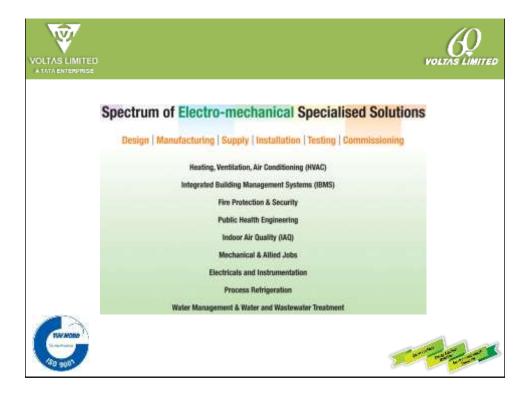
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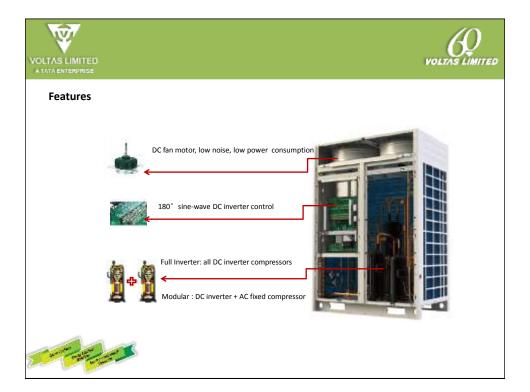
























Air Quality & Energy Management Systems

First Engineered OZONE System in the World Qualifying to UL 867A

Silent Feature of IAQ Management system

Reduction to near total elimination of VOC and odor

Sustains CO2 below 1,000 PPM

No replacement consumable is required

Power to operate is very low

Eliminates mold and fungi in AC ducts

Operates with outdoor air less than 5 Cfm / Person while yet delivering the IAQ benefits. System in total conformity with ASHRAE Demand Load Ventilation

Operation fully automatic with microprocessor based monitors and controllers. All IAQ parameters displayed remotely through web based IP. Supports monitoring and continuous audit of IAQ and energy parameters. Issues automatic alerts on email if IAQ or energy parameters are not within optimum range.

Reduces energy consumed by AC plant up to 20 %

Reduces water consumed by AC plant up to 20 %

Results in Cap Ex savings of AC system

ROI is typically 1 to 3 years

The entire system is UL listed for operational safety (UL 1995), safety against fire and smoke (UL 2043), and for safety for use in human occupied space (UL 867A).











Project Highlights

This is the First "NET ZERO" building of India with "LEED Platinum" certification and GRIHA Five Star certification for Exemplary Demonstration of Renewable Technologies.

India's First Net Zero Building.

First time used of Condensing Chilled Beam Unit with Drain Pan suitable for Hot & Humid climate like India.

Total Energy savings of about 40% has been achieved by adoption of Energy Efficient Chilled Beam Unit.

Reduction in Water Consumption has been achieved by use of GEO-Thermal System.

Energy efficient VFD Driven Screw Chillers of IPLV .37 kW / TR

Energy Produced per year 14,91,000 kWh & Energy Consumption for building per year 14,21,000 kWh



VOLTAS LIMITED







Area air conditioned with conventional system - 27000 sqft - 130 TR (load)

Ventilation Area - 106400 sqft (Three basements)









