

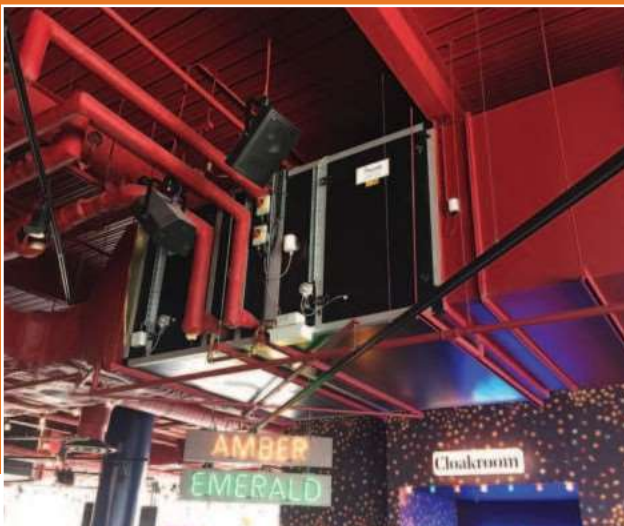
Craftmanship in air



WHY CHOOSE KLENSYS

- Leading Manufacturer of Infection Control and Air Management Solutions

For over 15 years, **Klensys** has been designing and manufacturing high quality, standard and bespoke solutions for infection control and air management. Our products are trusted across a wide range of sectors including healthcare, pharmaceutical, biotechnology, food processing, and other critical environments where clean, controlled air is essential. We are recognised as one of the India (Bangalore) leading manufacturers in this field, delivering systems that provide purified, temperature controlled, and humidity regulated air to meet the most demanding standards. Our deep expertise in sector specific requirements, combined with our commitment to current regulatory guidelines, enables us to support our customers in selecting cost effective, energy efficient solutions that maintain safe and contamination free environments.



PRODUCT

Our AHU Portfolio Includes: Bespoke AHUs—Fully custom-built to meet unique site and specification requirements Cleanroom AHUs – Designed for controlled environments with high filtration standards Extract AHUs – Purpose-built for effective extraction and exhaust air handling Fresh Air AHUs – Delivering high volumes of clean, tempered outdoor air Heat Recovery AHUs – Energy-efficient solutions using thermal wheel or plate heat exchangers HTM-03.01 (2021) Compliant Hospital AHUs – Specifically designed for healthcare environments to meet NHS standards In-Ceiling AHUs – Compact, concealed units ideal for space-restricted installations Indirect Gas-Fired AHUs – Efficient heating using indirect gas burners Kitchen Supply & Extract AHUs – For catering environments requiring high filtration and grease management Packaged DX AHUs – Factory-assembled units with integrated direct expansion (DX) cooling Swimming Pool AHUs – Corrosion-resistant systems for high-humidity environments Toilet Twin Extract AHUs – Dual extract systems for small service areas Vertical AHUs – Space-saving configurations for compact plant areas AHU Controls – Intelligent, integrated control systems tailored to each unit's performance

ABOUT US

Klensys is a long established, India (Bangalore) based leader in the design and supply of advanced Air Handling Units (AHUs) and infection control solutions, offering both standard and bespoke systems to meet a wide variety of operational needs.

Klensys Manufacturing Excellence We design and manufacture high quality AHUs and ventilation systems that are individually engineered to enhance energy efficiency and indoor air quality. Our units are suitable for both internal and external installations, with each solution custom built to meet site specific requirements and the exact needs of our customers.

Our specialist design expertise and manufacturing capabilities are focused on maximising energy efficiency and reducing operational costs, while ensuring that every **Klensys** product delivers long term durability and dependable performance. **Klensys** serves clients across virtually every sector, including healthcare, pharmaceutical, biotechnology, catering, scientific, and technology environments, delivering trusted solutions that support clean, safe, and sustainable operations.



OUR PRODUCTS

BESPOKE AHU

Bespoke AHU At **Klensys**, most of our Air Handling Units (AHUs) are custom designed and manufactured to meet the specific requirements of the site and the unique environment in which they will operate. We take pride in our ability to overcome challenging site constraints through smart design and tailored manufacturing.

Bespoke,
requirements and
ourselves on
nt design and

recovery
s, Low Pressure

t Expansion (DX)
all be specified.
10 to 20m²/s.



Standard Specifications:

- Robust 50 mm aluminum casing with reinforced corner sections, aluminum penta posts, and a choice of anodized aluminum or rolled steel channel base.
- Double-skinned panels designed to minimize noise during operation.
- Hinged access doors equipped with secure lockable handles for easy maintenance.

