Klimalco®
climate experience

Air Handling Units

Air Volume : 1.000 to 80.000 m³/h

MDK

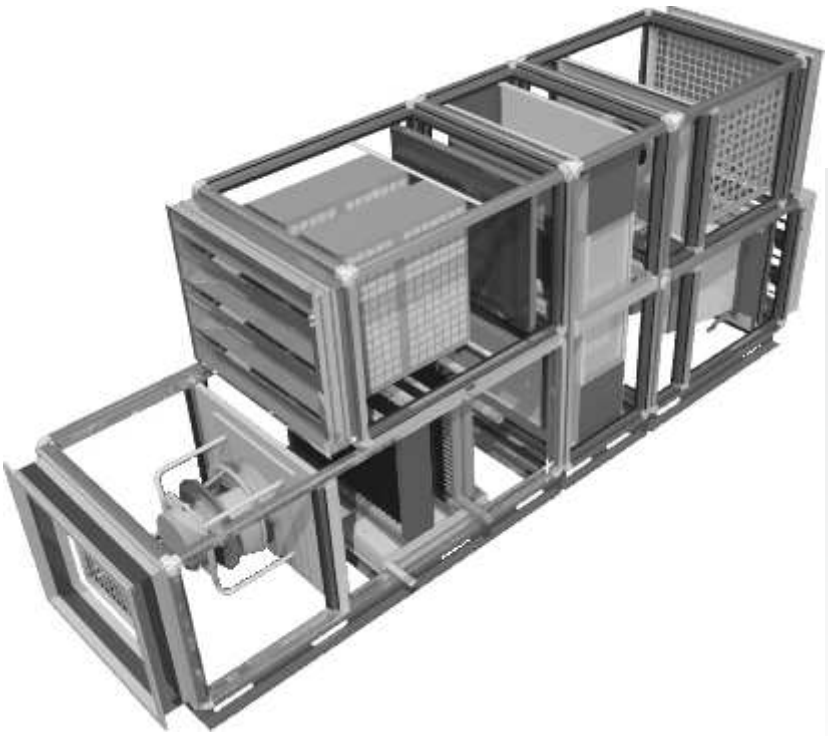
EUROVENT CERTIFIED PERFORMANCE
AHU N° 15.10.007
Range MDK
www.eurovent-certification.com

Indoor or Outdoor Installation

Klimalco sa Air Treatment Experts

2024

Contents



This extensive Air Handling Units MDK series are ideal combination with Klimallco air/water cooled chillers, heat pumps, condensing units and district cooling applications.

For air conditioning residences, offices, shops or any other commercial and industrial application were air conditions are required.

1. General Description

Air Handling Units

MDK

MDK range 1.000 to 80.000 m³/h

Best value for money in the market

Competence

Klimallco MDK series Air Handling Units are the result of 25 years experience of it's engineers in the field of air treatment in almost every market in the world. Klimallco air handling units are successfully in operation in any conceivable climmatic condition from -30 °C to +50 °C and from 5% to 99% relative humidity.

Description

The current MDK line incorporates all knowledge accumulated over the years and offers the best value for money in the market. MDK series is a multi-functional air management system that can move, cool, heat, humidify and clean air to the desirable conditions, regarding temperature, humidity and filtration. A vast range of components can be fitted in a precision manufactures modular casing, offering complete air tightness and a high degree of performance.

