

CHENACT Presents:



Watts New- Bright Ideas #1 Energy Efficient Air Conditioning System

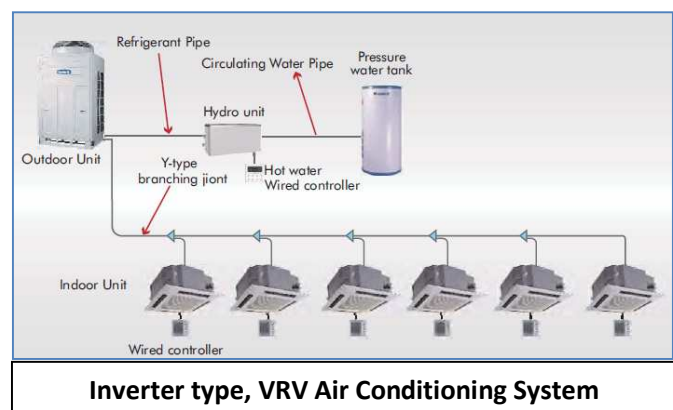
Watts New-Bright Ideas is a new 20 series feature being sponsored by the CHTA based on the lessons learned from the CHENACT project. The Caribbean Hotel Energy Efficiency Action (CHENACT) project is designed to improve the competitiveness of small to medium sized hotels in the Caribbean through the introduction of energy efficiency and on-site renewable energy. In addition to the energy related cost savings at the property level, CHENACT will determine the potential for reducing greenhouse gas (GHG) emissions and imported oil at the national level associated with utility electricity generation.

Resulting from a detailed energy audit of a 67-room hotel in Barbados, the audit team identified 6 projects were identified which would help reduce the hotel's annual energy consumption by 349,930 kWh, or 45%. In addition, these measures would reduce Carbon Dioxide (CO₂) emissions by 245 tons per year. At a cost of US\$172,306, the hotel would save US\$102,310 annually, an overall payback period of 1.7 years.

Did you know.....

.....that high efficiency, inverter type Variable Refrigerant Volume (VRV) mini-split air-conditioning systems allows the temperature of each room to be precisely controlled, while using one large high efficiency condensing unit. These systems are also designed to recover heat for hot water.

If the 67-room hotel installs the VRV AC system, it would save 183,934 Kwh annually. With an initial cost of US\$124,000, the hotel would save US\$70,000 per year, or a payback period of 1.8 years



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