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WANAS®

PRODUCT CATALOG







The WANAS company is a Polish manufacturer of modern ventilation units called recuperators. The production plant is located in Rzeszów in the Podkarpackie voievodeship. Many years of work in the ventilation and heating industry, experience and passion for creation have resulted in the invention of energy-saving and reliable recuperators.

To create our products, we used the knowledge about the needs of the end user, which in turn allowed us to design products that ensure a high level of comfort of use in both residential and service construction.

The recipients of our products are customers from all over Poland, and since 2015 we have been constantly expanding the export of our products to European Union countries and eastern markets. We offer recuperators with a capacity **from 200 to 1380 m³/h**. Our products are characterized by quiet operation, high thermal efficiency, low energy consumption and low operating costs related to the replacement of filters. As standard, recuperators have an intuitive, touch-sensitive controller.

By purchasing the internet module, it is possible to control the unit online via a mobile application.

Interest in the subject of mechanical ventilation and customer awareness is growing year by year, which mobilizes us to create new, innovative solutions that meet the expectations of the most demanding users.

Our engineers and employees make every effort to ensure that the final product is of the highest quality - from design to production. We are constantly striving to ensure that WANAS recuperators serve their users in the best possible way in everyday life, being characterized by functionality and high comfort of use.

KNOW OUR SOLUTIONS



The standard recuperator is equipped with a V2 DISPLAY.



The recuperator is standardly equipped with a V3 controller.



Modbus RTU is one of the most popular communication protocols in automation systems - it allows you to connect the recuperator to the so-called smart home.



The XF system enables automatic balancing of the installation by continuously measuring the current supply and exhaust air flow.



Air handling unit has a modern, smart pre heater that adjusts its power to the temperature of the air, its amount and flow.



The standard recuperator has a built-in internet module, thanks to which it can be remotely controlled.



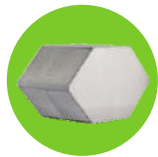
Bypass is used to cool the rooms. It is activated mainly in the summer, when the temperature in the room is higher than the comfort temperature and the outside temperature at night is lower than it.



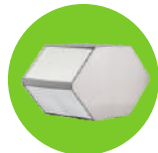
The evaporative air humidifier used inside the unit will help maintain the appropriate level of humidity in the rooms, especially in winter.



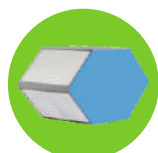
The recuperator has ready integration with the Sinum system, a Polish building management system for controlling and monitoring building devices.



The recuperator has an aluminum counterflow heat exchanger. The heat exchanger maintains the best ratio of efficiency to air flow resistance.



The plastic, high-efficiency counterflow heat exchanger used in the recuperator is made of high quality polystyrene.



The enthalpy exchanger recovers both heat and humidity.



To ensure high hygiene and durability, the inside of the recuperator was powder coated with polyester paint.



The body of the recuperator is made entirely of durable foamed polypropylene.



The built-in heater-cooler module, when connected to a heat and/or cooling source, will additionally cool or heat up the air supplied to the rooms.



The recuperator has a wireless humidity sensor included in the price.



The recuperator has ready integration with the Home Assistant system, one of the most popular building control systems.

CHOOSE THE BEST RECUPERATOR FOR YOU

COMBO



This is the only heat recovery unit on the market that combines up to four functions: ventilation, air humidification, heating, and cooling. Its innovative construction, the use of highly efficient heat exchangers, and modular heating ensure lower operating costs and high comfort in the building.



BLACK



The BLACK series of heat recovery units features a housing made entirely of durable expanded polypropylene. Its construction and the use of modern technology allow the unit to achieve exceptional performance. The units feature a universal – dual-sided – design, allowing the installer to independently modify the unit into the “left” or “right” version.



HI-TECH

The HI-TECH series of heat recovery units represents the latest technological solutions in a compact design. It features an illuminated logo, an internet module, and a wall-mounted glass controller for precise control combined with modern aesthetics design.



CLASSIC

An attractive price combined with proven solutions – you can find this in the best-selling Wanas CLASSIC heat recovery units.



CEILING-MOUNTED

These devices are designed for ceiling installation, saving space on walls and in rooms.



HIGH STANDARD OF EQUIPMENT

All heat recovery units come fully equipped with: an intelligent touch controller, connection cables for unit control, wall mounting bracket, and a complete set of installation accessories. This system is standard in every purchased heat recovery unit, with no additional fees. Due to their dimensions, the 800 V/H XF, 830 V/H, 1030 H, 1330 H, 915 XF and 1315 XF recuperators are equipped with adjustable feet and do not have a wall bracket. The wall-mounted controller allows easy access and intuitive control.

CARBON DIOXIDE SENSOR

CO₂Rcontrol

REMOTELY
CONTROL
THE LEVEL OF
CO₂



DISTRIBUTE
INSTALLATION
IN TWO ZONES

3 VENTILATION
CONTROL
OPTIONS



3 OPTIONS FOR ZONE VENTILATION CONTROL

OPTION 1 Use of two CO₂ sensors (in the night zone and in the day zone) with automatic redirection of air depending on the CO₂ concentration.

OPTION 2 The use of a single CO₂ sensor in, for example, a bedroom, which controls the damper in the event that the set CO₂ level is exceeded.

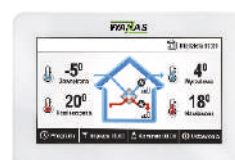
OPTION 3 Time-based control without sensors CO₂ sensor-free time control, based on hourly schedule.



Parameter

Unit

CO ₂ measuring range	ppm	from 400 to 3 000
Energy consumption	W	1
Frequency of operation	Mhz	868
Height	mm	79
Width	mm	79
Depth	mm	18
Power supply	V	24

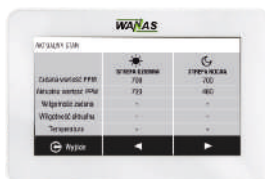


The CO₂Rcontrol radio sensor measures the concentration of carbon dioxide in the air and controls the operation of the recuperator according to the demand for fresh air. If the activity of the occupants increases, the CO₂ concentration rises, forcing the recuperator to run in gear 3. When the set threshold value is reached, the recuperator returns to the weekly schedule once the CO₂ concentration has normalised.



DISCOVER THE 7 ADVANTAGES OF ZONED VENTILATION

1. ZONING SYSTEM
2. AUTOMATIC VENTILATION INTENSITY CONTROL
3. REDUCED FAN ENERGY CONSUMPTION
4. THREE ZONE VENTILATION CONTROL OPTIONS
5. REDUCED ENERGY LOSS
6. LOWER AIR DRYING EFFECT IN WINTER
7. QUIET OPERATION OF THE ENTIRE SYSTEM



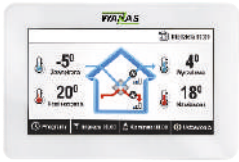
The system allows operation at lower fan speeds (Speed 1), reducing energy consumption while still maintaining proper ventilation levels throughout the building. Moreover, thanks to automatic adjustment to carbon dioxide (CO₂) levels in individual zones, the unit can automatically increase ventilation intensity whenever required. Airflow can also be manually adjusted using time-based settings. The system can be tailored to individual preferences by defining operating hours for day and night zones. With zone-based ventilation, the system minimizes energy losses by focusing ventilation only on areas where it is currently needed, rather than ventilating the entire building at the same intensity.

CARBON DIOXIDE SENSOR

CO₂ Control

MAINTAINS
OPTIMAL
LEVEL

CO₂



Parameter	Unit	
CO ₂ measuring range	ppm	from 400 to 2 000
Energy consumption	W	1,5
Frequency of operation	Mhz	868
Height	mm	79
Width	mm	79
Depth	mm	18
Power supply	V	2-24



The CO₂ Control wired sensor is used to measure the concentration of carbon dioxide in the air and to control the operation of the recuperator depending on the demand for fresh air in the building. As the activity of the occupants increases, the concentration of carbon dioxide in the rooms increases and thus the need for more efficient ventilation. When the set threshold value is exceeded, the recuperator is forced to work in gear 3. When the value of CO₂ concentration in the room decreases, the recuperator returns to work according to the weekly schedule.

WIRELESS SENSOR

maxiControl

UP TO
60



METERS
OF RANGE

Parameter	Unit	
Temperature measurement range	°C	from -30 to 50
Humidity measurement range	% RH	from 10 to 95
Frequency of operation	Mhz	868
Height	mm	79
Width	mm	79
Depth	mm	18
Battery-powered operation	-	2xAAA
Operating range in open space	m	60

2 PARAMETERS
READ
SIMULTANEOUSLY
°C RH



maxiControl is a wireless room sensor designed to measure indoor humidity and temperature. The sensor enables humidifier control and automatically forces the unit to operate at Speed I or Speed III, depending on the current humidity level in the room. The device features a modern design and an extended operating range of up to 60 meters. The sensor is compatible with WANAS heat recovery units equipped with the Display V2 controller, as well as with WANAS UMECTO humidifiers. It is frequently installed in bathrooms to automatically increase system performance when humidity levels exceed the set threshold.

ROOM SENSOR

roomControl

V1

COMPATIBLE
WITH THE WALL
CONTROLLER

80 mm x 80 mm x 21,6 mm



2

PARAMETERS
READ
SIMULTANEOUSLY
°C RH



Parameter	Unit	
Humidity settings range	%RH	from 30 do 80
Operating temperature	°C	from 5 do 50
Humidity measurement error	%RH	+/- 3,5
Max. contact load capacity	A	1
Power supply	-	2xAAA, 1,5V
Width	mm	80
Hight	mm	80
Depth	mm	21,6

roomControl is a two-mode, wired sensor that controls the operation of a recuperator. The sensor is designed to read the temperature and relative humidity in the room, and subsequently, to maintain the pre-set humidity based on the readings. The device is equipped with a display for ongoing measurement reading. The HIS function allows setting the air humidity hysteresis from 5% to 25% by entering the tolerance above which the device switches the humidifier on to achieve the required humidity level. The sensor is compatible with WANAS CLASSIC series recuperators and WANAS UMECTO humidifiers. The roomControl sensor can be connected to the ventilation system using the 2 x 0.75 cable.

Your favorite sensors IN TWO COLOR OPTIONS



CO₂Rcontrol



CO₂Control



maxiControl

AIR HANDLING UNITS

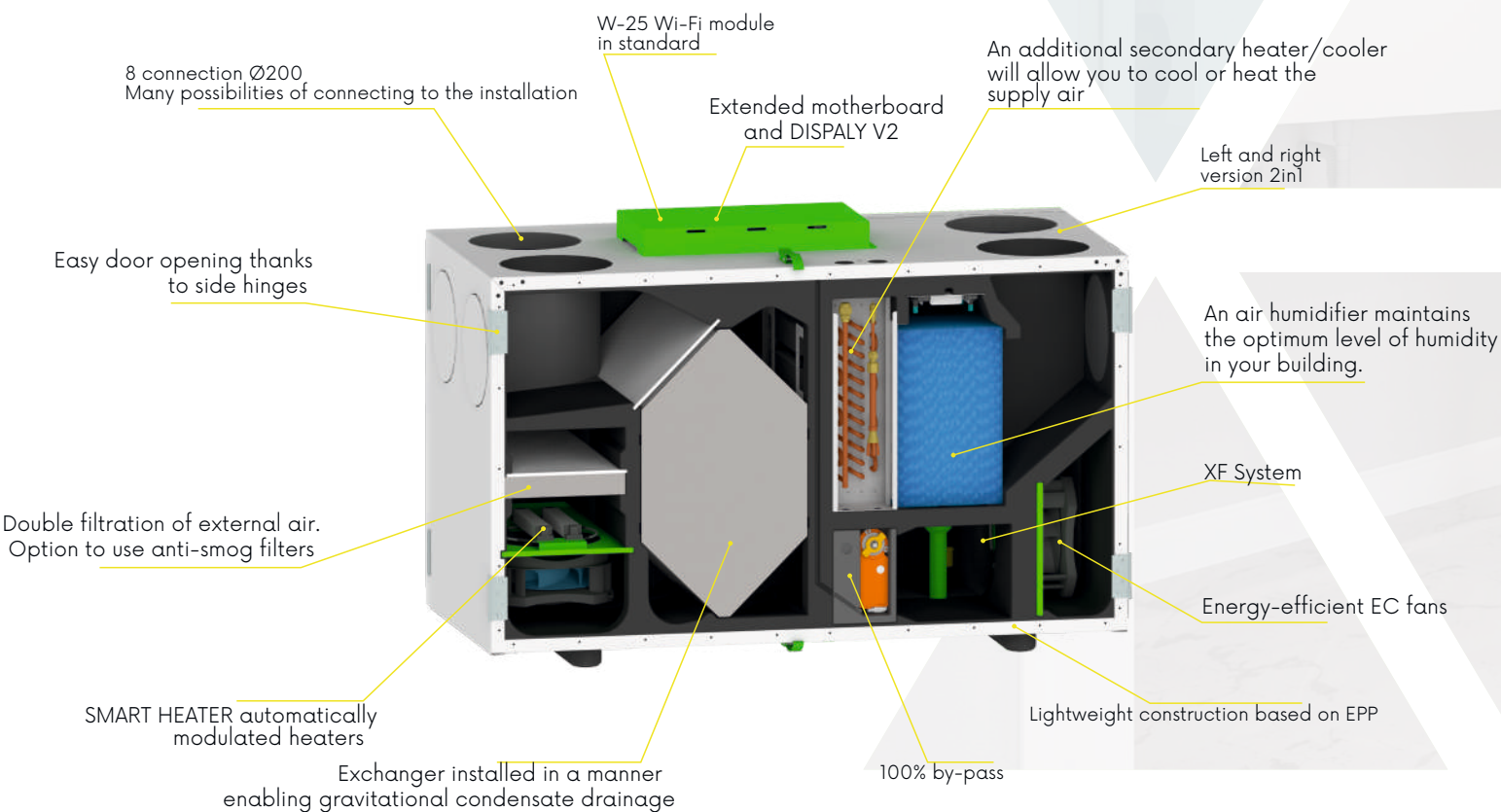
COMBO 4in1



AIR HANDLING UNIT **WANAS 830 V/H COMBO**

The unique solution used in COMBO recuperators is protected by a patent application of the Republic of Poland.

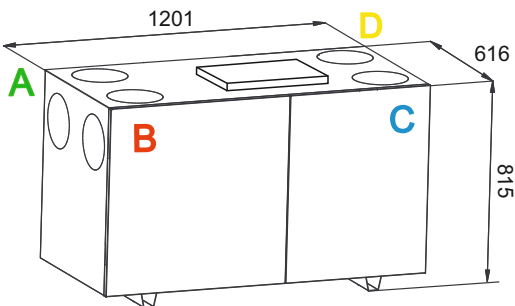
SEE INSIDE



WANAS – COMBO – 430 V/H – 630 V/H



430 V/H 630 V/H



RIGHT and LEFT VERSION 2 in 1

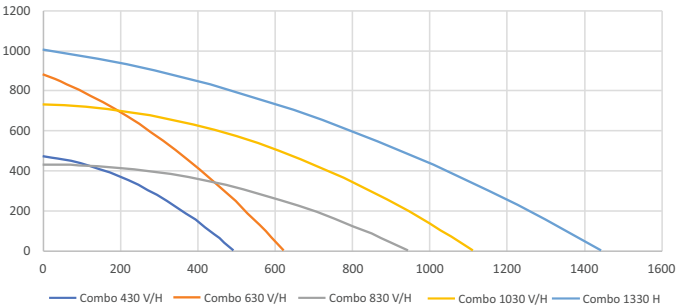
The WANAS COMBO is the only heat recovery unit available on the market that can combine up to four units in a single housing. This unique air handling unit is not only a unique combination of a humidifier and heat recovery unit in a single housing. The use of an additional water or freon heater/cooler module allows for additional cooling or heating of the supply air. The heat recovery unit is an ideal solution for homes equipped with a heat pump or other heating and/or cooling source.