Customizable Options:

- Indirect gas-fired burners or electric heating solutions.
- Single-inlet direct drive "Plug" type fans for efficient airflow.
- Wide range of filter and panel options, including HEPA filters, Activated Carbon, Ultraviolet (UV) Sterilizers, or Electrostatic Precipitators.
- Coils for LPHW Fog / Frost / Heating / Reheat, with DX and chilled water capabilities.
- Energy-saving recuperators and thermal wheels.
- Sound attenuators for noise control.

FRESH AIR AHU

In environments where natural ventilation is limited or ineffective, the ideal solution is often the installation of a **Klensys** Fresh Air Handling Unit (FAHU). A well engineered FAHU from **Klensys** delivers clean, filtered, tempered, and cooled fresh air, which is then distributed efficiently through the building's ductwork.



Standard Specifications:

- Robust casing constructed from 50 mm aluminum, featuring cast corner pieces, aluminum penta posts, and a choice of anodized aluminum or rolled steel channel base.
- Double-skinned case panels designed to minimize operational noise levels.
- Hinged access doors equipped with lockable handles for secure maintenance access.

Customizable Options:

- High-efficiency Fans
- Industrial-grade Filters
- Optional Dampers available in stainless steel or painted finish
- AHU (Air Handling Unit) Control Panels

HTM-03.01 COMPLIANT HOSPITAL AHU

Hospital Air Handling Units At **Klensys** , we design and manufacture high quality Hospital Air Handling Units (AHUs) for use in healthcare environments. Our units are built to supply clean, filtered, and temperature controlled air, creating a safe and comfortable environment for patients, doctors, staff, and visitors.



EXTERNAL WEATHERPROOF HTM-03.01 AIR HANDLING UNITS

At **Klensys** , we provide packaged control systems to offer a complete turnkey solution for your Air Handling Units (AHUs). Our control options range from basic standalone systems to fully integrated Building Management System (BMS) compatibility.



(Internal HTM 03.01)

- Casings constructed from 50 mm aluminum, featuring cast corner pieces, aluminum penta posts, and either anodized aluminum or rolled steel channel base.
- Double-skinned case panels designed to reduce operational noise levels and minimize thermal transmittance through the unit casing.
- Hinged access doors equipped with lockable handles for secure and easy maintenance.

Additional Specifications relating to External HTM 03.01

- Dampers suitable for coastal environments (painted or stainless steel)
- Epoxy-painted or coated recuperators
- Thermal wheel options

Options compliant with HTM 03.01:

- Single-inlet direct-drive "Plug" type fans, available with either AC or EC motors.
- Wide selection of panels and filters, including:
 - HEPA filters
 - Activated Carbon filters
- Coils for various applications:
 - LPHW Fog / Frost / Heating / Reheat
 - Cooling Water & DX Reverse Cycle
 - Runaround (Heat Recovery) Coils
- Indirect gas-fired burners or electric heaters for flexible heating options.
- Recuperators for efficient heat recovery.
- Thermal wheels for energy-efficient air handling.
- Attenuators for noise control.
- AHU (Air Handling Unit) Control Panels for system management.



INDIRECT GAS-FIRED AHU

In commercial kitchens and restaurants, maintaining the right indoor air quality is critical. Proper ventilation not only ensures a safe and comfortable environment for chefs and staff but also creates a pleasant atmosphere for diners in adjoining restaurant areas.

All warm air heaters within our air handling units that are used to provide comfort for the occupants of the heated space are required to meet minimum standards of 'seasonal' efficiency as determined by the Ecodesign regulation (EU) 2015/1188, Directive 2009/125/EC – Lot 21 Tier 1.

re-specified
airflows:



⚙️ Product Features

- **Durable Structure**
50 mm aluminum casing with cast corner components, penta-shaped aluminum posts, and either anodized aluminum or rolled steel channel base for strong support.
- Double-skinned case panels designed for efficient insulation, providing a thermal conductivity of 0.04 W/m·K between the skins.
- Hinged access panels securely sealed using compression rubber gaskets.

Available Options

- Indirect gas fired burners
- Fans
- Filters
- Heating & cooling coils
suitable for:
 - DX Evaporator (DX EVAP)
 - Chilled Water Systems

✓ Additional Options

- Electric Heater Batteries
- Recuperators
- Thermal Wheels
- Attenuators
- Dampers
- AHU Controllers

HEAT RECOVERY AHU

An additional advantage of a **Klensys** Heat Recovery AHU is the significant reduction in both heating and cooling loads, thanks to the energy recovered. This leads to lower operational Heat Recovery AHU Solutions by **Klensys**



⚙️ Key Features

- **Robust Construction**
50 mm aluminum casing with cast corner pieces and aluminum penta posts for structural strength.
- **Secure Access**
Hinged access panels equipped with lockable handles for safe and easy maintenance.
- **Efficient Insulation & Noise Reduction**
Double-skinned case panels designed to minimize operational noise and reduce thermal transfer.
- **Optional Durability for Outdoors**
Rolled steel option available for enhanced protection in external installations.

