 2011/65/EU ,
EN 61000-6-2
EN 61000-6-3

FANS WITH CIRCULAR: Machinery Directive 2006/42/EC , Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU , RoHS Directive 2011/65/EU , EN ISO 12100:2010 , EN 13857 , EN 60 335-1 , EN 60 335-2-80 , EN 62233 , EN 50 106:2007

Disinfection Efficiency of UVC LAMP

Test Result(s):

Validation of disinfection efficacy of sterilization and disinfection instruments*

Test Method: Technical Standard for Disinfection (2002 Ministry of Health P.R.China)- 2.1.5.4

Test organism	Test groups	Average number of positive controls (cfu/pcs)	Average number of testing groups (cfu/pcs)	Killing rate (%)	Sterilization logarithm
<i>Escherichia coli</i> 8099	1	4.2×10^6	9.0×10^2	99.98	3.67
	2	3.9×10^6	8.7×10^2	99.98	3.65
	3	4.0×10^6	8.7×10^2	99.98	3.66

Test Result(s):

Virus inactivation test*

Test Method: Refer to Technical Standard for Disinfection (2002 Ministry of Health P.R.China)- 2.1.5.4

Virus and host cell	Action time and distance	Group	Logarithm of infectivity titre of virus lgTCID ₅₀ /mL	Infectivity titre of virus TCID ₅₀ /mL	Sterilization logarithm (KL)	Virus killing rate %
H3N2 Influenza A virus Host cell: MDCK	20min 3m	Control group 1	5.80	6.31×10^5	/	/
		Control group 2	6.00	1.00×10^6	/	/
		Control group 3	5.80	6.31×10^5	/	/
		Test group 1	4.50	3.16×10^4	1.30	94.99
		Test group 2	4.57	3.72×10^4	1.43	96.28
		Test group 3	4.43	2.69×10^4	1.37	95.73
		Test group 3	4.43	2.69×10^4	1.37	95.73

Test Result(s):

Validation of disinfection efficacy of sterilization and disinfection instruments*

Test Method: Technical Standard for Disinfection (2002 Ministry of Health P.R.China)- 2.1.5.4

Test organism	Test groups	Average number of positive controls (cfu/pcs)	Average number of testing groups (cfu/pcs)	Killing rate (%)	Sterilization logarithm
<i>Staphylococcus aureus</i> ATCC 6538	1	1.1×10^6	2.6×10^2	99.98	3.62
	2	1.2×10^6	3.0×10^2	99.98	3.60
	3	1.2×10^6	2.8×10^2	99.98	3.63

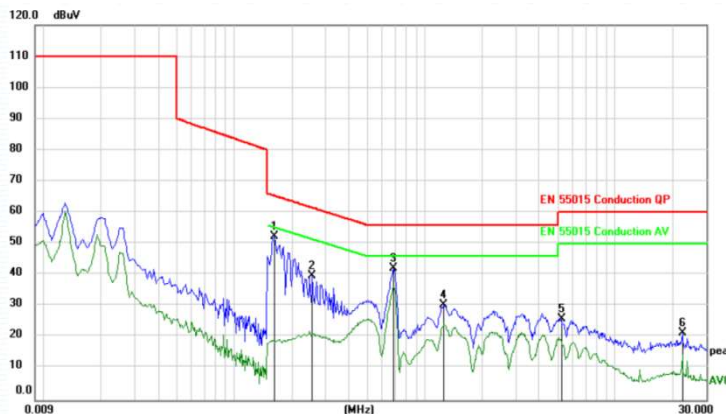
Test Result(s):

Virus inactivation test*

Test Method: Refer to Technical Standard for Disinfection (2002 Ministry of Health P.R.China)- 2.1.5.4

Virus and host cell	Action time and distance	Group	Logarithm of infectivity titre of virus lgTCID ₅₀ /mL	Infectivity titre of virus TCID ₅₀ /mL	Sterilization logarithm (KL)	Virus killing rate %
Influenza A virus H1N1 (A/PR/8/34) Host cell: MDCK	20min 3m	Control group 1	5.75	5.62×10^5	/	/
		Control group 2	5.80	6.31×10^5	/	/
		Control group 3	5.67	4.68×10^5	/	/
		Test group 1	4.33	2.14×10^4	1.42	96.20
		Test group 2	4.43	2.69×10^4	1.37	95.73
		Test group 3	4.33	2.32×10^4	1.34	95.43
		Test group 3	4.33	2.32×10^4	1.34	95.43

