



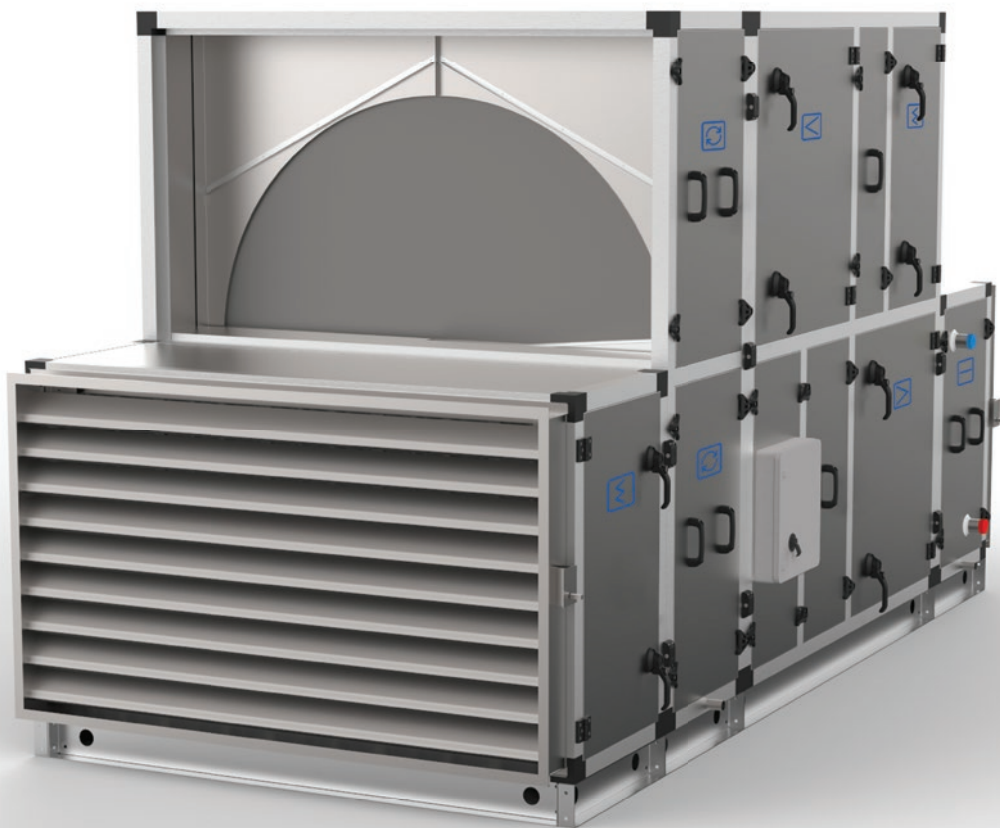
Klimör

PRODUCT CATALOG

KLIMOR EVO

ADVANCED AIR CONDITIONING & VENTILATION SOLUTIONS

Klimör



■ ■ ■ ADVANCED **AIR CONDITIONING & VENTILATION** SOLUTIONS

CHAPTER 1: KLIMOR BRAND 05

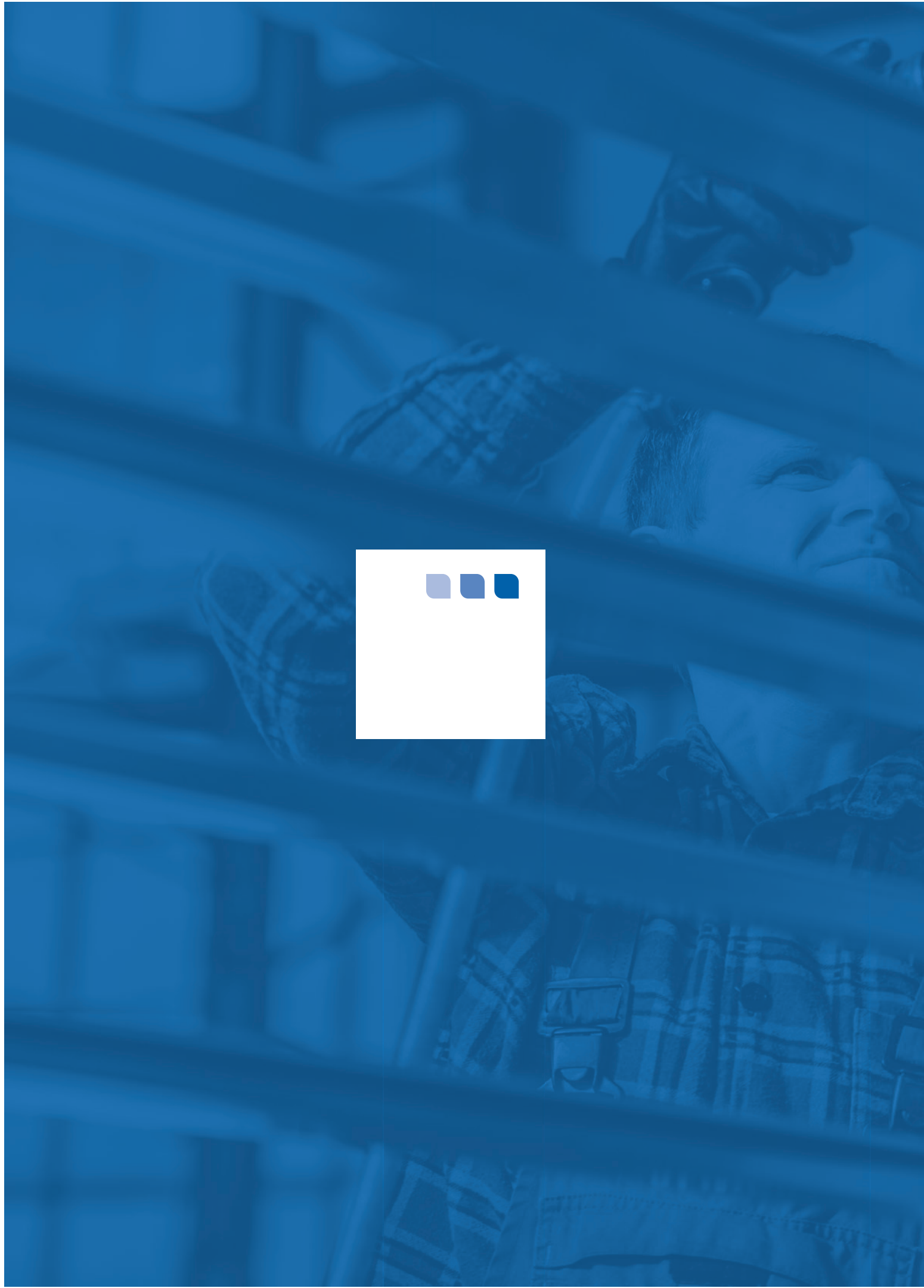
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CHAPTER I