2. Technical Description

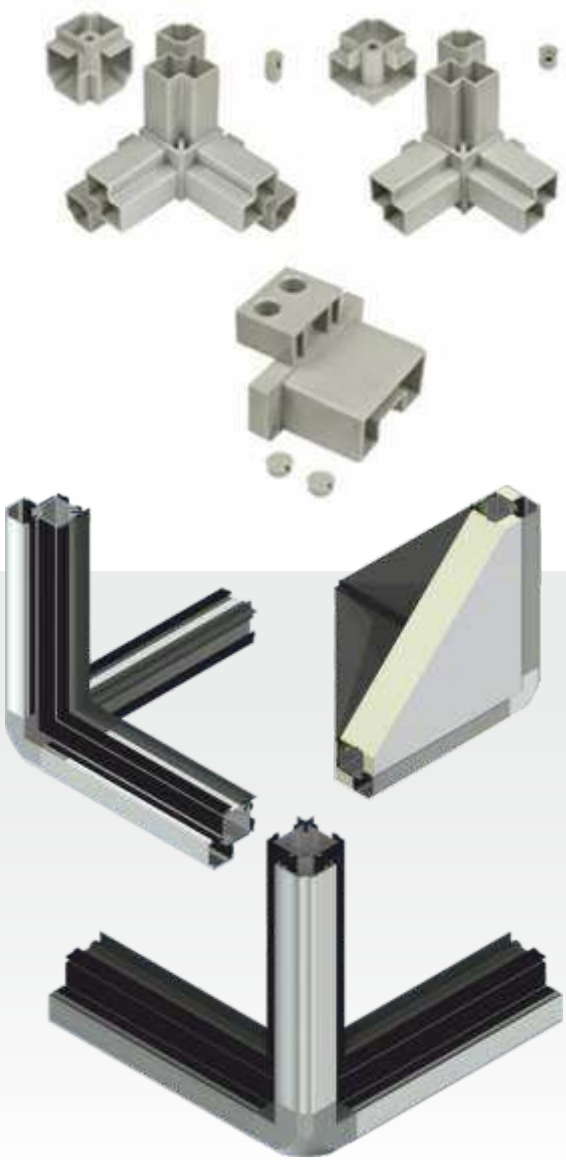
General

The MDK series air handling units consists of 23 models covering air volume from 1,000 up to 80,000 m^3/h. It is the end result of a thorough study, and accurate design by experienced Klimallco research and development teams, to develop a wide range of air handling units with compact shape, high performance, and reliability of quality standards. This series the highest levels of aesthetic and technical requirements using the latest technological innovations including environmentally friendly material. Units are therefore ideal for installation in urban environments due to their elegant design, selected materials and low operating sound levels, thermal insulation and energy efficiency.

2.1 Casing Frame

The casing frame is constructed of heavy extruded Aluminum profiles with Thermal bridging factor **TB2** / **TB3**, jointed together by means of special corner pieces made of solar radiation resistant glass reinforced polyamide, of excellent mechanical chararacteristics. The profiles are fixed on the corner pieces via galvanized alien head screws, that are completely hidden, thus creating an aesthetically perfect box. The profiles themselves are thermally insulated, built in tow pieces join means of synthetic bars. Thus any metal contact and therefore heat transfer between the internal part of the unit and the environment is completely blocked. Air tightness is ensured by a double gasket system. The internal gasket profile is inserted in the profile though a special slot and the internal part of the panels are thus completely isolated. Another external EPDM gasket is used where panels are fixed on the casing. This double gasket system has been designed for both positive and negative pressures in the unit. Three different types of profiles are used, one at the unit length and ends, one at the boxes junction and finally a panel separating omega profile for lengthy boxes. The internal surface of the unit is completely flat and very easy to clean. There are no internal frames or other projections

The panels are of the double wall type. A special synthetic EPDM profile completely insulates the external and the internal panel walls, so that there is no metallic contact between them. This means that the internal panel wall cannot thermally affect the external wall. The insulation thickness is 50 mm / 60 mm (depending on insulation type and construction) as standard. Thus perfect thermal and acoustical performance is achieved.

