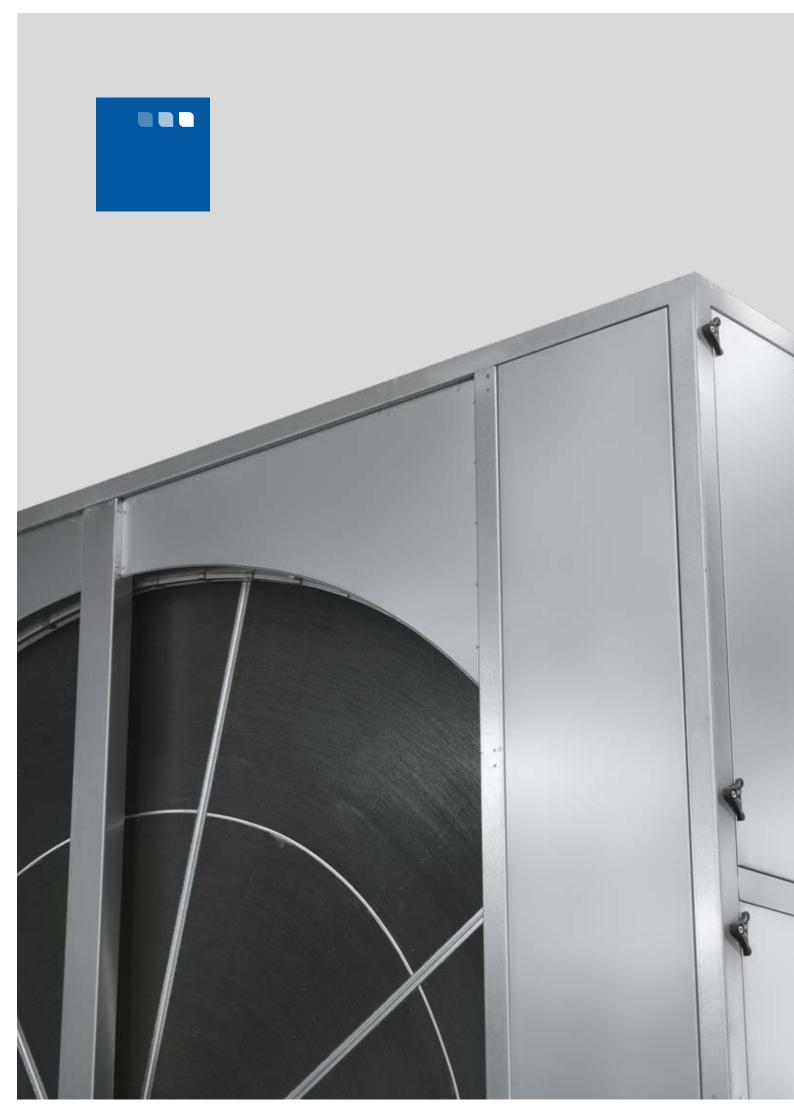


Klimor

PRODUCT GUIDE

KLIMOR EVO

ADVANCED AIR CONDITIONING & VENTILATION SOLUTIONS



KLIMOR EVO PRODUCT GUIDE

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CHAPTER I

KLIMOR BRAND

50 YEARS OF EXPERIENCE & INNOVATION

CERTIFICATES AND AWARDS

KLIMOR IN NUMBERS

KLIMOR SOLUTIONS

WE CARE ABOUT AIR FOR...

50 YEARS OF EXPERIENCE & INNOVATION

For 50 years, Klimor has developed advanced air conditioning and ventilation solutions, meeting both the strictest quality standards and individual demands of customers throughout Europe – and now also in North America.

Our motto "We care about Air" reflects perfectly the essence of Klimor's attitude. It underlines the attention we draw to the air quality and comfortable living. It motivates us to the sustainable, innovation-driven development of the Klimor brand and its portfolio – in past, present and in the future.

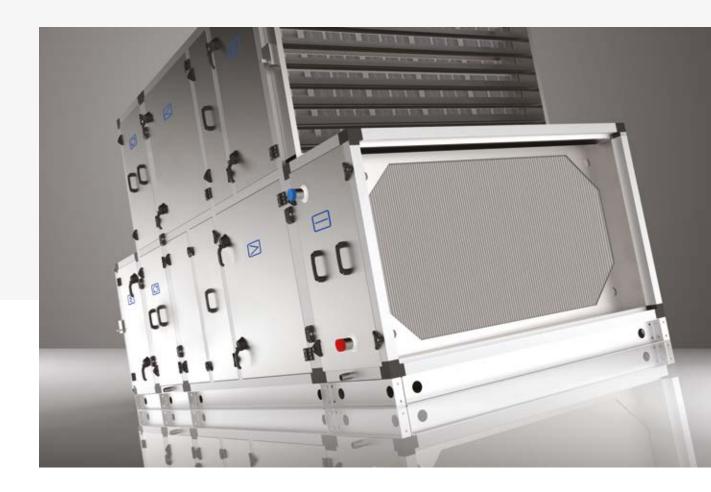
As a manufacturer, Klimor implements its own solutions applied in the wide range of air conditioning and ventilation systems. Klimor AHUs are developed in our own production plant located in the heart of Europe – in Poland. Klimor's factory and the R&D division are situated in the northern part of the country, in Gdynia, directly by the Baltic Sea.