KLIMOR BRAND

50 YEARS OF EXPERIENCE & INNOVATION

CERTIFICATES AND AWARDS

KLIMOR IN NUMBERS

KLIMOR SOLUTIONS

REFERENCE PROJECTS

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.

Klimor provides air comfort, putting people's needs and respect for its closest habitat in the first place. Having highest satisfaction of our business partners in mind, we supply innovative HVACR products based on energy saving and environment friendly priorities.

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 highly specialist air conditioning, ventilation and refrigeration systems.



CERTIFICATES AND AWARDS

ETL
LISTED

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

TÜV
RHEINLAND

Independent certification confirming compliance of execution with strict standard DIN 1946-4:2008 and PN-EN 1886:2008 and PN-EN 13053:2008.

ISO
9001

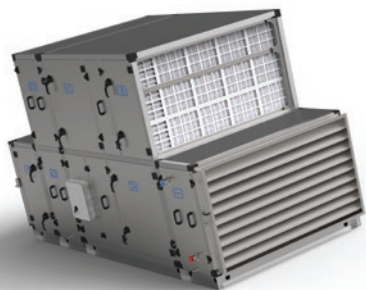
Klimor products have certificates of compliance, issued by PRS, confirming meeting of specific design and functional requirements.

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.



over **40**
countries

in which KLIMOR AHUs are operating



1
tryllion CFM

of treated air per hour



THOUSANDS

semi-customised
and customised AHU yearly



1700
vessels

around the world
equipped with KLIMOR AHUs

Data as of January 2017

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 applications as well as for 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 just products. We also deliver comprehensive range of services, including selection of units based on our own unit selection software, assembly and installation of units.