- A - air drawn from outside the building
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COMBO TECHNICAL DATA

		430 V/H	630 V/H
Maximum flow rate at 100 Pa	m ³ /h	430	575
Ventilated area up to	m ²	195	260
Energy efficiency class	-	A	A
Efficiency up to	%	90	90
Energy consumption	W	18-197	18-337
Preheater power	W	1000	1000
Diameter of the nozzles	mm	200	200
Sound power level Gear I	dB(A)	36	36
Filtration class	-	ISO COARSE 75% + ePM 10 50%	
Weight	kg	59	59
Type of exchanger	-	plastic	plastic
Automation	-	V2	V2
Wall controller	-	yes	yes
System XF	-	yes	yes
Internet module	-	yes	yes

Resistance/Performance



BASIC VERSION

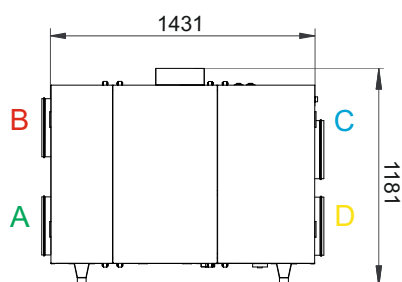


*1330 H

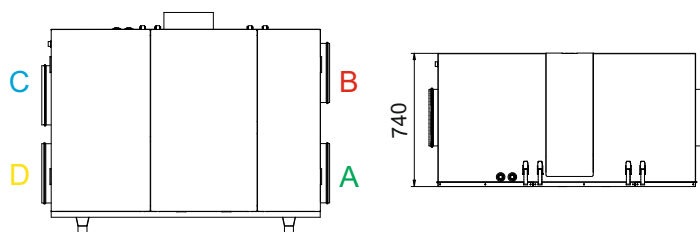
ADDITIONAL
OPTIONS



1330 H



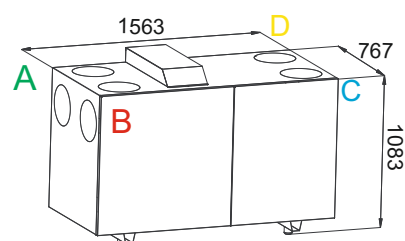
RIGHT VERSION



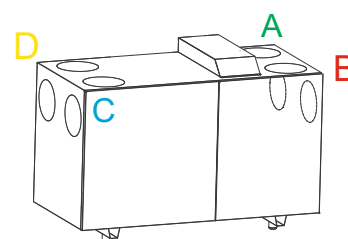
LEFT VERSION

- A - air drawn from outside the building
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830 V/H 1030 V/H



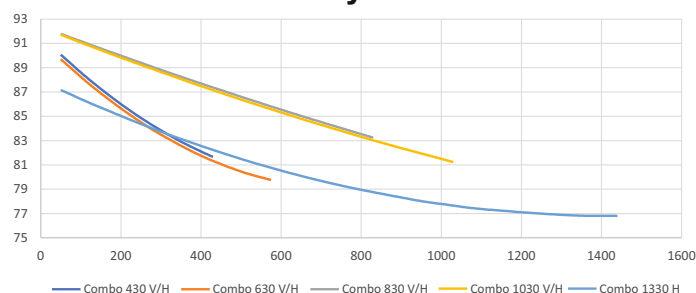
RIGHT VERSION



LEFT VERSION

830 V/H	1030 V/H	1330 H
830	1030	1330
375	465	600
A	A	A
92	92	87
37-371	33-670	27-674
2000	2000	3000
250	250	315
41,5	41,4	34,2
ePM 10 50%	ePM 10 50%	ePM 10 50%
155,5	158	163
plastic	plastic	aluminium
V2	V2	V2
yes	yes	yes
yes	yes	yes
no	no	no

Efficiency/Performance

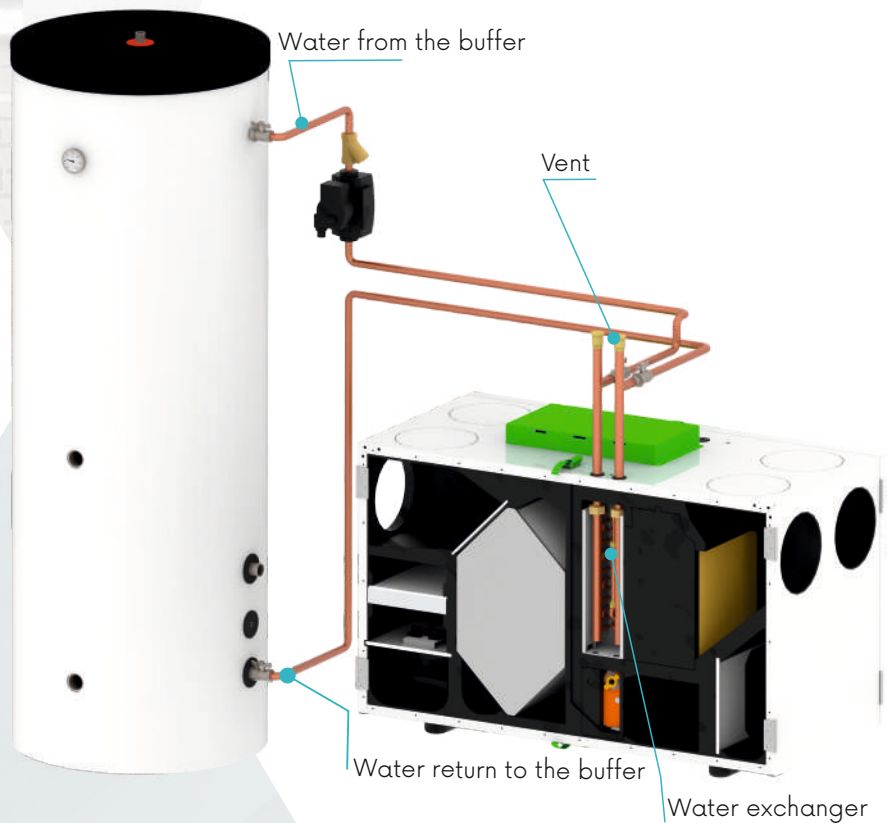


*430 V/H, 630 V/H

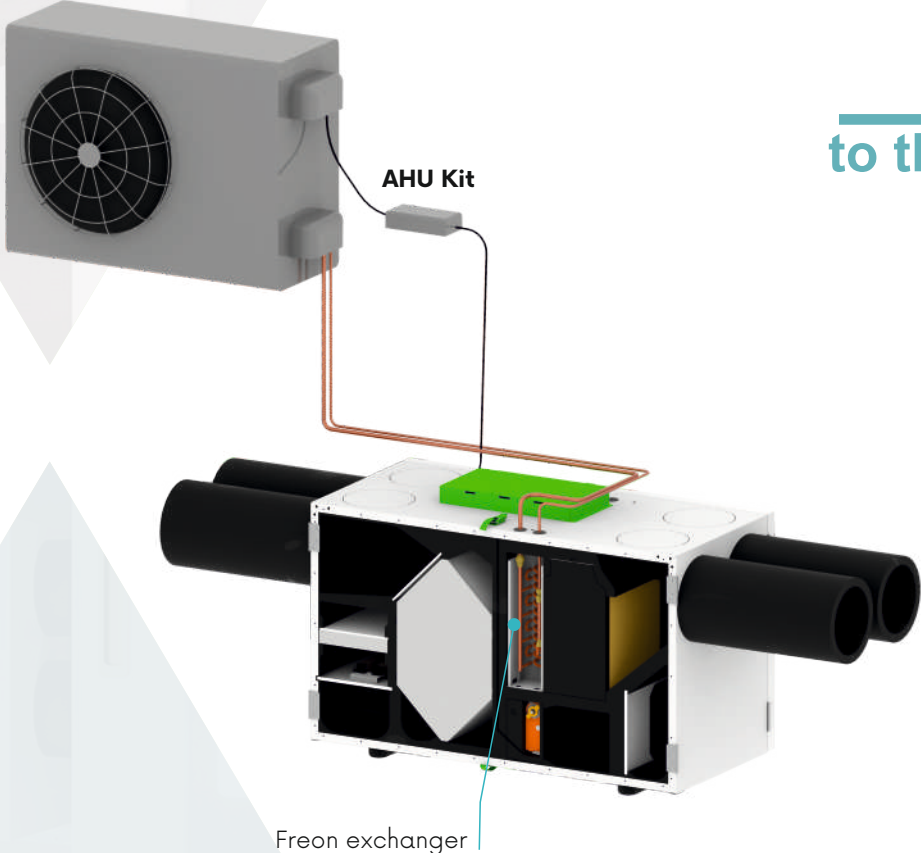


CONNECTING THE RECUPERATOR

to the buffer



Refrigeration unit with a maximum cooling capacity of 5.3 kW



to the aggregate

Heating, cooling and dehumidifying air in one system

The COMBO heat recovery unit can be equipped with a water heater/cooler, powered by a buffer tank that works with the heat pump. This solution allows not only for heat recovery from ventilation, but also for active shaping of supply air parameters throughout the year.

Comfort in winter – active airflow heating

In winter, the COMBO recuperator uses a water heater to additional heating of the supply air. Thanks to this:

- the feeling of cold air is eliminated,
- it is possible to support room heating with ventilation air,
- energy comes from a high-efficiency heat pump, ensuring low operating costs.

The system works stably even at low outside temperatures, and the air supply temperature is controlled.

Summer comfort – cooling and moisture reduction

In summer, the same system operates as a water cooler, lowering the temperature of the supply air from approximately 30°C to as little as 15°C. Additionally, during cooling, excess moisture is removed from the air, significantly improving indoor comfort:

- the air is cooler and drier,
- the feeling of shortness of breath decreases,
- sleep and work comfort improves.

COMBO heat recovery unit with a freon cooler and external unit – the highest level of comfort

This solution provides independent heating or cooling and dehumidification of the air supplied in the summer.

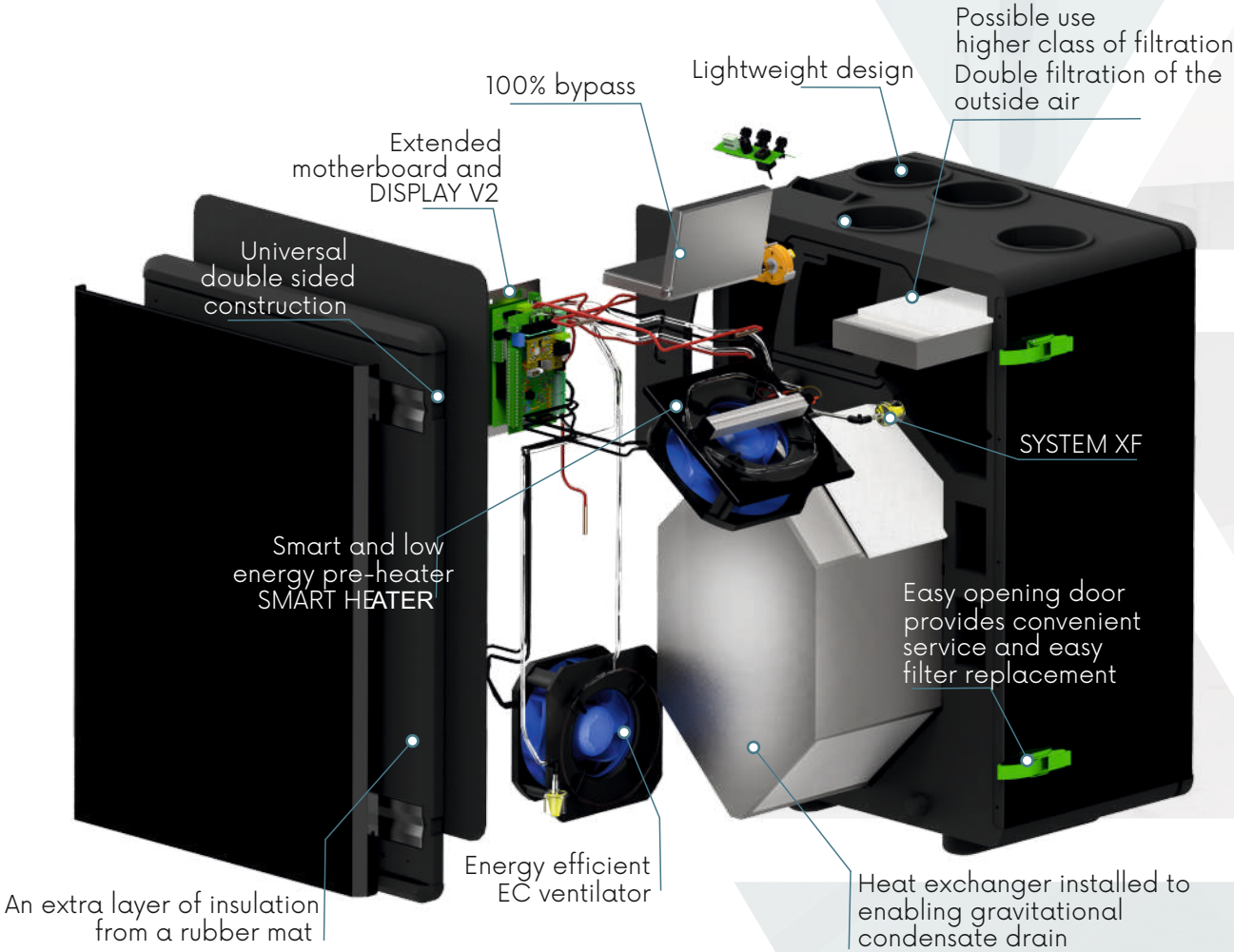
The system can be configured with an external refrigeration unit and a Freon cooler built into the heat recovery unit. This is an ideal solution for buildings that do not have a buffer tank or water cooling system, or where the buffer tank temperature is primarily used for underfloor heating. The supply air temperature in winter is not dependent on the buffer tank temperature and can be higher, ensuring greater comfort and faster air humidification in the building. The entire system is controlled by the V2 controller, which is included with the COMBO heat recovery unit.

AIR HANDLING UNITS **BLACK**

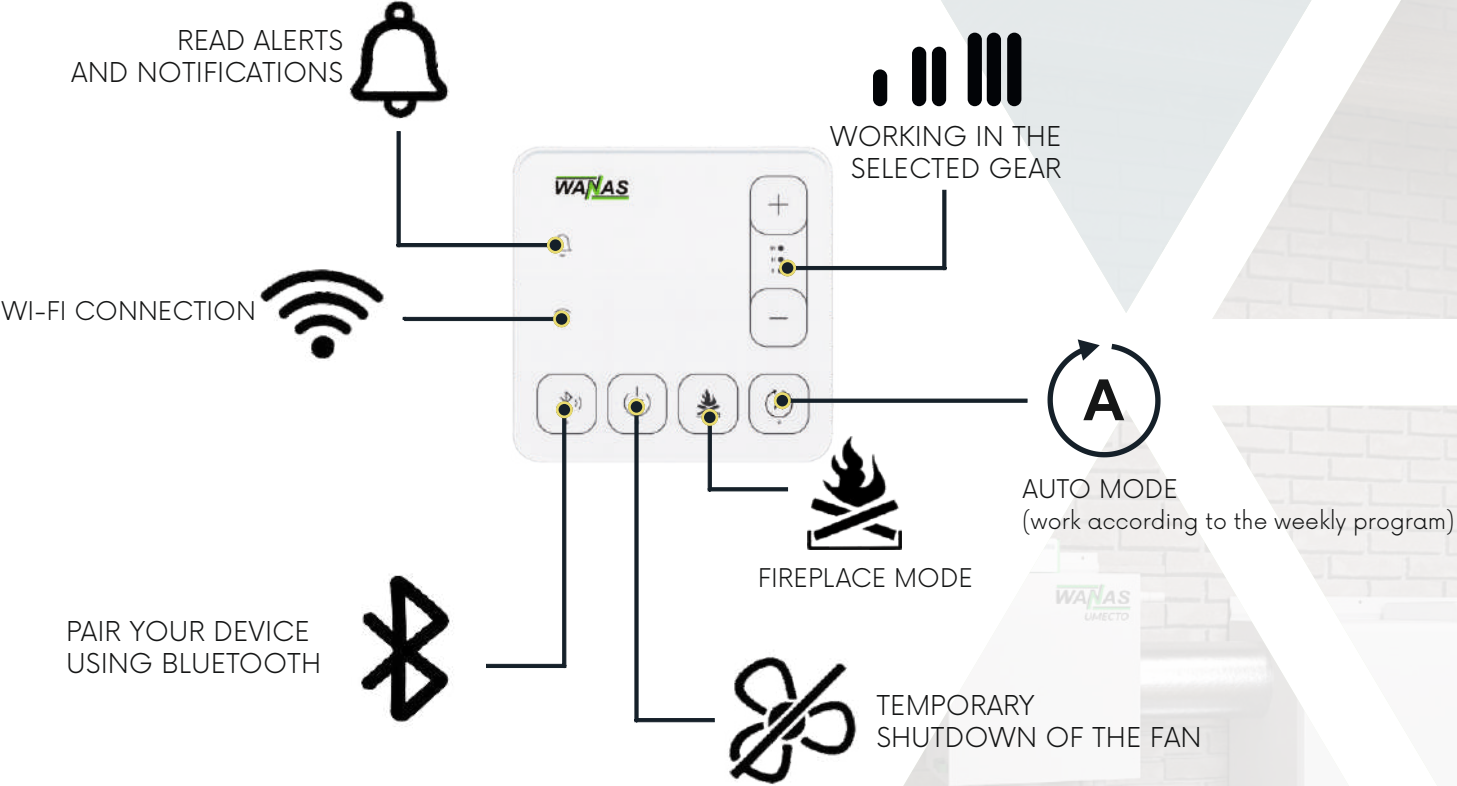


RECUPERATOR **WANAS BLACK 300 V**

SEE INSIDE



DISPLAY V3

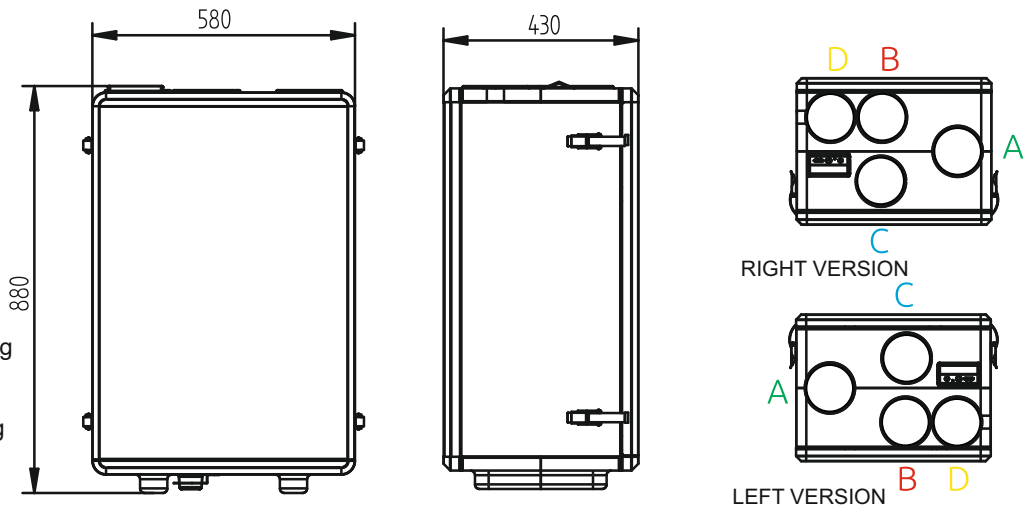


WANAS BLACK 200 V XF-300 V XF



The **BLACK XF** series heat recovery units are equipped with a DISPLAY V2 wall-mounted controller. The use of modern technology has resulted in a heat recovery unit with exceptional properties. The unit has a built-in XF system, which enables continuous measurement of the current supply and exhaust air flow and automatic balancing.