We are known for our commitment to highest quality and professionalism.

Foundation of The Company

1967

The Klimor company was founded in 1967 in Gdynia (Poland). We take pride in its rich tradition and global experience in the field of manufacturing both standard as well as custom air conditioning, ventilation and refrigeration systems.



CERTIFICATES AND AWARDS

ETL

The ETL Listed Mark is accepted throughout the United States when denoting compliance with nationally recognized standards such as ANSI, IEC, UL and CSA.

EUROPEAN STANDARD CONFIRMATION

Independent certification confirming compliance of execution with strict standards: EN 1886:2008 and EN 13053:2008.

ISO 9001

Klimor products have certificates of compliance, issued by PRS, confirming meeting of specific design and functional requirements.

CE

Proves that products had been executed in line with European Union Directives and regulations.

EAC

Certificate of quality and compliance with standards and regulations of Russian Federation confirms that products underwent all certification procedures and that it meets the quality requirements and requirements of engineering and safety standards.









THOUSANDS

semi-custom and custom AHUs yearly



1700 vessels

around the world equipped with KLIMOR AHUs

ı

KLIMOR SOLUTIONS

Klimor's offer is based on the extensive range of modern air conditioning and ventilation units designed for any kind of commercial and industrial application as well as different types of residential buildings.



COMMERCIAL SOLUTIONS: office and residential buildings, sport facilities, shopping malls PUBLIC UTILITY FACILITIES: government buildings, universities, museums HEALTHCARE & PHARMACEUTICAL INDUSTRY: hospitals, laboratories INDUSTRY PLANTS INCL. HIGH HUMIDITY FACILITIES: warehouses, technical rooms,

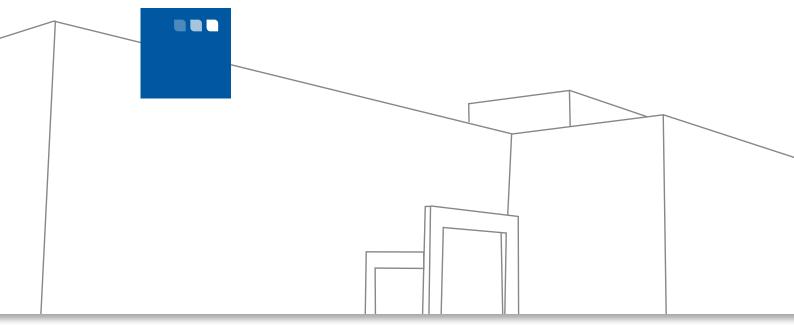
indoor swimming pools, production plants **MARITIME INDUSTRY**: ships, boats

Klimor offers more than products. We deliver comprehensive range of services, including selection of units based on our own selection software, assembly and installation of units.

CONSULTING SUPPORT SELECTION

DELIVERY&ASSEMBLY WARRANTY SERVICE

WE CARE ABOUT AIR FOR...



For half a century Klimor has offered its customers and business partners various HVACR system solutions, in order to meet versatile needs for the air comfort.

Klimor air handling and cooling systems installed in thousands of facilities all over the Old Continent, especially in Central and Eastern Europe. Thanks to Klimor's vast experience, flexibility and high quality of products the company is successfully implementing HVACR solutions in office and government buildings, public utility facilities, hotels, in hospitals and laboratories, swimming pools as well as industrial plants.

WE CARE ABOUT AIR FOR:

AUTOLIV BORGAUTOMOTIVE BORGWARNER BSH

CEREAL PARTNERS WORLDWIDE DANFOSS DECATHLON

DECATHLON DELPHI DR. OETKER FLEXTRONICS

FORTUM FRITO LAYS GOOD YEAR HILTON HOTELS

HUTCHINSON IBIS IKEA LEROYMERLIN MABION

MARS MICHELIN NESTLE GROUP OLIMPLABORATORIES

PANATTONI POLSKONE PRATT & WHITNEY PHILIPMORRIS

POLPHARMA SAINT-GOBAIN SANOFI TAURON TEVA

TIKKURILA TRUMPF MAUXION CHOCOLATES SUPER-PHARM

VALEANT EUROPE VALEO ROSSMANN RESERVED

RECKIT BENCKISER TARKETT





CHAPTER II

KLIMOR EVO PRODUCT LINE

PRODUCT PHILOSOPHY: THE EVOLUTION OF AIR

SELECTION SOFTWARE

EVO S CHARACTERISTICS

EVO TECHNICAL DATA

CODIFICATION & ENCODING

SAMPLE CONFIGURATIONS

THE EVOLUTION OF AIR

Taking into account a variety of specific needs and demands of our Clients, we succeeded in creating an innovative product line by extending our way of thinking about perfect HVACR solutions.