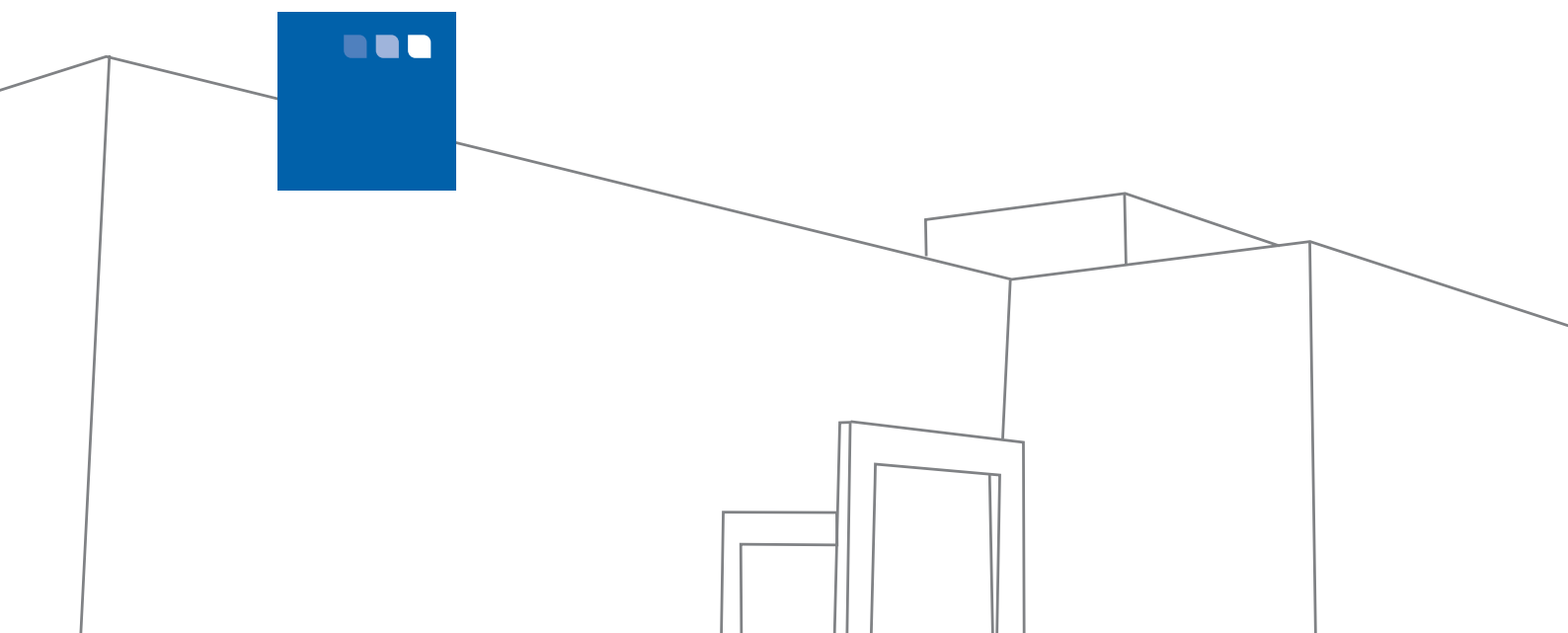
CONSULTING SUPPORT

SELECTION

DELIVERY&ASSEMBLY

WARRANTY SERVICE

REFERENCE PROJECTS

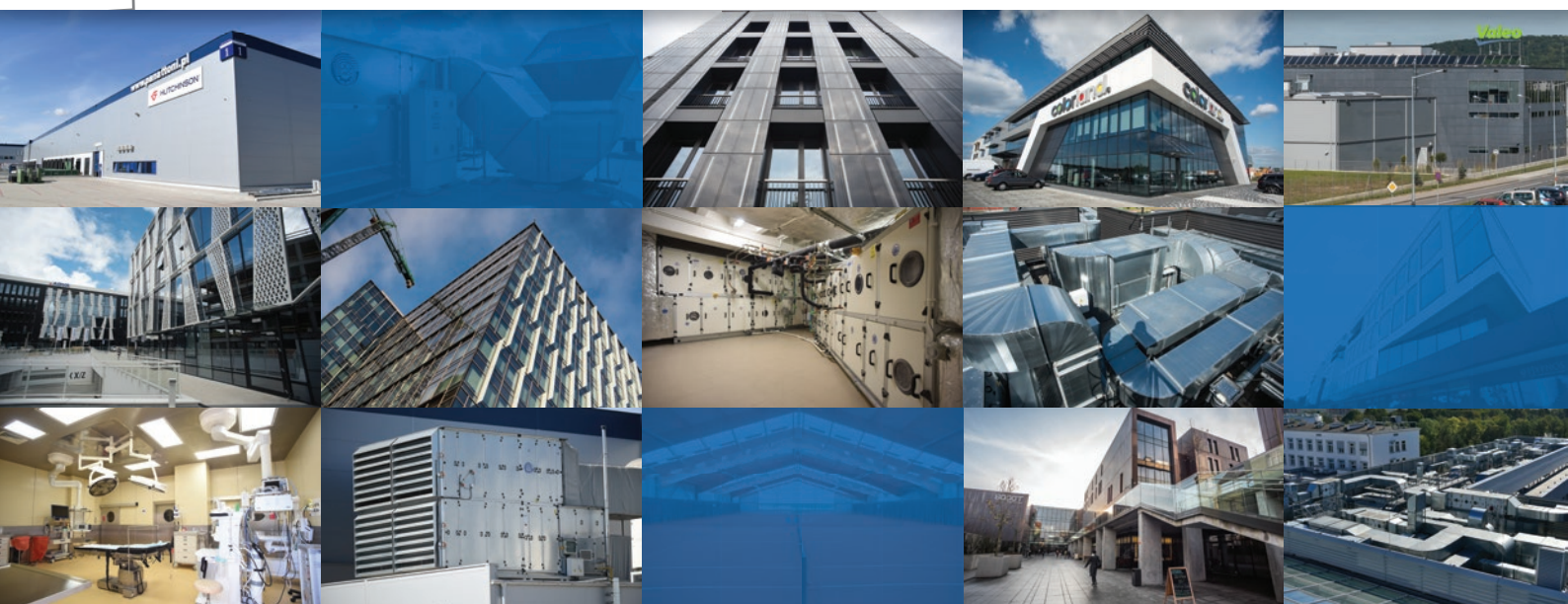


For half a century Klimor has offered its customers and business partners various HVACR system solutions, in order to meet versatile needs for the air comfort.

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.

PARTNERS WHO TRUSTED KLIMOR PRODUCTS
AROUND THE WORLD:

BRITISH AMERICAN TOBACCO BORG AUTOMOTIVE BORGWARNER
BSH CUBUS HOTELS DANFOSS DELPHI DR. OETKER
FLEXTRONICS FRITO LAYS GOOD YEAR HUTCHINSON
IKEA LEROY MERLIN MABION MICHELIN NESTLE GROUP
OLIMP LABORATORIES PANATTONI PRATT & WHITNEY
PHILIP MORRIS POLPHARMA SAINT-GOBAIN SANOFI
TAURON TEVA TIKKURILA TRUMPF MAUXION CHOCOLATES
SUPER-PHARM VALEANT EUROPE VALEO





CHAPTER II

KLIMOR EVO PRODUCT LINE

PRODUCT PHILOSOPHY: THE EVOLUTION OF AIR

EVO ADVANTAGES

PRODUCT CHARACTERISTICS

SELECTION SOFTWARE

FLEXIBILITY

CODIFICATION & ENCODING

SAMPLE CONFIGURATIONS

THE EVOLUTION OF AIR

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

Meet our brand new product line “Klimor EVO” that was developed particularly for the US market.

