

**THE ENERGY ALTERNATIVE**  
HNO C116/10, CENTRAL LINK  
ADGIRIGANOR, EAST LEGON  
ACCRA GHANA  
**The Maintenance Mgr**  
**LaPalm Royal Beach Hotel**  
**Accra**

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**18/11/09**

AIRCONDITION ENERGY SAVING TEST REPORT

Rationale For Test :

To confirm if our oil additive product ( Artikool) can:

- (a) Reduce kilowatt hour consumption (kwh/units) of cooling systems eg airconditions, cars, cold storage refrigeration etc.
- (b) Make cooling systems efficient eg improving overall cooling capacity etc.
- (c) Reduce compressor run time
- (d) Test Venue : La Palm Royal Beach Hotel

Test Date : (a) Commenced 27/10/09 (b) Ended 17/11/09

Instrument Used : Efergy Kwh Data Logger

Aircondition used for test : Trane 2HP aircondition located in the office of maintenance department secretary/ works coordinator.

Preinstallation Checks : Verified if aircondition was in good working order, refrigerant level satisfactory, clean fins etc.

Testing was carried out from 27/10/09 to 17/11/09. First week was logging the kwh consumption of the unit followed by injecting our oil additive into the aircondition and allowing the system to run for seven days and then logging the unit again for a week to check kwh consumption after treating the unit with our oil cleansing additive. Please refer to attached.

Test Result:

- (a) Kwh consumption from 27/10/09 ( before treatment) ---- 46.04 kwh
- (b) kwh consumption from 10/11/09 ( after treatment) ---- 38.78 kwh
- ©Energy Savings (per week) ---- 7.26 kwh (15.76%)
- (d) Energy Savings monthly ---- 29.04 kwh
- (e) Energy savings yearly ----- 348.48 kwh
- (f) Potential kwh to be saved having 200 units of such airconditions under same conditions -69,696 kwh

Other Benefits :

This is a one off treatment as our product cleans the inner pipes of your airconditions , expansion valves, compressor seals, receiver etc and prevents oil fouling of inner valves from reoccurring because of the polarized nature of the product. The end result is it improves system lubricity and most important the heater exchange of the unit resulting in:

(a) Reduced compressor run time of up to 12%( depends on the size of the unit) (b) reduced service (c) prolongs life span of cooling units.

Test Verified by (1) The Acting Maintenance Mgr La Palm Royal Beach Hotel  
(2) Kofy Adega : Chief Executive The Energy Alternative

PRICING TO TREAT 2.0HP AIRCONDITION : GHC 95.00 ( exclusive vat & nhil)

NB: Please refer to attached for product information.

Regards

Kofy Adega  
Chief Executive