"Klimor EVO" is an evolution of technological thought and engineering excellence. We care about every single detail of the entire process – from design to production. Our confidence comes from implementation of the strictest standards of the quality management, proven know-how and almost five decades of manufacturing experience.

EFFICIENT | VERSATILE | OPTIMAL



EFFICIENT

EC / VFD TECHNOLOGY

Solutions that meet the requirements of ecodesign in terms of highest energy efficiency ratios.

Stepless capacity control as standard allowing to optimize energy consumption per unit of time.

ERP 2018 - ADVANCED ENERGY RECOVERY SOLUTION

A wide range of energy recovery systems in the group of recuperators and regenerators suitably applied to the expectations of air treatment technology.



CROSS-FLOW PLATE HEAT EXCHANGER



COUNTER-FLOW PLATE HEAT EXCHANGER



RECOVERY WHEEL



MIXING BOX

DIRECT DRIVE PLENUM FANS

Minimization of energy losses due to exclusion of belt drive

Single fan and multifan technology

Application of impellers with backward curved blades with high mechanical efficiency

VERSATILE

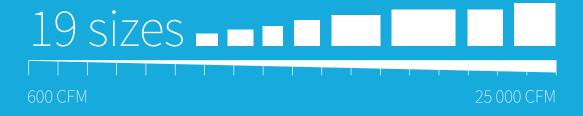
WIDE RANGE OF CLIMATIC ZONES

Versatile climate zone operation temperature

 $-40 \div 158$ °F



WIDE RANGE OF BUILDING APPLICATIONS



OPTIMAL

FLEXIBILITY

Various configurations and wide range of functions will let users select KLIMOR EVO according their needs of air treatment, sound level and cost. Klimor Evo can be selected in two types of unit construction: monoblock or multiblock. This provides unique horizontal or vertical modularity.









MULTIBLOCK ADVANTAGES

Variety of configurations and executions during selection

Easy transport and delivery to the place of multiblock assembly



MONOBLOCK ADVANTAGES

Shorter construction time Competitive price

High air tightness guarantee Lower total weight

WIDE RANGE OF AIR TREATMENT FUNCTIONS

A rich portfolio of air treatment features optically adjusts the device in terms of available energy carriers vs. expectations of air treatment technology





MECHANICAL FILTERS
ELECTROSTATIC FILTERS
(ON REOUEST)





WATER HEATER ELECTRIC HEATER (ON REQUEST)

ADAPTED TO BUILDING CAPABILITIES

MODULAR DESIGN ALLOWS FREE CONFIGURATION OF FUNCTIONAL BLOCKS

AVAILABLE BLOCKS:

primary filtration, mixing, heating, cooling, silencing, secondary filtration, heat recovery, fan

ADDITIONAL EQUIPMENT FOR OUTDOOR EXECUTION:

outdoor dampers, exchangers with freezing protection, canopy, hood

MEETS THE REQUIREMENTS OF EN 1886:2008, CERTIFIED BY ACCREDITED LABORATORIES

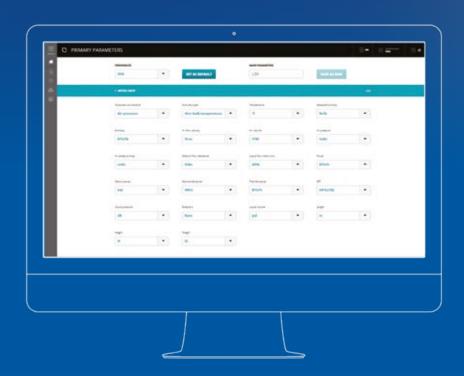
KLIMOR AIR DESIGNER

Klimor Air Designer is our hallmark and competitive advantage. Klimor web-based selection software offers rapid product selection to specific project requirements. It provides users with all technical information they need.

Our selection software offers in particular: simple and user-friendly configuration of AHU, product dimensioning and optimization, defining of all technical data, precise selection of components, various formats of results and drawings.