“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

**ECM/INVERTER
TECHNOLOGY**

**ADVANCED ENERGY
RECOVERY SOLUTIONS**

**DIRECT DRIVE
PLENUMS**

TBC PANELS
versatile climate zones
operation temperature

VERSATILE



ANTICORROSIVE CASING
innovative metal sheet coating
in class C4

OPTIMAL

**WIDE RANGE –
INDIVIDUALLY MATCHED
TO THE AIR VOLUME**

Monoblock & multiblock technology

**WIDE RANGE OF
AIR TREATMENT
FUNCTIONS**

**MULTISHAPE
CROSSECTION**

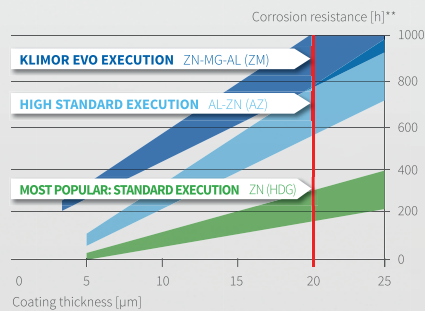
WIDE AIRFLOW RANGE

KLIMOR EVO ADVANTAGES

ANTICORROSIVE COATING

Optional available as: painted or stainless

Antireflex surface

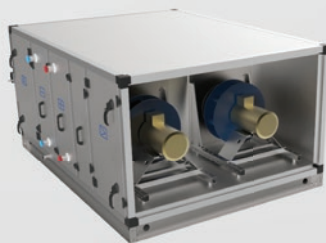


FAN

DDP

Single or multifan

AC & EC solutions



RIGID FRAME CONSTRUCTION

Universal in whole range

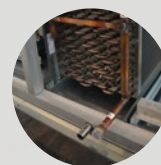
2 options of profiles: aluminium or high anticorrosive steel



INSULATION

Poliester foam or mineral wool

2 in thick

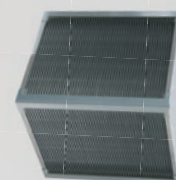


DRAIN PAN

Triple Sloped

Easy maintenance

Collision free access to exchanger

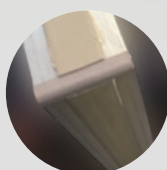


SINGLE POINT POWER

With high voltage distribution block

With external main unit disconnect

THERMAL BRAKE PANELS



Reduction of thermal conductivity

Economic benefits

ENERGY RECOVERY

High efficient heat recovery

Rotary heat exchanger efficiency $\leq 80\%$

Plate heat exchanger efficiency $\leq 70\%$

Counter flow plate heat exchanger efficiency $\leq 92\%$

The source data: manufacturer, surface treatment: Zn (HDG), Zn-Al (ZA), Al-Zn (AZ), Zn-Mg-Al (ZM) ** The moment of red rust appearance on the given surface (salt spraytest)

PRODUCT CHARACTERISTICS

Klimor EVO – new product line developed for the US market, is a series of modular air handling units for air-conditioning, ventilation, heating, cooling, low pressure and high pressure systems.

MODULAR DESIGN ALLOWS FREE CONFIGURATION OF FUNCTIONAL BLOCKS

AVAILABLE BLOCKS:

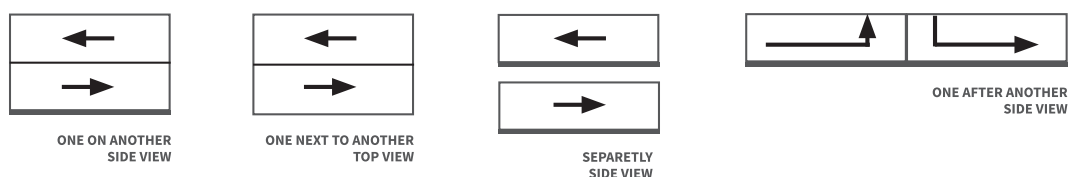
primary filtration, mixing, heating, cooling, silencing, secondary filtration, heat recovery, cooling module, fan

ADDITIONAL EQUIPMENT FOR OUTDOOR EXECUTION:

outdoor dampers, exchangers with freezing protection, canopy, hood

MEETS THE REQUIREMENTS OF PN-EN 1886:2008, CERTIFIED BY TÜV

AHU ARRANGEMENT



VELOCITIES IN CROSS SECTION

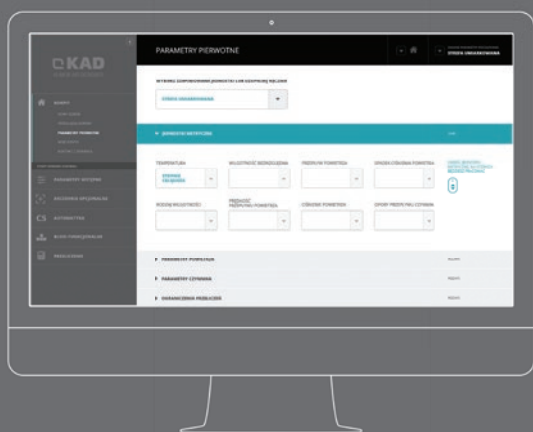
functions	AHU AIR HANDLING UNIT	PF PRIMARY FILTER	SF SECONDARY FILTER	WH HOT WATER COIL	WC CHILLED WATER COIL	DX DIRECT EXPANSION COOLING COIL	PCR PLATE CROSS-FLOW HEAT EXCHANGER	RR ROTARY HEAT EXCHANGER
maximum velocity in cross section of a function [fpm]	885.83	846.46	925.20	905.51	480.31	480.31	885.83	1023.62
optimum velocity in cross section of a function [fpm]	726.38	694.09	758.66	742.52	393.86	393.86	726.38	839.37