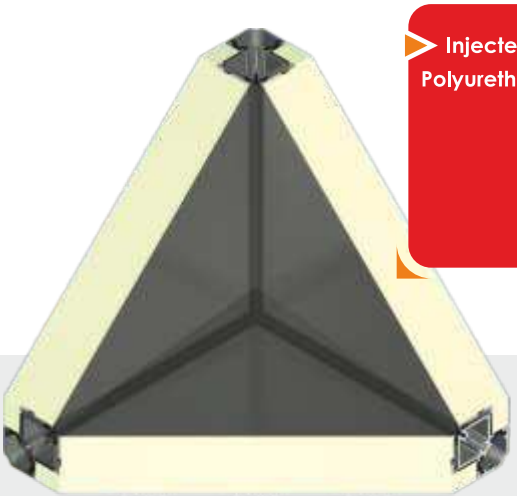


2.2 Panels

Standard panels are fabricated from heavy guage galvanized steed sheets, with thickness 0.6, 1.0mm (depends to insulation material) to ensure maximum rigidity that guarantees and preserves the units operation during the years. After fabrically powder coated with an epoxypolyester RAL 7042 coating of thickness 60 p. This fully automatic process ensures superior corrosion resistance against the most aggressive ambient conditions. The treatment successfully withstand a salt spray test of 500 hours, according to ASTM B-l 17. This coating is applied on external panel or upon request can be on both internal and external sides panels. Panels can also be manufactured of stainless steel SS306 or SS316 for one side or both sides panels. The panels are fixed on the profiles by sheet metal screws, inserted on predrilled holes. The screws are guided by means of a synthetic well and closed by removable synthetic caps, which prevent the metallic contact between the screws and the panels.

2.3 Insulation

Klimallco air handling units have 2 different types of insulation material.



Injected and expanded Polyurethane

The insulation thickness is 50mm / 60mm depending on the construction type and insulation media.

Mineral Wool

2.4 Base Frame

The base frame consist of heavy steel base electrostatically powder coated with an epoxy-polyester coating and 100, 150, 200, 300 mm height is provided as standard to facilitate unit lifting, installation and leveling. Different base height available upon request as optional.

2.5 Door Panels

Where frequent access to the internal components of the unit is required, door panels are provided. The construction is similar to the standard fixed panels. The doors are equipped with handles and hinges to permit quick opening and access. The handles are installed on the door panel and are functioning externally, by means of a special latch installed on the profiles. Thus the door panels are positively pressed on the frame and there is no piercing of the door that could create air leakages. Upon request, the handles can be equipped with a key lock, thus avoiding interference with the internal parts of the units by unauthorized persons.

2.6 Handlers

The handlers are made of nylon high quality handle, with or without key, suitable for external use, with die casted extruded epoxy coated aluminum base and latch to ensures superior corrosion resistance against the most aggressive ambient conditions.

The hinges are made of die casted extruded aluminum epoxy coated to ensures superior corrosion resistance against the most aggressive ambient conditions. Also upon request a double glazed polycarbonate inspection window can be installed on the doors and other panels, internal inspection lamps with external switch can be provided to the fan and filter sections.

2.7 Ducting Connectors

Upon request all ducting connectors can be provided with flexible connections in plasticized fabric with galvanized flanges complete corners holes. The flanges can be made also from Stainless steel SS304 or SS316.

2.8 Mixing Box

The mixing box section single or double is equipped with opposed action dampers of various sizes for the fresh air, return air and exhaust air, that can be linked together or operate independently.

The damper system permits the use of 100% fresh air with 100% exhaust air or, any other percentage combination of fresh /exhaust air. Dampers are opposed action, activated by means of special tooth-gear, made of glass-reinforced nylon, having high mechanical strength and limitless life duration.

Blade bearings are of the same material and no lubrication is required. Operation is simple, smooth and precise, permitting linear regulation. Damper blades are made of aluminum extrusion aerofoil shape and incorporate «Neoprene» gaskets to the edges and ends to maintain tight closure in closed position. Links and provided for either manual or motorized operation.

2.9 Fans

Can be equipped either with centrifugal fans of double width (DIDW) or with free flow plug fans.

Centrifugal Fans

The centrifugal fans can be either low pressure type with forward blades or high pressure type with backward curved blades or aerofoil curved blades. All centrifugal fans are available with frame R, K, K1 and K2 types according to the operation static pressure. All fans impellers are statically and dynamically balanced accoding to ISO1940, thus eliminating any possibility of vibration. All fan supplied in Klimallco MDK series are tested in a registred laboratory in accordance with ANSI/AMCA 210 laboratory Methods of Testing Fans for Rating and AMCA 300 Reverberant Room Method for Sound Testing of Fans.

Transmission is effected via V-belts and pulleys with taper lock bushing, adjustable pulleys up to size 180 mm can be supplied upon request. The Fan/Motor assembly is elastically suspended inside the unit, either by RIS or Spring type vibration isolators, thus eliminating the need of external isolators.

Different fan positions are available depend on the requirements. The fan outlet is connected to the unit panel by means of plasticized fabric, to avoid any transmission of vibration to the panel.