APPENTIX TEST DATA OF UVC LAMP



Job No.:

Standard:

Test item:

Temp.(°C)/Hum.(%RH):

EUT:

Model:

EN 55015

Conduct Test

24°C/47%RH

UV germicidal lamp

GPH1554T6L

Polarization:

Power Source:

Date:

Time:

Test By:

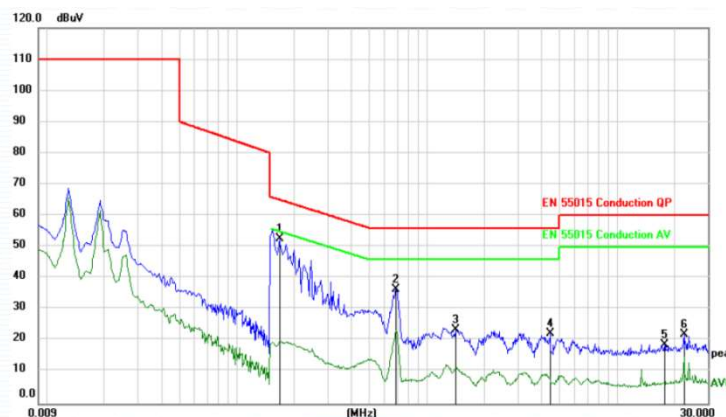
Distance:

Neutral

AC 230V

2020/04/29

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1635	42.35	9.93	52.28	65.28	-13.00	peak	
2		0.2580	29.90	9.96	39.86	61.50	-21.64	peak	
3		0.6900	32.26	9.93	42.19	56.00	-13.81	peak	
4		1.2605	20.50	9.89	30.39	56.00	-25.61	peak	
5		5.2404	15.92	10.05	25.97	60.00	-34.03	peak	
6		22.4605	11.14	10.45	21.59	60.00	-38.41	peak	



Job No.:

Standard:

Test item:

Temp.(°C)/Hum.(%RH):

EUT:

Model:

EN 55015

Conduct Test

24°C/47%RH

UV germicidal lamp

GPH1554T6L

Polarization:

Power Source:

Date:

Time:

Test By:

Distance:

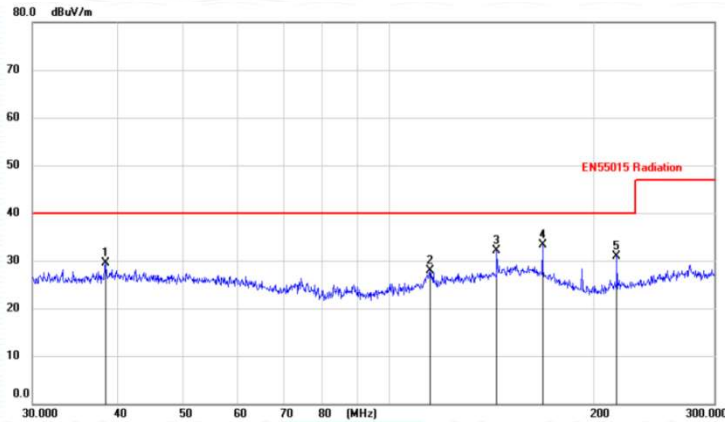
Line

AC 230V

2020/04/29

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1680	42.66	9.93	52.59	65.06	-12.47	peak	
2		0.6900	26.56	9.93	36.49	56.00	-19.51	peak	
3		1.4205	13.77	9.90	23.67	56.00	-32.33	peak	
4		4.4405	12.34	10.00	22.34	56.00	-33.66	peak	
5		17.7205	8.47	10.41	18.88	60.00	-41.12	peak	
6		22.5805	11.71	10.46	22.17	60.00	-37.83	peak	