AIR FLOW RANGE (CFM)

680÷20 500

SELECTION SOFTWARE

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.**

HIGH DURABILITY

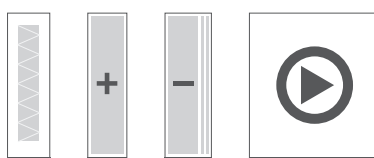
materials and components used in our AHU have been selected to last long and deliver high quality of AHU construction.

AVAILABLE SIZES

SIZE	WIDTH [in]	HEIGHT [in]	OPTIMAL AIR FLOW [CFM]	CROSS-SECTION
5100	27.56	19.69	686	
3200	37.40	19.69	1 100	
0300	37.40	23.62	1 429	
0400	47.24	23.62	1 924	
2500	51.18	27.56	2 500	
0600	51.18	31.50	2 969	
0700	59.06	31.50	3 597	
5800	59.06	37.40	4 544	
0010	66.93	37.40	5 337	
5310	70.87	47.24	7 406	
4410	59.06	59.06	7 762	
5610	78.74	51.18	9 247	
0020	94.49	51.18	11 496	
0120	70.87	70.87	11 946	
5320	94.49	59.06	13 863	
0720	78.74	78.74	15 231	
0230	110.24	66.93	18 215	
0530	122.05	66.93	20 497	

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

High air tightness guarantee

Competitive price

Lower total weight

OUTSTANDING PERFORMANCE AT HIGH ENERGY EFFICIENCY

Highest degree of professionalism and many years of experience in HVACR industry allowed KLIMOR engineers design innovative AHU range that significantly reduces operating costs of any ventilation system

USER FRIENDLY

the design of KLIMOR EVO and its construction quality guarantees easy installation, maintenance and reliability.

CODIFICATION OF FUNCTIONAL BLOCKS

	PF	PRIMARY FILTER		SL	SILENCER
	SF	SECONDARY FILTER		RR	ROTARY HEAT EXCHANGER
	VF	FAN		PR CPR	PLATE CROSS-FLOW HEAT EXCHANGER (HIGH PERFORMANCE COUNTER FLOW HEAT EXCHANGER)
	WC	CHILLED WATER COIL		MX	MIXING SECTION
	DX	DIRECT EXPANSION COOLING COIL		ES	EMPTY SECTION
	WH	HOT WATER COIL			

ENCODING METHOD



**AHU
RANGE
NAME**

KLIMOR EVO-S

**SIZE
OF UNIT**

5100, 3200, 0300, 0400, 2500,
0600, 0700, 5800, 0010, 5310,
4410, 5610, 0020, 0120, 5320,
0720, 0230, 0530

**AIR FLOW
RATE /100**

**STATIC
PRESSURE
DROP *10**

**ACCESS
SITE**

R - RIGHT
L - LEFT

EXAMPLE

KLIMOR EVO-S-0010-53-20-R-PFWHWCVFSL

COMPLETE DESIGNATION OF THE EVO AHUS CONTAINS ALSO CODES OF AIR SECTIONS.

EXAMPLE: THE EVO AHU IN STANDARD RIGHT-SIDE VERSION, SIZE 0010, AIR FLOW: 5300 CFM, AVAILABLE PRESSURE: 2 IN. W. C., EQUIPPED WITH FILTER, HOT WATER COIL, CHILLED WATER COIL, FAN AND SILENCER.

SAMPLE CONFIGURATIONS

1 supply units heating, cooling



SIDE VIEW

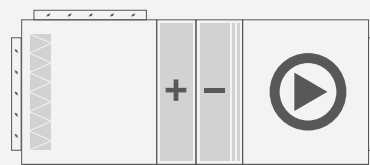


KLIMOR EVO-S [] [] [] [] [R] - [PF] [WH] [WC] [VF]

2 supply units mixing chamber



SIDE VIEW

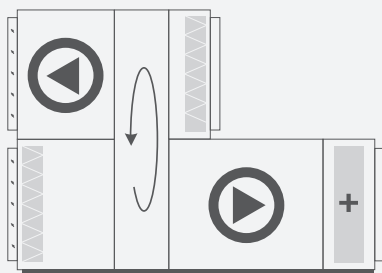


KLIMOR EVO-S [] [] [] [] [R] - [PF] [MX] [WH] [WC] [VF]