✓ Technical Options & Features

- **Fan Options**
Single inlet direct drive 'Plug' type fans available with either AC or EC motors.
- **Filtration Choices**
Wide range of panels and filters, including:
 - HEPA filters
 - Activated Carbon filters
- **Coil Options**
Heating and cooling coils for various applications:
 - LPHW Fog / Frost / Heating / Reheat
 - Cooling Water & DX (Direct Expansion)
 - Reverse Cycle & Runaround (Heat Recovery) Coils

CLEANROOM AHU

Cleanroom AHU A cleanroom requires air that is free from dust, particles, and contaminants — an essential need in healthcare, scientific, pharmaceutical, manufacturing, and food processing environments.



Key Features

- **Durable Construction**
Casings available in 30 mm or 50 mm aluminum with cast corner pieces, aluminum penta posts, and either anodized aluminum or rolled steel channel base.
- **Secure Maintenance Access**
Hinged access panels fitted with lockable handles for easy and safe maintenance.
- **Noise Reduction**
Double-skinned case panels designed to minimize operational noise levels.

Technical Features & Options:

- **Fan Options**
Single inlet direct drive 'Plug' type fans with either AC or EC motors.
- **Filter Options**
Choice of panels and filters, including:
 - HEPA filters
 - Activated Carbon filters
- **Wide variety of coil configurations:**
 - LPHW Fog / Frost / Heating / Reheat
 - Cooling Water & DX
 - Reverse Cycle and Runaround (Heat Recovery) Coils
- **System Control**
AHU Control Panels.

VERTICAL AHU

When space is limited, a Klensys Vertical Air Handling Unit (AHU) is often the perfect solution. These compact systems are designed as a key part of low noise heating and cooling ventilation, while meeting today's demanding standards for energy efficiency and operational flexibility.



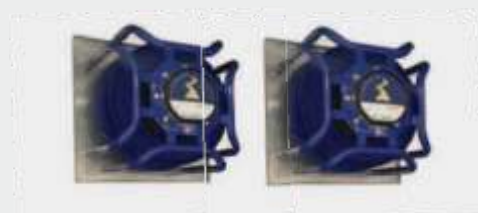
Key Features

- **Efficient Heating & Cooling Ventilation**
Optimized for low noise operation.
- **Energy Efficiency**
Engineered to meet today's demanding energy-saving standards.
- **Compact Design**
Ideal for areas where space is at a premium.
- **Operational Flexibility**
Adaptable for various applications and space constraints.



Klensys Air Handling offers a rapid-response service for replacement components, spares, and service items—supporting not only our own AHUs but also units from most major manufacturers.

We maintain a comprehensive inventory of high-quality consumables and compatible components to ensure fast dispatch and minimal downtime for your systems. Whether you're carrying out planned maintenance or need urgent replacements, we've got you covered.



OPTIONS:

- Fans
- Filters
- Hot & cooling coils, suitable for DX EVAP and chilled water
- Electric heater batteries
- Recuperators
- Thermal wheels
- Attenuators
- Dampers
- AHU controllers

COILS

At **Klensys**, we know that good thermal transfer is critical to the overall performance and efficiency of any Air Handling Unit (AHU).

GAS HEATERS

At **Klensys**, we provide the latest in indirect gas heating technology, offering high efficiency modular heaters with combined heating outputs ranging from 10 kW to 600 kW.

FANS

At **Klensys**, we understand that efficient, reliable, and low cost air movement is at the heart of every Air Handling Unit (AHU).

THERMAL WHEELS

At **Klensys**, we offer advanced Thermal Wheel Rotary Heat Exchangers that help recover a significant portion of extracted thermal energy—whether hot or cold—and transfer it back into the supply airstream.

FILTERS

At **Klensys**, we understand that clean air is vital for the performance and reliability of any ventilation system.

ELECTRIC HEATERS

At **Klensys**, we supply custom built electric heater batteries designed to integrate seamlessly with your Air Handling Units (AHUs) and meet your project's exact heating requirements.



Services

Bespoke Design
Site Surveys
AHU Manufacturing
Flat-Packed AHU On-site Assembly
Refurbishment & Upgrade
Controls Commissioning

Works

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