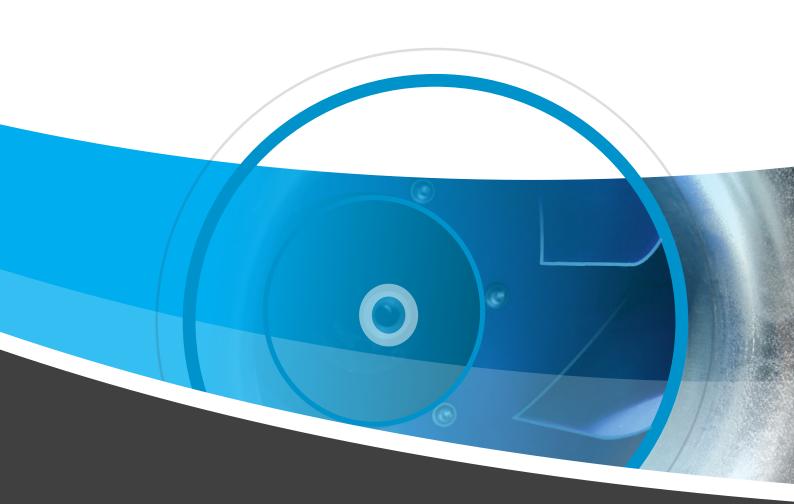
Air handling units

Catalog







VENTIAIR - Air conditioning units from Czechia

Our company is a leading Czech manufacturer of air conditioning units. One of the goals of our company is the complexity of delivery. That is why we have built a production company with a complete portfolio of units which, at the same time, remains flexible in solving individual customer requirements. Thanks to this, we manufacture and supply units to many, not only European, countries.

We place great emphasis on minimizing operating costs, and therefore we approach each order very carefully and always propose individual solutions tailored to the needs of the project. We supply ventilation units also including measurement and control systems. That is why we have managed to build a strong position on the European ventilation unit market.

Our facilities are installed in various projects such as office buildings, schools, hotels, hospitals, sports facilities, banks, production halls, shopping centres, private and public swimming pools.

We strive for the team of our company to be composed of professionals who are able to address the needs of our customers to their maximum satisfaction. We are aware of the importance of a quality relationship between the supplier, the installation company and the designer and so we approach the business.

















CERTAINTY FOR YOU AND YOUR PARTNERS

Our units go through a complex product certification process from several certification authorities. Among the main ones, we can name an authorized person 227 - RESEARCH INSTITUTE OF BUILDINGS - CERTIFICATION COMPANY and then laboratories of the internationally recognized TÜV standard.

Part of the certification is also the verification of the actual parameters of the products and comparison with the stated characteristics.

Certification includes:

- Measurement of air performance of the device and comparison of measured values with the parameters specified by the manufacturer
- ♦ Measurement and control of parameters according to EN 1886 and EN 13053
- Measurement of noise characteristics and comparison of measured values with parameters specified by the manufacturer according to EN 13053
- ◆ Comparison of technical data with valid legislation
- Regular annual supervision in production, repeated measurements

CERTIFICATE

No.: TM 61000464.001

.iAir

Licence owner
VentiAir s.r.o.
Adolfovice 512
790 01 Bela Pod Pradedem
Czech Republic

Manu VentiAl Adolfov 790 01 t Czech R

umber

Our reference number SD/84943954 Certification 29

basis

PN-EN 1886:2008

ertification

A1:2011

C

y**Ý ÚSTAV POZEMNÍCH STAVEB - CERTIFIKAČNÍ SPOLEČNO**bjekt Certifkační orgán pro produkty, kalifikaci, EPD, kvalitu budov a systémy managementu Zkušebn,
Rozhodnuti o autorizaci č. 32/2006 ze dne 31.8.2006

Autorizovaná osoba 227

CERTIFIKÁT VÝROBKU

č. 227/C5/2020/0128

iu s ustanovením § 5 odst. 2 nařízení vlády č. 163/2002 Sb., kterým se stanoví technické požadavky na vy ební výrobky, ve znění nařízení vlády č. 312/2005 Sb. a nařízení vlády č. 215/2016 Sb., autorizovaná oso potvrzuje, že u stavebního výrobku:

vzduchotechnické jednotky VentiAir řady TYPE

Vzduchotechnické jednotky VentiAir řády TYPE jsou určeny k dopravé v nizkotlakých a vysokotlakých větracích systémech bez nebezpečí výbud účelových zařízení, v prostředí s vlivem i bez vlivu povětrnostních účiný pro nucený odvod tepla a spalin. Jednotky se nesmí používat k odstvznětlivých a hořlavých látek.

tiAir s.r.o. 512, 790 01 Bělá pod Pradědem

Státní zdravotní ústav

rova 42, 100 42 Praha 10, tel.: 267081111, fax: 26731 Centrum hygieny práce a pracovního lékařství rodní referenční laboratoř pro prašnost a mikroklima v pracovním prostředí

