

## 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



**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.

---

**Continued on following page**

## RESULTS

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

<b>Operating Mode</b>	100%				
<b>Watts</b>					
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
<b>VA</b>					
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
<b>Power Factor</b>					
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			

Continued on following page

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

Operating Mode	75%				
<b>Watts</b>					
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
<b>VA</b>					
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
<b>Power Factor</b>					
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			

Continued on following page

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

Operating Mode	50%				
<b>Watts</b>					
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
<b>VA</b>					
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
<b>Power Factor</b>					
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			

Continued on following page

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

<b>Operating Mode</b>	25%				
<b>Watts</b>					
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
<b>VA</b>					
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
<b>Power Factor</b>					
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			

Continued on following page

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

Operating Mode	1%				
<b>Watts</b>					
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
<b>VA</b>					
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
<b>Power Factor</b>					
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			

Continued on following page

### **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.

---

**Continued on following page**

## **ILLUSTRATION**



**Figure 1. Product image**

---

**End**