

Lossnay Kanzen Air Handling Units (AHU)



The Lossnay Kanzen range of units are highly efficient packaged Air Handling Units (AHU's) that provide a tempered fresh air supply to commercial buildings alongside an air conditioning system.

The AHU's are connected to Mr Slim Power Inverter heat pump units, allowing fresh air to be heated or cooled via a DX coil before being supplied to the internal environment as required. With the added benefit of total heat recovery using the Lossnay cores and a fully integrated controls package, Lossnay Kanzen AHU's are designed to operate at peak efficiency.

The Lossnay Kanzen units offer a free cooling function whereby in cooling mode, at a certain preset temperature, the AHU will stop the operation of the outdoor units and open the bypass damper to allow cooler ambient air to bypass the Lossnay cores and lower the internal temperature of the building, reducing the load on the air conditioning system.

With an integrated controls system that includes an interface that uses M2M technology, the Lossnay Kanzen units offer a high level of in-built control to ensure that the demand for a comfortable supply of fresh air within a building is met, whilst making sure that the units are working in the most energy efficient manner possible.

BEMS control of the Lossnay Kanzen units and up to 49 City Multi indoor units (On/Off, Mode, Setpoint, Fault and Return Air) via the AE-200E centralised controller is also possible.



Available in 5 different sizes and with a large range of optional extras, the Lossnay Kanzen units are customisable and therefore suitable for most commercial applications

 Kanzen



Standard Lossnay Kanzen AHU Package

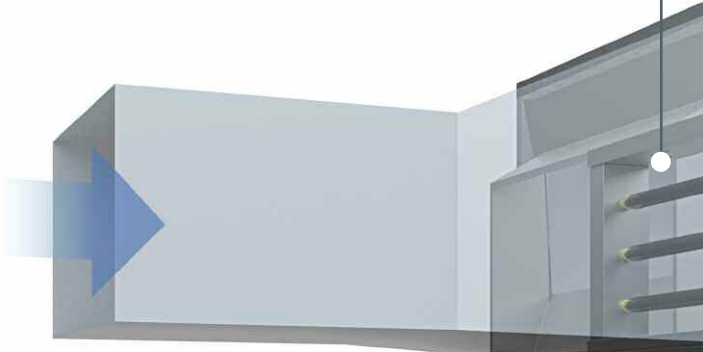


Pre-heater

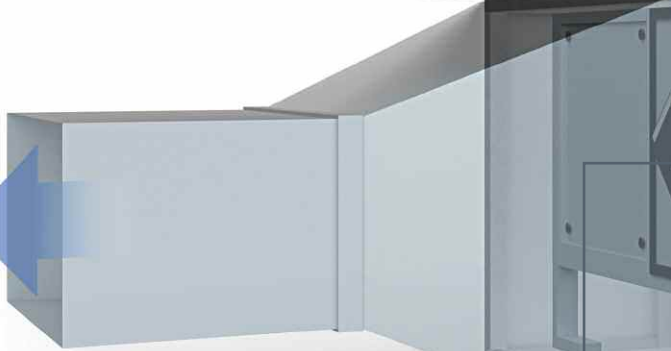
- Activated at external temperatures from 0°C to -5°C
- Modulated control



Outside Air

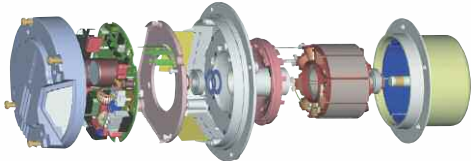


Exhaust Air



Electric Motor

- High efficiency adjustable E.C. electric motor
- Low noise electronic switching technology
- Motor mated directly to external fan rotor