DISCOVER THE POSSIBILITIES

OF OUR NEW SELECTION SOFTWARE







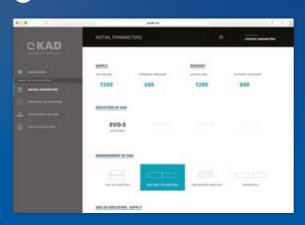






WEB BASED APPLICATION compatible with all main internet browsers

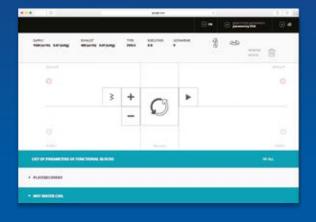
- (A) INTUITIVE NAVIGATION
- → DRAG & DROP
- → VARIOUS EXPORT OPTIONS PDF, DXF 2d&3d
- EASY-TO-USE just a few steps to design complete unit
- 1 ENTER INITIAL PARAMETERS





3 CALCULATE & CHOOSE OPTIMAL SOLUTION

2 PICK FUNCTIONS YOU NEED





4 SELECT EXPORT OPTION (PDF, DXF 2D&3D)





MODULAR AIR HANDLING UNIT

STANDARD EXECUTION



600 ÷ 25 000

Component	Construction
Framework	ALuminium, aluminium with thermal brake or high anticorrosive steel composite profiles or galvanised metal sheet profiles (2"), composite corners. For the gas modules, corners made of composit resistant to a temperature of 347°F.
Panels	Unique Thermal Brake panels made of galvanised metal sheet 0,8mm thick Panel thickness of 2" (floor 2.7") filled with PU foam – A1 class fire protection. Fixed panels riveted to the framework and insulated with silicone. Access panels fixed by clamps, with pull handles. Access doors fixed by handles. Access panels with pull handles fixed by clamps. Access panels and doors equipped with profiled gasket.
Base Rail	Base rail made from galvanised metal sheet Standard base rail height – 4.7"
Drain Pan	Made of stainless steel, triple sloped, insulated with rubber mat. Recessed in floor. Drainage pipe made of stainless steel pipe, led out to the side through the AHU's profile beyond the outline. It is not required to elevate the frame for the pressure of 2.4 inWg.
Coil framing	Made of stainless steel
Air Dampers	Standard aluminium construction. The mechanism hidden in the double profile, separated from external factors.
Add. equipment	"Dumbo" terminals for pressure switch hoses connection, installed on the AHU's fixed casing. Lighting – lov voltage led technology – option Porthole – option

EVO S CHARACTERISTICS



RIGID FRAME CONSTRUCTION

UNIVERSAL IN WHOLE RANGE 2 OPTIONS OF PROFILES: COMPOSITE OR HIGH ANTICORROSIVE STEEL



THERMAL BRAKE PANELS

REDUCTION OF THERMAL CONDUCTIVITY ECONOMIC BENEFITS

INSULATION

2" PU FOAM



DDP | SINGLE OR MULTIFAN | AC OR EC SOLUTIONS FLEXIBLE ARRANGEMENT OF OUTLETS (TOM / BOTTOM / SIDE / FORWARD)



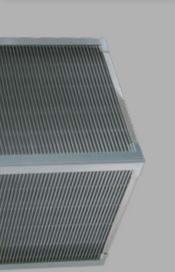


DRAIN PAN

TRIPLE SLOPED
EASY MAINTENANCE
EASY "SLIDE-OUT" COIL ACCESS

PRACTICAL SOLUTIONS

HINGES / HANDLES / CLAMPS



ENERGY RECOVERY

HIGH EFFICIENCY HEAT ENERGY RECOVERY

Energy recovery wheel efficiency ≤ 80% Plate heat exchanger efficiency ≤ 70% Counter flow plate heat exchanger efficiency ≤ 92%

ANTICORROSIVE COATING

OPTIONS: PAINTED OR STAINLESS ANTIREFLEX SURFACE



AVAILABLE SIZES

SIZE	WIDTH [in]	HEIGHT [in]	OPTIMAL AIR FLOW [CFM]	CROSS-SECTION	
800	27.56	19.69	686		1
1300	37.40	19.69	1 100		2
1600	37.40	23.62	1 429		3
2200	47.24	23.62	1 924		4
2900	51.18	27.56	2 500		5
3400	51.18	31.50	2 969		6
4000	59.06	31.50	3 597		7
4800	59.06	37.40	4 544		8
5500	66.93	37.40	5 337		9
8300	70.87	47.24	7 406		10
7500	59.06	59.06	7 762		11
9500	78.74	51.18	9 247		12
11500	94.49	51.18	11 496		13
12500	70.87	70.87	11 946		14
14000	94.49	59.06	13 863		15
15500	78.74	78.74	15 231		16
18500	110.24	66.93	18 215		17
20000	122.05	66.93	20 497		18
24500	122.05	78.74	24 464		19