5 supply and exhaust units with rotary heat exchanger heat recovery



SIDE VIEW

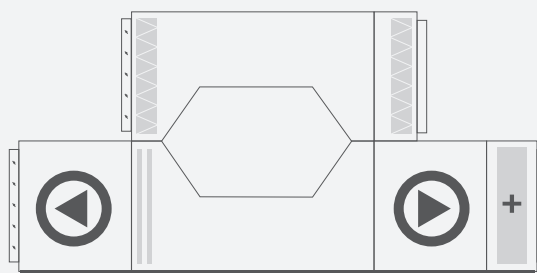


KLIMOR EVO-S [] [] [] [] [R] - [PF] [RR] [WH] [VF]
KLIMOR EVO-S [] [] [] [] [L] - [PF] [VF] [RR]

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

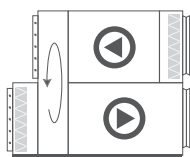


SIDE VIEW

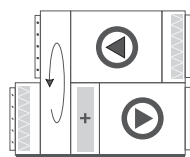


KLIMOR EVO-S [] [] [] [] [R] - [PF] [PR] [WH] [VF]
KLIMOR EVO-S [] [] [] [] [L] - [PF] [VF] [PR]

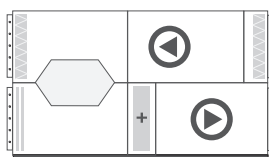
OPTIONS



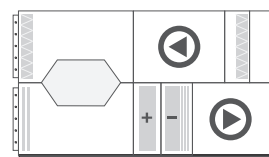
4



5

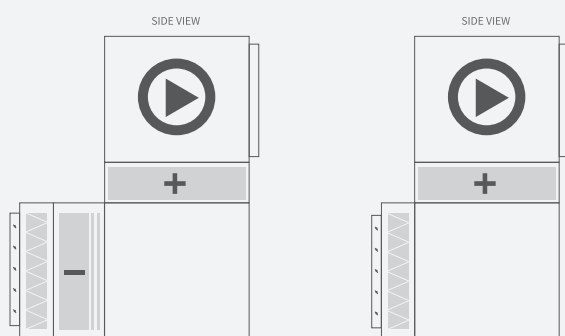


6



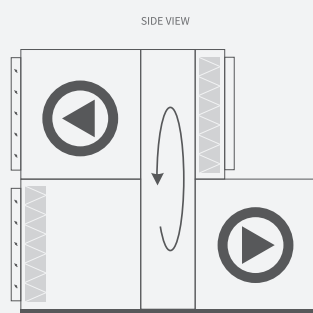
7

3 supply units heating, cooling



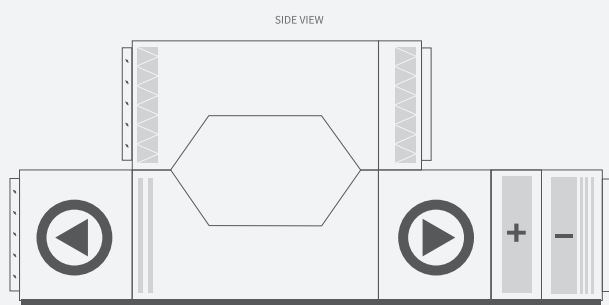
KLIMOR EVO-S [] [] [] [] [R] - [PF] [WC] [WH] [VF]

4 supply and exhaust units with rotary heat exchanger ventilation



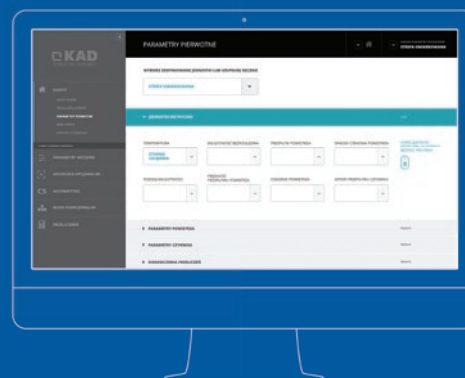
KLIMOR EVO-S [] [] [] [] [R] - [PF] [RR] [VF]
KLIMOR EVO-S [] [] [] [] [L] - [PF] [VF] [RR]

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



KLIMOR EVO-S [] [] [] [] [R] - [PF] [PR] [WH] [WC] [VF]
KLIMOR EVO-S [] [] [] [] [L] - [PF] [VF] [PR]

Much more configurations
available in KLIMOR AIR DESIGNER
selection software



 **klimor.com**



CHAPTER III

FUNCTIONAL BLOCKS

CASING

FILTER

FAN SET

HOT WATER COIL

CHILLED WATER COIL

DIRECT EXPANSION COOLING COIL

ROTARY HEAT EXCHANGER

PLATE HEAT EXCHANGER (STANDARD & HIGH PERFORMANCE)

SILENCER



filter

fan set

hot water coil

chilled
water coil

DX cooling coil

rotary heat
exchanger

plate heat
exchanger

silencer

casing

[CAS]

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 framework structure

base frame

Feet or steel frame 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



filter

[PF]
[SF]



functions and application

type

Pleated filter
MERV8 ÷ MERV13

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 buildings, etc.