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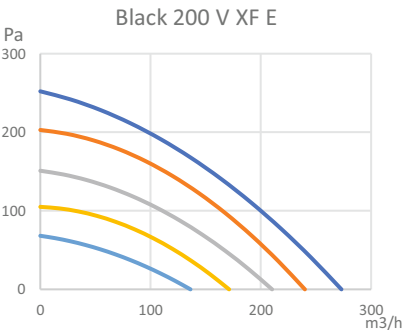


BLACK TECHNICAL DATA

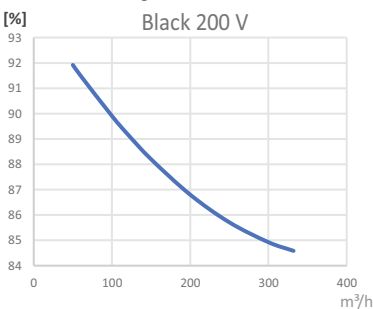
		200 V XF	200 V XF E	300 V XF	300 V XF E
Maximum flow rate at 100 Pa	m³/h	200	200	332	332
Ventilated area up to	m²	90	90	150	150
Energy efficiency class	-	A+*	A	A	A
Efficiency up to	%	92,6	90,9	92	91
Energy consumption	W	17-97	17-100	17-243	17-208
Preheater power	W	500	500	500	500
Diameter of the nozzles	mm	125	125	125	125
Sound power level Gear I	dB(A)	35	35	35	35
Filtration class	-		ISO COARSE 75% + ePM 10 50%		
Weight	kg	28	28	29,5	29,5
Type of exchanger	-	plastic	enthalpic	plastic	enthalpic
Automation	-	V2	V2	V2	V2
Wall controller	-	yes	yes	yes	yes
System XF	-	yes	yes	yes	yes
Internet module	-	no	no	no	no
Painted interior	-	no	no	no	no

* using local demand-based control

Resistance/Performance



Efficiency/Performance



BASIC VERSION



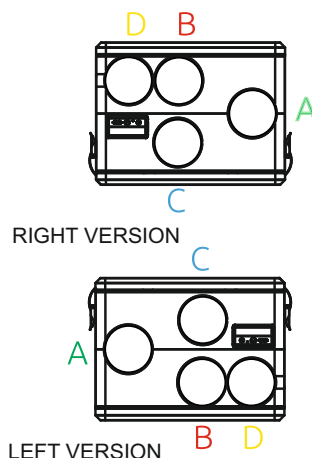
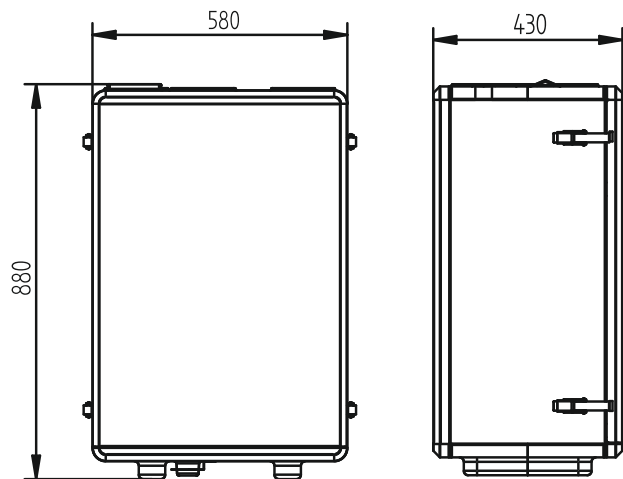
ADDITIONAL
OPTIONS



*200 V XF E,
300 V XF E

200 V – WANAS BLACK 300 V

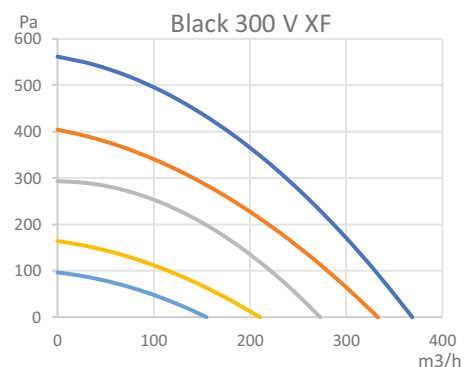
The **BLACK series** heat recovery units are equipped with a DISPLAY V3 touchscreen wall-mounted controller with quick access to basic functions. Each heat recovery unit has a built-in Wi-Fi internet module, allowing remote control using a dedicated app. The app allows for management and setting system parameters.



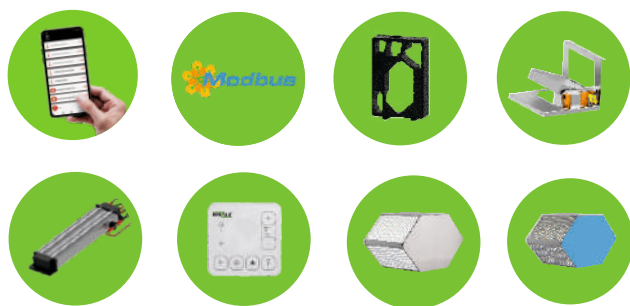
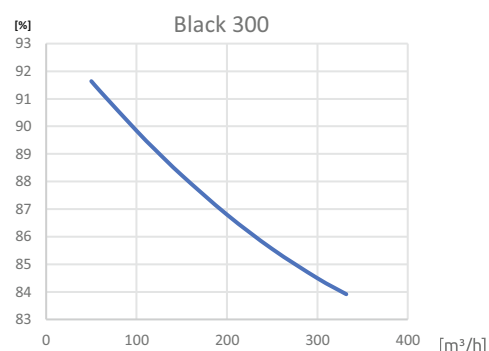
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200 V	200 V E	300 V	300 V E
200	200	332	332
90	90	150	150
A+	A	A	A
92,6	90,9	92	91
17-97	17-100	17-243	17-208
500	500	500	500
125	125	125	125
35	35	35	35
ISO COARSE 75%		+ ePM 10 50%	
28	28	29,5	29,5
plastic	enthalpic	plastic	enthalpic
V3	V3	V3	V2/V3
yes	yes	yes	yes
no	no	no	no
yes	yes	yes	yes
no	no	no	no

Resistance/Performance



Efficiency/Performance



BASIC VERSION

*200 V E, 300 V E

AIR HANDLING UNITS HI-TECH



RECUPERATOR WANAS 400 V HI-TECH

SEE INSIDE

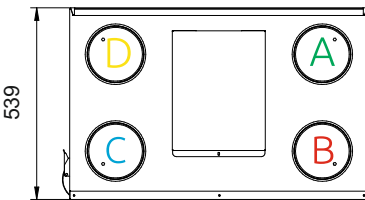
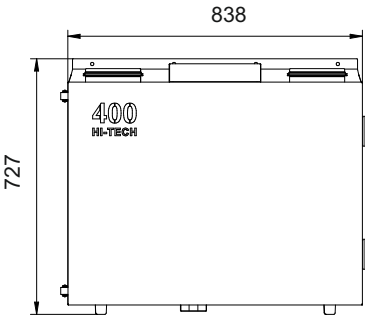


WANAS HI-TECH — 400 V — 400 H

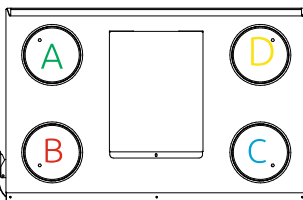
VERSION V



VERSION H



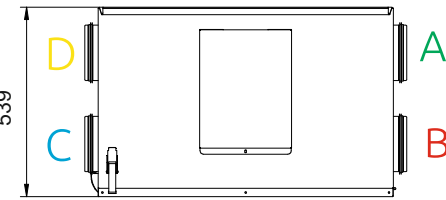
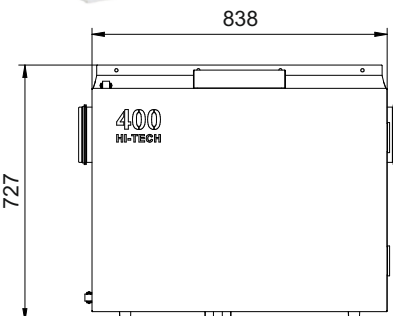
RIGHT VERSION



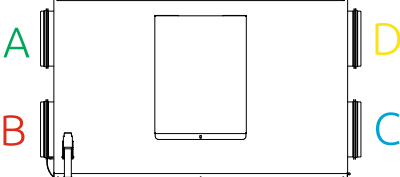
LEFT VERSION

WANAS HI-TECH heat recovery units are modern devices with a built-in W-25 Wi-Fi internet module. The units have a built-in XF SYSTEM, which allows you to view current flow in m³/h, and a communication protocol allowing you to connect the heat recovery unit to a smart home system.

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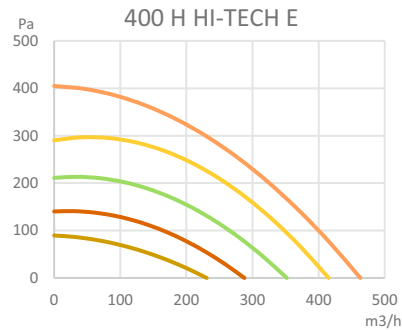


RIGHT VERSION

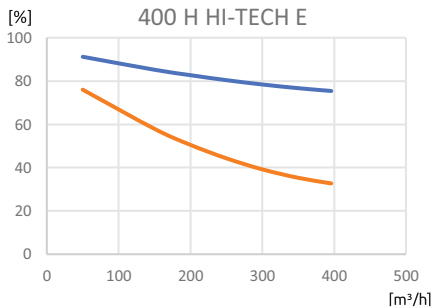


LEFT VERSION

Resistance/Performance



Efficiency/Performance



HI-TECH TECHNICAL DATA

		400 V HI-TECH E	400 H HI-TECH E
Maximum flow rate at 100 Pa	m ³ /h	400	400
Ventilated area up to	m ²	180	180
Energy efficiency class	-	A	A
Efficiency up to	%	91,2	91,2
Energy consumption	W	22-180	20-192
Preheater power	W	500	500
Diameter of the nozzles	mm	160	160
Sound power level Gear I	dB(A)	34,7	38
Filtration class	-	ISO COARSE 75% + ePM 10 50%	
Weight	kg	60	60
Type of exchanger	-	enthalpic	enthalpic
Automation	-	V2	V2
Wall controller	-	yes	yes
System XF	-	yes	yes
Internet module	-	yes	yes
Painted interior	-	yes	yes

BASIC VERSION



ADDITIONAL OPTIONS

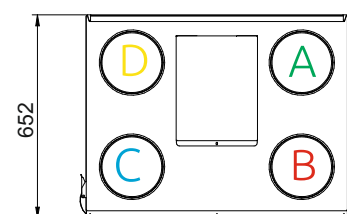
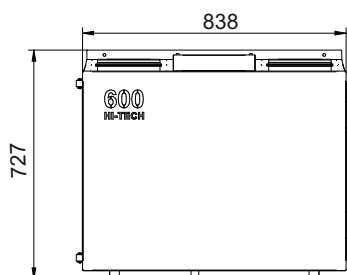




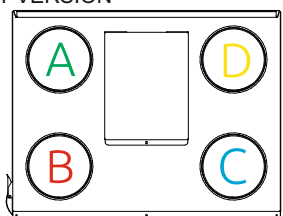
VERSION V



VERSION H



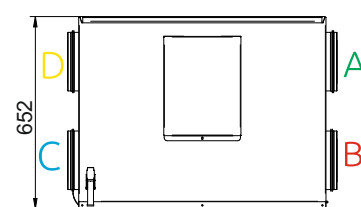
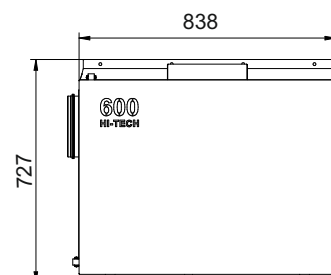
RIGHT VERSION



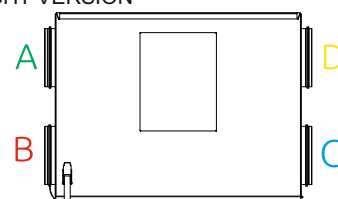
LEFT VERSION

The heat recovery units are equipped with an enthalpy exchanger, and the entire interior has been painted with polyester paint, ensuring greater hygiene and durability of the unit's interior.

- A - air drawn from outside the building
- B - air drawn from rooms
- C - air supplied to rooms
- D - air exhausted outside the building



RIGHT VERSION



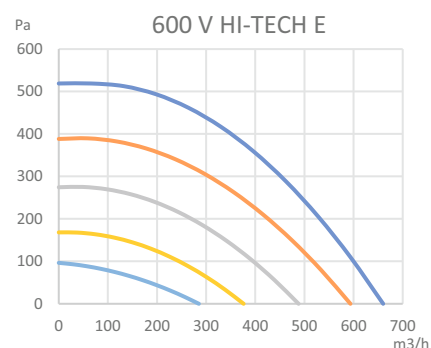
LEFT VERSION

600 V HI-TECH E

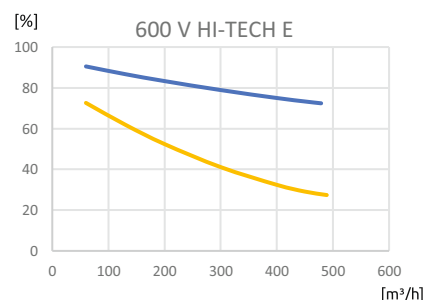
600 H HI-TECH E

600	600
270	270
A	A
90,5	90,5
315	336
500	500
200	200
40	39
ISO COARSE 75% + ePM 10 50%	
64	64
enthalpic	enthalpic
V2	V2
yes	yes
yes	yes
yes	yes
yes	yes

Resistance/Performance



Efficiency/Performance



BASIC VERSION



ADDITIONAL
OPTIONS

COMPARE OUR SOLUTIONS

	COMBO	BLACK	HI-TECH	CLASSIC XF	CLASSIC
BUILT-IN HUMIDIFIER	✓	—	—	—	—
HUMIDITY SENSOR AS STANDARD	✓	✓ ²	—	—	—
ILLUMINATED LOGO ON THE DOOR	—	—	✓	—	—
XF SYSTEM (FLOW BALANCING)	✓	✓ ¹	✓	✓	—
SETTING THE FLOW IN m³/h	✓	✓ ¹	✓	✓	OPTION
PREVIEW OF CURRENT OUTPUT m³/h	✓	✓ ¹	✓	✓	—
POSSIBILITY OF CONNECTING TO A FREON COOLER	✓	✓ ¹	✓	✓	—
MODBUS RTU	✓	✓	✓	✓	✓
INTERIOR PAINTED WITH POLYESTER PAINT	✓	—	✓	—	—
BUILT-IN WI-FI MODULE	✓ ⁵	✓ ²	✓	OPTION	OPTION
SMART HEATER	✓	✓	✓	✓	✓
REDUCED VOLUME ON THE AIR INLET	✓	✓	✓	✓	✓
STAINLESS STEEL DRIP TRAY	✓	—	✓	✓	✓
RUBBER INSULATION OF THE AIR HANDLING UNIT	✓	—	✓	✓	✓
WALLBRACKET ³	✓	✓	✓	✓	✓
AUTOMATIC BYPASS 100%	✓	✓	✓	✓	✓
WEEKLY PROGRAM	✓	✓	✓	✓	✓
PARTY FUNCTION	✓	✓	✓	✓	✓
FIREPLACE FUNCTION	✓	✓	✓	✓	✓
HOLIDAY FUNCTION	✓	✓ ¹	✓	✓	✓
FILTER CHANGE REMINDER	✓	✓	✓	✓	✓
SMOOTH PERFORMANCE REGULATION	✓	✓	✓	✓	✓
COOLER CONTROL	✓	✓ ¹	✓	✓	✓
GHE CONTROL	✓	✓ ¹	✓	✓	✓
SECONDARY HEATER CONTROL	✓	✓ ¹	✓	✓	✓
COOPERATION WITH EXTERNAL SENSORS	✓	✓ ¹	✓	✓	✓
POSSIBILITY OF INTEGRATION WITH HOME ALARM	✓	✓ ¹	✓	✓	✓
ANTI-FREEZE PROTECTION	✓	✓	✓	✓	✓
MOUNTING KIT	✓	✓	✓	✓	✓
DISPLAY CONTROLLER V3 ²	—	✓	—	—	✓ ⁴
DISPLAY CONTROLLER V2 ¹	✓	✓	✓	✓	✓
BODY MADE OF POLYPROPYLENE	✓ ⁵	✓	—	—	—

¹ It is standard on BLACK XF models with Display V2.

² It is standard in BLACK models with Display V3.

³ Does not apply to 815 HI-TECH, 915 H, 1315 H, 800 V/H, COMBO 830 V/H, 1030 V/H, 1330 H control units.