CODIFICATION OF FUNCTIONAL BLOCKS

{	PF	PRIMARY FILTER
**	SF	SECONDARY FILTER
	VF	FAN
	WC	CHILLED WATER COIL
DX	DX	DIRECT EXPANSION COOLING COIL
+	WH	HOT WATER COIL
III	SL	SILENCER
	RR	ENERGY RECOVERY WHEEL
\boxtimes	PR CPR	PLATE CROSS-FLOW HEAT EXCHANGER (HIGH PERFORMANCE COUNTER FLOW HEAT EXCHANGER)
	MX	MIXING SECTION
	ES	EMPTY SECTION
+4	ЕН	ELECTRIC HEATER (PAGE 52)

ENCODING METHOD



AHU **RANGE** NAME

KLIMOR EVO-S

SIZE **OF UNIT**

800, 1300, 1600, 2200, 2900, 3400, 4000, 4800, 5500, 8300, 7500, 9500, 11500, 12500, 14000, 15500, 18500, 20000, 24500 **AIR FLOW RATE /100** **STATIC PRESSURE DROP *10**

ACCESS SITE

> R - RIGHT L - LEFT

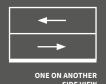
KLIMOR EVO-S-5500-53-20-R-PFWHWCVFSL **FXAMPLE**

COMPLETE DESIGNATION OF THE EVO AHUS CONTAINS ALSO CODES OF AIR SECTIONS. EXAMPLE: THE EVO AHU IN STANDARD RIGHT-SIDE VERSION, SIZE 5500, AIR FLOW: 5300 CFM, AVAILABLE PRESSURE: 2 IN. W. C., EQUIPPED WITH FILTER, WATER HEATING COIL, WATER COOLING COIL, FAN AND SILENCER.

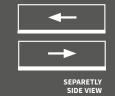
FAN SET

AHU size	800	1300	1600	2200	2900	3400	4000	4800	5500	8300	7500	9500	11500	12500	14000	11500	18500	20000	24500
Single	1	1	1	1	1	1	1	1	1	1	1	1	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Multi (qty)	n.a.	n.a.	n.a.	2	2	2	2	2	2	2	2	2	2	2	2 or 3	2 or 4	3	3 or 6	3 or 6

POSSIBLE AHU ARRANGEMENT



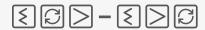


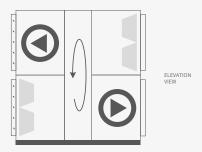




SAMPLE CONFIGURATIONS

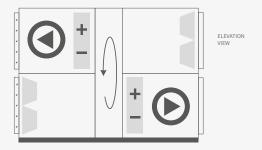






supply & exhaust AHU & energy recovery wheel





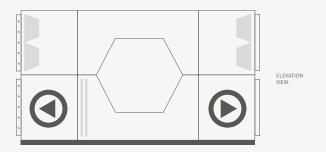
supply units heating, cooling





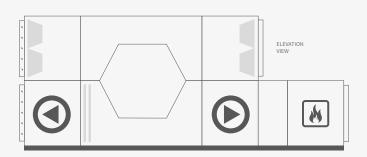
supply & exhaust AHU with counter flow heat exchanger





supply & exhaust AHU with counter flow heat exchanger & gas module

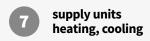




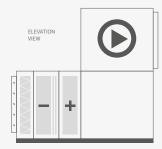
supply units mixing box

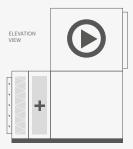




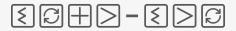


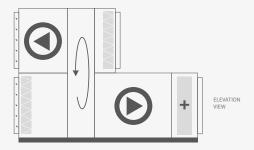






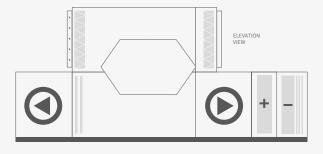
supply and exhaust units with energy recovery wheel





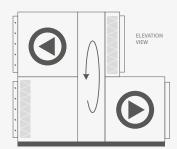
supply and exhaust units
with cross-flow heat exchanger
heat recovery, cooling