Free Flow Fans

The use of free flow fans (Plug Fans) in air handling units offers the following major advantages:

- Energy saving, since the overall efficiency of the system is higher.
- Possibility to monitor the airflow with precision, in combination with frequency inverters and the central building management system.

- Unobstructed and uniform internal unit flow, which lead to a better performance of inside components such as coil and filters. In addition, the absence of pulleys has a positive effect on flow uniformity. Klimallco possessing the necessary expertise and knowhow for this type of application, can offer complete built in control panel.

Radial Fan Modules
(EC Motor Fans)

Single inlet; direct drive; high-performance radial impeller with circu-mferential diffuser mounted on an electronically commutated external-rotor motor with integrated control electronics; radial impeller made of aluminum with backward curved, continuously welded blades, aerodynamically optimized inlet nozzle with bleeder connection for pressure relief made of zinc-coated sheet steel; complete unit statically and dynamically balanced in two planes as per DIN / ISO 1940 to balancing grade G 6.3; EC external-rotor motor, efficiency class IE4 without "rare earth" magnets being used, with maintenance-free ball bearings and permanent lubrication; nominal lifetime 40,000 operating hours; wide voltage input 1-200- 277 V, 50/60 respectively 3-380-480 V, 50/60 Hz; unit can be operated on all standard Electricity Board networks at identical air performance; optimized motor technology; soft start; integrated current limitation; connection via brought-out variable cable connector (motor size 084) or easy- to-mount and robust integrated terminal box made of aluminum extremely compact electronics; with adjustable PID controller meets all relevant EMC directives and all requirements as to circuit feedbacks; requires no complicated installation with shielded cables; very low-noise commutation logic; 100 % speed-controllable. Motors with an output of 750W or higher have an RS485/MODBUS RTU interface. Any potentially necessary constructional measures for structure-borne sound insulation have to be provided by customers.

In all fan sections, in addition to the service door, Klimallco offers as standard a second safety door with net screen, to eliminate the use of a belt guard and avoid unauthorized people touching moving parts.

Optional: Modules with increased corrosion protection.

2.10 Coils

The coils for our MDK series air handling units are fabricated of 3/8' & 5/8"'OD copper tubes. Finned surface is available in either copper or aluminum, epoxy coated aluminum or treated with blygold. and all joints are made using high temperature alloys for extra reliability. All coils featuring the new corrugated finned surface have tubes mechanically expanded into continuous fins with results in positive fin and tube contact for maximum heat transfer.

The coil casings as standard are made of galvanized steel, upon request a stainless steel or aluminum casing can be provided. Coil headers are fabricated from copper or steel. Headers are painted with anticorrosion paint as standard.

All coils are tested at 30 Bar and can be provided for water operation pressure up to 10 bars.

2.11 Drain Tray

Condensation drain trays are special designed inclined towards the service unit side outlet. Providing continuous and complete condensate water drain age. Drain tray is equipped with special rails so all components above it as coils , eliminators can be drawn out and are attached so as to pursuit removal for maintenance and cleaning.

Drain tray is made of heavy duty galvanized steel or stainless steel and can be electrostatically powder coated by epoxy polyester coating. Drain tray is additional externally insulated by close cell material of 5mm depth avoiding any internal condensation. The Inlet and outlet coil connections, as well as the drain connection, are sealed on the casing with heavy duty EPDM sealing gaskets.

2.12 Electrical Heater Coils

Electrical heater coils are dimensioned for maximum filament density of 11 W/cm. All electrical heater coils are complete with safety thermostat, manual reset, differential air pressure switch and all necessary electrical components such as step contactors and main circuit breaker, which can be wired by the installer by connecting the appropriate terminal on the coil connection.

2.13 Droplet Eliminators

The droplet eliminator blades are made of special shaped extruded polypropylene profiles to secure drop elimination even in high air velocities and they are permanently fixed through spacers on a on a rigid, galvanized steel, galvanized steel electrostatically powder coated with an epoxy-polyester coating of thickness 60 μ or with stainless steel SS304 or SS316.

2.14 Plate Heat Exchanger

The plate heat exchanger is constructed of rectangular corrugated aluminum Plates, arranged to form passages between them. Alternate passages carry hot medium and cold medium. The direction of flow in two adjacent passages is at right angle to each other.