⁴ Applies to model 340

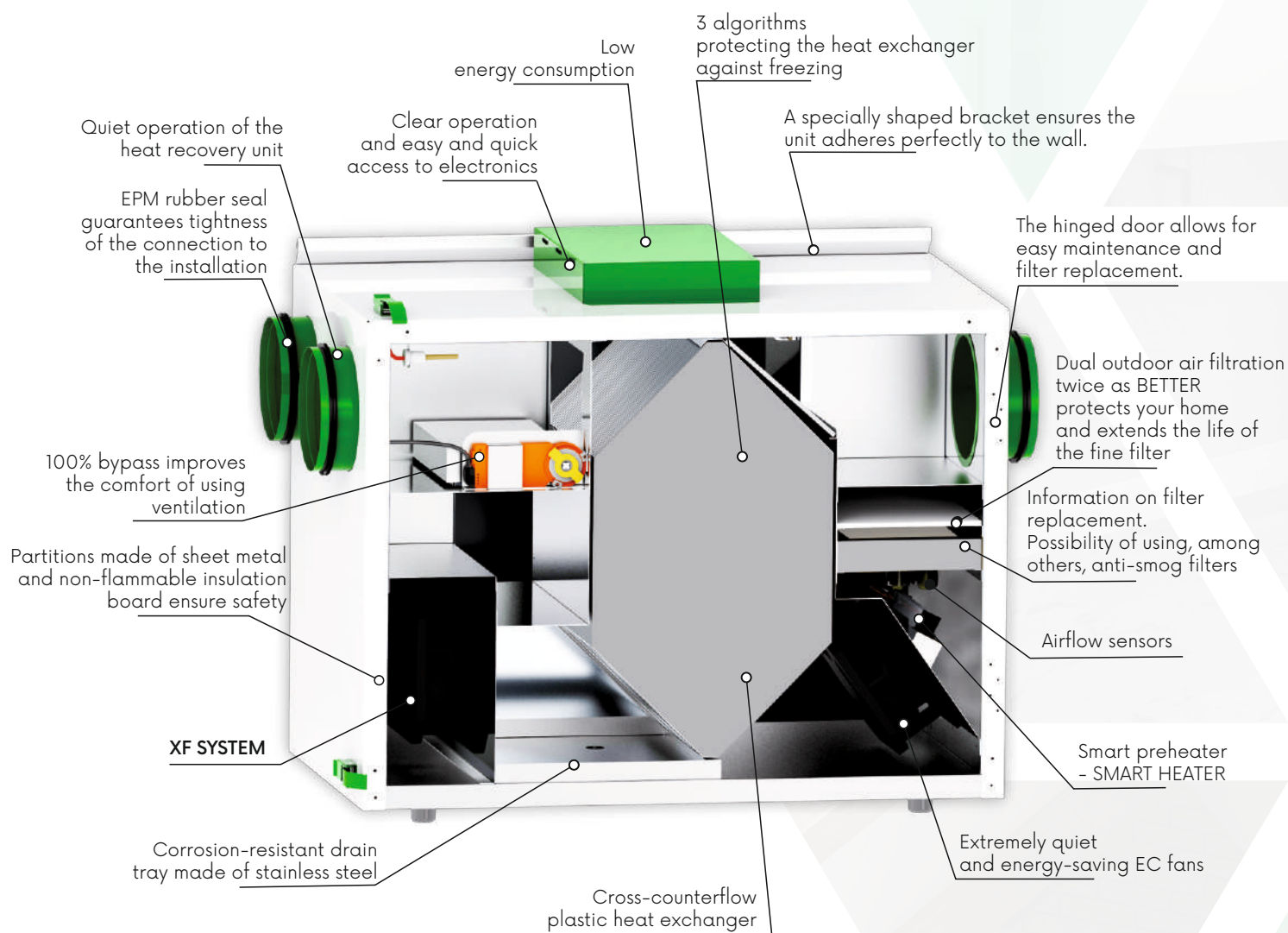
⁵ WANAS 430 V/H and 630 V/H

AIR HANDLING UNITS **CLASSIC**



RECUPERATOR **WANAS 600 H XF**

SEE INSIDE

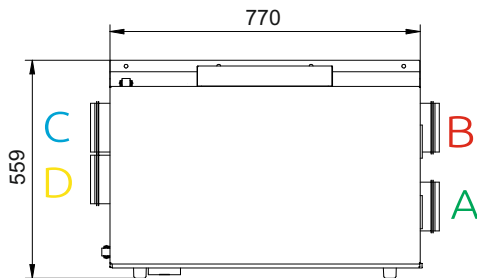


WANAS 250 H

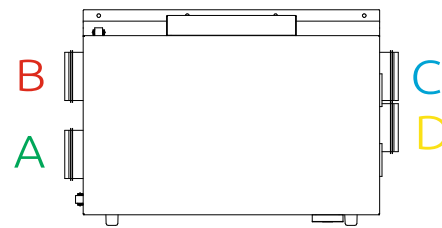
The WANAS 250 H heat recovery unit is an exceptionally compact unit, designed for small spaces. Its design allows for high-wall mounting, providing ample space beneath the unit.



- A - air drawn from outside the building
- B - air drawn from rooms
- C - air supplied to rooms
- D - air exhausted outside the building



RIGHT VERSION



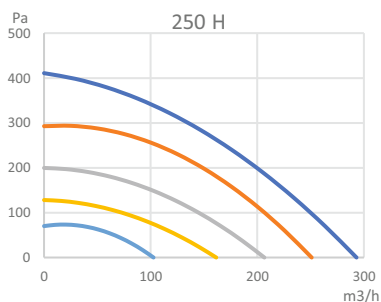
LEFT VERSION

DEPTH: 429 mm

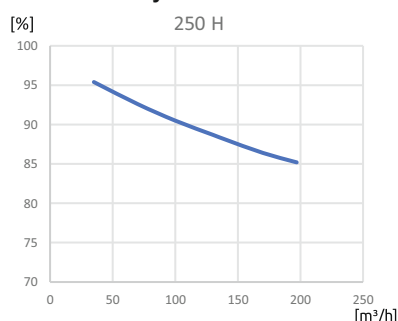
TECHNICAL DATA

		250 H	250 H E
Maximum flow rate at 100 Pa	m ³ /h	250	250
Ventilated area up to	m ²	115	115
Energy efficiency class	-	A	A
Efficiency up to	%	93	88,8
Energy consumption	W	18-216	18-194
Preheater power	W	500	500
Diameter of the nozzles	mm	125	125
Sound power level Gear I	dB(A)	40	40
Filtration class	-	ISO COARSE 75% + ePM 10 50%	
Weight	kg	41	41
Type of exchanger	-	plastic	enthalpic
Automation	-	V2	V2
Wall controller	-	yes	yes
System XF	-	no	no
Internet module	-	no	no
Painted interior	-	no	no

Resistance/Performance



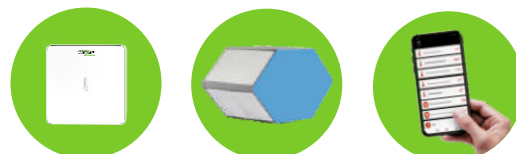
Efficiency/Performance

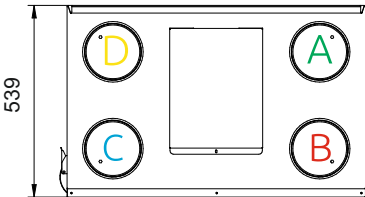
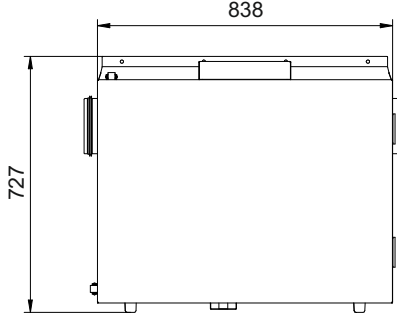
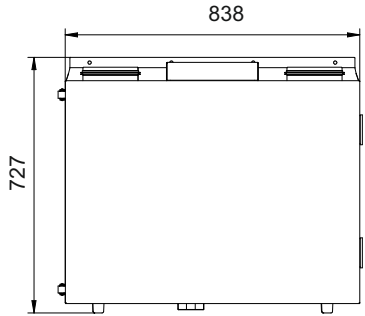


BASIC VERSION

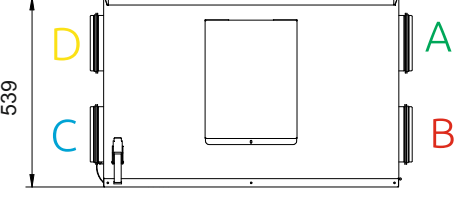


ADDITIONAL OPTIONS

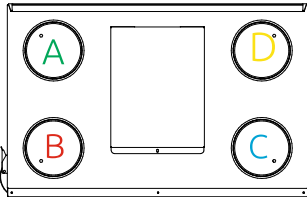




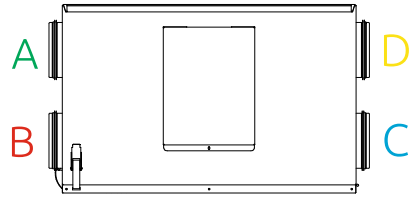
RIGHT VERSION



RIGHT VERSION



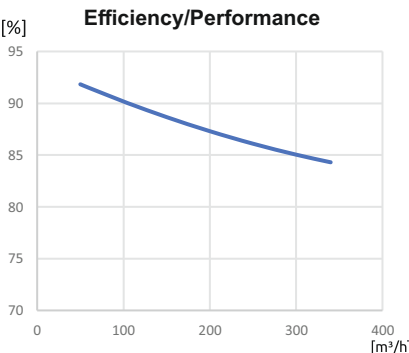
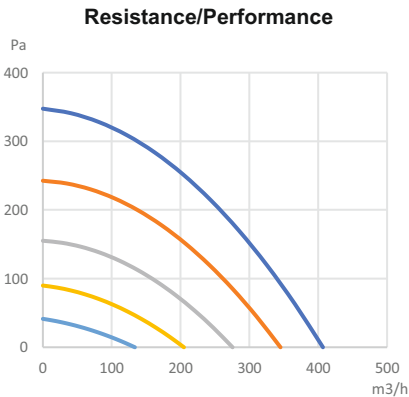
LEFT VERSION



LEFT VERSION

The device comes with a Display V3 wall controller. The most important functions of the device are accessible from the panel, while other settings can be made via the internet or Bluetooth. Software updates can be automatically performed via the internet using a mobile phone. If multiple units are installed in a single facility, we can provide basic functions to the user and leave advanced functions to the facility manager or installer.

- A - air drawn from outside the building
- B - air drawn from rooms
- C - air supplied to rooms
- D - air exhausted outside the building



TECHNICAL DATA		340 V	340 H
Maximum flow rate at 100 Pa	m³/h	340	340
Ventilated area up to	m²	155	155
Energy efficiency class	-	A	A
Efficiency up to	%	92	92
Energy consumption	W	22-130	22-130
Preheater power	W	500	500
Diameter of the nozzles	mm	160	160
Sound power level Gear I	dB(A)	34,7	34,7
Filtration class	-	ISO COARSE 75% + ePM 10 50%	
Weight	kg	57	57
Type of exchanger	-	plastic	plastic
Automation	-	V3	V3
Wall controller	-	yes	yes
System XF	-	no	no
Internet module	-	yes	yes
Painted interior	-	no	no

BASIC VERSION

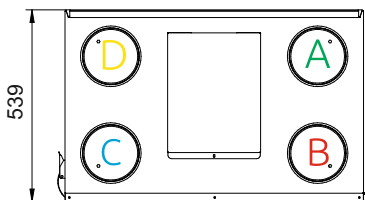
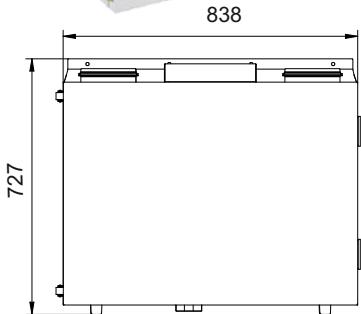




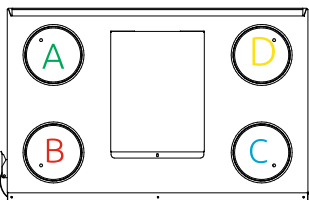
VERSION V



VERSION H

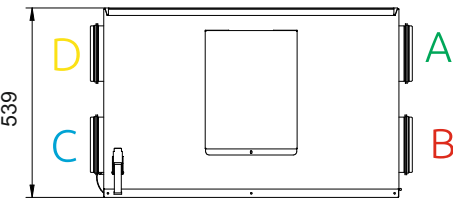
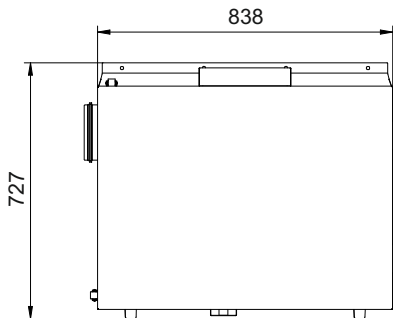


RIGHT VERSION

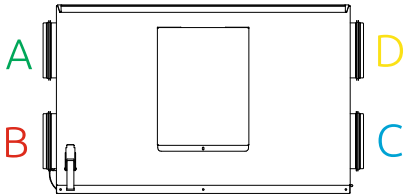


LEFT VERSION

All WANAS heat recovery units are insulated with a special mat made from a unique blend of rubber-based materials. This provides excellent insulation for the ventilation unit and is non-flammable. The insulation also has closed cells, ensuring it does not absorb moisture.



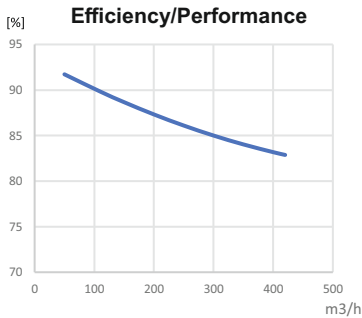
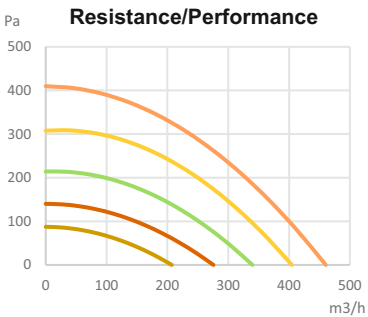
RIGHT VERSION



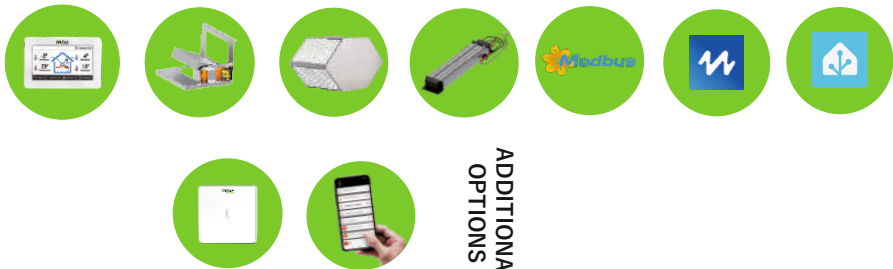
LEFT VERSION

- A - air drawn from outside the building
- B - air drawn from rooms
- C - air supplied to rooms
- D - air exhausted outside the building

400 V	400 V XF	400 V XF E	400 H	400 H XF	400 H XF E
400	400	400	400	400	400
180	180	180	180	180	180
A+	A+	A	A	A	A
92	92	91,2	92	92	91,2
27-177	27-177	22-180	19-199	19-199	20-192
500	500	500	500	500	500
160	160	160	160	160	160
34,7	34,7	38	38	38	38
ISO COARSE 75% + ePM 10 50%					
57	57	57	57	57	57
plastic	plastic	enthalpic	plastic	plastic	enthalpic
V2	V2	V2	V2	V2	V2
yes	yes	yes	yes	yes	yes
no	yes	yes	no	yes	yes
no	no	no	no	no	no
no	no	no	no	no	no

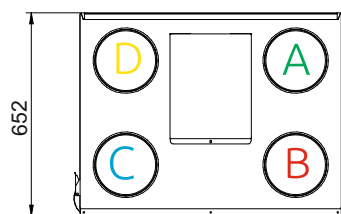
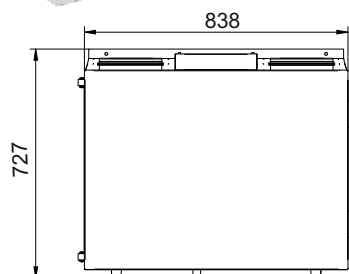


BASIC VERSION

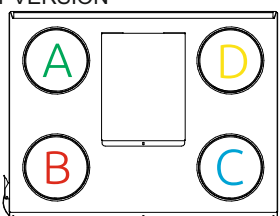


ADDITIONAL
OPTIONS

WANAS — 600 V — 600 H



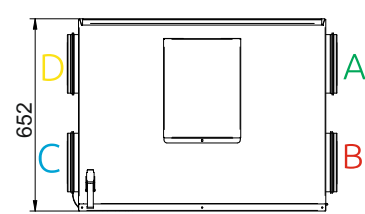
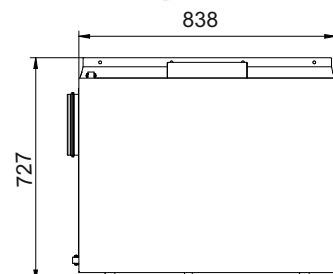
RIGHT VERSION



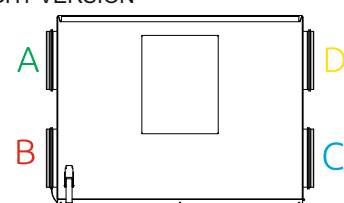
LEFT VERSION

Higher-performance devices can be used in public buildings, service, commercial, or educational facilities, as well as in industrial plants.