parameters

filtration class

MERV8 ÷ MERV13

end pressure drop

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

filtration grade

$A_m = 98\%$

air velocity

Maximum $v = 625 \text{ FPM}$

working temperature

Maximum 200°F

construction

class

Class MERV8 ÷ MERV13 pleated filters

installation

Pleated filters mounted on steel frames

casing

filter

fan set



hot water coil

chilled
water coil

DX cooling coil

rotary heat
exchanger

plate heat
exchanger

silencer

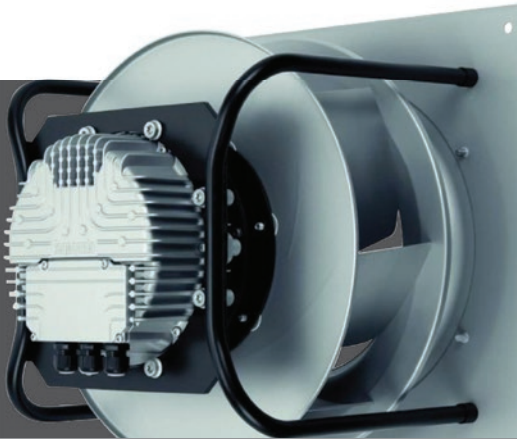
fan set

[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

mounting

Direct drive – rotor mounted
on motor shaft

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

EC motors (in selected AHU sizes)

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

[WH]

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

0.08 in

standard fin thickness

0.006 in

tube wall thickness

0.02 in

tube diameter

3/8" ÷ 5/8"

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 1 1/4"	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)

casing

filter

fan set

hot water coil

chilled
water coil

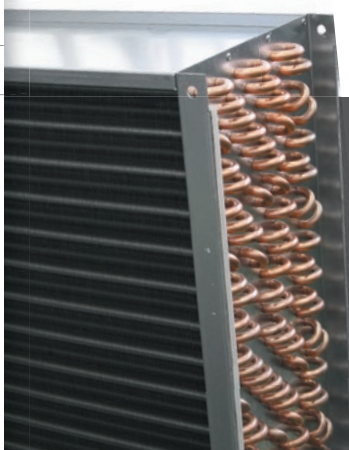
DX cooling coil

rotary heat
exchangerplate heat
exchanger

silencer

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

general info

Copper pipes;
aluminium fins

standard fin spacing

Distance between
fins: 0.08 in

number of rows

2÷12

drain pan

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 1 1/4"	Thread R 2"	Thread R 3"

parameters

medium temp.**

Min temperature
of the medium:
35°F*

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%

air 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 parameters.

direct expansion cooling coil

[DX]

casing

filter

fan set

hot water coil

chilled water coil

DX cooling coil



rotary heat exchanger

plate heat exchanger

silencer

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

general info

Copper pipes;
aluminium fins
stainless steel
coil casing

standard fin spacing

Distance between fins:
0.08 in

number of rows

4÷10

drain pan

Made of stainless steel

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.)

air velocity


Max. permitted air velocity
 $v = 480.31$ fpm

additional data

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

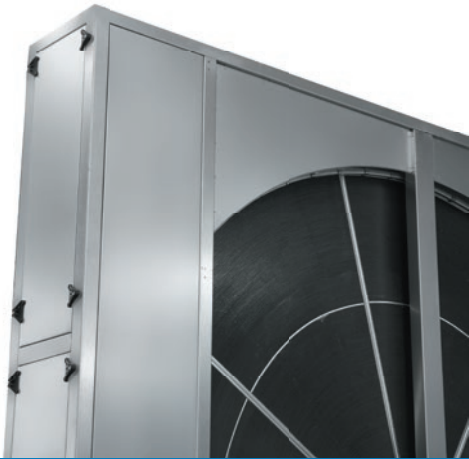
* Cold source is required, supplying the coil with refrigerant.

** Possibility to select individually according to non standard parameters.

casing
filter
fan set
hot water coil
chilled water coil
DX cooling coil
rotary heat exchanger

plate heat exchanger
silencer

rotary heat exchanger

(heat wheel)



functions and application

heat & humidity recovery

Transfers 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

Shaft mounted rotor, framework casing

hygroscopic rotary heat exchanger

Rotor made of aluminium strips/sheets

brush sealing

Protects against additional air leaks

purification lock

Reduces the quantity of “contaminated” exhaust air to the supply section of the unit

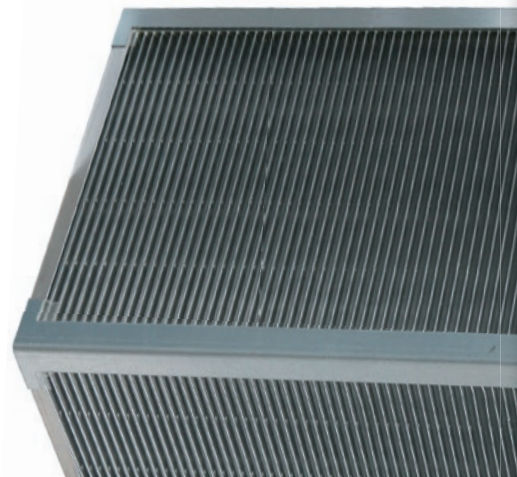
speed belt

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 heat exchanger



high performance
counter cross-flow heat exchanger

casing
filter
fan set
hot water coil
chilled water coil
DX cooling coil
rotary heat exchanger
plate heat exchanger
silencer

functions and application

energy recovery

Indirect energy 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

external materials

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

by-pass

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

Up to 70% – cross flow plate heat exchanger

Up to 90% – counter flow plate heat exchanger

air velocity

Maximum air velocity: 866.14 fpm

medium pressure

Heat-exchanger tightness for rated working parameters 99.9%

additional data

Maximum pressure drop: 1.806 in w.g.