The framework is also be constructed of aluminum or epoxy coated aluminum, a face and bypass damper can be added on the plate heat exchanger upon request. A condensate drain pan, which made of galvanized steel, galvanized steel electrostatically powder coated with an epoxy-polyester coating of thickness 60 μ or with stainless steel SS304 or SS316 can be supplied upon request.

2.15 Rotary Heat Exchanger

The rotary heat exchanger consists of a thermal wheel that rotates at slow speed and transfers heat from the fresh air to exhaust air during cooling cycle and from exhaust air to the fresh air during heat cycle. The thermal wheel foils are made of aluminum and available in 5 different options Aluminum, epoxy coated aluminum for sensible heat transfer and Aluminum hygroscopic chemically treated, Aluminum absorption type is an enthalpy transferring material of high quality. The material consists of an aluminum core with a silica gel based coating or molecular sieve based coating that has a high moisture transfer capability for sensible and latent heat transfer, where the effectiveness reach up to 80% for sensible and latent heat. The drive unit consists of a geared electric motor and chain drive with provision for chain tensioning. One side of the casing will be provided with a removable access panel, for withdrawal of the wheel and the maintenance of the motor.

temperature alloys for extra reliability. All coils featuring the louver or ripple finned surface have tubes mechanically expanded into continuous fins with results in positive fin and tube contact for maximum heat transfer. Each heat pipe will be placed on condensate drain pan, which made of galvanized steel, galvanized steel electrostatically powder coated with an epoxy-polyester coating of thickness 60 μ or with stainless steel SS304 or SS316 can be supplied upon request.

2.18 Metal type Panel Filter

The air handling units can be provided with a panel filter metal type in flat arrangement, with face velocity equal to the coil velocity. or in a high capacity «W» pattern arrangement with face velocity almost half of the coil velocity this type of filters is made of synthetic material, the increased filter area found in the «W» pattern extends the life of the filter and reduces resistance to air flow. In both cases, a standard framework of galvanized steel is provided and upon request a framework made of galvanized steel electrostatically powder coated with an epoxy-polyester coating of thickness 60 μ or with stainless steel SS304 or SS316 can be supplied. In the filter section, to guide and hold the cassette type filter in position. The filters are available in media class G2, G3 and G4.

The filters are of the cassette type, 48 mm depth or 98mm upon request disposable, medium efficiency, consisting of a pleated media pack enclosed in a metal frame. A wire grid to maintain the uniform shape of the pleats, to ensure proper airflow and dust loading at rated filter velocity, supports the media. The media tested in accordance with ASHRAE Standards 52 - 76 and have average arrestance of 85 to 90% or EN 7179 - DIN 53438.

2.19 Bag Filters

Welded bag filters for the dust particles with a standard framework of galvanized steel is provided and upon request a framework made of galvanized steel electrostatically powder coated with an epoxy-polyester coating of thickness 60 μ or with stainless steel SS304 or SS316 can be supplied. the media is made of synthetic fiber classes of F7, F8 and F9. The midea depth is 380 or 535 mm other depth can be supplied upon request. The media tested in accordance with ASHRAE Standards 52 - 76 and have average arrestance of 85 to 95%.

For the installation of bag filters, Klimallco has developed a special holding frame that permits the Bag filter to slide in and out easily, something extremely practical for service or replacement purposes. Further,

through a special tightening device on the holding frame, the filters are pressed on the frame, to achieve proper fit and avoid leakages.

2.20 Other Filter Types

Other filter types, such as HEPA, H10, H13, and H14. Modules of cylindrical cartridges of active carbon. Roll with drive motor, etc., can be supplied. For these special types of filters, suitable frame arrangements are available.

2.21 Humidifier Sections

Electrical Steam Humidifier

Humidifier sections for steam or laminar humidifier are available in standard construction, since air washer can be produced upon request. The exact position and relative length of steam distributors has been already designed for all models, depending on steam capacity and they can be either of aluminum or stainless steel. Laminar humidifier are completed with cooling pads made of high water retaining, non foxic cellulose, water pump, piping network made of PVC pipes, with bleed-off arrangement and floating value for the water inlet. Frame construction is of stainless steel and the operation is based on the evaporative cooling principle.

