

- Non residential
- R-COVERY by MANDIK
- 500-100.000 m³/h
- Horizontal/Vertical
- Heat recovery unit with efficiency ≥ 75%



Modular Air Handling Units type C-MAN

EUROVENT certified modular air handling units from Mandik with the following basic functions: heating, cooling, filtering, humidification, dehumidification and heat recovery.

There are 4 series of modular groups available: Square (M series) / Flat (P series) / Rectangular (T series) and Dynamic design (series fully customized per 1mm step). These are all available in different sizes with a range from 500 m³/h to 100.000 m³/h. All equipped with excellent thermal and acoustic insulation.

Each group can be made according to the individual demand of the customer. The modular air groups are tested in accordance with NBN EN 308 in the standard version TB1/T2, in order to be EPBD-PEB approved. We hope to finalize these tests before the summer period.

Brand

- R-COVERY by MANDIK

Application

- Air handling for commercial and industrial applications
- Air Filtration (filters G4 Coarse 65% ISO 16890 - M5 ePM10 60% ISO16890 - F7 ePM1 60% ISO16890 - F9 ePM1 90% ISO16890, ...)
- Heating (H2O - DX - STEAM)
- Cooling (H2O - DX)
- Heat recovery (plate heat exchanger - rotary heat exchanger - glycol batteries)
- Suitable for indoor and outdoor installation
- Swimming pools
- Hygienic applications
- Adiabatic Applications
- Humidification
- Dehumidification

Composition

- Double skinned panels: 0,8mm thickness
- Frameless sandwich panels
- Insulation: mineral wool 50mm - density 50kg/m³ - fire protection class A1
- Outer panel: powder coated galvanized steel - RAL 9007 grey aluminium
- Inner panel: aluzinc 185 (C4)
- Rubber seals
- Hinged access doors with locking handles with overpressure protection
- Aluminium counterflow heat exchanger or rotor (condensation, hygroscopic, enthalpy or sorption wheel) or glycol batteries

Optional:

- Inspection windows with or without light

- Protection by epoxy coating
- Adjustable support frame
- Connections to the outside
- Roof and rain canopy for outside installation
- Panels and frames available in stainless steel 304 / stainless steel 316 / powder coating / aluzinc 185 C4

Specifications

- With (built-in, externally on the housing or at a distance) or without regulation
- Software: AHUman

Fan

- Fan mounted on a chassis with rubber anti-vibration mounts
- Different types of fans available: centrifugal fan belt driven with forward or backward curved impeller, direct-driven with AC or EC motor - Fan Walls

Filter

- Mounted on rails with clips or on in a sliding rail system
- Pre, fine, absolute and active carbon filters
- Filter indication by pressure measurement

Certification

- Eurovent tested (TÜV SUD) according to EN 1886

Mandik - Standard version C-MAN - TB1/T2 (will be tested for EPBD-PEB)

- Mechanical strength: D1
- Air tightness: L1(-400 Pa) / L1(+700 Pa)
- Thermal insulation: T2
- Thermal bridge: TB2
- Filter bypass leakage class: F9
- Insulation 50mm mineral wool - fire protection class A1

Mandik - High-end version C-MAN - TB1/T1 (not tested for EPBD-PEB – selection on request)

- Mechanical strength: D1
- Air tightness: L2
- Thermal insulation: T1
- Thermal bridge: TB1
- Filter bypass leakage class: F9
- Insulation 100mm mineral wool - fire protection class A1

Mandik - Industry version -TB2/T3 (not tested for EPBD-PEB – selection on request)

- Mechanical strength: D1
- Air tightness: L1(-400 Pa) / L1(+700 Pa)
- Thermal insulation: T3
- Thermal bridge: TB2
- Filter bypass leakage class: F9
- Insulation 50mm mineral wool - fire protection class A1