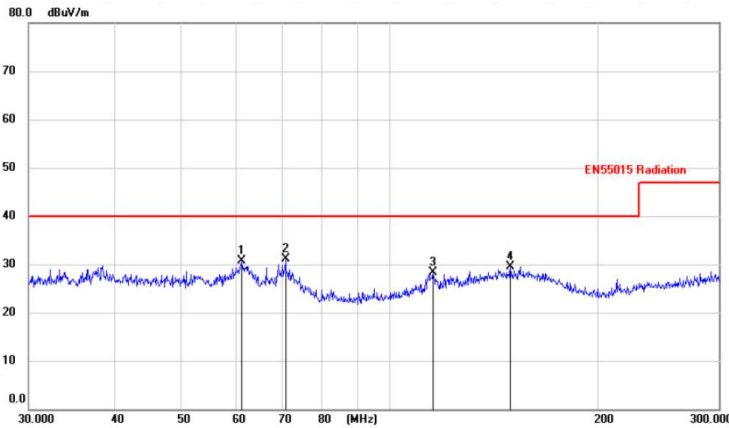
APPENTIX TEST DATA OF UVC LAMP



Job No.:
Standard: EN 55015
Test item: Radiation Test
Temp.(°C)/Hum.(%RH): 24°C/47%RH
EUT: UV germicidal lamp
Model: GPH1554T6L

Polarization: Horizontal
Power Source: AC 230V
Date: 2020/04/29
Time:
Test By:
Distance: 3m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		38.4035	15.14	14.27	29.41	40.00	-10.59	peak		
2		114.9466	15.55	12.40	27.95	40.00	-12.05	peak		
3		144.0858	17.49	14.59	32.08	40.00	-7.92	peak		
4	*	168.1207	19.06	14.24	33.30	40.00	-6.70	peak		
5		216.1455	19.37	11.44	30.81	40.00	-9.19	peak		

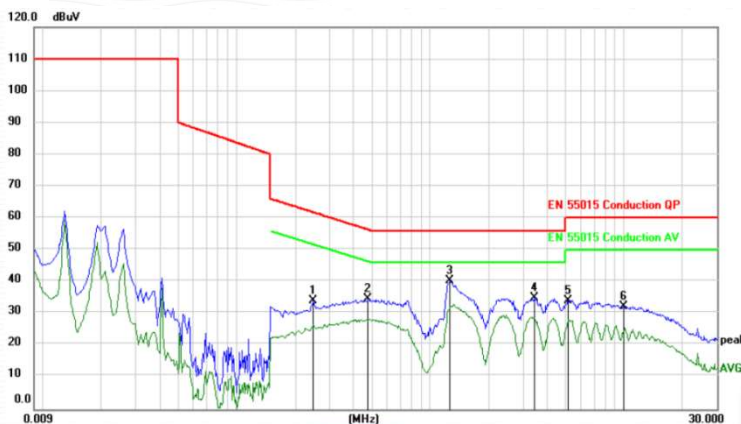


Job No.:
Standard: EN 55015
Test item: Radiation Test
Temp.(°C)/Hum.(%RH): 24°C/47%RH
EUT: UV germicidal lamp
Model: GPH1554T6L

Polarization: Vertical
Power Source: AC 230V
Date: 2020/04/29
Time:
Test By:
Distance: 3m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		61.1993	17.86	12.87	30.73	40.00	-9.27	peak		
2	*	70.7940	19.91	11.12	31.03	40.00	-8.97	peak		
3		115.7101	15.73	12.48	28.21	40.00	-11.79	peak		
4		149.7946	14.52	14.97	29.49	40.00	-10.51	peak		

APPENTIX TEST DATA OF BALLAST CONTROL



Job No.:
Standard: EN 55015
Test item: Conduct Test
Temp.(°C)/Hum.(%RH): 24°C/47%RH
EUT: Ballast
Model: LYL-Y7-800-150W

Polarization: Neutral
Power Source: AC 230V
Date: 2020/05/27
Time:
Test By:
Distance:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
1		0.2490	23.81	10.11	33.92	61.79	-27.87	peak		
2		0.4785	24.35	10.24	34.59	56.37	-21.78	peak		
3	*	1.2605	29.85	10.42	40.27	56.00	-15.73	peak		
4		3.4405	24.31	10.53	34.84	56.00	-21.16	peak		
5		5.1405	23.51	10.64	34.15	60.00	-25.85	peak		
6		9.9405	21.48	10.82	32.30	60.00	-27.70	peak		