Air Washers

2.22 Splitter Attenuators

Splitter attenuators can be manufactured in unlimited size range to handle any airflow requirement at given air pressure drop and insertion loss. They are supplied in double skin sections sized to fit the corresponding air handling unit or, as a ducted type with flanges for duct connection. The splitters consist of a galvanized steel frame work incorporating acoustically optimized in fill. The acoustic infill is covered by a glass fiber cloth as protection against erosion and additionally protected by a perforated sheet metal cover. The splitters are fitted with curve leading ends to minimize air pressure loss and regenerated noise associated with flat-ended splitters.

SOUND ATTENUATOR SECTION LENGTH FOR ATTENUATION AT 250 Hz (db)							
	14	19	25	30	34	39	44
L1	1171	1477	1783	2089	2395	2701	3007
L2	712	1018	1324	1630	1936	2242	2548

2.23 Fan Motors

Three phase asynchronous low Voltage motors with sguizzel cage , totally enclosed IP 55 fan cooled, TEFC type, insulation class F, with build in PTC thermistor, high energy efficiency IE2 class . All motors are suitable for variable frequency inverter (VFI) at 50 and 60 Hz operational range and comply with all relevant international standards and specifications such as DIN, EN, IEC, VDE.

Upon request motors can be:

- multi speed,
- specific voltage,
- rated IP 56 and IP 65 ,
- ATEX regulation motors,
- Premium efficiency IE3 or super premium efficiency IE4

Each fan motor can be supplied with variable frequency inverter for controlling the rotational speed of electrical motor by controlling the frequency of the electical power supplied to the motor. The variable frequency motors on fans save energy by allowing the volume of air moved to match the system demand.

2.24 Controls

MDK series can be equipped with touch control upon request. The graphic terminals are TFT touchscreen displays designed to make user interface simple and intuitive. Available in numerous different versions in terms of screen size (4.3", 7", 10" and 13") and level of connectivity (with or without Ethernet port).

The electronics used, allow management of high resolution images and advanced functions to achieve a high aesthetic standard. The touchscreen panel allows highly simple, intuitive and attractive interfaces to be developed, as well as simplifying human-machine interaction, making browsing the screens much easier.

UNIT SIZE			Fan Section With Double Inlet Centrigugal Fan	Fan Section With Plug Fan	Coil Section			Coil Section With Filter			Electrical Heating Element	Simple Mixing Box	Horizontal Mixing Box	Vertical Mixing Box	Bag Filter + Panel Filter	Plate Heat Exchanger	Rotary Heat Exchanger	Laminar	Sound Attenuator	
MDK	H	W			3.1	3.2	3,3	3.1	3.2	3,3									L1	L2
051	508	712	1018	1018	712	1018	1324	865	1171	1477	712	406	865	559	1018	712	559	1324	1783	1324
071	465	865	1018	1018	712	1018	1324	865	1171	1477	712	406	865	559	1018	712	559	1324	1783	1324
101	610	712	1018	1018	712	1018	1324	865	1171	1477	712	406	865	559	1018	712	559	1324	1783	1324
102	712	712	1171	1171	712	1018	1324	865	1171	1477	712	406	865	559	1018	1018	559	1324	1783	1324
103	712	865	1171	1171	712	1018	1324	865	1171	1477	712	406	865	559	1018	1171	559	1324	1783	1324
104	865	865	1324	1171	712	1018	1324	865	1171	1477	712	406	865	559	1018	1171	559	1324	1783	1324
105	865	1018	1324	1171	712	1018	1324	865	1171	1477	712	406	865	559	1018	1171	559	1324	1783	1324
106	1018	1018	1477	1477	712	1018	1324	865	1171	1477	712	559	1171	712	1018	1324	559	1324	1783	1324
108	1018	1171	1477	1477	712	1018	1324	865	1171	1477	712	559	1171	712	1018	1324	559	1324	1783	1324
109	1171	1171	1630	1477	712	1018	1324	865	1171	1477	712	559	1171	712	1018	1324	559	1324	1783	1324
111	1171	1324	1630	1630	712	1018	1324	865	1171	1477	712	559	1171	712	1018	1783	559	1324	1783	1324
112	1324	1324	2089	1783	712	1018	1324	865	1171	1477	712	712	1477	865	1018	2089	559	1324	1783	1324
116	1324	1630	2089	1783	712	1018	1324	865	1171	1477	712	712	1477	865	1018	2089	559	1324	1783	1324
120	1630	1630	2089	1936	712	1018	1477	865	1171	1630	712	865	1783	1018	1018	2242	559	1324	1783	1324
124	1630	1936	2242	1936	712	1018	1477	865	1171	1630	712	865	1783	1018	1018	*	712	1324	1783	1324
130	1936	1936	2395	2089	712	1018	1477	865	1171	1630	712	1018	2089	1171	1018	*	712	1324	1783	1324
133	1630	2548	2395	2089	712	1018	1477	865	1171	1630	712	1018	2089	1171	1018	*	712	1324	1783	1324
135	1936	2242	2395	2089	712	1018	1477	865	1171	1630	712	1018	2089	1171	1018	*	712	1324	1783	1324
140	2242	2242	2548	2548	712	1018	1477	865	1171	1630	712	1171	2395	1324	1018	*	712	1324	1783	1324
150	2242	2548	2548	2548	712	1018	1477	865	1171	1630	712	1171	2395	1324	1018	*	712	1324	1783	1324
160	2242	2854	2548	2548	712	1018	1477	865	1171	1630	712	1171	2395	1324	1018	*	712	1324	1783	1324
170	2548	3160	2548	2548	712	1018	1477	865	1171	1630	712	1171	2395	1324	1018	*	712	1324	1783	1324
180	2548	3772	2548	2548	712	1018	1477	865	1171	1630	712	1171	2395	1324	1018	*	712	1324	1783	1324