Selection curves

M Unit size according to filters

1,2 m/s W: 391 mm H: 3967 mm	0,6 m/s W: 696 mm H: 3967 mm	0,4 m/s W: 984 mm H: 3967 mm	0,3 m/s W: 1289 mm H: 3967 mm	0,2 m/s W: 1577 mm H: 3967 mm	0,2 m/s W: 1882 mm H: 3967 mm	0,2 m/s W: 2170 mm H: 3967 mm	0,2 m/s W: 2475 mm H: 3967 mm	0,1 m/s W: 2763 mm H: 3967 mm	0,1 m/s W: 3068 mm H: 3967 mm	0,1 m/s W: 3356 mm H: 3967 mm	0,1 m/s W: 3661 mm H: 3967 mm
1,3 m/s W: 391 mm H: 3693 mm	0,6 m/s W: 696 mm H: 3693 mm	0,4 m/s W: 984 mm H: 3693 mm	0,3 m/s W: 1289 mm H: 3693 mm	0,3 m/s W: 1577 mm H: 3693 mm	0,2 m/s W: 1882 mm H: 3693 mm	0,2 m/s W: 2170 mm H: 3693 mm	0,2 m/s W: 2475 mm H: 3693 mm	0,1 m/s W: 2763 mm H: 3693 mm	0,1 m/s W: 3068 mm H: 3693 mm	0,1 m/s W: 3356 mm H: 3693 mm	0,1 m/s W: 3661 mm H: 3693 mm
1,5 m/s W: 391 mm H: 3388 mm	0,7 m/s W: 696 mm H: 3388 mm	0,5 m/s W: 984 mm H: 3388 mm	0,4 m/s W: 1289 mm H: 3388 mm	0,3 m/s W: 1577 mm H: 3388 mm	0,2 m/s W: 1882 mm H: 3388 mm	0,2 m/s W: 2170 mm H: 3388 mm	0,2 m/s W: 2475 mm H: 3388 mm	0,2 m/s W: 2763 mm H: 3388 mm	0,1 m/s W: 3068 mm H: 3388 mm	0,1 m/s W: 3356 mm H: 3388 mm	0,1 m/s W: 3661 mm H: 3388 mm
1,6 m/s W: 391 mm H: 3094 mm	0,8 m/s W: 696 mm H: 3094 mm	0,5 m/s W: 984 mm H: 3094 mm	0,4 m/s W: 1289 mm H: 3094 mm	0,3 m/s W: 1577 mm H: 3094 mm	0,3 m/s W: 1882 mm H: 3094 mm	0,2 m/s W: 2170 mm H: 3094 mm	0,2 m/s W: 2475 mm H: 3094 mm	0,2 m/s W: 2763 mm H: 3094 mm	0,2 m/s W: 3068 mm H: 3094 mm	0,1 m/s W: 3356 mm H: 3094 mm	0,1 m/s W: 3661 mm H: 3094 mm
1,8 m/s W: 391 mm H: 2789 mm	0,9 m/s W: 696 mm H: 2789 mm	0,6 m/s W: 984 mm H: 2789 mm	0,4 m/s W: 1289 mm H: 2789 mm	0,3 m/s W: 1577 mm H: 2789 mm	0,3 m/s W: 1882 mm H: 2789 mm	0,2 m/s W: 2170 mm H: 2789 mm	0,2 m/s W: 2475 mm H: 2789 mm	0,2 m/s W: 2763 mm H: 2789 mm	0,2 m/s W: 3068 mm H: 2789 mm	0,2 m/s W: 3356 mm H: 2789 mm	0,1 m/s W: 3661 mm H: 2789 mm
2 m/s W: 391 mm H: 2495 mm	1 m/s W: 696 mm H: 2495 mm	0,7 m/s W: 984 mm H: 2495 mm	0,5 m/s W: 1289 mm H: 2495 mm	0,4 m/s W: 1577 mm H: 2495 mm	0,3 m/s W: 1882 mm H: 2495 mm	0,3 m/s W: 2170 mm H: 2495 mm	0,2 m/s W: 2475 mm H: 2495 mm	0,2 m/s W: 2763 mm H: 2495 mm	0,2 m/s W: 3068 mm H: 2495 mm	0,2 m/s W: 3356 mm H: 2495 mm	0,2 m/s W: 3661 mm H: 2495 mm
2,3 m/s W: 391 mm H: 2190 mm	1,1 m/s W: 696 mm H: 2190 mm	0,8 m/s W: 984 mm H: 2190 mm	0,6 m/s W: 1289 mm H: 2190 mm	0,4 m/s W: 1577 mm H: 2190 mm	0,4 m/s W: 1882 mm H: 2190 mm	0,3 m/s W: 2170 mm H: 2190 mm	0,3 m/s W: 2475 mm H: 2190 mm	0,2 m/s W: 2763 mm H: 2190 mm	0,2 m/s W: 3068 mm H: 2190 mm	0,2 m/s W: 3356 mm H: 2190 mm	0,2 m/s W: 3661 mm H: 2190 mm
2,7 m/s W: 391 mm H: 1896 mm	1,3 m/s W: 696 mm H: 1896 mm	0,9 m/s W: 984 mm H: 1896 mm	0,7 m/s W: 1289 mm H: 1896 mm	0,5 m/s W: 1577 mm H: 1896 mm	0,4 m/s W: 1882 mm H: 1896 mm	0,4 m/s W: 2170 mm H: 1896 mm	0,3 m/s W: 2475 mm H: 1896 mm	0,3 m/s W: 2763 mm H: 1896 mm	0,3 m/s W: 3068 mm H: 1896 mm	0,2 m/s W: 3356 mm H: 1896 mm	0,2 m/s W: 3661 mm H: 1896 mm