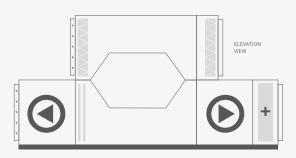
supply and exhaust units with energy recovery wheel





supply and exhaust units with cross-flow heat exchanger heat recovery

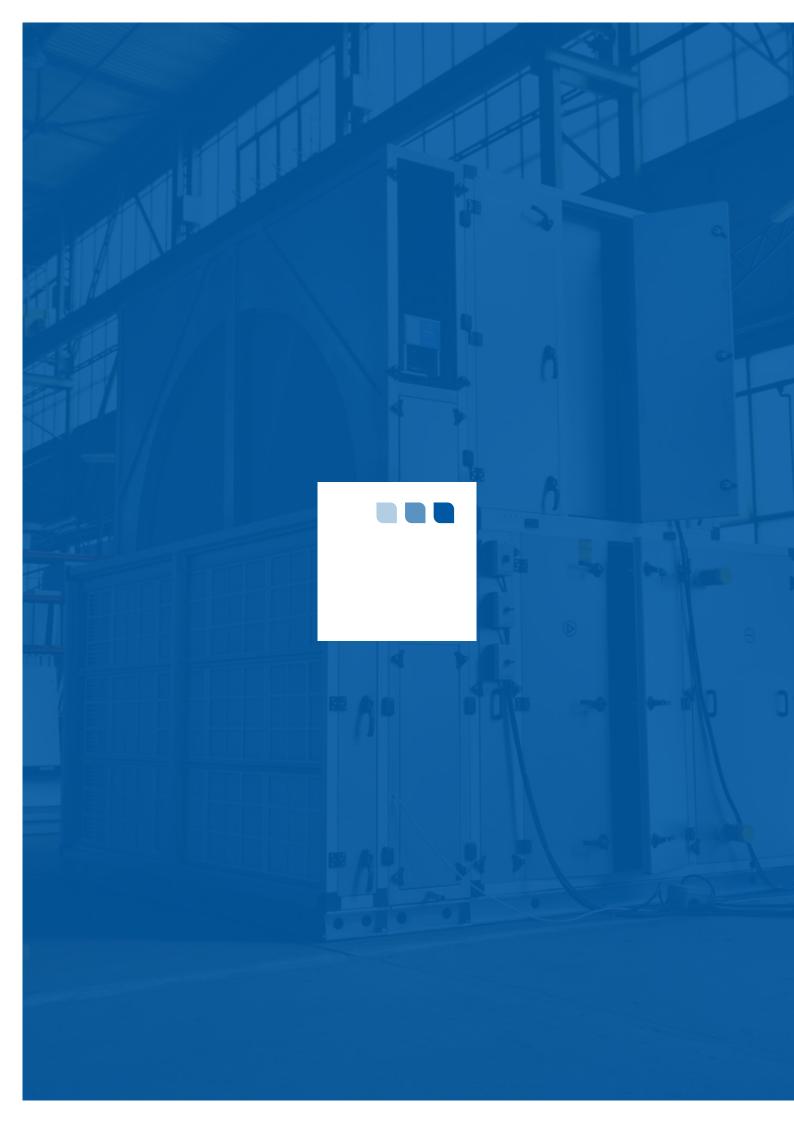




Much more configurations available in KLIMOR AIR DESIGNER selection software



⊗ klimor.com



CHAPTER III

FUNCTIONAL BLOCKS

CASING

MECHANICAL FILTER

FAN SET

HOT WATER COIL

CHILLED WATER COIL

DIRECT EXPANSION COOLING COIL

ENERGY RECOVERY WHEEL

PLATE HEAT EXCHANGER (STANDARD & HIGH PERFORMANCE)

ELECTRIC HEATER

SILENCER



casing



functions and application

framework

Supporting framework structure based on internal system of aluminum or steel frame

environment

AHU for indoor and outdoor installation

panels

Sandwich type with thermal brake solution

construction

external materials

Magnesium sheet

Galvanized and coated (option)

Stainless steel sheet (option)

insulation

PU foam

Mineral wool (option)

internal material

Galvanized sheet

Stainless steel

Coated sheet (option)

access

On the side

Butterfly clamps and hinges

cover

Other panels riveted with framwork structure

base rail

Steel rail for transport/ foundation of the unit

parameters (panels)

working temperature

-40÷194°F

panel thickness

2 in

type of sheets

Galvanized sheet with magnesium (DX51+ZM250)

Optional: galvanized and polyester coated steel sheet RAL9010, stainless sheet type 304 and 316



functions and application

type

Pleated filter MERV8 ÷ MERV14

Air purification

usage

As base filter in systems with standard purity requirements

As preliminary filter in systems with strict purity requirements

application

Public utility buildings, office spaces, hotels, arenas, collective and individual residential bildings, etc.

parameters

filtration class

MERV8 ÷ MERV14

end pressure drop

 $\Delta p = 1 \text{in w.g.}$

filtration grade

Am = up to 98%

air velocity

working temperature

Maximum v = 625 FPM Maximum 200°F

construction

class

MERV8 ÷ MERV13 pleated filters MERV14 cartridge filters

installation

Mounted on steel frames



fan set [VF]

functions and application

application

Low and medium pressure ventilation and air-conditioning systems with overall pressures up to 8.03 in w.g.