Notes

1. Dimensions, are applied for 50mm insulation and they are typical. They can change depending on units size, installed components and complexity of the units.

2. Coil section : 3.1 = 1 coil + eliminators, 3.2 = 2 cois + eliminators, eliminators, 3.3 = 2 coils + eliminators + spray humidifier.

SOUND ATTENUATOR SECTION LENGTH FOR ATTENUATION AT 250 Hz (db)							
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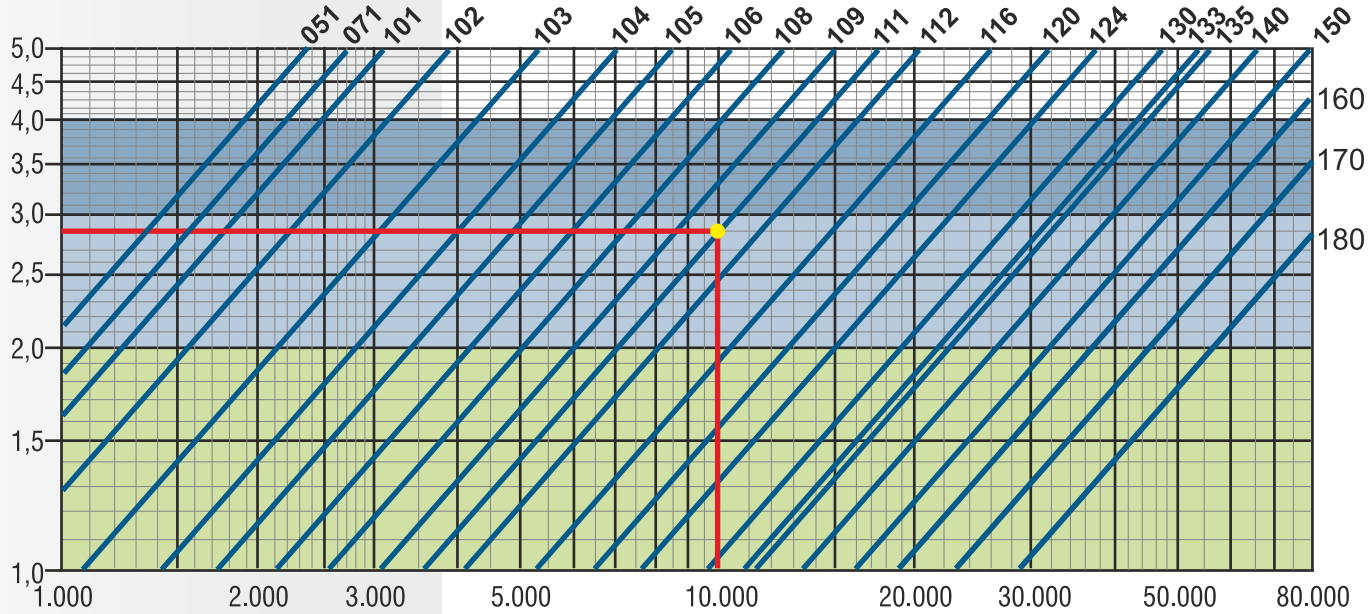
Quick Selection Chart