Posudek č. 1.6/pos/20/3

posouzení vzduchotechnických jednotek VentiAir řady

01516/2020, EX 200170

ventiAir s.r.o., Adolfovice 512, 790 01 Bělá pod Pradědem VentiAir s.r.o., Adolfovice 512, 790 01 Bělá pod Praděden stavné klimatizační jednotky VentiAir řady TYPE

2016, Hygienial





Regular Production Surveillance Safety

www.tuv.com ID 0000073065

















^{*} under the conditions specified in the operational and technical documentation



Brief characteristics of VentiAir air conditioning units

Construction

- ♦ Skeletal structure consisting of aluminium profiles, plastic corners and sandwich panels
- ◆ Panel filling polyurethane (PUR) or mineral wool
- Panel cladding galvanized or stainless steel, RAL according to customer requirements
- Service access from side (as standard), from bottom (under-ceiling design), or according to requirements and options
- The exterior design is equipped with a full-area roof with overlaps, material **galvanized sheet metal**, dampers including actuators inside the chambers, intake and exhaust rain shutters on request.

Value

polyester 25 µm

Advantages of the used construction

- Reduction of energy losses minimization of thermal bridges
- ♦ Elimination of moisture condensation
- ♦ High rigidity and durability of the structure
- ♦ Elimination of moisture condensation
- Elimination of moisture absorption
- Insulating material with a very long degradation time
- ♦ Smooth inner sheathing surfaces easy to maintain hygiene
- ♦ Lightweight inspection panels simple operation
- High resistance to external atmospheric influences
- ♦ High resistance to mechanical damage

Data according to EN 1886 for PUR panel 45mm

Material / thickness of outer safety coating

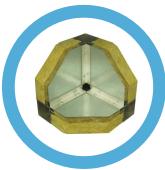


Regular Production Surveillance Safety



www.tuv.com ID 0000073065

Working conditions	-40 to +90°C
Heat transfer coefficient for cladding K=0,67 W/m²K	T2
Coefficient of thermal bridges	TB2
Mechanical resistance of the casing	D1
Sheath tightness -400 Pa/+700 Pa	L1
Filter tightness	F9
Panel thickness - PUR	25, 45 mm
Panel thickness - mineral wool	50, 60 mm
Sheet thickness - PUR panel	0,6 mm
Sheet thickness - mineral wool panel	0,8 mm
Thermal conductivity coefficient PPU	0,022 W/mK
Fire resistance of cladding	fire resistant material (NRO)
Moisture absorption	0,04 %
PPU density	42 kg/m³
Panel weight	10 kg/m²
Corrosion protection - weight of galvanic coating	275 g/m²







Components

- The individual components of the VentiAir series are supplied by reputable manufacturers
- ◆ Fans Ziehl-Abegg, EBM (free impeller, speed control by frequency converter, EC)
- Heat exchangers Klingenburg, Heatex, Hoval, Roen, Recutech, DBM
- ◆ Control system EL-Piast, UCS, CAREL, Siemens, Domat
- ◆ Frequency converters Danfoss

Delivery

On the frame - according to the customer's request, the whole unit on one frame. Availability depends on dimensions, unit weight and destination. The advantage is fast installation, minimization of time needed for installation on site.

In blocks (by chambers) - suitable for engine rooms inside buildings, ideal for larger and heavier pieces, individual blocks are connected by the assembly company according to the written instructions into a functional unit directly at the installation site.

In whole or in blocks for disassembly - advantageous for reconstruction of buildings. Complete chambers or equipment are delivered without glued joints (not sealed). It is thus possible to disassemble the components and transport the individual components (motors, fans, recuperation units, exchangers, panels) to the destination separately. Subsequently, the unit is folded back to its original state and sealed.

The price of delivery includes the delivery of both individual chambers which are connected to a functional unit on the construction site as well as accessories - sleeves, dampers, frequency converters.

Measurement and control - depending on the customer's requirements, VentiAir units can be equipped with integrated Plug & Play control - ideal for compact units that do not connect multiple chambers into a functional unit. In case of modular units, a completely fitted switchboard and other components are supplied separately for installation on site.

Hygienic design - VentiAir-TYPE units meet the requirements for air conditioning in all types of clean rooms, including healthcare, from a material, constructional and operational point of view.

Explosion-proof design zone II - the design of the units allows the installation of explosion-proof motors and fans.

Above-standard equipment of VentiAir air conditioning units - hinges with the possibility of turning left / right, sight glasses, epoxy coatings for swimming pool design, chemical operations, stainless steel design, surface treatment in RAL according to customer requirements, chamber lighting, etc.





