

T e s t R e p o r t

Report No : U10008C Amd 1

Client: : Amscreen
Amscreen House
Paragon Business Park
Chorley New Road
Horwich
Bolton
BL6 6HG

Description : Digital Advertising Unit Fan

Manufacturer : Not disclosed

Type/Model : DS75

Test Specification : Measurement of power consumption in accordance with the
'Unmetered Supplies Operational Information Document' –
Version 17.0 (15/03/2017)

Date Testing Started : 08/11/2017

Conclusion : Refer to body of report

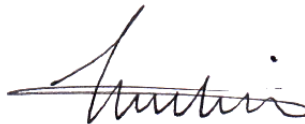
Date of Issue : 10/11/2017

Date of Expiry : 09/11/2022

Tested by: M. ALI
Position: Head of Department –
Photometry



Approved: T. MALIK
Position: Operations Manager



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Amd 1: This amendment is to correct the dimensions of the test products.

INTRODUCTION

Amscreen has supplied the product identified in table 1 for measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 17.0 (15/03/2017)

PRODUCT DETAILS

Table 1. Test Sample Details

Product Description	Digital Advertising Unit Fan
Model No.	DS75
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	2005mm x 1336mm x 305mm
Product Supply Requirement	240V AC, 50Hz
Lamp Type and Power	LED, 708W per screen at 100%
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

The customer has declared that the equipment load does not vary with ambient temperature.

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RESULTS

Table 2. Wattage and VA results for Digital Advertising Unit Fan

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	491.60	495.19	494.08	492.04	495.14
220	491.85	495.66	493.30	491.55	494.86
230	491.38	494.04	493.39	490.13	494.47
240	490.90	493.82	492.53	490.03	492.28
250	491.33	495.19	491.99	489.50	493.39
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	535.11	541.23	541.82	539.15	540.95
220	545.26	549.64	550.72	547.45	549.19
230	555.11	556.58	560.11	556.17	558.70
240	564.05	568.83	571.60	565.72	565.36
250	576.86	583.96	581.74	577.61	578.46
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.92	0.91	0.91	0.91	0.92
220	0.90	0.90	0.90	0.90	0.90
230	0.89	0.89	0.88	0.88	0.89
240	0.87	0.87	0.86	0.87	0.87
250	0.85	0.85	0.85	0.85	0.85
Ambient Temperature During Test (°C)			10.2		
PF Leading/Lagging			Leading		

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Table 3. Wattage and VA results for Digital Advertising Unit Fan

Operating Mode	75%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	445.03	454.00	446.79	445.18	446.90
220	445.30	454.11	446.57	445.78	446.42
230	444.56	451.05	445.94	444.72	445.55
240	443.19	450.83	445.89	443.39	445.12
250	443.22	450.67	445.18	443.45	444.87
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	494.38	503.94	499.25	496.52	497.63
220	504.47	512.75	509.06	506.40	505.71
230	514.15	520.93	519.38	517.36	514.79
240	523.82	532.73	531.03	524.92	524.49
250	535.86	544.82	543.98	538.08	536.55
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.90	0.90	0.89	0.90	0.90
220	0.88	0.89	0.88	0.88	0.88
230	0.86	0.87	0.86	0.86	0.87
240	0.85	0.85	0.84	0.84	0.85
250	0.83	0.83	0.82	0.82	0.83
Ambient Temperature During Test (°C)			10.5		
PF Leading/Lagging			Leading		

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Table 4. Wattage and VA results for Digital Advertising Unit Fan

Operating Mode	50%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	367.67	374.25	371.65	368.62	369.98
220	366.24	374.41	370.12	368.02	369.44
230	365.66	374.08	369.67	367.23	370.34
240	364.55	373.62	368.74	366.18	368.64
250	364.68	373.12	368.56	366.29	369.27
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	426.18	432.37	434.14	4283.68	429.12
220	435.43	442.65	444.13	437.76	438.83
230	444.78	455.00	455.52	449.38	450.57
240	454.22	464.64	464.97	461.82	459.38
250	466.02	475.88	476.69	473.61	472.18
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.86	0.87	0.86	0.09	0.86
220	0.84	0.85	0.83	0.84	0.84
230	0.82	0.82	0.81	0.82	0.82
240	0.80	0.80	0.79	0.79	0.80
250	0.78	0.78	0.77	0.77	0.78
Ambient Temperature During Test (°C)			10.4		
PF Leading/Lagging			Leading		

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Table 5. Wattage and VA results for Digital Advertising Unit Fan

Operating Mode	25%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	274.45	282.62	276.84	275.11	276.03
220	273.99	281.82	276.42	275.70	276.11
230	273.78	282.54	275.56	275.63	276.38
240	274.25	281.99	275.53	275.05	275.53
250	274.30	281.86	275.81	274.43	275.51
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	342.53	351.44	351.35	347.91	345.89
220	354.96	361.09	362.79	360.25	357.73
230	368.50	375.14	375.92	373.78	369.24
240	381.18	387.72	390.48	385.54	381.62
250	397.14	403.59	404.88	400.58	397.77
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.80	0.80	0.79	0.79	0.80
220	0.77	0.78	0.76	0.77	0.77
230	0.74	0.75	0.73	0.74	0.75
240	0.72	0.73	0.71	0.71	0.72
250	0.69	0.70	0.68	0.69	0.69
Ambient Temperature During Test (°C)			10.5		
PF Leading/Lagging			Leading		

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Table 6. Wattage and VA results for Digital Advertising Unit Fan

Operating Mode	1%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	201.03	205.96	201.07	200.21	200.46
220	200.78	205.70	200.57	198.05	200.16
230	200.46	205.22	199.92	199.30	200.44
240	200.06	205.69	199.66	199.36	200.05
250	200.12	204.98	199.07	199.64	199.13
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	285.67	290.81	293.68	290.59	286.90
220	299.55	301.71	307.68	300.30	299.16
230	315.27	317.48	320.65	315.84	311.38
240	328.14	334.16	337.30	334.64	328.63
250	345.70	350.13	352.71	354.13	346.31
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.70	0.71	0.68	0.69	0.70
220	0.67	0.68	0.65	0.66	0.67
230	0.64	0.65	0.62	0.63	0.64
240	0.61	0.62	0.59	0.60	0.61
250	0.58	0.59	0.56	0.56	0.58
Ambient Temperature During Test (°C)			10.3		
PF Leading/Lagging			Leading		

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DEVIATION(S) FROM TEST STANDARD

No reported deviations from test standard.

MEASUREMENT UNCERTAINTY

The following expanded uncertainties apply to the measurements shown in the results;

True Power (W): $\pm 0.69\%$, Apparent Power (VA): $\pm 0.61\%$

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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ILLUSTRATION



Figure 1. *Product image*

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