Eliminator under the following conditions.
Sensible heat factor 1 0,9 0,8 0,70 0,6.
Max.Face velocity without eliminators (m/s) 3 2,9 2,8 2,65 2,5.

Heating Coil.

Coil without eliminators.

4. Selection Software

Selection of an air Handling Unit is a time consuming procedure for any professional design engineer which usually includes among others the following : Size selection based on various variables including air flow and face velocity Decision of the unit configuration based on space dimensions as well as components required Selection of all relative components included in the unit such as Fans, Motors, Drive-sets, Cooling/Heating coils, Recovery sections, filters, Sound attenuators ect., Fully dimensioned drawings of the unit Checks for available space in the mechanical room either for positioning of the unit or for duct connections.

To cater for the diverse requirements of the international market, Klimallco has developed a unique AHU casing construction

that allows for many configurations and component options. As an example, you may want a vertical standing double skin casing with a front horizontal discharge. This describes some of your requirements but as you go into more detail about the filter plenum, electric heater bank and humidifier section you start to realize the limitations of a simple paper catalogue. It is now much easier to choose the convenient air-handling unit with the help of the Klimallco AHU selection software program designed by the Klimallco research and development engineering department. The Klimallco AHU Selection software program is an excellent and user-friendly tool, helping the engineers to run previously time consuming and complicated selection procedures in only a few minutes. The Klimallco AHU selection software program simplifies the complexity of any given design and minimizes the time required for its selection completion.

Some of the features of the Klimallco AHU selection program are:

- Size selection through face velocity of the air
- Selection of cooling and heating, water or evaporator, coils with a presentation of on/off air conditions on the psychometric chart.
- Using air flow and external static pressure, the detailed drawing of in front and Plan View can be appeared through some simple "clicks" of a p/c mouse, which defines the components required.
- Creation of detailed drawings with unit configuration, marking the components to be included from a existing list.

All the main components that need to be selected for an AHU are included in the selection procedure such as:

Fans (forward, backward, airfoil or plug fans) Motors (2, 4, 6, 8 poles single or double speed), Relative drive sets based on airflow and total static pressure, with a presentation of the resulting operating point on the characteristic fan curves, Cooling coils, Heating coil, Recovery systems plate heat exchangers, or thermal wheels, run around coils or Heat pipes, Sound attenuators (including noise regeneration calculation), Humidifiers, Filters. In every project, the user can customize the general technical input such as pressure drop, outside air conditions, inside air conditions, and coil properties. This way there is no need to set the same parameters for every air-handling unit separately under the same project.

Users can save any selection using a great variety of parameters (Country - Area – City, project name or

category etc), which gives a great flexibility to recall it and have a full statistic analysis of their work.

Results can be either printed or e – mailed in *.PDF format.

Drawings can be reformed in *.DXF format which allows the user, to transfer them on the mechanical room, drawing, through AUTOCAD® or similar CAD software.

5. Certifications

Eurovent

The Air Handling Units MDK series is certified from Eurovent Certita Certification S.A.S. (**Certification Diploma N°: 15.10.007**).

ISO 9001:2015

Our quality and enviromental system are approved by **LRQA** according to
ISO 9001:2015,
ISO 14001:2015

CE

The whole range of our products conform with the directives of the Council of the European Community (**CE**).

Air Treatment Experts

Exporting all over the globe

Klimallco®
climate experience

Technical Data

2024

MDK

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klimallco sa Air Treatment Experts

LRQA CERTIFIED ISO 14001

LRQA CERTIFIED ISO 9001 : 2015