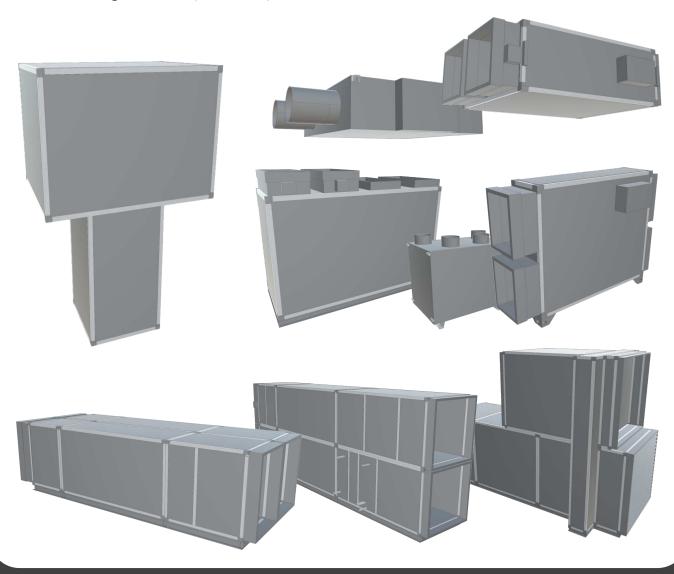
For the apartment or industry - VentiAir can do it all

Assembling and special units

- ♦ The basic production program is assembly units of frame construction
- ♦ Thanks to the variability of the design and the huge range of possible performance of the device, we can manufacture the device according to any requirements
- We also supply special units in swimming pool design, chemically resistant, with heat pumps or non-explosive design
- ◆ Thanks to almost unlimited possibilities, it is possible to further expand the production line − i.e. equipment out of the range of standard sizes

Compact units

- Units with minimal space requirements
- ♦ With the possibility of already integrated advanced regulation with high connectivity and access via Internet
- Several different types of connections and locations of units
- ♦ Unit flow ranges from 200 m³/h to 9 500 m³/h



S-TYPE - wide units

- air conditioning unit for rooms with a requirement for reduced installation height or installation on the roof
- preferred design in combination with rotary recuperation units the exchanger does not deviate from the profile of the unit
- chamber cross-section ratio 1: 2 (HxW), the resulting cross-section of the bi-directional unit is a square
- stable frame construction, basic frame height 100mm taller or adjustable legs on request
- 12 size ranges, any device configuration according to project requirements, air output of the unit from 1 000 m3 / h
- in this type, two or three fans are preferably placed in parallel in one chamber
- plug-fan fans with frequency converters or energy-saving EC motors
- PUR panel or mineral wool −25mm, 45mm, 50mm, 60mm, profiles with elimination of thermal bridges



W-TYPE - standard square units

- assembly air conditioning unit with square cross-section chambers
- vertical or horizontal design the unit can also be hung under the ceiling
- minimum requirements for servicing space
- air output of the unit from 1 000 m3 / h
- stable frame construction, basic frame height 100mm taller or adjustable legs on request
- 13 size ranges, any device configuration according to project requirements
- PUR panel or mineral wool —25mm, 45mm, 50mm, 60mm
- profiles with elimination of thermal bridges

P-TYPE - flat units

- ventilation unit in a very low design, usually as an under-ceiling one
- low height of units, according to size from 350mm
- highly efficient counter-current recuperation exchangers as standard equipment
- insulation sandwich PUR panel 25 mm, 45mm or 50mm mineral wool
- free-impeller fans controlled by frequency converters, EC fans
- possibility of integrated measuring and control system



PE-TYPE - duct system

- pipeline modular ventilation system
- individual components can be installed in the pipeline
- ullet high adaptability in case of complex constructions / reconstructions
- possibility of installation in any position
- low weight, easy connection and easy handling without technical demands
- in terms of operation and maintenance, it is a comparable device with conventional air conditioning units

K-TYPE - units with chimney neck system

- ventilation unit designed for installation in confined spaces
- the pipe connection is only from the top of the unit side by side, air output of the unit from 500 m^3/h
- the units are only intended for two-way air exchange with recuperation
- insulation sandwich PUR panel 25 mm, 45mm or 50mm mineral wool
- plug-fan fans with frequency converters or energy-saving EC motors
- units as standard as one transport unit, if required, can be produced in several sections
- stable frame design, basic frame height 100mm taller or adjustable legs on request

D - outdoor design

- \bullet design for outdoor / roof operation
- the units have shut-off dampers inside, a roof and optionally an intake and exhaust shutter
- you can choose from S-TYPE, W-TYPE, K-TYPE, P-TYPE

 K configurations

E - epoxy design

- design suitable for areas with chemically aggressive environments or for operations requiring thorough cleaning of internal components with water
- all elements of the unit are treated with epoxy resin to prevent corrosion
- in this design, units for swimming pools, electroplating plants, etc. are supplied for S, W, K and P-TYPEs avail.

H – hygienic design

- units intended primarily for hospitals
- the inner surfaces of the unit are treated with epoxy resin or are made of stainless steel
- the internal construction of the unit is further designed, any part of the unit can be effectively cleaned
- are installed sight-glasses into important chambers of the unit, variants H, HN ad HE

O – version with integrated heat pump

- the units are equipped with a complete heat pump circuit with compressor
- they are especially suitable for ventilation of swimming pool halls to reduce humidity
- they can also be used for all types of rooms where it is necessary to heat or cool with minimal costs and there is no space for a separate condensing unit

IF YOU HAVE NOT FOUND THE VARIANT YOU REQUESTED, DO NOT HESITATE TO ASK US. OUR TEAM WILL ANALYZE YOUR REQUIREMENT AND TRY TO FIND A SOLUTION THAT MEETS THE REQUIRED PARAMETERS.