- A - air drawn from outside the building
- B - air drawn from rooms
- C - air supplied to rooms
- D - air exhausted outside the building



RIGHT VERSION



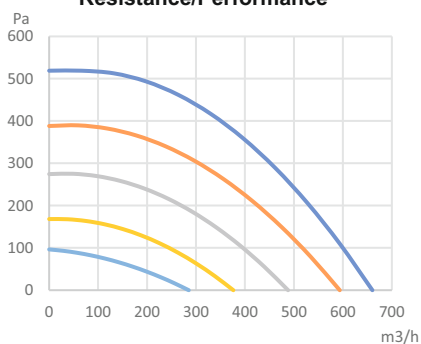
LEFT VERSION

TECHNICAL DATA

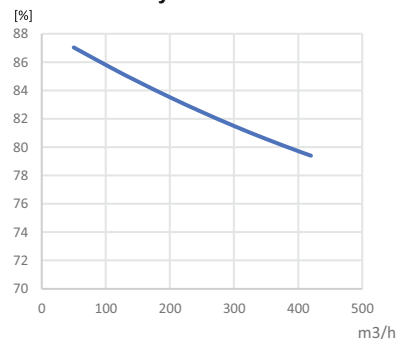
		600 V	600 V XF	600 V XF E	600 H	600 H XF	600 H XF E
Maximum flow rate at 100 Pa	m ³ /h	600	600	600	600	600	600
Ventilated area up to	m ²	270	270	270	270	270	270
Energy efficiency class	-	A	A	A	A	A	A
Efficiency up to	%	92	92	90,5	87	87	90,5
Energy consumption	W	21-326	21-326	23-315	20-347	20-347	20-336
Preheater power	W	500	500	500	500	500	500
Diameter of the nozzles	mm	200	200	200	200	200	200
Sound power level Gear I	dB(A)	34,7	34,7	40	39	39	39
Filtration class	-	ISO COARSE 75% + ePM 10 50%					
Weight	kg	65	65	64	65	65	64
Type of exchanger	-	plastic	plastic	enthalpic	plastic	plastic	enthalpic
Automation	-	V2	V2	V2	V2	V2	V2
Wall controller	-	yes	yes	yes	yes	yes	yes
System XF	-	no	yes	yes	no	yes	yes
Internet module	-	no	no	no	no	no	no
Painted interior	-	no	no	no	no	no	no

*using local demand-based control

Resistance/Performance



Efficiency/Performance

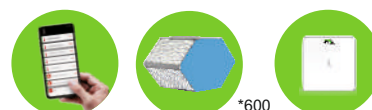


BASIC VERSION



*XF models

ADDITIONAL OPTIONS

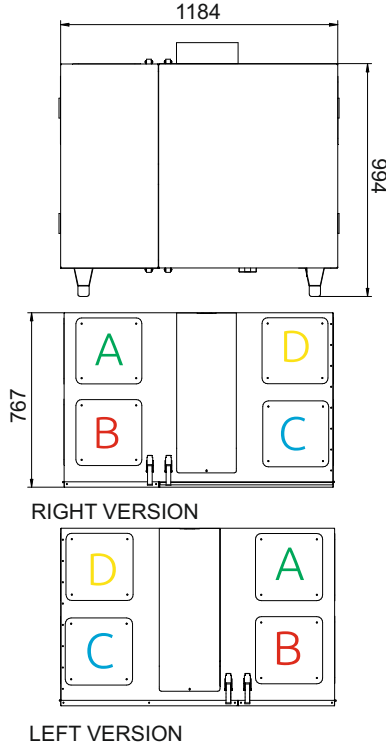


*600

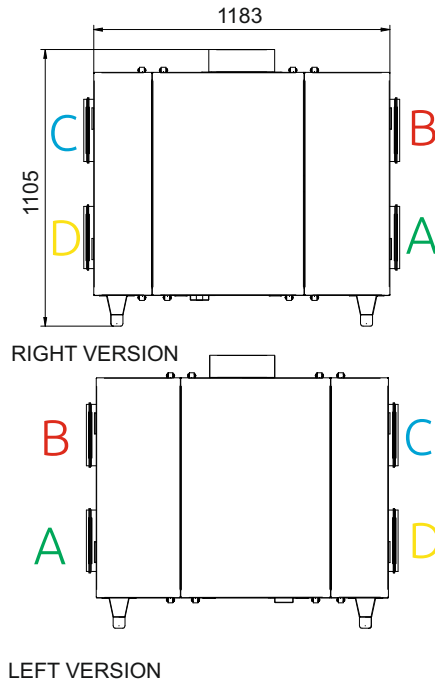
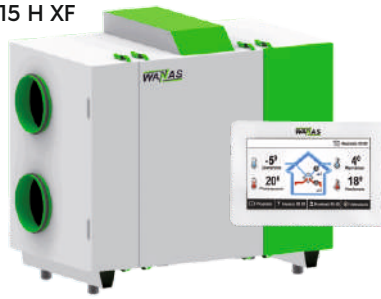
*915 H XF,
1315 H XF

800 V/H XF — 915 H XF — 1315 H XF

WANAS 800 V/H XF

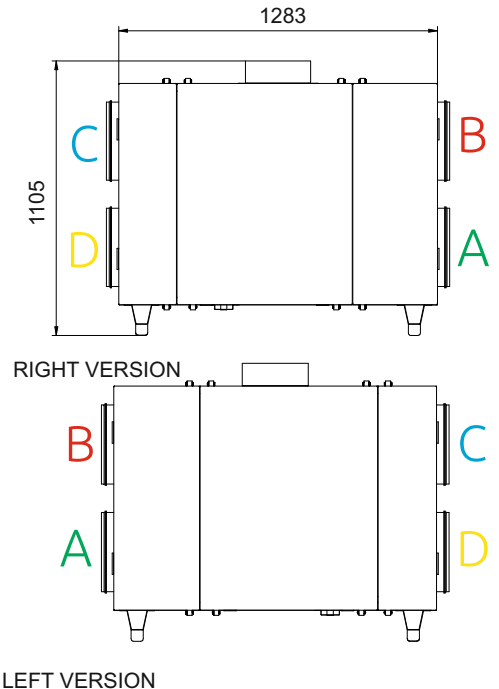


WANAS 915 H XF



DEPTH: 708 mm

1315 H XF

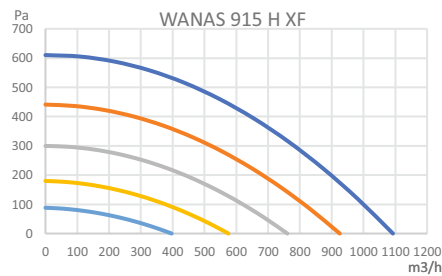


DEPTH: 708 mm

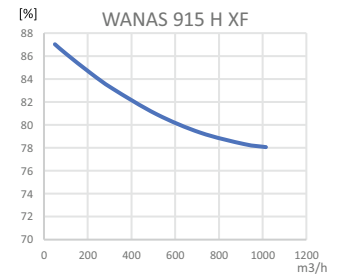
A - air drawn from outside the building
B - air drawn from rooms
C - air supplied to rooms
D - air exhausted outside the building

800 V/H XF	915 H XF	1315 H XF
800	1000	1380
360	450	620
A+*	A	A
91	87	82
35-330	28-402	29-675
2000	3000	3000
250	250	315
42	35,2	35,2
ISO COARSE 75%	ISO COARSE 75%	ISO COARSE 75%
125	146	152
plastic	aluminium	aluminium
V2	V2	V2
yes	yes	yes
yes	yes	yes
no	no	no
no	no	no

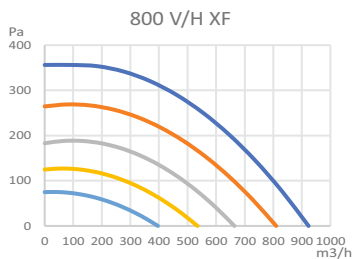
Resistance/Performance



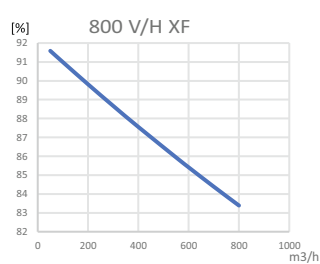
Efficiency/Performance



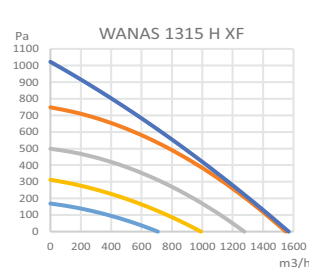
Resistance/Performance



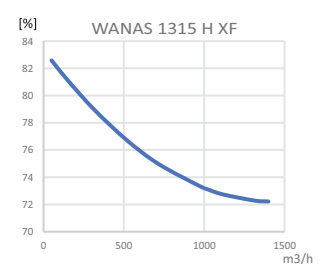
Efficiency/Performance



Resistance/Performance

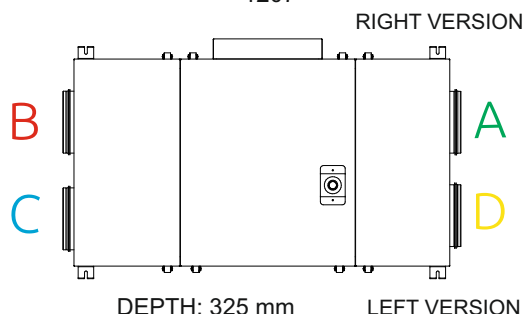
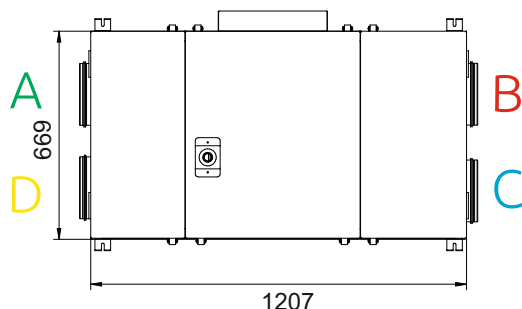


Efficiency/Performance



WANAS 345/2 XF 545 XF

WANAS 345/2 XF

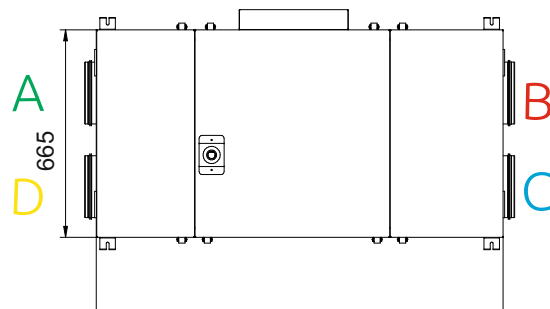


DEPTH: 325 mm

LEFT VERSION

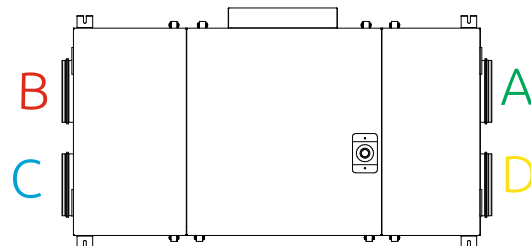
Suspended heat recovery units are ideal for homes where space is a priority. Installation is possible in the boiler room or garage. Ceiling installation allows saving space under the heat recovery unit and utilizing it in other ways.

WANAS 545 XF



RIGHT VERSION

1305



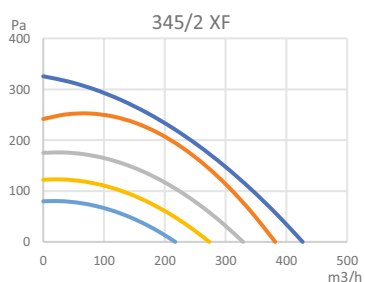
LEFT VERSION

DEPTH: 407 mm

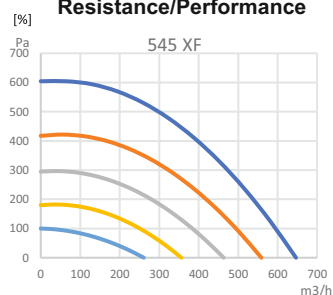
TECHNICAL DATA

		345/2 XF	545 XF	545 XF E
Maximum flow rate at 100 Pa	m ³ /h	345	595	595
Ventilated area up to	m ²	155	270	270
Energy efficiency class	-	A	A	A
Efficiency up to	%	90	92	91
Energy consumption	W	19-157	19-316	19-317
Preheater power	W	500	500	500
Diameter of the nozzles	mm	200	200	200
Sound power level Gear I	dB(A)	33	40	40
Filtration class	-	ISO COARSE 75%	ISO COARSE 75% + ePM 10 50%	
Weight	kg	57	71	71
Type of exchanger	-	aluminium	plastic	enthalpic
Automation	-	V2	V2	V2
Wall controller	-	yes	yes	yes
System XF	-	yes	yes	yes
Internet module	-	no	no	no
Painted interior	-	no	no	no

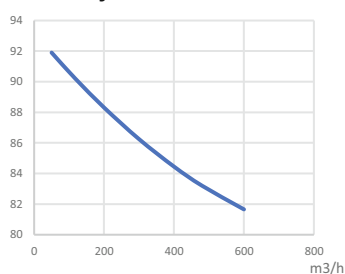
Resistance/Performance



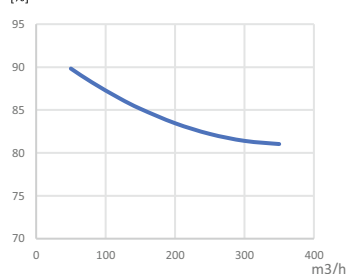
Resistance/Performance



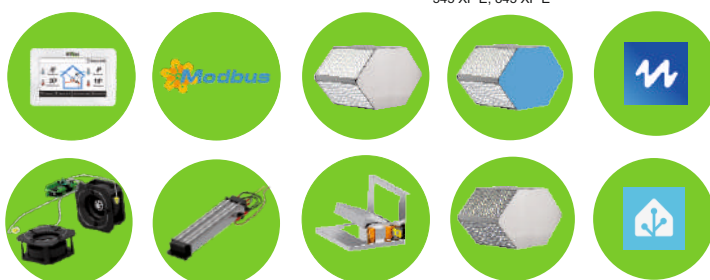
Efficiency/Performance



Efficiency/Performance



BASIC VERSION



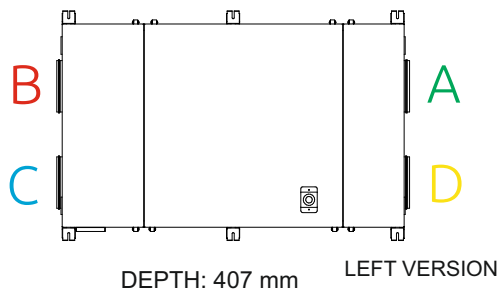
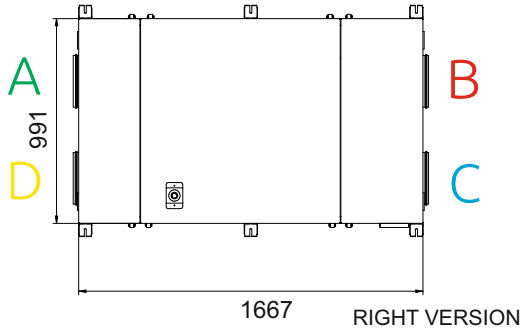
*545 XF E, 845 XF E

ADDITIONAL
OPTIONS



*345/2 XF

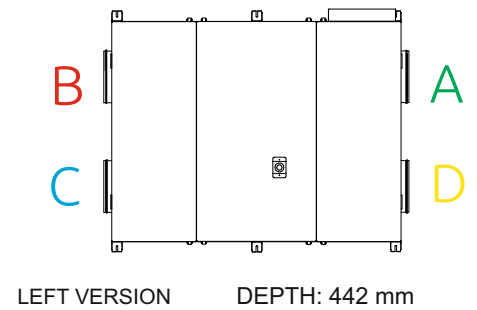
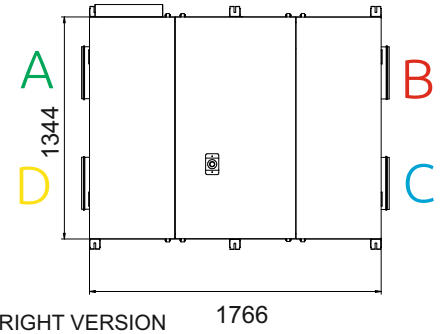
WANAS 845 XF



The heat recovery units are equipped with an automatic flow balancing system - XF. The units are characterized by very low energy consumption, quiet operation, high thermal efficiency, and easy operation. Suspended heat recovery units are an ideal solution for maximizing space in a garage or utility room.

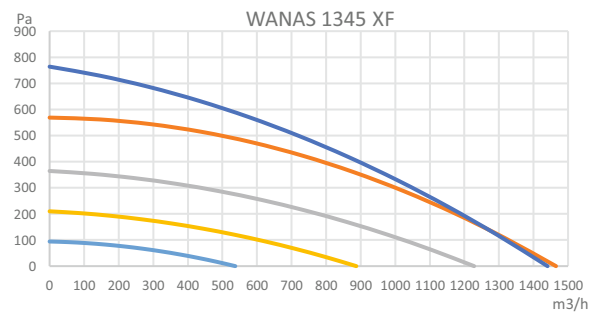
- A - air drawn from outside the building
- B - air drawn from rooms
- C - air supplied to rooms
- D - air exhausted outside the building

WANAS 1345 XF

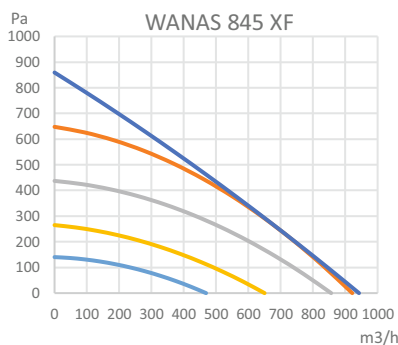


845 XF	845 XF E	1345 XF
845	845	1320
380	380	595
A+	A	A
92	92	88
18-336	18-336	24-664
2000	2000	3000
250	250	315
38	38	36
ISO COARSE 75%	ISO COARSE 75%	ISO COARSE 75%
116	116	156,4
plastic	enthalpic	plastic
V2	V2	V2
yes	yes	yes
yes	yes	yes
no	no	no
no	no	no

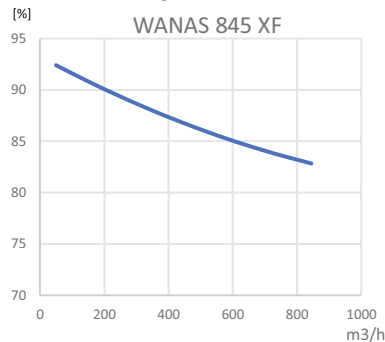
Resistance/Performance



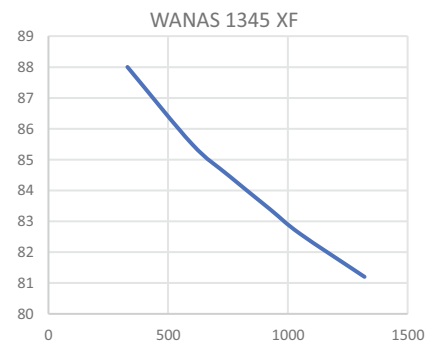
Resistance/Performance



Efficiency/Performance



Efficiency/Performance



SEC CLASS **A**

DECENTRAL UNIT AirClass 600

Specially dedicated to:
kindergartens, offices, schools

1 Better air quality

Fresh, filtered air is crucial in schools and offices because it reduces drowsiness and increases concentration.

