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Zenith Energy

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Dear Sir,

Happy to inform you that we have installed a Airtron energy saver to the 2 Ton AC in our office and tested the performance. It is a microprocessor based device which saves energy by switching off the compressor for some time, without difference in the comfort level. I am enclosing the readings what we have recorded the saving was about 37% .

We are happy that we implemented this during Engineer's Day Celebration as a commitment towards environment.

### **Report on Power savings by installing AIRTRON for AC in the Server Room :**

The 2 Ton AC near the Server consumes more power as its compressor doesn't cut off after the set temperature is reached. The compressor stays ON right from when the AC is switched ON till the AC is switched OFF. Due to this the measured power consumption of the AC is higher which is around 2.66 kW for an hour.

A programmable energy saver "AIRTRON" was installed for the AC to save power on 08/09/2016.

The power consumption for an hour was again measured for 2 days i.e. 08/09/2016 and 09/09/2016; it was found that the power consumption has been reduced to 1.79 kW and 1.53 kW respectively on these days.

We can save around 37% i.e. 1 kW per hour after installing this energy saver "AIRTRON".

### **Analysis**

Based on these measured values we have calculated the cost savings for a month on actual and 75% realization of the power savings and the payback period. A detailed calculation on savings is presented below.

Particulars	Units	Without realization	with 75% realization
Power Consumption before AIRTRON per Hour	kW	2.66	
Power Consumption after AIRTRON per Hour	kW	1.79	
Power Consumption after AIRTRON per Hour	kW	1.53	
Avg. Power Consumption per Hour	kW	1.66	
Power Savings for an Hour	kW	1.00	0.75
Considering 8hrs Working for 25days in a month	kWh	199.9	149.92
Cost Savings per month	Rs	1399	1049

Signed by

Er R. Gopala Krishna