P - plastic design

- the units are designed for environments with highly aggressive environments
- ideal for ventilation of galvanizing plants, where the air is removed directly from the production technology
- the unit also includes a durable plastic heat exchanger

VentiAir assembly units



Overview of basic types of VentiAir air conditioning units

The overview is used for your quick reference. Our sales and technical consultant will be happy to prepare a specific unit design for your project.





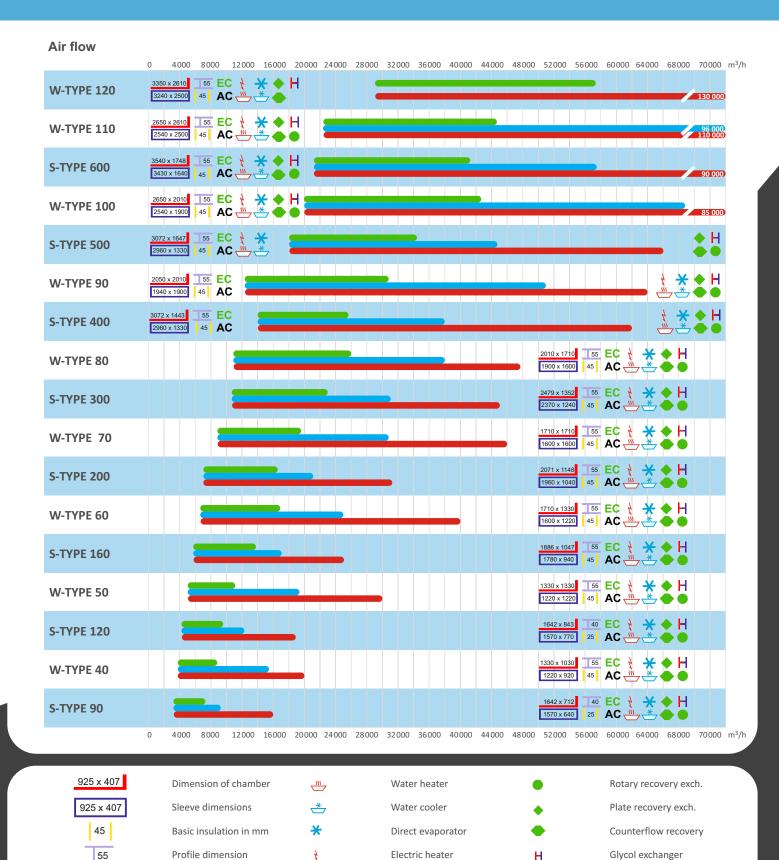


The tables show the approximate working ranges of our assembly units with regard to compliance with the Ecodesign 2018 standard.

For K-TYPE units, variants of only supply units with heating are not available - this type is intended exclusively for two-way ventilation.

P-TYPE units in their basic design do not allow the installation of a rotary heat exchanger. It is only available for the compact design - see another part of the catalogue.

VentiAir assembly units



EC AC Fan type
We also supply all assembly units with a gas heating module.

W-TYPE units can also be supplied in a horizontal design with chambers next to each other.

ATEX fans can be supplied for all types of units (except S-TYPE 30).

The units can be fitted with various types of filters: cassette, pocket, metal (grease), carbon, electrostatic. Filtration classes EU3-EU9 (or HEPA). The basic design of the panel is made of galvanized sheet 0.6 mm on both sides and PUR filling. There is also a choice of mineral wool, or a thicker layer of insulation (available 25, 45, 50, 60 mm - the chart above shows the basic minimum size).

Compact P-TYPE K units



P-TYPE K - suspended, vertical and floor unit

- compact air conditioning unit with heat recovery
- counter-current recuperation exchanger with high efficiency
- minimum dimensions, ceiling, floor and vertical design
- variant for outdoor operation
- for ventilation of offices, shops, schools, restaurants, etc.
- integrated by-pass damper, mixing damper option
- low noise design, eight sizes
- integrated control system
- digital controller, calendar, manual control, off-set
 - inputs for CO_2 , hygrostat, external max. speed switching MODBUS RTU, Ethernet control via internet
- filtration class standard F7 / M5 other variants possible
- possibility of heating (internal) and cooling (external)
- constant pressure and constant flow control







1100 900 5000 800 700 600 400 200 100 600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000 3200 3400 3600 3800 4000 4200 4400 4600 4800 5000 5200 5400 5600

