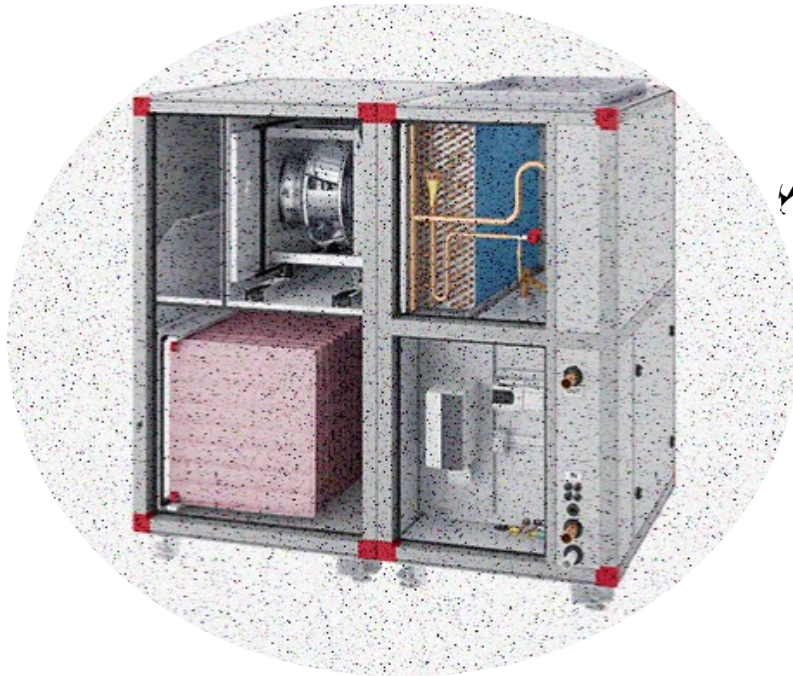


STAI

SEMINARS ON TECHNOLOGICAL ADVANCES AND
INNOVATION



**AIR HANDLING
UNITS (AHU):
A
REVOLUTION**

Krishna E.



TATA INSTITUTE OF FUNDAMENTAL RESEARCH
HYDERABAD

FEB

15th

2024

TIFR H Auditorium 11:30 AM

AIR HANDLING UNITS: A REVOLUTION

KRISHNA E.
TIFR HYDERABAD

An air handling unit (AHU) is a large piece of equipment that alters the temperature and pressure of air being distributed throughout a building. Heating ventilation and air conditioning (HVAC) systems consume nearly 50 to 60% of the total power consumption in any building and AHUs that consume 10-15% of HVAC load thus, offer a huge potential challenge to reduce energy consumption by employing various innovative systems designs. The evolution of AHUs in terms of introducing new technologies of casing, blower, motor, cooling coil and monitoring & control units offers excellent return on investment in terms of operating cost, life span, maintenance and downtime. The talk will present an overview of some of the new innovations in this domain.

FEB

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