

Inncom EMS Test Results - Bangkok Hotels



1. Three star hotel - Four week test - Side by side rooms - Inncom vs no key card control

	Inncom	Non-Inncom
Run-time %:	13.3%	49.7%
kWh/Yr Used:	932.6	3,488.8
kWh/Year Saved:	2,556.2	
Est. Annual Savings:	\$294	9,113฿

Notes:

1. The non-Inncom (no control) room FCU ran 73% more hours than Inncom room FCU.
2. FCU is cooling only; 12,000 BTU's.
3. Assumes 0.80 kW/ton for chiller, auxiliary equipment and FCU motor.
4. Assumes energy cost is \$0.115 / kWh or approximately 3.55 Baht/kWh.
5. Tested using temperature measurements at FCU supply to determine coil runtime.

2. Four star hotel - Four week test - Side by side rooms - Inncom vs key card

	Inncom	Non-Inncom
Run-time %:	27.7%	49.4%
kWh/Yr Used:	2,236.9	3,982.9
kWh/Year Saved:	1,746.00	
Est. Annual Savings:	\$218	6,766฿

Notes:

1. Key card room FCU ran 49.4% of the time; Inncom room FCU ran 27.7% of the time.
2. FCU is cooling only; 18,000 BTU's.
3. Assumes 0.65 kW/ton for chiller, auxiliary equipment and FCU motor.
4. Assumes energy cost is \$0.125 / kWh or approximately 3.8 Baht/kWh.
5. Tested using temperature measurements at FCU supply to determine coil runtime.

3. Four star hotel - Four week test - Year on year comparison - Inncom vs no key card

Average daily kW consumption with no key card

	Sep-11	Sep-12	Avg
	1840	1804	1822
	61.33	60.13	60.73
Avg Daily kW from Inncom test:			45.07
Annualized kWh savings:			4,388.6
Est. Annual Savings:			\$549
Annualized Savings as % of total:			25.8%
			17,006฿
			5,669฿ per AC

Notes:

1. Test room - 2 BR serviced apartment. 2011/2012 kW meter readings used as base.
2. AC units are split systems, 18,000 BTU;s.
3. Assumes energy cost is \$0.125 / kWh or approximately 3.8 Baht/kWh.
4. Tested using hotel installed kW meters; read daily.