construction

type

Radial fan without casing

One-way suction

PLUG type with backward curved blades

insulation

Fan and motor set on common frame

Insulated from unit structure by rubber shock absorbers

motor

TEFC (Totally Enclosed Fan Cooled) motors conforming to PREMIUM efficiency class

All units equipped with direct drive fans are equipped with factory mounted Variable Frequency Drives (VFD)

optional

Shaft Grounding Rings

parameters

rated voltage

3×208..460V 50/60Hz.

protection type / index

PTC / IP55

motor insulation

insulation class: F

bearing lifecycle

L10 = 20000h / L50 = 100000h working environment

140°F



hot water coil



functions and application

supply air

Heating of supply air to premises in air conditioning and ventilation systems

process air

Heating of process air in industry-grade air conditioning and ventilation systems

source

Heat source is required, supplying the coil with hot water

construction

structure

Galvanized steel sheet casing

CuAl package with copper pipes and aluminum fins

Manifolds and connectors made of copper or steel

standard fin spacing standard fin thickness

tube wall thickness

tube diameter

0.08 in

0.006 in

0.02 in

3/8" ÷ 5/8"

connector types (nominal diameter)

Ø NPS [in]	0.75	1.00	1.25	2.00	3.00
Connector ending	Thread R3/4"	Thread R1"	Thread R 11/4"	Thread R 2"	Thread R 3"

parameters

max. medium temp.

302°F

max. medium pressure

535.30 in w.g. = 0.005 in w.g. (tested 0.007 in w.g.) max. permitted air flow

v = 480.31 fpm

additional data

Thermal output, pressure losses, etc. available in KAD selection software air temperature

Min/max temperature of air for the coil: -40 ÷ 140°F

Protection: permissible minimum temperature of air downstream coil is monitored by freezing protection thermostat (optional)



chilled water coil

[WC]



functions and application

cooling*

Of supply air to premises in air conditioning and ventilation systems

Of process air in industry-grade air conditioning and ventilation systems

construction

Copper pipes; aluminium fins

standard fin spacing

Distance between fins: 0.08 in

number of rows

Triple sloped drain pan made of stainless steel

connector types (nominal diameter)

Ø NPS [in.]	0.75	1.00	1.25	2.00	3.00
Connector ending	Thread R 3/4"	Thread R 1"	Thread R 11/4"	Thread R 2"	Thread R 3"

parameters

medium temp.**

Min temperature of the medium:

medium pressure

Maximum working pressure of the medium: 535.30 in w.g. = 0.005 in w.g. (tested 0.007 in w.g.)

glycol content

Max glycol content: 50% velocity

Max. permitted air velocity v = 480.31 fpm

additional data

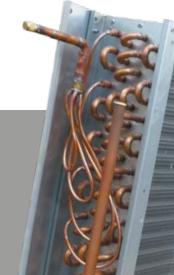
Cooling capacity, pressure drop, etc. available in KAD

^{*} Cold source is required, supplying the coil with chilled water.
** Possibility to select individually according to non standard paramaters.



direct expansion cooling coil





functions and application

cooling*

Supply air to premises in air conditioning and ventilation systems

Process air in industry-grade air conditioning and ventilation systems

construction

general info

Copper pipes; aluminium fins stainless steel coil casing

standard fin spacing

between fins: 0.08 in

number of rows

drain pan

Made of stainless heat exchanger

Single (100%) or double section

connection stub pipes

Connection stub pipes are on the service side of the unit.

parameters

medium temp.**

Minimum evaporating temperature of cooling medium evaporation: 37.4°F* medium pressure

Maximum working pressure of the medium up to 11241.27 in w.g. = 0.112 in w.g. (tested 0.128 in w.g.)

velocity

Max. permitted air velocity v = 480.31 fpm

additional data

Cooling capacity, pressure drops, etc. available in KAD selection software

^{*} Cold source is required, supplying the coil with refrigerant.
** Possibility to select individually according to non standard paramaters.



energy recovery wheel

[RR]



(heat wheel)

functions and application

heat & humidity recovery

Ttransfers sensible and latent heat (i.e. energy bound up in moisture) simultaneously

energy recovery

Energy recovery without full separation of supply and exhaust air streams

application

Applicable in combined supply and exhaust units

construction

general info

hygroscopic rotary heat exchanger

Shaft mounted rotor, framework casing

Rotor made of aluminium strips/sheets

brush sealing

Protects against additional

purification lock

Reduces the quantity of "contaminated" exhaust air to the supply section of the unit

speed belt

belt driven transmission – controlling recuperation degree and freezing protection for humidity condensing on rotor

parameters

efficiency

tightness

air velocity rotor speed pressure drop working environment

Up to 80%

Heat-exchanger tightness for rated working parameters 97%

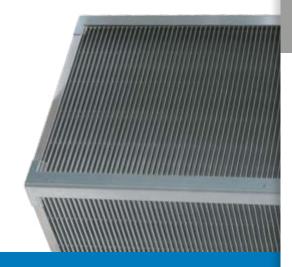
Maximum air velocity 1023.62 fpm Rotor rotational speed: 10rpm

Maximum pressure drop: 1.806 in w.g.