	600	900	1200	1800	2400	3000	3600	5000
Air flow [m³/h]	600	900	1200	1800	2400	3000	3600	5000
Ac. pressure [dB(A)]*	41	41	45	53	45	47	52	43
Efficiency dry (max) [%]	76(84)	80(84)	79(82)	79(83)	77(82)	78(82)	75(82)	75(82)
Exchanger type	AL							
Control system	Integrated							
Filters (intake/exhaust)	F7/M5							
Ceiling design	Yes							
Vertical design	Yes							
Horizontal design	Indoor/outdoor							
Heating	W/El 1,8kW	W/El 2,6kW	W/El 9kW	W/El 13,5kW	W/El 13,5kW	W/EI 13,5kW	W/EI 18kW	W/El 18kW
Cooling	W/DX							
Voltage (fans) [V]	230	230	230	230	230	230	230	400
Fan [kW]	2x0,17	2x2x0,17	max 2x0,75	max 2x0,75	max 2x1,35	max 2x1,35	max 2x1,35	max 2x2,5
Protect. w/o heater [A]	1x4	1x8	1x6	1x6	1x10	1x15	1x15	3x13
Dimensions [mm]**	1224x730x395	1224x1224x395	1550x1300x420	1550x1600x420	1700x1600x500	1700x2000x500	2100x1700x650	2850x1545x1100
Connection [mm]	250x340	460x315	500x340	660x340	650x435	850x435	700x560	700x560
Weight [kg]	75	90	150	220	250	300	320	550

flow rates and other parameters may vary according to the specific unit configuration, the characteristic is valid for the reference configuration with electric heating and filters F7 / M5, ex. pressure 200 Pa, component performance values are maximum - less powerful component variants are possible

sound pressure at a distance of 1 meter from the unit for mineral wool 50mm insulation

^{**} dimension for basic 25mm PUR standard

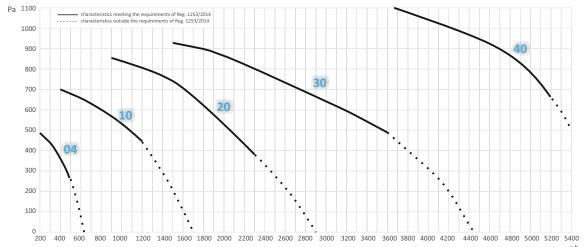
P-TYPE K R - under-ceiling, parapet and floor unit

- compact air conditioning unit with heat recovery
- two high-efficiency rotary heat exchangers
- minimum dimensions, ceiling and vertical design
- variant for outdoor operation
- for ventilation of family houses, offices, shops, restaurants, etc.
- mixing damper option
- low noise design, five sizes
- integrated control system
- digital controller
- calendar, manual control, off-set
- inputs for Co₂, hygrostat, external max. speed switching MODBUS RTU, Ethernet control via internet
- filtration class standard F7 / M5 other variants possible
- constant pressure and constant flow control
- possibility of heating (internal) and cooling (external)









	04	10	20	30	40	
Flow rate (nom.) [m ³ /h]	400	1000	2000	3000	4000	
Acoustic pressure [dB(A)]*	40	38	42	48	44	
Efficiency dry (max) [%]	79(83)	79(86)	78(84)	78(84)	82(85)	
Exchanger type	Rotary	Rotary	Rotary	Rotary	Rotary	
Control system	Integrated	Integrated	Integrated	Integrated	Integrated	
Filters (intake/exhaust)	F7/M5	F7/M5	F7/M5	F7/M5	F7/M5	
Ceiling design	Yes	Yes	Yes	Yes	Yes	
Vertical design	Yes	Yes	Yes	Yes	Yes	
Floor horizontal design	Yes	Indoor/outdoor	Indoor/outdoor	Indoor/outdoor	Indoor/outdoor	
Heating	Water/El 2,2kW	Water/El 6kW	Water/El 12kW	Water/El 18kW	Water/El 27kW	
Cooling	Ne	Voda/DX	Voda/DX	Voda/DX	Voda/DX	
Voltage (fans) [V]	230	230/400	230/400	230/400	230/400	
Fan [kW]	0,17	0,38	0,5	0,78	max 1,35	
Protect. w/o heater [A]	4	3,5	5	9	14	
Dimensions [mm]**	1150x706x350	1500x1300x500	1650x1400x615	1650x1500x731	1800x1600x845	
Connection [mm]	200	500x430	550X540	600x650	650x770	
Weight [kg]	130	190	240	290	330	

flow rates and other parameters may vary according to the specific unit configuration, the characteristic is valid for the reference configuration with electric heating and filters F7 / M5, ex. pressure 200 Pa, component performance values are maximum - less powerful component variants are possible

sound pressure at a distance of 1 meter from the unit for mineral wool 50mm insulation

^{**} dimension for basic 25mm PUR standard

Compact units K-TYPE R



K-TYPE R - chimney unit

- compact air conditioning unit with heat recovery
- high-efficiency rotary heat exchangers
- minimum dimensions
- variant for outdoor operation
- for ventilation of family houses, offices, shops, restaurants, etc.
- possibility of mixing damper
- low noise design, five sizes
- integrated control system
 - digital controller
 - calendar, manual control, off-set
 - inputs for CO₂, hygrostat, external max. speed switching MODBUS RTU, Ethernet control via internet
- filtration class standard F7 / M5 other variants possible
- possibility of integrated heating and cooling
- constant pressure and constant flow control