working environment

-40÷175°F

casing

filter

fan set

hot water coil

chilled
water coil

DX cooling coil

rotary heat
exchanger

plate heat
exchanger

silencer



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

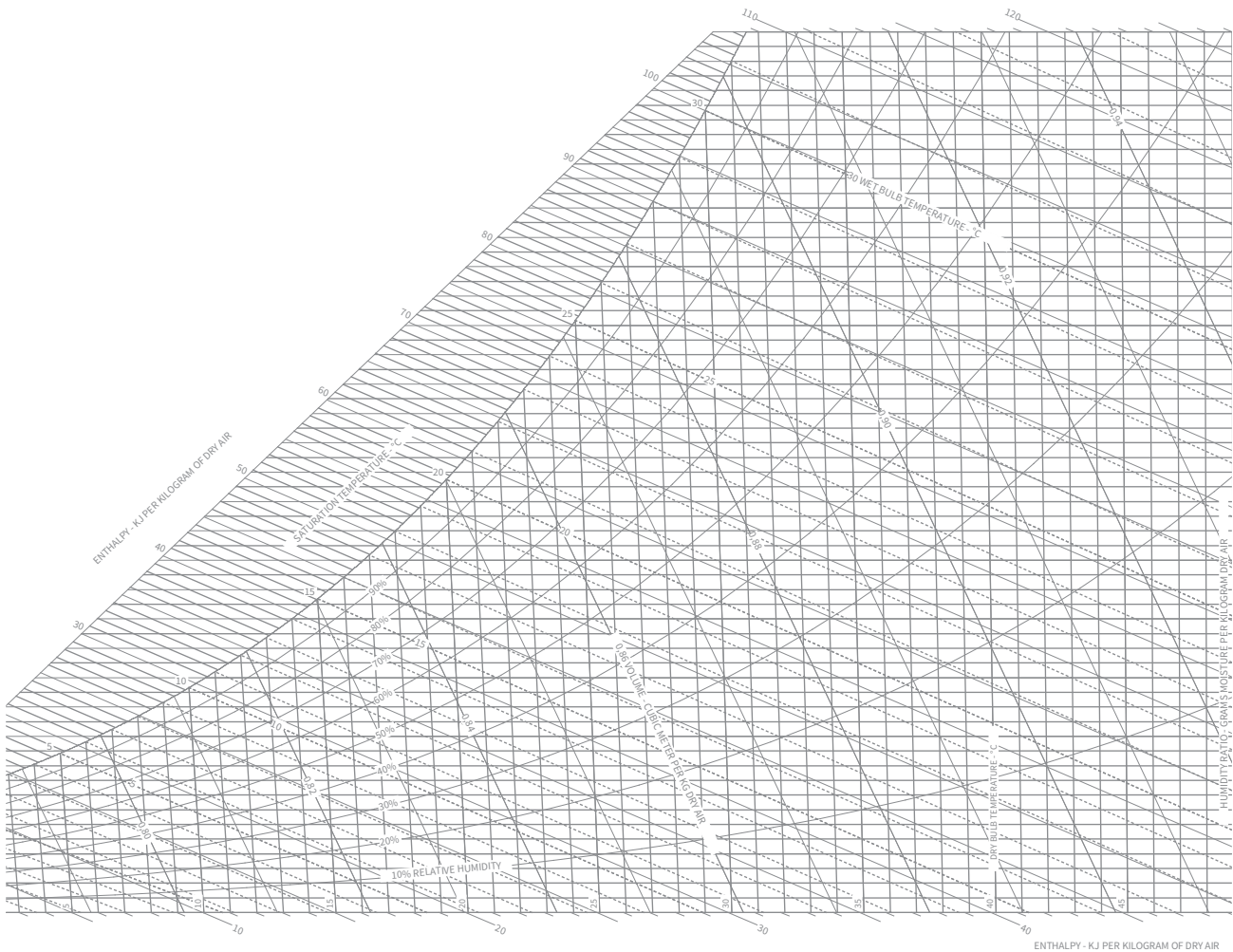
protection

Protection prevents
permeating of condensate
into slotted cartridges

execution

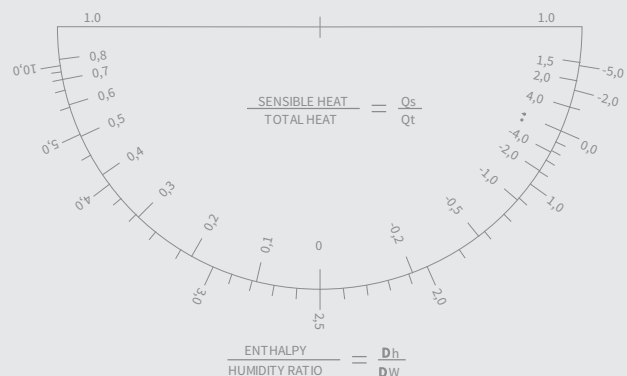
2 stes of baffle silencer
are being produced

PSYCHROMETRIC CHART



NORMAL TEMPERATURE

BAROMETRIC PRESSURE: 406.793 in w.g

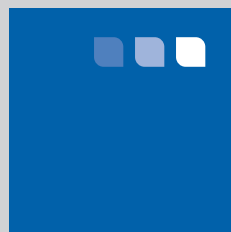




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