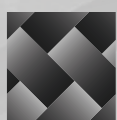




Composite Air Handling Units **INDUSTRY**



LIBERTY
Composite Air Handling Units

Our strength, your benefit

ADVANTAGES

- **Corrosion free**
long lifespan low maintenance
- **Low weight**
no heavy roof construction needed
- **Hygienic**
easy (chemical) cleaning
- **Eurovent certified**
reliable specifications
- **Professional team**
quick and effective support
- **Outstanding EN1886 performance**
energy efficient

Thermal transmittance	T1
Thermal bridging	TB1
Mechanical strength	D1
Casing air leakage	L1
Filter bypass leakage	F9

UNIQUE FEATURES

- **Removable panels and inspection hatches**
with composite/stainless steel latches.
- **Withdrawable components**
like heating coils, dampers and cross flow plate heat exchangers.
- **Outdoor units equipped with PVC roof covering**
and fitted with plastic intake and discharge grids with built-in polypropylene droplet eliminators.
- **Smooth inner walls with PET foil finishing**
easy to clean and resistant to excessive corrosive environmental conditions.
- **PU - hard foam thermal insulation 70 mm**
excellent thermal performance (T1-TB1).
- **Composite corrosion free framework**
rigid base frame



Hygiene factors

- Perfectly smooth inner- and outer wall casing construction (VDI 6022 guideline).
- Long lasting double sealing on panels, doors and hatches (VDI 6022 guideline)
- Lockable lift and turn latches with hidden pawl inserted in doors and hatches (VDI 3803 guideline).
- Minimal risk of surface condensation on casing construction (only in case of extremely high relative humidity). No moisture accumulation on unwanted locations (VDI 6022 guideline).

Replacement market

- One piece delivery of air handling units (for outdoor installation) up to 12 m length possible with heat recovery for volume flows up to 70.000 m³/h.
- Plug and play delivery with integrated controls and pre-assembled cabling.
- In consequence, replacement of existing air handling unit feasible with scheduled maintenance stop.
- Air handling units deliverable in sections or in one part. On site assembly of flat pack delivery optional in case of hard-to-reach locations.





Corrosion resistance

- Corrosion on casing construction absolutely impossible.
- All fasteners in stainless steel AISI 304/316 (internal/external).
- Standard casing construction suitable for application in corrosive environment; classified C5 according to ISO 12944-2.
- Wet cleaning with detergent solution permissible.
- No permanent construction damage in case of excessive water exposure caused by calamities.
- Corrosion resistant casing results in extended maintenance intervals, less mean time to repair and less down time.



Weatherproof and UV-resistant casing, consisting of a composite frame construction and fibre reinforced panels with gel-coat top layer.



Fully closed vapour tight panel with durable double sealing, prevents penetration of moisture (VDI 6022 guideline).



Cold bridge free locks, concealed in the panel with overpressure protection and key operation (VDI 3803 guideline).



Filter frames (stainless steel -AISI 316- and galvanised) with durable, water-repellent sealing (VDI 6022 & VDI 3803 guideline). Filter frames suitable for filter types up to filter class F9 (EN 1886).



Installation of tailor made (corrosion protected) coils from any coil supplier at customers' request.



Completely accessible drain pan under cooling coil can be fully and easily cleaned.



Corrosion protected plate heat exchanger (on demand) with epoxy coated drip tray.



Front withdrawable compact filters on customer request.





We deliver for
example to:

PHILIPS



Current reference projects: www.liberty-ahu.com/projects

SWIMMINGPOOL



INDUSTRY



HEALTH CARE



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