2 Reduction of allergens and viruses

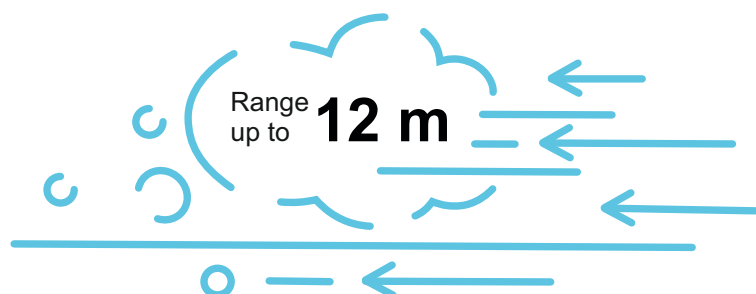
Effective removal of pollutants, allergens and viruses from the air reduces the risk of respiratory problems.

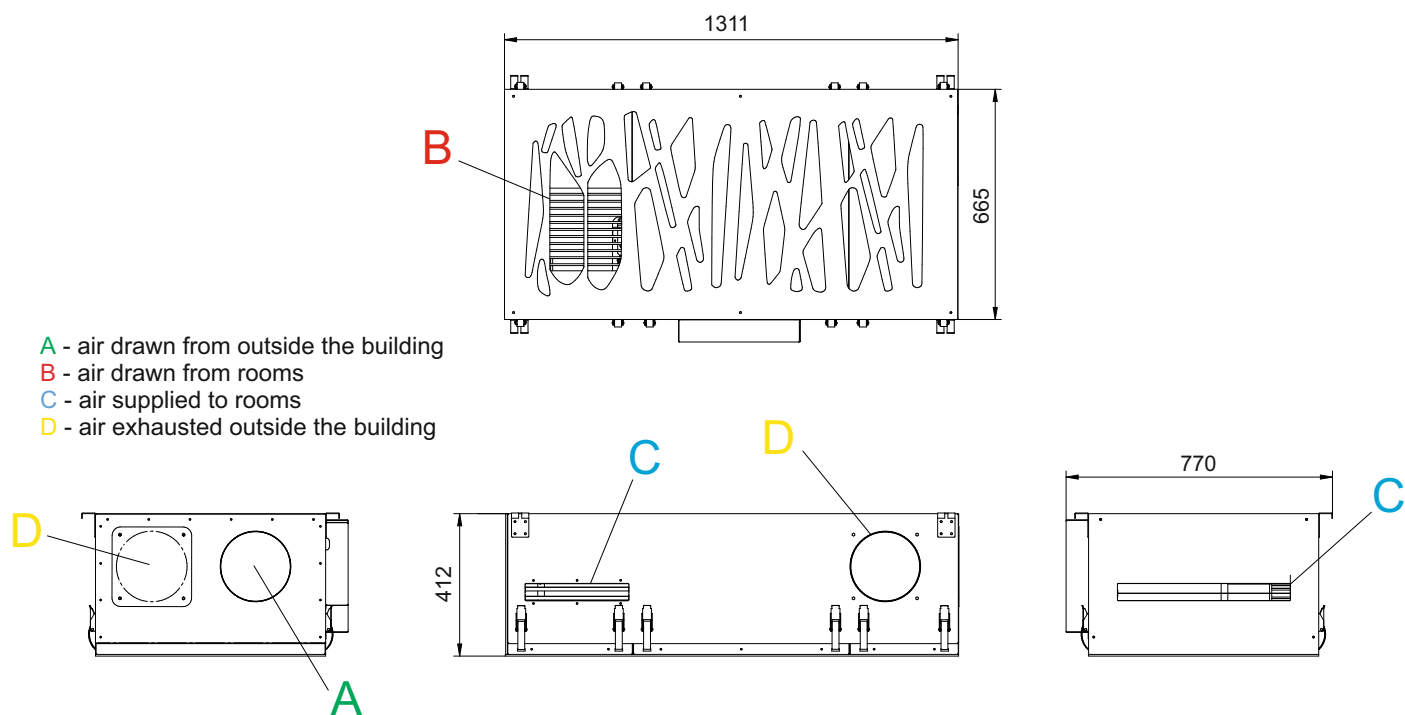
3 Maintaining optimal humidity

Thanks to the enthalpy exchanger, the device recovers heat and moisture, preventing air from drying out in winter and reducing the risk of respiratory irritation.

4 Simple and quick installation of the decentralized unit

The decentralized unit is easy to install. It does not require complicated construction work or interference with the building's structure.

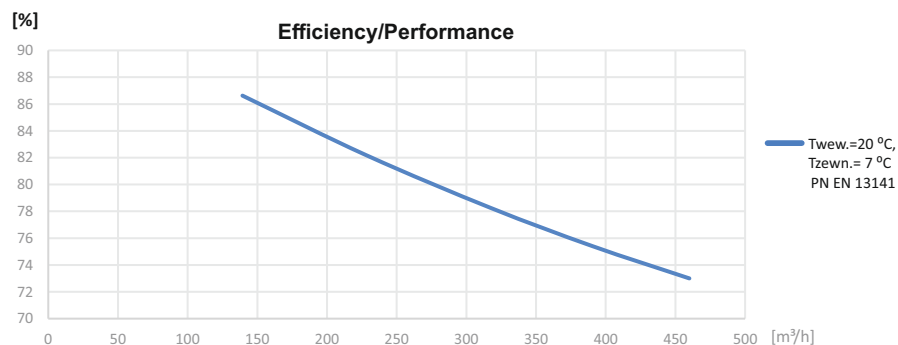
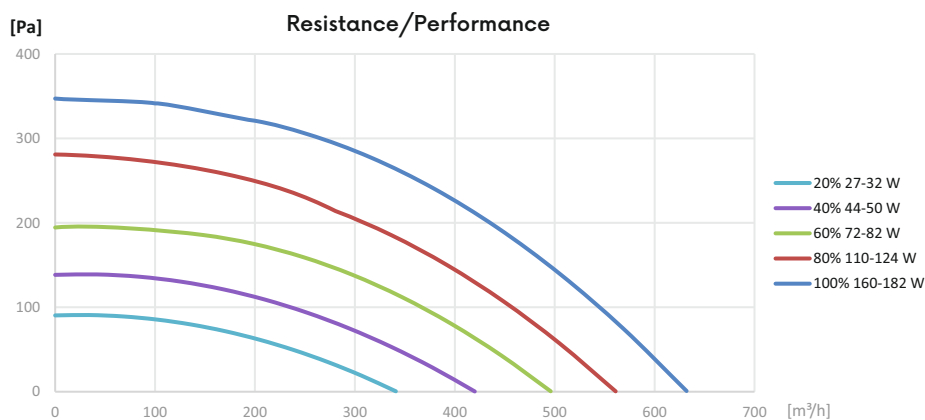




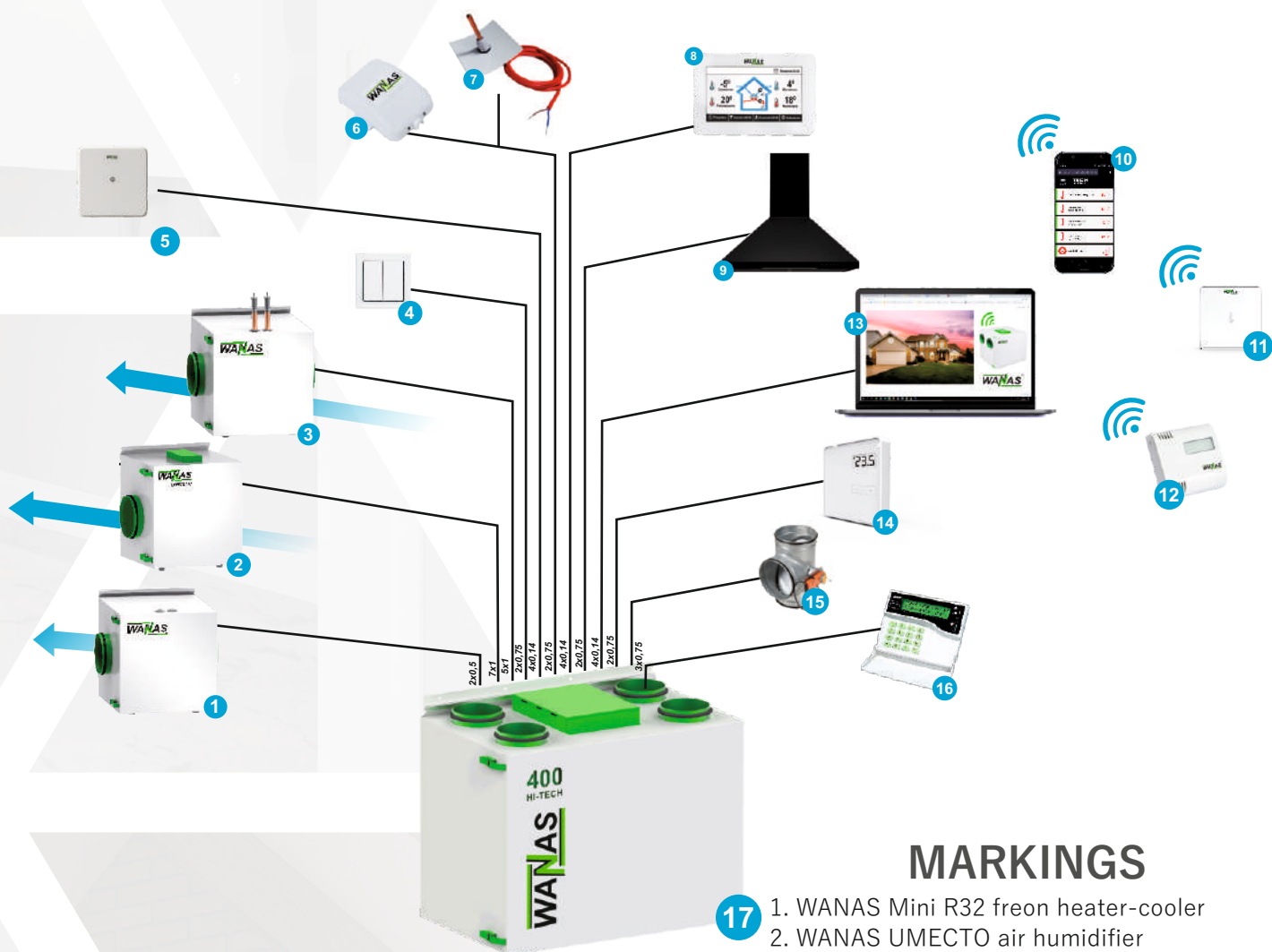
TECHNICAL DATA

AirClass 600

SEC class	-	A
SEC for temperate climate	kWh/(m ² /year)	-35,27
SEC for cold climates	kWh/(m ² /year)	-70,47
SEC for warm climate	kWh/(m ² /year)	-12,48
Max flow rate (at 100 Pa)	m ³ /h	545
Sound power (for gear I/according to EU 1254/2014)	dB(A)	56
Energy consumption	W	27-182
Preheater power	W	500
Power supply	V/Hz	230/50
Diameter of the nozzles	mm	200
Max. efficiency according to EU 1254/2014, T=13 °C, at 120 m ³ /h, SWM	%	87,2
Efficiency according to EU 1254/2014, dT=13 °C, SWM	%	75,7
Weight	kg	71
Filter class	ISO COARSE 75% + ePM 10 50%	



TAKE ADVANTAGE OF THE SYSTEM'S POSSIBILITIES



MARKINGS

1. WANAS Mini R32 freon heater-cooler
2. WANAS UMECTO air humidifier
3. WANAS water heater/cooler
4. Light switch
5. WANAS MOBILE W-25 Wi-Fi internet module
6. W-100 outdoor temperature sensor
7. EXTRA TEMP temperature sensor
8. DISPLAY V2 recuperator controller
9. Hood
10. eModul application
11. MaxiControl humidity sensor
- radio communication
12. CO₂RControl radio carbon dioxide sensor
13. Smart home system
14. roomControl humidity sensor
15. GHE zone damper
16. Alarm control panels
17. WANAS recuperator

DISPLAY V2



DISPLAY V3



SMART SYSTEM

The WANAS mechanical ventilation system with heat recovery unit offers virtually unlimited expansion possibilities. Using dedicated sensors such as CO₂Control and maxiControl, the heat recovery system will perfectly adapt to the current air demand and humidity, creating a highly energy-efficient and comfortable system.

WANAS UMECTO 600 – UMECTO 1300

The WANAS UMECTO 600 and 1300 humidifiers are compatible with WANAS heat recovery units with various airflows. The humidifier is controlled by a V2 controller. The device maintains the appropriate humidity in the home, improving well-being and increasing comfort.

TECHNICAL DATA		UMECTO 600	UMECTO 1300
Maximum air flow	m³/h	600	1300
Energy consumption	W	15	15
Power supply	V/Hz	230/250	230/250
Diameter of air nozzles	mm	200	315
Diameter of the water connection nozzle	cal	3/4	3/4
Heater power	W	1000	2000
Nominal water consumption	l/h	2,8	5,6
Air resistance at 200 m³/h	Pa	7	11
Water pressure	MPa	0,15-0,6	0,15-0,6
Water temperature	Min/max	5-20	5-20
Water hardness	max. mg CaCo ₃	200	200
Height	mm	589	919
Width	mm	455	455
Depth	mm	452	452
Weight	kg	25	36

The humidifier's quiet operation doesn't generate any additional noise, which positively impacts user comfort. It allows you to enjoy clean, moist air, which has a positive impact on the health and well-being of residents. The intelligent control system ensures efficient use of the post-heater, which only activates when necessary, making it an environmentally friendly and economical device.



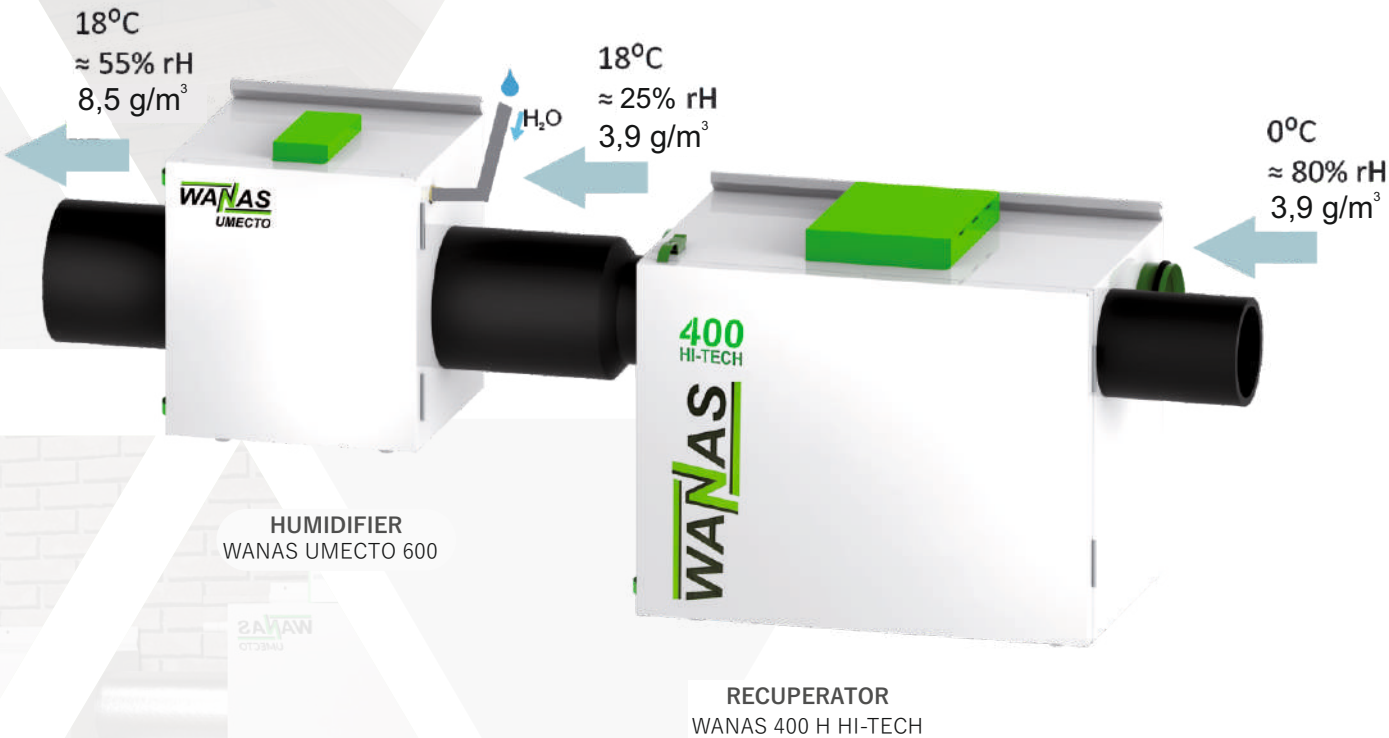
UMECTO 1300



UMECTO 600

INCREASE HUMIDITY - BREATHE COMFORTABLY

The efficient WANAS UMECTO humidifier maintains humidity levels in the building at 40-50%. It is controlled by the heat recovery unit controller and is fully automated.