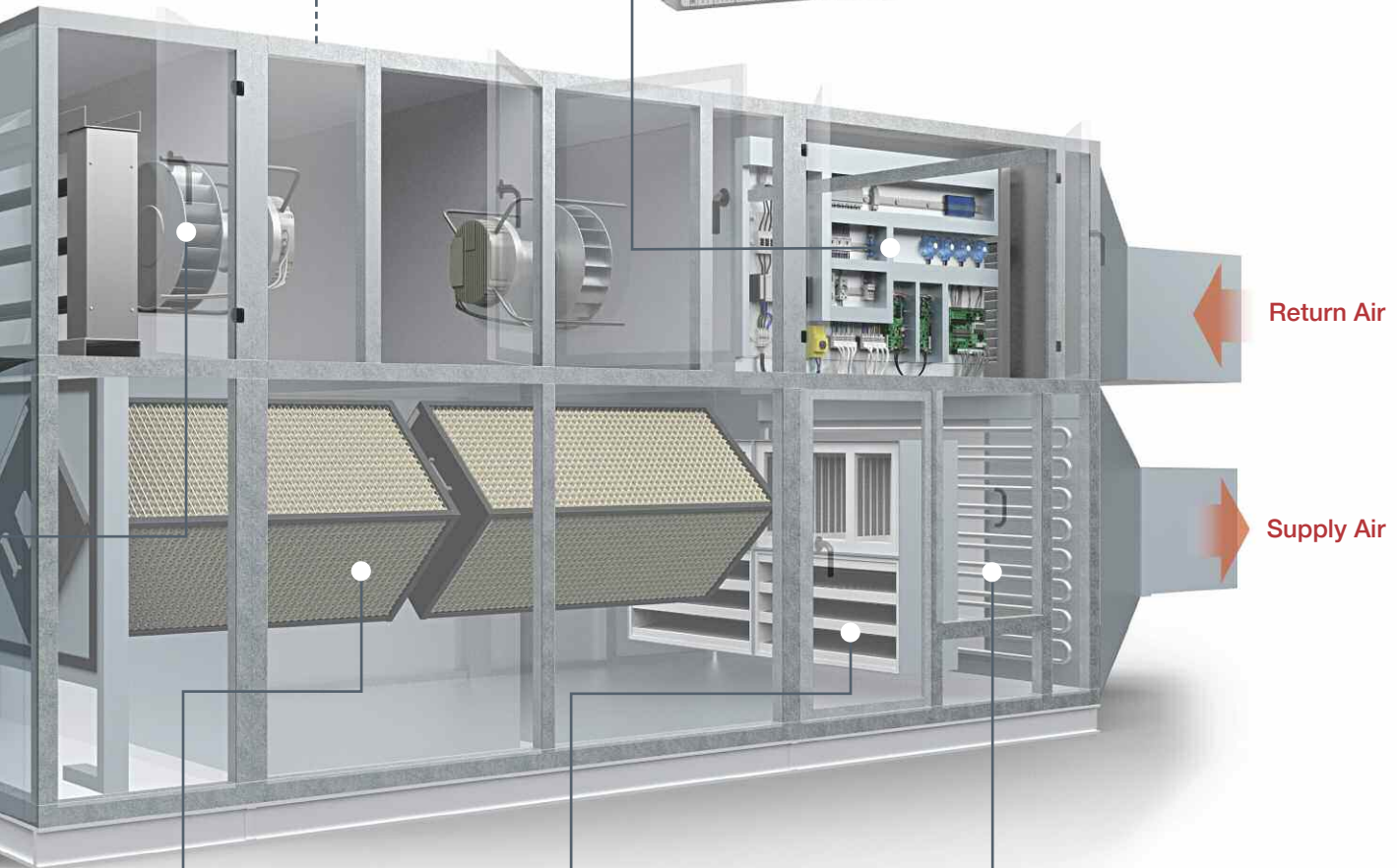
Free Cooling Damper

- Free cooling & night purge shutter
- Energy saving feature that uses cool outdoor air to lower the internal temperature



Integrated Controls System

- Electronic panel with integrated regulation systems
- Blue light backlit display
- Operating parameters display
- Error display
- Optional ON/OFF and time-clock schedule using AE-200E and PAC-YG66DCA
- Control interface that uses M2M technology
- BEMS control available



Lossnay Core

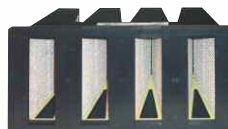
- High efficiency Lossnay core
- Total heat recovery (sensible & latent)
- Cross-flow plate fin structure
- Paper core

High Efficiency Active Carbon Filter Section

- F7 active carbon bag filter upstream of the DX coil
- G4 filters (outdoor air & return air) protect the Lossnay cores

Direct Expansion Coil

- R410A refrigerant direct expansion coil
- Copper tubing with Blu-Fin V Waffle louver fins in corrosion resistant aluminium
- 46 bar rated pressure



Air Handling Unit Controllers

Mitsubishi Electric's Air Handling Unit Controllers allow further flexibility within our AHU offering. These interfaces allow connection to third party manufacturer AHU's and can be used in conjunction with Mr Slim outdoor units, providing an ideal, energy efficient solution when a unique AHU application is required.

Mr Slim Air Handling Unit Controller (PAC-IF012B-E)

The Mr Slim AHU interface is controlled using either a supply or return air temperature and works in conjunction with Mr Slim outdoor units. With auto-step control available, the units work to meet the demand on the system precisely in the most energy efficient manner possible.