1200						
1100	$\cdots \setminus \cdots$				eting the requirements of Reg. 1253/2014 side the requirements of Reg. 1253/2014	
1000	\ <u>\</u>					
800					40	
700	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				100	
600)		30		7.	
500	$\backslash\!\!\!\backslash$	20				
400	-	\-\				
200	· · · · · · · · · · · · · · · · · · ·		<u>_</u>	7		
100		· · · · · · · · · · · · · · · · · · ·				
0 1000 1500 2000 2500 3000	3500 4000 4500	5000 5500	6000 6500 7000	7500 8000	8500 9000 9500	
1000 1300 2000 2300 3000	0	10	20	30	m³/h	
	-	-	-			
Flow rate (nom.) [m³/h]	2000	3000	4500	5500	7500	
Acoustic pressure [dB(A)]*	43	47	54	44	46	
Efficiency dry (max) [%]	82(85)	79(85)	78(85)	82(85)	83(85)	
Exchanger type	Rotary	Rotary	Rotary	Rotary	Rotary	
Control system	Integrated	Integrated	Integrated	Integrated	Integrated	
Filters (intake/exhaust)	F7/M5	F7/M5	F7/M5	F7/M5	F7/M5	
Outdoor design	Yes	Yes	Yes	Yes	Yes	
_Heating	Water/El 9kW	Water/El 18kW	Water/El 18kW	Water/El 18kW	Water/El 54kW	
Cooling	Water/DX	Water/DX	Water/DX	Water/DX	Water/DX	
Voltage (fans) [V]	230	230	230	400	400	
Fan [kW]	max 0,5	max 1,35	max 1,35	max 2x1,35	max 2x2,5	
Protect. w/o heater [A]	4	14	14	8	16	
Width x height [mm]**	2200x1150	2200x1250	2200x1350	2500x1550	2500x1700	
Depth [mm]**	845	925	1049	1253	1642	
Connection [mm]	310x770	310x850	310x980	435x1180	435x1570	
Weight [kg]	275	420	460	610	740	
l	·					

flow rates and other parameters may vary according to the specific unit configuration, the characteristic is valid for the reference configuration with electric heating and filters F7 / M5, ex. pressure 200 Pa,

component performance values are maximum - less powerful component variants are possible sound pressure at a distance of 1 meter from the unit for mineral wool 50mm insulation

 $[\]ensuremath{^{**}}$ dimension for basic 25mm PUR standard

K-TYPE K

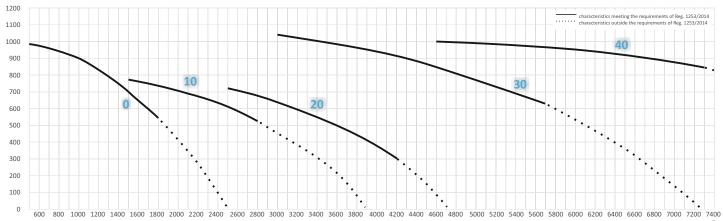
Pa

- compact air conditioning unit with heat recovery
- economical EC motors
- counterflow heat recovery exchanger with high efficiency
- designed for indoor use, outdoor version on demand for ventilation of family houses, offices, shops, restaurants, etc.
- integrated control system
- digital controller
- calendar, manual control, off-set
- inputs for Co₂, hygrostat, external max. speed switching
- MODBUS RTU, Ethernet control via internet filtration class standard F7 / M5 other variants possible
- constant pressure and constant flow control possibility of heating and cooling (water / electric / direct evaporation)
- 5 unit sizes for use in each project









	0	10	20	30	40
Air flow (nom.) [m³/h]	1000	2000	3500	5000	6000
Acoustic pressure [dB(A)] v 1m	35	38	42	43	44
Efficiency dry (max) [%]	76(85)	78(83)	77(83)	77(83)	78(82)
Exchanger type	Counterflow	Counterflow	Counterflow	Counterflow	Counterflow
Control system	Integrated	Integrated	Integrated	Integrated	Integrated
Filters (intake/exhaust)	F7/M5	F7/M5	F7/M5	F7/M5	F7/M5
Outdoor design	Ano	Ano	Ano	Ano	Ano
Heating	Water/El 9kW	Water/El 18kW	Water/El 18kW	Water/El 24kW	Water/El 36kW
Cooling	Water/DX	Water/DX	Water/DX	Water/DX	Water/DX
Voltage (fans) [V]	230	400	400	400	400
Fan [kW]	max 0,78	max 2,5	max 2,5	max 3,3	max 3,3
Protect. w/o heater [A]	9	8	8	11	11
Width x height [mm]**	2000x1100	2550x1550	2550x1550	2550x1550	2550x1550
Depth [mm]**	730	730	995	1253	1642
Connection [mm]	400x650	435x650	435x920	435x1180	435x1570
Weight [kg]	280	360	460	550	650

flow rates and other parameters may vary according to the specific unit configuration, the characteristic is valid for the reference configuration with electric heating and filters F7 / M5, ex. pressure 200 Pa, component performance values are maximum - less powerful component variants are possible sound pressure at a distance of 1 meter from the unit for mineral wool 50mm insulation