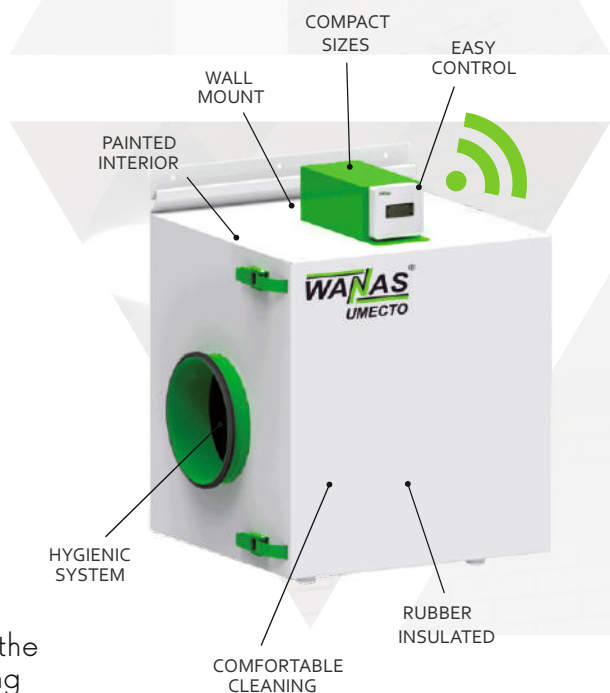
UMECTO 600 UNI — WANAS UMECTO 1300 UNI

The humidifier allows you to connect the device to any existing installation and any heat recovery unit. The humidifier is mounted on the supply duct of the ventilation system and is a standalone device. It is controlled using a top-mounted controller, which is standard on every WANAS UNI humidifier. Thanks to the connection to the wireless maxiControl sensor, humidity control is easy and fully automated.



TECHNICAL DATA

		UMECTO 600 UNI	UMECTO 1300 UNI
Maximum air flow	m ³ /h	600	1300
Energy consumption	W	2-18	2-18
Power supply	V/Hz	230/250	230/250
Diameter of air nozzles	mm	200	315
Diameter of the water connection nozzle	cal	3/4	3/4
Heater power	W	1000	2000
Nominal water consumption	l/h	2,8	5,6
Air resistance at 200 m ³ /h	Pa	7	11
Water pressure	MPa	0,15-0,6	0,15-0,6
Water temperature	Min/max	5-20	5-20
Water hardness	max. mg CaCO ₃	200	200
Height	mm	607	937
Width	mm	455	455
Depth	mm	450	450
Weight	kg	25	36



The UMECTO humidifier utilizes the evaporation phenomenon, the natural and healthiest form of humidification. During the heating season, the humidifier allows for achieving humidity levels between 40-45%. This is the optimal humidity level in a building during winter. A suitable humidity level has a positive effect on the skin, eyes, and upper respiratory tract. It protects and secures wooden furniture, floors, and parquet floors from damage and drying out. An additional, crucial function is the secondary purification of the supplied air by significantly reducing odors originating from outside the building.



Standard wireless humidity sensor maxiControl

WANAS WATER HEATER-COOLER



WANAS Mini

The WANAS water cooler is a device designed for cooling or heating air supplied to rooms.

It is mounted on the supply duct behind the heat recovery unit and controlled by any WANAS heat recovery unit. It is an ideal combination with a buffer tank or ground source heat pump. This provides the most cost-effective way to subcool rooms and regenerate the ground source. The unit can also be mounted in front of the heat recovery unit, on the intake side, to function as a ground heat exchanger (GHE) module.



WANAS Maxi

TECHNICAL DATA

		WANAS Mini	WANAS Maxi
Recommended flow to	m ³ /h	600	1300
Performance up to	kW	3,1	7,3
Diameter of the nozzles	mm	200	315
Height	mm	491	652
Width	mm	486	484
Depth	mm	547	659
Weight	kg	35,85	45,5

WANAS FREON HEATER-COOLER

The WANAS Mini R32 ductless air cooler is designed to expand mechanical ventilation systems with a WANAS heat recovery unit to include heating and cooling capabilities. This expansion allows you to cool or reheat the air supplied to rooms and reduce air humidity in the summer. The unit should be mounted on the supply duct, downstream of the heat recovery unit, and is controlled using any WANAS heat recovery unit with a V2 controller. For proper operation, an external air conditioning unit is required – an external condensing unit and an AHUKit control module.



WANAS Mini R32

TECHNICAL DATA

		Mini R32	Maxi R32
Recommended flow to	m ³ /h	600	1300
Maximum heating power	kW	3	5,3
Maximum cooling power	kW	2,9	5,6
Energy consumption	W	-	-
Diameter of the nozzles	mm	200	315
Height	mm	491	625
Width	mm	486	486
Depth	mm	547	657
Weight	kg	29,5	41

COMPLETE THE SET:

1. WANAS MINI R32
2. 3.5 kW REFRIGERATION UNIT
3. AHUKit AHU-12-D1AG

or

1. WANAS MAXI R32
2. 5.3kW REFRIGERATION UNIT
3. AHUKit AHU-12-D1AG



WANAS Maxi R32

WANAS Recuperators

	EAN	Code	Name
	5903890752866	RE-200 V	WANAS BLACK 200 V
	5903890752873	RE-200 V E	WANAS BLACK 200 V ENTHALPIC
	5903890752880	RE-200 V XF	WANAS BLACK 200 V XF
	5903890752897	RE-200 V XF E	WANAS BLACK 200 V XF ENTHALPIC
	5903890752903	RE-300 V	WANAS BLACK 300 V
	5903890752910	RE-300 V E	WANAS BLACK 300 V ENTHALPIC
	5903890752927	RE-300 V XF	WANAS BLACK 300 V XF
	5903890752934	RE-300 V XF E	WANAS BLACK 300 V XF
	5903890754969	RE-COMBO 430 V/H	WANAS 430 V/H COMBO
	5903890754976	RE-COMBO 630 V/H	WANAS 630 V/H COMBO
	5903890754310	RE-COMBO 830 V/H	WANAS 830 V/H COMBO
	5903890754716	RE-COMBO 1030 V/H	WANAS 1030 V/H COMBO

WANAS Recuperators

	EAN	Code	Name
	5903890754211	RE-COMBO 1330 H	WANAS 1330 H COMBO
	5903890751951	RE-250 H SV2	WANAS 250 H
	5903890751975	RE-250 H SV2 E	REKUPERATOR WANAS 250 H
	5903890753993	RE-915 XF	RECUPERATOR WANAS 915 H XF
	5903890750497	RE-1315 XF	RECUPERATOR WANAS 1315H XF
	5903890754020	RE-345 XF	RECUPERATOR WANAS 345 XF
	5903890753191	RE-545 XF	RECUPERATOR WANAS 545 XF
	5903890753207	RE-545 XF E	RECUPERATOR WANAS 545 XF
	5903890754013	RE-845 XF	RECUPERATOR WANAS 845 XF
	5903890754822	RE-845 XF E	RECUPERATOR WANAS 845 XF E
	5903890753917	RE-1345 XF	RECUPERATOR WANAS 1345 XF
	5903890754303	RE-AIRCLASS 600 E	RECUPERATOR WANAS AIRCLASS 600 E

WANAS Recuperators

	EAN	Code	Name
	5903890754334	RE-340 V	RECUPERATOR WANAS 340 V
	5903890754419	RE-400 V	RECUPERATOR WANAS 400 V
	5903890754372	RE-400 V XF	RECUPERATOR WANAS 400 V XF
	5903890754396	RE-400 V XF E	RECUPERATOR WANAS 400 V XF E
	5903890754358	RE-340 H	RECUPERATOR WANAS 340 H
	5903890754433	RE-400 H	RECUPERATOR WANAS 400 H
	5903890754402	RE-400 H XF	RECUPERATOR WANAS 400 H XF
	5903890754457	RE-400 H XF E	RECUPERATOR WANAS 400 H XF E
	5903890754495	RE-400V HI-TECH E	RECUPERATOR WANAS 400 V HI-TECH E
	5903890754501	RE-400 H HI-TECH E	RECUPERATOR WANAS 400 H HI-TECH E
	5903890754655	RE-600 V HI-TECH E	RECUPERATOR WANAS 600V HI-TECH E

WANAS Recuperators

EAN

Code

Name



5903890754662

RE-600 H HI-TECH E

RECUPERATOR WANAS
600 H HI-TECH E



5903890754570

RE-600 V

RECUPERATOR WANAS 600 V

5903890754532

RE-600 V XF

RECUPERATOR WANAS 600 V XF

5903890754532

RE-600 V XF E

RECUPERATOR WANAS 600 V XF E



5903890754556

RE-600 H XF

RECUPERATOR WANAS 600 H XF

5903890754594

RE-600 H

RECUPERATOR WANAS 600 H

5903890754556

RE-600 H XF E

RECUPERATOR WANAS 600 H XF E



5903890754730

RE-800 V/H XF

RECUPERATOR WANAS 800 V/H XF



5903890753597

RE-CHŁODNICA MINIR32

HEATER/COOLER
FREON WANAS Mini R32 (3,5 kW)



5903890753924

RE-CHŁODNICA MAXIR32

HEATER/COOLER
FREON WANAS MAXI R32 (5,3 kW)

WANAS Recuperators

	EAN	Code	Name
	5903890750510	RE-CHŁODNICA MINI	HEATER/COOLER WATER Mini (3,1 kW)
	5903890750527	RE-CHŁODNICA MAXI	HEATER/COOLER WATER Maxi (7,3 kW)
	5903890752781	RE-NAWILŻACZ 600UNI	AIR HUMIDIFIER UMECTO 600 UNI
	5903890752798	RE-NAWILŻACZ 1300UNI	AIR HUMIDIFIER UMECTO 1300 UNI
	5903890750534	RE-NAWILŻACZ 600	AIR HUMIDIFIER UMECTO 600
	5903890750541	RE-NAWILŻACZ 1300	AIR HUMIDIFIER WANAS UMECTO 1300

WANAS Accesories

EAN

Code

Name



5903890753696

RE-CHŁO WODNA 334 W

WANAS 334 WATER EXCHANGER

5903890754204

P-WYM WODNY 444

WANAS 444 WATER EXCHANGER



5903890753153

RE-CHŁO FREON 334

FREON EXCHANGER R32 WANAS 334

5903890754198

P-WYM R32 FREON 444

FREON EXCHANGER R32 WANAS 444



5903890753931

RE-CZUJNIK CO2R CZAR

SENSOR CO2R Control

5903890753955

RE-CZUJNIK CO2 CZAR

SENSOR CO2 Control



5903890753702

RE-CZUJNIK CO2RCONTR

SENSOR CO2R Control

5903890753344

RE-CZUJNIK CO2CONTR

SENSOR CO2 Control



5903890753948

RE-CZUJNIK MAXICONTR

SENSOR maxiControl



5903890753177

RE-CZUJNIK MAXICONTR

SENSOR maxiControl

WANAS Accesories

	EAN	Code	Name
	5903890754327	RE-MODUŁ INT_W-25	WANAS INTERNET MODULE MOBILE CONTROL W-25 Wi-Fi
	5903890750589	RE-MODUŁ INT_W-15	WANAS INTERNET MODULE WANAS MOBILE CONTROL W-15
	5903890750626	RE-PRZEWÓD 4X0,14	CABLE 4x0.14
	5903890750619	RE-CZUJNIK EXTRA TEMP	TEMPERATURE EXTRA SENSOR
	5903890750633	RE-CZUJNIK W-1000	TEMPERATURE SENSOR W-1000
	5903890754259	WE-RED ASYM 160/125	ASYMMETRICAL REDUCTION 160/125
	5903890754778	RE-FILTR 35-40 Aw7	Filter ePM 2,5 - 65% for WANAS 340,350/2, 350/3, 355, 400 and WANAS COMBO 430, 630
	5903890754785	RE-FILTR 55-60 Aw7	Filter ePM 2,5 - 65% for WANAS 550/2, 550/3 and 555, 600

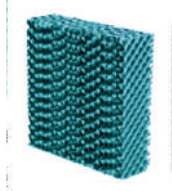
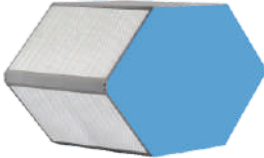
WANAS Accesories

	EAN	Code	Name
	5903890753941	RE-FILTR 20-30 M5	Filter ePM 10 50% for WANAS BLACK 200V i 300V
	5903890751692	RE-FILTR 24-25 M5	Filter ePM 10 50% for WANAS 250MN
	5903890751722	RE-FILTR 35-40 M5	Filter ePM 10 50% for WANAS 340,350V/2, 350H/2 and 350V/3 i 350H/3, 355,400, COMBO 430/630
	5903890751777	RE-FILTR 39-41 M5	Filter ePM 10 50% for WANAS 415
	5903890754990	RE-FILTR 43-63 M5	Filter ePM 10 50% for WANAS COMBO 430 V/H and 630 V/H
	5903890751807	RE-FILTR 55-60 M5	Filter ePM 10 50% for WANAS 550V/2, 550H/2 and 550V/3 i 550H/3, 555, 600
	5903890751821	RE-FILTR 59-61 M5	Filter ePM 10 50% for WANAS 615
	5903890751876	RE-FILTR 78-81 G4 NAW	Filter ISO COARSE 75% for WANAS 815 - NAWIEWNY
	5903890751869	RE-FILTR 78-81 G4 WYW	Filter ISO COARSE 75% for WANAS 815 - WYWIEWNY
	5903890751852	RE-FILTR 80-85 G4	Filter ISO COARSE 75% for WANAS 800/845
	5903890751890	RE-FILTR 90-13 G4	Filter ISO COARSE 75% dla centrali WANAS 900H/915
	5903890751890	RE-FILTR 90-13 G4	Filter ISO COARSE 75% for WANAS 1300H/1315/1345
	5903890751890	RE-FILTR 90-13 G4	Filter ISO COARSE 75% for WANAS COMBO 830V/H, 1030, 1330
	5903890753146	RE-FILTR 20-30 A	Filter ePM 1,0 80% for WANAS BLACK 200V i 300V
	5903890751708	RE-FILTR 24-25 A	Filter ePM 1,0 80% for WANAS 250MN
	5903890751739	RE-FILTR 35-40 A	Filter ePM 1,0 80% for WANAS 340, 350V/2, 350H/2 oraz 350V/3 i 350H/3, 355 ,400, COMBO 430/630
	5903890751784	RE-FILTR 39-41 A	Filter ePM 1,0 80% for WANAS 415
	5903890751814	RE-FILTR 55-60 A	Filter ePM 1,0 80% for WANAS 550V/2, 550H/2 oraz 550V/3 i 550H/3, 600
	5903890751838	RE-FILTR 59-61 A	Filter ePM 1,0 80% for WANAS 615
	5903890751845	RE-FILTR 80-85 A	Filter ePM 1,0 80% for WANAS 800/845
	5903890751883	RE-FILTR 78-81 A	Filter ePM 1,0 80% for WANAS 815
	5903890751906	RE-FILTR 90-13 A	Filter ePM 1,0 80% for WANAS 900H, 915, 1300, 1315, 1345, COMBO 830, COMBO 1030, COMBO 1330
	5903890755003	RE-FILTR 43-63 A	Filter ePM 1,0 80% for WANAS COMBO 430 V/H and 630 V/H

WANAS Accesories

	EAN	Code	Name
	5903890751746	RE-FILTR 345-3/401 G4	Filter ISO COARSE 75% for WANAS 345
	5903890751791	RE-FILTR 55-60 G4W	Filter ISO COARSE 75% for WANAS 550 V/2, 550 H/2 and 550 V/3 and 550 H/3, 600
	5903890751586	RE-FILTR 24-25 G4W	Filter ISO COARSE 75% carbon for WANAS 250MN
	5903890751999	RE-FILTR 25-25 M5	Filter ePM 10 50% for WANAS 250 H
	5903890753160	RE-FILTR 545 M5	Filter ISO COARSE 75% for WANAS 545 XF/ AIRCLASS 600
	5903890753351	RE-FILTR 545 G4	Filter ISO COARSE 75% for WANAS 545 XF, COMBO 830, COMBO 1030, 600 AIR CLASS
	5903890751982	RE-FILTR 25-25 G4	Filter ISO COARSE 75% for WANAS 250 H / AIRCLASS 600
	5903890753115	RE-FILTR 20-30 G4 1	Filter ISO COARSE 75% for WANAS BLACK 200 V i 300 V - supply
	5903890751579	RE-FILTR 24-25 G4 UC	Filter ISO COARSE 75% for WANAS 250MN
	5903890751593	RE-FILTR GWC_35	Filter ISO COARSE 75% for WANAS 350 and for the module WANAS GWC 426
	5903890751609	RE-FILTR 35-40 G4 UC	Filter ISO COARSE 75% for WANAS 340, 350 V/2, 350 H/2 and 350 V/3 i 350 H/3, 355, 400 and COMBO 430/630
	5903890751654	RE-FILTR 39-41 G4 UC	Filter ISO COARSE 75% for WANAS 415
	5903890751630	RE-FILTR 550 G4 UC	Filter ISO COARSE 75% for WANAS 550
	5903890751623	RE-FILTR 55-60 G4 UC	Filter ISO COARSE 75% for WANAS 550 V/2, 550 H/2 and 550 V/2 i 550 H/3
	5903890751678	RE-FILTR 59-61 G4 UC	Filter ISO COARSE 75% for WANAS 615
	5903890754983	RE-FILTR 43-63 UC	Filter ISO COARSE 75% for WANAS COMBO 430 V/H and 630 V/H
	5903890753122	RE-FILTR 20-30 G4 2	Filter ISO COARSE 75% for WANAS BLACK 200V i 300V - exhaust