-20÷158°F



plate heat exchanger



2 OPTIONS AVAILABLE



standard cross-flow plate heat exchanger



high performance counter cross-flow plate heat exchanger

functions and application

heat recovery

Indirect heat recovery from exhaust air and transfer of such energy to supply air, without possibility of humidity recovery

supply air

Complete separation of supply air from exhaust air streams

application

Used in combined supply and exhaust units

construction

materials

The block is made of aluminium plates with separated supply and exhaust air streams flowing

face & bypass damper

Installed damper allows to bypass the plate heat exchanger in order to:

- · decrease efficiency or "switch off"
- energy recovery

 protect the exchanger against freezing

drop tray

Drop separator with drip pan

parameters

efficiency

additional

Up to 70% – cross flow plate heat exchanger

Up to 90% – counter flow plate heat exchanger 866.14 fpm Heat-exchanger tightness for rated working parameters 99.9%

drop: 1.806 in w.g.

-40÷175°F



electric heater

[EH]



functions and application

application

- Heating of supply air to premises in air conditioning and ventilation systems
- Heating of process air in industry-grade air conditioning and ventilation systems

construction

- Single or multi-stage heating components
- Radiator heaters combined in groups
- Casing: framework made of galvanized metal sheet
- Connection to terminal strip
- Overheating protection thermostat (standard)

exchanger medium connection

Connection stub pipes are on the service side of the unit

paramaters

- Rated voltage: 208/230V or 460V
- Min. / max. rating capacity: 4/168kW
- Permitted min. air velocity: v = 295fpm
- Max. permissible ambient temperature around heating components: 149°F

silencer

[SL]

functions and application

silent operation

Installed to ensure silent operation of the AHU

sound levels reduction

Reduces noise spreading throughout ventilation ducts



construction

materials

The block is fitted with silencing cartridges made of non-flammable mineral wool, 3.9 or 7.87 in thick

wool insert

The surface of wool insert is protected with veil

protection

Protection prevents permeating of condensate into slotted cartridges

execution

2 stes of baffle silencer are being produced

accesories

Roof/Weather hoods

Components with water drainage to the side opposite from the viewing side can be additionally installed on air handling units that are designed to be used outdoord

Door Locks and Handles

Easy to use door locks and handles ensure safe unit maintenance

Inspection window

Inspection window enables to observe unit's internal operation.

The diameter of plastic window is 8in

Internal lighting

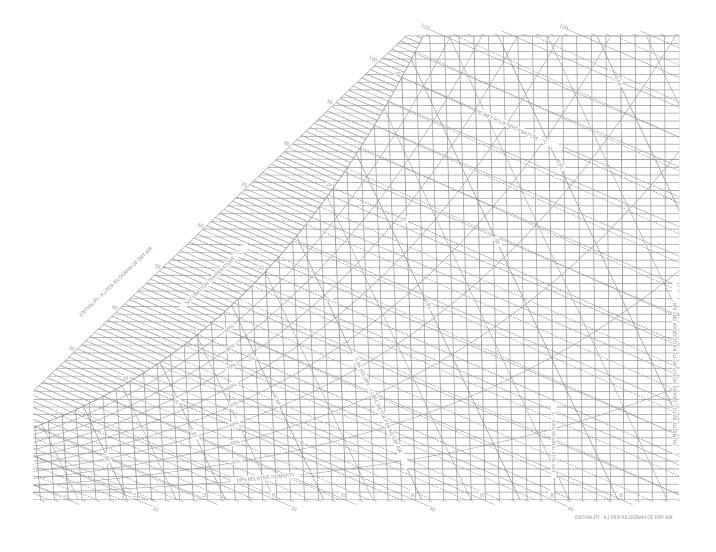
Internal lighting

Internal lighting enables to observe unit's internal operation through inspection window.

Froncomy light is used with switch outside the unit

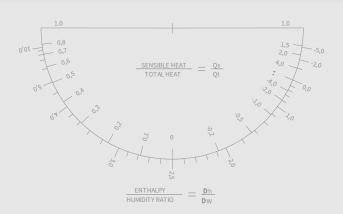
PSYCHROMETRIC CHART





NORMAL TEMPERATURE

BAROMETRIC PRESSURE: 406.793 in w.g





If you cannot find suitable solution please let us know. We will design a custom solution especially for you.





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