^{**} dimension for basic 25mm PUR standard



T-TYPE - school unit for ventilation of each class

- compact air conditioning unit with heat recovery
- meets the high demand for low noise only 35 dB
- easy to install to class
 security against unauthorized entry into the unit and its control
 standing and ceiling design
 possibility to connect to the superordinate system

- integrated by-pass damper integrated CO₂ sensor
- integrated CO₃ serison
 integrated control system
 digital controller
 calendar, manual control, off-set
 MODBUS RTU, Ethernet control via Internet
- filtration class standard F7 / M5 $\,$
- possibility of heating possibility UV air desinfection





	400	600	850	
Air flow (nom./max) [m³/h]	400/600	600/800	850/950	
Acoustic pressure [dB(A)] v 1m	35	35	35	
Efficiency dry (max) [%]	81(85)	80(85)	80(85)	
Exchanger type	Counterflow	Counterflow	Counterflow	
Control system	Integrated	Integrated	Integrated	
Filters (intake/exhaust)	F7/M5	F7/M5	F7/M5	
Installation	Floor	Floor	Floor	
Heating	El 1,2kW	El 1,8kW	El 2,2kW	
Cooling	N/A	N/A	N/A	
Voltage [V]	230	230	230	
Fan [kW]	2x0,17	2x0,17	2x2x0,17	
Current without heating [A]	2x1,75	2x1,75	2x2x1,75	
Dimensions [mm]	650x650x1500	650x809x2040	650x809x2040	
Connection [mm]	200	250	315	
Weight [kg]	70	85	105	

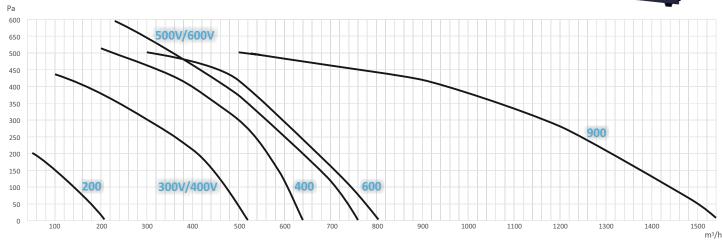
REKU-TYPE V, H

- compact air conditioning unit with heat recovery
- economical EC motors
- counterflow recuperation exchanger with high efficiency
- chimney, under-ceiling and parapet design
- designed for indoor use
- for ventilation of family houses, offices, shops, restaurants, etc.
- integrated control system
- digital controller
- calendar, manual control, off-set
- inputs for Co₂, hygrostat, external max. speed switching MODBUS RTU, Ethernet control before the Internet
- filtration class standard M5 / M5 other variants possible
- possibility of heating and cooling (water / electric / direct evaporation)
- 8 unit sizes for use in each project









			400 V	400	500 V	600 V	600	900
	200	300 V	400 V	400	500 V	600 V	600	900
Air flow (nom.) [m³/h]	200	300	400	400	500	600	600	900
Acoustic pressure [dB(A)]*	45	45	46	44	44	47	46	46
Efficiency dry (max) [%]	79(86)	76(86)	77(88)	79(86)	76(84)	78(87)	79(84)	80(85)
Exchanger type	Counterflow	Counterflow	Counterflow	Counterflow	Counterflow	Counterflow	Counterflow	Counterflow
Control system	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Filters (intake/exhaust)	M5(F7)/M5	F7/M5	F7/M5	F7/M5	F7/M5	F7/M5	F7/M5	F7/M5
Pipeline connection	Horizontal	Vertical	Vertical	Horizontal	Vertical	Vertical	Horizontal	Horizontal
Heating	El 1,0kW	El 1,0kW	El 1,0kW	El 1,8kW/Voda	El 1,5kW	El 1,5kW	El 1,8kW/Voda	El 2,2kW/Voda
Cooling	N/A	N/A	N/A	Water/DX	N/A	N/A	Water/DX	Water/DX
Voltage (fan) [V]	230	230	230	230	230	230	230	230
Fan [kW]	2x0,06	2x0,12	2x0,12	2x0,17	2x0,17	2x0,17	2x0,17	2x2x0,17
Current without heating [A]	2x0,26	2x0,85	2x0,85	2x1,75	2x1,03	2x1,33	2x1,75	2x2x1,75
Floor plan [mm]	724x677	970x510	970x510	556x1150	970x710	970x710	706x1150	1200x1150
Height [mm]	380	790	790	350	790	790	350	350
Connection [mm]	160	160	160	200	200	200	200	250
Weight [kg]	50	61	61	70	86	86	70	105

^{*} flow rates and other parameters may vary according to the specific unit configuration, the characteristic is valid for the reference configuration with electric heating and filters M5 / M5, ex. pressure 200 Pa (exc. REKU-TYPE 200), component performance values are maximum - less powerful component variants are possible

^{*} sound pressure at a distance of 1 meter

R-TYPE compact roof units



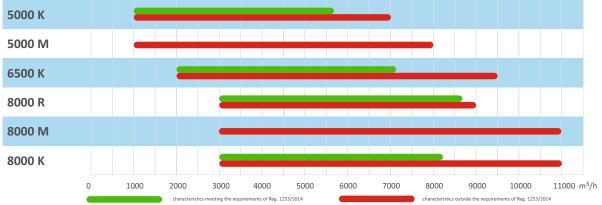
R-TYPE - compact roof unit for easy installation