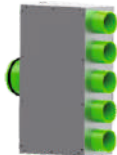
WANAS Accesories

	EAN	Code	Name
	5903890751753	RE-FILTR 345-3/401 Aw7	Filter ISO COARSE 75% carbon for WANAS 345
	5903890751616	RE-FILTR 35-40 G4 UCW	Filter ISO COARSE 75% carbon for WANAS 340, 350V/2, 350H/2 and 350V/3 i 350H/3, 355, 400 and COMBO 430/630
	5903890751661	RE-FILTR 39-41 G4 UCW	Filter ISO COARSE 75% carbon for WANAS 415
	5903890751647	RE-FILTR 55-60 G4 UCW	Filter ISO COARSE 75% carbon for WANAS 550V/2, 550H/2 and 550V/3 and 550H/3, 600
	5903890751685	RE-FILTR 59-61 G4 UCW	Filter ISO COARSE 75% carbon for WANAS 615
	5903890750596	RE-HUMIDITY PAD 100	EVAPORATION MAT FOR UMECTO HUMIDIFIER
	5903890750602	RE-HUMIDITY PAD 200	EVAPORATION MAT FOR HUMIDIFIER UMECTO 600, COMBO 430, 630
	5903890750602	RE-HUMIDITY PAD 500	EVAPORATION MAT FOR WANAS 830, 1030, 1330
	5903890754938	RE-WYMIENNIK ENT_350	WANAS BLACK 200, 300 ENTHALPIC EXCHANGER
	5903890750732	RE-WYMIENNIK ENT_380	WANAS 350, 400 ENTHALPIC EXCHANGER
	5903890750749	RE-WYMIENNIK ENT_460	WANAS 550, 600 ENTHALPIC EXCHANGER
	5903890750756	RE-WYMIENNIK ENT_440	WANAS 415 ENTHALPIC EXCHANGER
	5903890750763	RE-WYMIENNIK ENT_200	WANAS 615 ENTHALPIC EXCHANGER (ENT 200 + ENT 400)
	5903890750770	RE-WYMIENNIK ENT_400	WANAS 815 ENTHALPIC EXCHANGER (2 x ENT 400)
	5903890751937	RE-STOJAK 250 H	STAND FOR THE WANAS 250 H RECUPERATOR
	5903890750640	RE-STOJAK BLACK	STAND FOR WANAS BLACK HEAT RECOVERY
	5903890750657	RE-STOJAK 400/415/GW	STAND FOR WANAS 340, 400 AND 415 RECUPERATOR
	5903890750664	RE-STOJAK 600	STAND FOR WANAS 600 RECUPERATOR
	5903890750688	RE-STOJAK 900 H	STAND FOR RECUPERATOR WANAS 915
	5903890750695	RE-STOJAK 1300 H	STAND FOR RECUPERATOR WANAS 1315
	5903890750725	RE-STOJAK CHŁODNICA444	STAND FOR RECUPERATOR WANAS Maxi HEATER/Cooler
	5903890750701	RE-STOJAK CHŁODNICA426	STAND FOR RECUPERATOR WANAS Mini HEATER/Cooler
	5903890750718	RE-STOJAK NAWILŻACZ	STAND FOR RECUPERATOR UMECTO AIR HUMIDIFIER

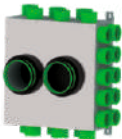
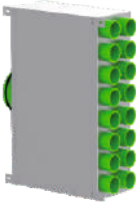
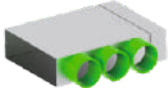
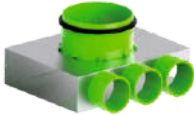
WANAS Accesories

	EAN	Code	Name
	5903890753269	RE-AGREGAT+AHU KIT3	REFRIGERATION UNIT 3.5 kW + AHUKit AHU-12-D1AG
	5903890753283	RE-AGREGAT+AHU KIT5	REFRIGERATION UNIT 5.3 kW + AHUKit AHU-18-C1AG
	5903890753795	WE-KAUCZUK KANAŁ 160	RUBBER DUCT INSULATION Ø160x1000 mm. THICKNESS: 19 mm
	5903890753788	WE-KAUCZUK KANAŁ 200	RUBBER DUCT INSULATION Ø200x1000 mm.
	5903890753771	WE-KAUCZUK KANAŁ 250	RUBBER DUCT INSULATION Ø250x1000 mm.
	5903890753719	WE-KAUCZUK KOL 160	
	5903890753726	WE-KAUCZUK KOL 200	RUBBER INSULATION ELBOW
	5903890753733	WE-KAUCZUK KOL 250	
	5903890753740	WE-KAUCZUK TRÓJ 160	
	5903890753757	WE-KAUCZUK TRÓJ 200	RUBBER INSULATION T-JOINT
	5903890753764	WE-KAUCZUK TRÓJ 250	
	4035604027289	P-KLEJ DO MATY	MAT GLUE
	5903890752545	WE-ROZPR. 2X75X125_M	BOX SUPPLY/EXHAUST 2XØ75/125
	5903890751258	WE-ROZPR 1X75X100	PLENUM BOX SINGLE 1xØ75/100

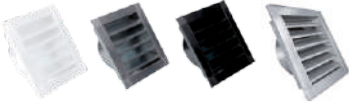
WANAS Accesories

	EAN	Code	Name
	5903890751265	WE-ROZPR 2X75X125	PLENUM BOX DOUBLE 2xØ75/125
	5903890751272	WE-ROZPR 3X75X150	PLENUM BOX TRIPLE 3xØ75/150
	5903890750954	WE-ZAW-NAW-100	SUPPLY DIFFUSER
	5903890750961	WE-ZAW-NAW-125	
	5903890750978	WE-ZAW-NAW-150	
	5903890750985	WE-ZAW-WYW-100	EXHAUST DIFFUSER
	5903890750992	WE-ZAW-WYW-125	
	5903890751005	WE-ZAW-WYW-150	
	5903890750794	WE-ROZDZ-5X75X125	DISTRIBUTOR 5xØ75 1xØ125 insulated
	5903890750817	WE-ROZDZ-8X75X160	DISTRIBUTOR 8xØ75 1xØ160 insulated
	5903890750848	WE-ROZDZ-12X75X200	DISTRIBUTOR 10xØ75 1xØ160 insulated
	5903890754921	WE-ROZDZ-16X75X200	WALL DISTRIBUTOR 16xØ75 1xØ160
	5903890750848	WE-ROZDZ-12X75X200	DISTRIBUTOR 12xØ75 1xØ200 insulated
	5903890750855	WE-ROZDZ-14X75X200	DISTRIBUTOR 14xØ75 1xØ200 insulated

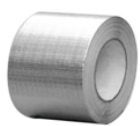
WANAS Accesories

	EAN	Code	Name
	5903890754754	WE-ROZDZ-11X75X160	11XØ75/160 SUPPLY/EXHAUST DISTRIBUTOR INSULATED
	5903890754297	WE-ROZDZ-16X75X200	DISTRIBUTOR 16xØ75 1xØ200 INSULATED
	5903890751289	WE-ROZPR 2X75X125 N	CORNER BOX 2xØ75/125
	5903890750893	WE-SK-ODSADZ D	SETTLEMENT
	5903890750886	WE-SK-ODSADZ M	
	5903890750909	WE-ROZPR. 2X75X125 S	CEILING BOX FOR BUILT-IN KG 2xØ75/125
	5903890751296	WE-K 3X75 PRZELOT	3XØ75 TRANSMISSION BOX
	5903890754242	WE-K 6X75 PRZELOT	6XØ75 TRANSMISSION BOX
	5903890754068	WE-K 3X75+160 PRZELOT	PASS-THROUGH CONNECTION 3XØ75+160
	5903890754075	WE-K 3X75+200 PRZELOT	PASS-THROUGH CONNECTION 3xØ75+200
	5903890754129	WE-K 6X75+160 PRZELOT	PASS-THROUGH CONNECTION 6xØ75+160

WANAS Accesories

	EAN	Code	Name
	5903890754136	WE-K 6X75+200 PRZELOT	PASS-THROUGH CONNECTION 6xØ75+200
	5903890754174	WE-K KOLANO	SLEEVE ELBOW 80xØ250
	5903890754181	WE-K PRZEDŁUŻKA	EXTENSION 80xØ250
	5903890754099	WE-K 2X75 ZAŚLEPKA	2XØ75 BOX COVER
	5903890754105	WE-K ØX75 ZAŚLEPKA	BOX COVER ØXØ75
	5903890751043 5903890754808 5903890754952	WE-CK 425X600_GRAFIT WE-CK 425X600_SZARA WE-CK 425X600_BIAŁA	WALL AIR INTAKE/EXHAUST
	5903890751180 5903890751197 5903890751203 5903890751210	WE-TŁUMIK 200/600 WE-TŁUMIK 200/900 WE-TŁUMIK 250/600 WE-TŁUMIK 250/900	ACOUSTIC SILENCER
	5903890751227 5903890751234 5903890751241	WE-KANAŁ ELAST 160 WE-KANAŁ ELAST 200 WE-KANAŁ ELAST 254	INSULATED FLEXIBLE HOSE
	5903890751012 5903890751043 5903890751029 5903890751036 5903890751050 5903890751081 5903890751067 5903890751074	WE-CK 330X330_OCYNK WE-CK 330X330_GRAFIT WE-CK 330X330_SZARA WE-CK 330X330_BIAŁA WE-CK 380X380_OCYNK WE-CK 380X380_GRAFIT WE-CK 380X380_SZARA WE-CK 380X380_BIAŁA	WALL INTAKE/EXHAUST
	5903890751111 5903890751104 5903890751098 5903890751142 5903890751135 5903890751128 5903890751173 5903890751166 5903890751159	WE-CO 160_GRAFIT WE-CO 160_SZARA WE-CO 160_BIAŁA WE-CO 200_GRAFIT WE-CO 200_SZARA WE-CO 200_BIAŁA WE-CO 250_GRAFIT WE-CO 250_SZARA WE-CO 250_BIAŁA	ROUND WALL INTAKE/EXHAUST

WANAS Accesories

	EAN	Code	Name
	5903890751357	WE-KANAŁ SPIRO 160	SPIRO CHANNEL GALVANIZED
	5903890751364	WE-KANAŁ SPIRO 200	
	5903890751371	WE-KANAŁ SPIRO 250	
	5903890751517	WE-TRO 200/160	JOINT
	5903890751524	WE-TRO 200/200	
	5903890753245	WE-TRO 250/250	
	5903890751555	WE-RED 200/160	REDUCTION
	5903890751562	WE-RED 250/200	
	5903890751388	WE-KOL 160/90	ELBOW
	5903890751395	WE-KOL 200/90	
	5903890751401	WE-KOL 250/90	
	5903890751449	WE-NYP 160	NIPPLE
	5903890751456	WE-NYP 200	
	5903890751463	WE-NYP 250	
	5903890751418	WE-MUFA 160	MUFF
	5903890751425	WE-MUFA 200	
	5903890751432	WE-MUFA 250	
	5903890751531	WE-TAŚMA PERF	PERFORATED TAPE
	5903890751548	WE-TAŚMA SREBNA	SILVER TAPE
	5903890751487	WE-MATA 30 MM	INSULATION WITH ADHESIVE
	5903890751470	WE-MATA 50 MM	
	5903890751494	WE-U MET 200	MOUNTING CLAMP
	5903890751500	WE-U MET 250	

EFFICIENCY OF ENTHALPIC EXCHANGERS

Air flow	WANAS 400		WANAS 600	
	η_T	η_{H_2O}	η_T	η_{H_2O}
100 m ³ /h	84,3%	68,5%	84,6%	69,5%
200 m ³ /h	78,5%	55,4%	79,7%	58%
300 m ³ /h	73,8%	45,9%	75,1%	48,3%
400 m ³ /h	70,4%	40,2%	71%	40,3%
500 m ³ /h	-	-	-	-
600 m ³ /h	-	-	-	-

Values:

Tw= 20°C
Tz=-5°C
RHw= 45%
RHZ= 70%

Markings:

Tw - Internal temperature
Tz - Outside temperature
RHw - Humidity inside
RHZ - Outdoor humidity

η_{RH} CALCULATE RECOVERY

$$\frac{RH_1 - RH_2}{RH_3 - RH_2} \times 100\%$$

RH₁ – Humidity of air supplied to rooms [g/M.³]
RH₂ – Humidity of air taken from outside [g/M.³]
RH₃ – Humidity of air taken from rooms [g/M.³]

VENTILATION CALCULATORS

η_T CALCULATE EFFICIENCY

$$\frac{T_1 - T_2}{T_3 - T_2} \times 100\%$$

T₁- Temperature of the air supplied to the rooms
T₂- Air temperature taken from outside the building
T₃ - Temperature of air taken from rooms

CHOOSE

ELECTRIC HEATER

Calculate the increase in supply air temperature relative to the flow rate in m³/h and the heater power in watts.

CHOOSE

CHANNEL DIAMETER

Calculate the optimal duct diameter for the installation based on the flow rate in m³/h, while maintaining the appropriate flow rate in m³/s.



WANAS Sp. z o.o.

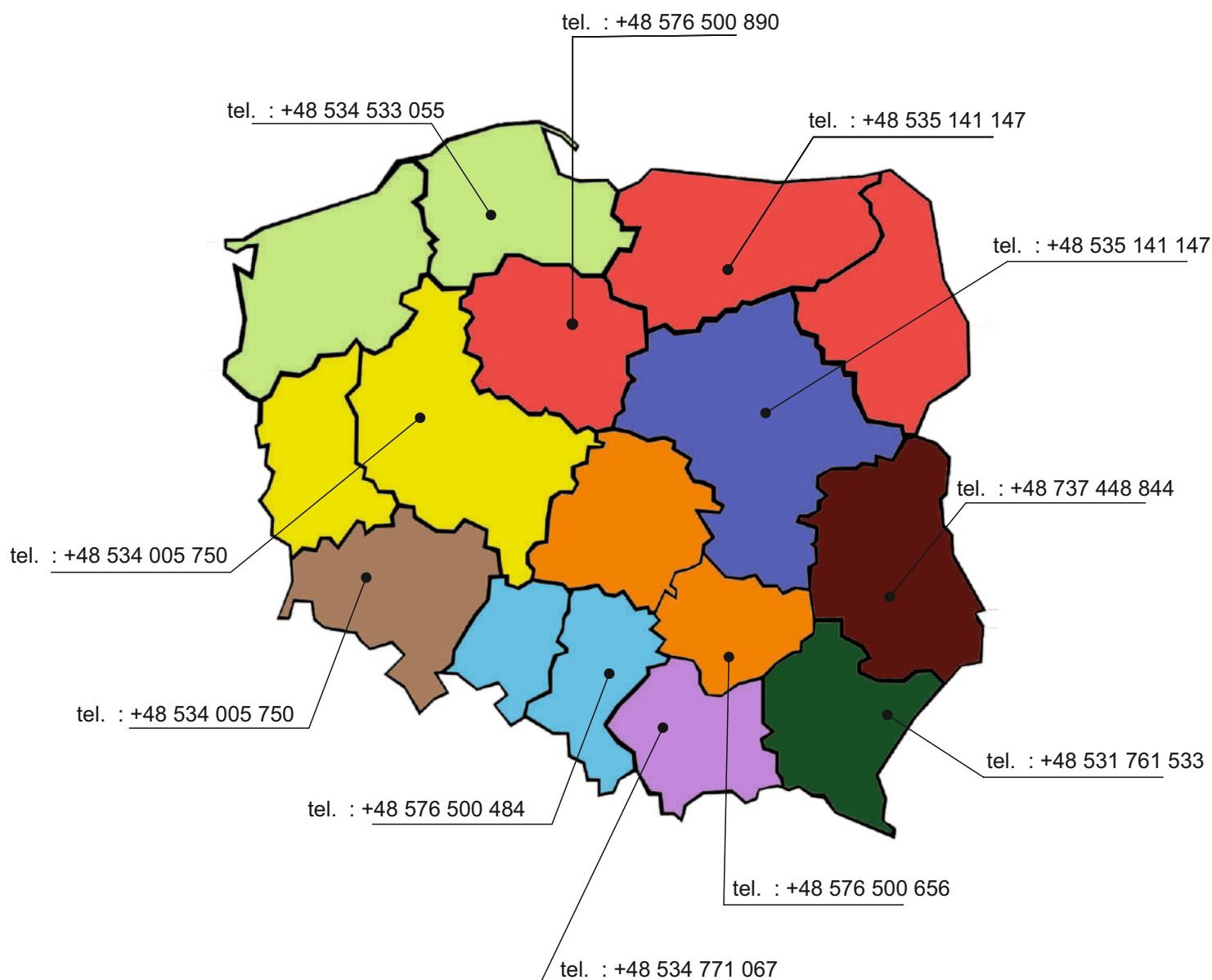
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35-232 Rzeszów

tel: +48 570 947 020

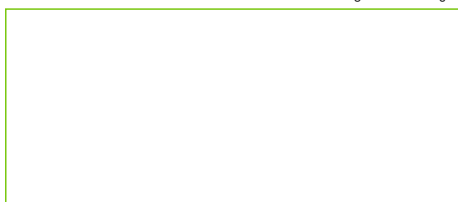
e-mail: export@wanas.pl

www.wanas.pl



The manufacturer reserves the right to change parameters/dimensions at any time.
The above leaflet does not constitute an offer within the meaning of Article 66 §1 of the Civil Code.

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distributor



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