3,2 m/s W: 391 mm H: 1591 mm	1,6 m/s W: 696 mm H: 1591 mm	1,1 m/s W: 984 mm H: 1591 mm	0,8 m/s W: 1289 mm H: 1591 mm	0,6 m/s W: 1577 mm H: 1591 mm	0,5 m/s W: 1882 mm H: 1591 mm	0,5 m/s W: 2170 mm H: 1591 mm	0,4 m/s W: 2475 mm H: 1591 mm	0,3 m/s W: 2763 mm H: 1591 mm	0,3 m/s W: 3068 mm H: 1591 mm	0,3 m/s W: 3356 mm H: 1591 mm	0,3 m/s W: 3661 mm H: 1591 mm
4 m/s W: 391 mm H: 1297 mm	1,9 m/s W: 696 mm H: 1297 mm	1,3 m/s W: 984 mm H: 1297 mm	1 m/s W: 1289 mm H: 1297 mm	0,8 m/s W: 1577 mm H: 1297 mm	0,7 m/s W: 1882 mm H: 1297 mm	0,6 m/s W: 2170 mm H: 1297 mm	0,5 m/s W: 2475 mm H: 1297 mm	0,4 m/s W: 2763 mm H: 1297 mm	0,4 m/s W: 3068 mm H: 1297 mm	0,4 m/s W: 3356 mm H: 1297 mm	0,3 m/s W: 3661 mm H: 1297 mm
5,4 m/s W: 391 mm H: 992 mm	2,6 m/s W: 696 mm H: 992 mm	1,8 m/s W: 984 mm H: 992 mm	1,3 m/s W: 1289 mm H: 992 mm	1,1 m/s W: 1577 mm H: 992 mm	0,9 m/s W: 1882 mm H: 992 mm	0,8 m/s W: 2170 mm H: 992 mm	0,7 m/s W: 2475 mm H: 992 mm	0,6 m/s W: 2763 mm H: 992 mm	0,5 m/s W: 3068 mm H: 992 mm	0,5 m/s W: 3356 mm H: 992 mm	0,4 m/s W: 3661 mm H: 992 mm
8 m/s W: 391 mm H: 698 mm	3,9 m/s W: 696 mm H: 698 mm	2,6 m/s W: 984 mm H: 698 mm	2 m/s W: 1289 mm H: 698 mm	1,6 m/s W: 1577 mm H: 698 mm	1,3 m/s W: 1882 mm H: 698 mm	1,1 m/s W: 2170 mm H: 698 mm	1 m/s W: 2475 mm H: 698 mm	0,9 m/s W: 2763 mm H: 698 mm	0,8 m/s W: 3068 mm H: 698 mm	0,7 m/s W: 3356 mm H: 698 mm	0,7 m/s W: 3661 mm H: 698 mm
16,3 m/s W: 391 mm H: 393 mm	8 m/s W: 696 mm H: 393 mm	5,4 m/s W: 984 mm H: 393 mm	4 m/s W: 1289 mm H: 393 mm	3,2 m/s W: 1577 mm H: 393 mm	2,7 m/s W: 1882 mm H: 393 mm	2,3 m/s W: 2170 mm H: 393 mm	2 m/s W: 2475 mm H: 393 mm	1,8 m/s W: 2763 mm H: 393 mm	1,6 m/s W: 3068 mm H: 393 mm	1,5 m/s W: 3356 mm H: 393 mm	1,3 m/s W: 3661 mm H: 393 mm

Make adjustments

Back

Prices

Prices, selections and technical specifications are available on demand

Controller

Project

Back V Add a device V Remove device Print device Exports Proper unit description

Construction Control Accessories summary transport

Fans and motors Unit adjustments Edit section V Delete section Proper section description

view Conjunction

front view top view perspective view V on the left on the right

display

01 - showroom - front view

Fan Water cooler Heat pump

Filter Direct evaporator

Sound attenuator Plate recuperator

Water heater Rotary recuperator

Electric heater Empty section

Gas and oil heater Damper section

Heater-Condenser Terminal panel

Steam heater Steam humidifier

1620
1500
750

Unit dimensions (LxWxH): 4034 x 750 x 1620 mm, weight

01 showroom

Open project V Save project V Project - print CAIROX send e-mail