Rocklyn Sports Domes
Part of Rocklyn Engineering Ltd
14 Ballyclough Road
Lisburn
County Antrim
BT28 8UY
+44 (0) 28 9264 8344

Air Supported Structures – Energy Consumption Rates

1. Blower Units	1-court	2-court	3-court	4-court
Maximum Motor Capacity	4.4 kW	6 kW	8 kW	11 kW
Usage in calm conditions	1.32 kW	1.80 kW	2.40 kW	3.30 kW

Motors only reach maximum capacity during strong wind conditions. Specific site conditions and seasonal weather patterns will dictate motor operation level, and subsequent energy consumption rates.

Figures quoted refer to hourly energy consumption. Multiplying these figures by your local electricity rates will provide average running costs. For example, a 2-court dome in calm conditions with a local energy rate of £0.15/kW h would cost £6.48 over a 24 hour period (1.8kW x £0.15 x 24 hours).

2. Lighting System	1-court	2-court	3-court	4-court
300 lux lighting system	4 kW	8 kW	12 kW	16 kW
390 lux lighting system	6.1 kW	12.3 kW	18.4 kW	24.6 kW
480 lux lighting system	8 kW	16 kW	24 kW	32 kW

Owing to the high translucency design of our domes, lighting is not required during daylight hours. When calculating energy consumption rates for lighting, consideration should be given to expected usage at night (5 hours per day is common).

As with blowers, figures quoted for lighting refer to hourly energy consumption. Multiplying these figures by your local electricity rates will provide average running costs. For example, a 2-court dome (with standard 300 lux lighting) with lights on for 5 hours in every 24 hour period, and with a local electricity rate of £0.15/kW h would cost £6.00 over a 24 hour period (8kW x £0.15 x 5hours).

Energy consumption of lighting can be reduced by the integration of coin-operated or motion sensing systems. Ask your Rocklyn representative for details and a quotation.

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3. Total Energy Use

Combining expected energy use for blowers and lighting will give you total energy use for any given period of time. So, a 2-court dome in calm conditions (1.8kW x 24 hours), with lighting in use for 5 hours in every 24 (8kW x 5hours) will use 83.2kW over a 24 hour period.

Applying this figure to a local energy rate of £0.15/kW h gives a daily running cost of £12.48.

Please consult your local energy supplier for accurate local energy rates.