

## MODULAR AIR HANDLING UNIT



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**Airflow rate:**  
1000 - 100000 m<sup>3</sup>/h

## CLEANAIR LX

- Available in 44 sizes,  
with total pressure up to 2.500 Pa
- Modular unit
- Aluminium frame with 60 mm sandwich panels
- EN 1886 classification for standard construction

- 44 sizes - 28 basic sizes and 16 low profile sizes
- 60 mm sandwich panels, insulated with injected polyurethane or mineral wool
- Internal surface of the unit is completely smooth
- Panel inside/outside Prepainted / Galvanized / Stainless steel A304
- Profile Aluminium, natural finish or anodized.
- Thermal break execution as an option.
- Robust base 150mm frame Galvanized or Stainless steel A304 with specific reinforced corners with lifting holes

- Easy installation, maintenance and cleaning
- Options to be suitable for hygienic applications : Hospitals / Farmaceutical industry / Food industry
- As drainable floor, withdrawable fan and silencer, internal stainless steel support...
- Fan available in double inlet forward, backward, airfoil blades or plug-fan and EC plug fan.
- As an option Single fan with double motor or double fan 100% with isolation dampers.
- Built-in control possibility

## Main applications

- Commercial
- Industrial
- Healthcare

## Options and available configurations

### Coils

Cu/Al, Cu/AlPr, Cu/Cu, Cu/CuSn, Fe/Al

- Water, direct expansion, steam and electric coils, housed in a separate section on slide rails. On request ARI certified coils.
- Coils are factory tested at 30 Bar by injecting with dry air while the coil is immersed in water.
- Electric coils are supplied with safety thermostat with manual reset.



### Recovery sections

- Heat recovery module available in R/A coils, cross flow, heat wheel, heat wheels and run around coils.

### Drain pans

- Condensate drain pans in aluminium or stainless steel and can be inclined to ensure complete drainage (option).



### Fan sections

- Fan sections include fan, electric motor, motor slide rail, belt driven transmission, base frame with anti-vibrating mounts, flexible connection on the fan outlet, earthing cable on the fan and motor base frame.
- Plug fan direct drive with AC motor and inverter or with EC motor.
- Fans are double inlet double width, DIN R20 series, available in:
  - Forward curved for low pressures
  - Backward curved for medium-high pressures
  - Backward curved airfoil blades for high efficiency and medium-high pressures.
- Motors are three phase asynchronous, closet construction with external fan, squirrel cage, horizontal shaft type B3, IP55 protection with F class insulation, IEC, CEI and UNEL approved. On request inverter motors, monophase, antispark, with bimetallic protection, with heater...
- Transmissions are V belts and pulleys type SPZ, SPA, SPB and SPC (fixed or variable pitch)
- Fans up to size 400 are mounted on rubber antivibration mounts and all other sizes are fitted with spring mounts.
- Attenuators, standard or envelopped.



### Safety devices

- Motors are fitted on belt tensioning skid provided with manual adjustment. Transmission is achieved by V-belt and pulleys
- Empty sections
- Mixing box with external or internal damper
- 3-way in line mixing box external or internal damper
- Roof (aluminium alloy perimetral rain shelter suitable for outdoor unit application, with PVC joints covers and man-safe covers on the angles)

### Inspection doors

- with nylon hinges and handles optionally supplied with inner handle and keyed lock. Doors can be supplied with dual well sight glass made of polycarbonate along with bulk light bulb.

### Dampers

- aluminium airfoil shaped provided with nylon gears optionally supplied with manual operated control or suitable linkages for motorized control application



### Flexible connections

- DIN certified

### Filters G3 → H14:

- Medium efficiency flat filters
- Medium efficiency bag filters (loose or rigid)
- Medium efficiency roll filters
- High efficiency bag filters (loose or rigid)
- High efficiency rigid bag filters
- HEPA filters
- Activated carbon filters

### Droplet eliminators, in several materials

- Drain pan : Peraluman
- Droplet eliminator : Polypropylene or Aluminum or SS304 or Galvanized steel

### Humidifiers

- adiabatic, recirculated, steam generators, atomized water, air washers with single or twin spray nozzle bank.

### Gas fired burner

- Available with as standard with CIB unigaz or WEISHAAPT burner, for gas and fuel.

### Built-in control

- This range can be delivered with full control managed by CAREL controller – with communication possibility in common protocols : ModBus<sup>®</sup>, BACnet<sup>®</sup>, LonWorks<sup>®</sup>, TCP/IP – SNMP, TREND