- compact air conditioning unit with heat recovery
- economical EC motors
- designed for direct installation in the penetration of the roof
- rekuperační výměníky s vysokou účinností counterflow, rotary exchnager or mixing chamber
- for ventilation, especially of industrial, production and storage halls
- integrated control system
- digital controller
 - calendar, manual control, off-set
 - inputs for Co₂, hygrostat, external max. speed switching MODBUS RTU, Ethernet control before the Internet
- filtration class standard F7 / M5 other variants possible
- possibility of heating and cooling (water / electric / direct evaporation)
- choice from three unit sizes









	5000 K	5000 M	6500 K	8000 R	8000 M	8000 K
Air flow (nom.) [m³/h]	5000	5000	6500	8000	8000	8000
Acoustic pressure [dB(A)]	73	73	75	70	80	80
Efficiency dry (max) [%]	78(81)	-	74(80)	78(85)	-	74(79)
Exchanger type	Counterflow	Mixing chamber	Counterflow	Rotary	Mixing chamber	Counterflow
Control system	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Filters (intake/exhaust)	F7/M5	F7/M5	F7/M5	F7/M5	F7/M5	F7/M5
Mixing	Yes	Yes	Yes	Yes	Yes	Yes
Heating	Water/El 45kW	Water/El 45kW	Water/El 36kW	Water/El 36kW	Water/El 36kW	Water/El 36kW
Cooling	Water/DX	Water/DX	Water/DX	Water/DX	Water/DX	Water/DX
Fan voltage [V]	230	230	230	230	400	400
Fan [kW]	2x0,78	2x1,35	2x1,35	2x1,35	2x2,5	2x2,5
Current w/o heating [A]	2x4	2x6,7	2x6,7	2x6,7	2x4	2x4
Floor plan [mm]	1290x2100	1290x2100	1680x2100	1680x2300	1680x2100	1880x2100
Height [mm]	1850+1750	1850+1750	1850+1750	1850+1500	1850+1750	1850+1750
Connection [mm]	900x900	900x900	1100×1100	1100x1100	1100×1100	1100x1100
Weight [kg]	500	350	600	760	400	500

^{*} flow rates and other parameters may vary according to the specific configuration of the unit, the characteristic is valid for the reference configuration with electric heating and filters F7 / M5, ex. pressure 50Pa, component power values are maximum - less powerful component variants are possible

^{*} sound pressure at a distance of 1 meter

Units with integrated heat pump

Units not only for swimming pools



the delivery includes a complete compressor circuit, including all components

units are most often used for ventilation of pool halls in order to reduce humidity

they are also preferably used for heating and cooling where it is not possible to place an external condensing unit configuration is available for most models of our units



Limited transport routes - no problem

especially during reconstructions, there is a situation where it is not possible to transport the units to the installation site in standard assembly units

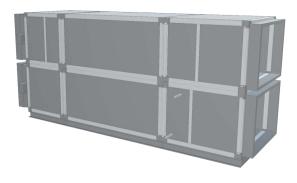
we can design the units so that each functional unit will have a separate chamber and in case that even this measure does not comply with ones needs, we can disassemble the units on site and reassemble at the installation site again



Each unit size can be designed in several configurations

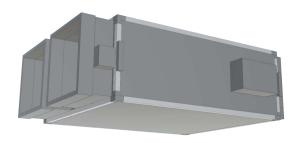
Unit type W-TYPE 20, 21 and 25 – i.e. chambers above each other, next to each other and next to each other in a low design.

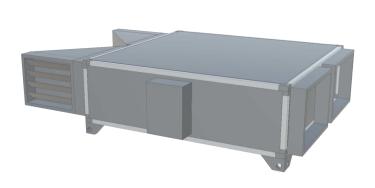






Unit type P-TYPE 1200 in under-ceiling, parapet and roof horizontal version





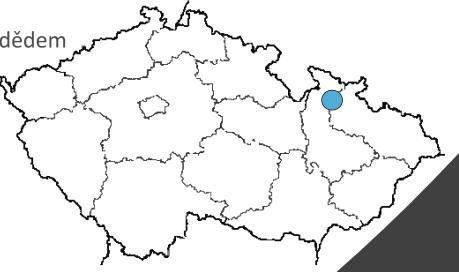


Production of VentiAir s.r.o.

Adolfovice 512
790 01 Bělá pod Pradědem

Jeseník

Czech Republic



European sales offices and distribution



Contacts

VentiAir s.r.o.

Adolfovice 512

790 01 Bělá pod Pradědem IČ: 06935320 DIČ: CZ06935320

Č.U.: 2522523/5500 (Raiffeisenbank, a.s.) IBAN: CZ6955000000000002522523

tel.: +420 737 805 399
e.mail: obchod@ventiair.com
web: www.ventiair.com



