

[www.en.wanas.pl](http://www.en.wanas.pl)



# **WANAS**<sup>®</sup>

## 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 resulted in the creation 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 **of 200 to 1300 m<sup>3</sup>/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 and with the purchase of an Internet module, also the possibility of controlling the control panel via the Internet using mobile devices.

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.



ir 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.



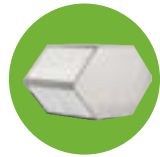
Bypass is used to cool the rooms. It is activated mainly in the summer, when the temperature in the room is higher than the comfort temperature and the outside temperature at night is lower than it.



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



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



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



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



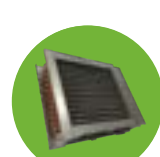
Selected partitions inside the air handling unit are made of a special insulating board.



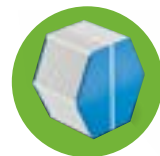
The body of the recuperator is made entirely of durable foamed polypropylene.



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



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.



Possibility of using an enthalpy exchanger with moisture recovery

# CHOOSE THE BEST RECUPERATOR FOR YOU

## COMBO



It is the only recuperator on the market with a unique combination of as many as four functions - ventilation, air humidification, heating and cooling. The innovative design of the recuperator, the use of highly efficient heat exchangers and the modulated heater ensure its high thermal efficiency and low energy consumption.



## BLACK



Black series air handling units are unique because of its casing made of durable foamed polypropylene. Design and new technology solutions offers an air handling unit with exceptional properties. Black series have universal casing suitable for right and left mounting option.



## CLASSIC XF



Wanas Classic series have been upgraded with the most desired auto-balancing flow XF system and extensive motherboard, these two allows to track status of current air flow in  $m^3/h$ .



## CLASSIC



WANAS bestselling air handling units are offering high standard of components and best proven solutions included in the attractive price. As a standard Wanas offers smart touch controller, wall bracket and odorless siphon.



## HIGH STANDARD OF EQUIPMENT

All WANAS air handling units have the necessary assembly kit that includes smart touch controller, wire cable between air handling unit & controller, wall bracket and odorless siphon, set of two stage filters (primary & secondary) and smart pre-heater. All these are delivered to customer without extra charge. Air handling units **815H, 815V, 900H & 1300H** because of its dimensions have adjustable leveling feet instead of wall bracket.



# CARBON DIOXIDE SENSOR

## CO<sub>2</sub>RControl

REMOTELY  
CONTROL  
THE LEVEL OF  
CO<sub>2</sub>



**3** OPTIONS  
CONTROLS  
VENTILATION



DISTRIBUTE  
INSTALLATION  
IN TWO ZONES

**OPTION 1** Use of two CO<sub>2</sub> sensors sensors (in the night zone and in the day zone) with automatic redirection of air depending on the CO<sub>2</sub> concentration.

**OPTION 2** The use of a single CO<sub>2</sub> sensor sensor in, for example, a bedroom, which controls the damper in the event that the set CO<sub>2</sub> level is exceeded.

**OPTION 3** Time-based control without sensors CO<sub>2</sub> sensor-free time control, based on hourly hourly.



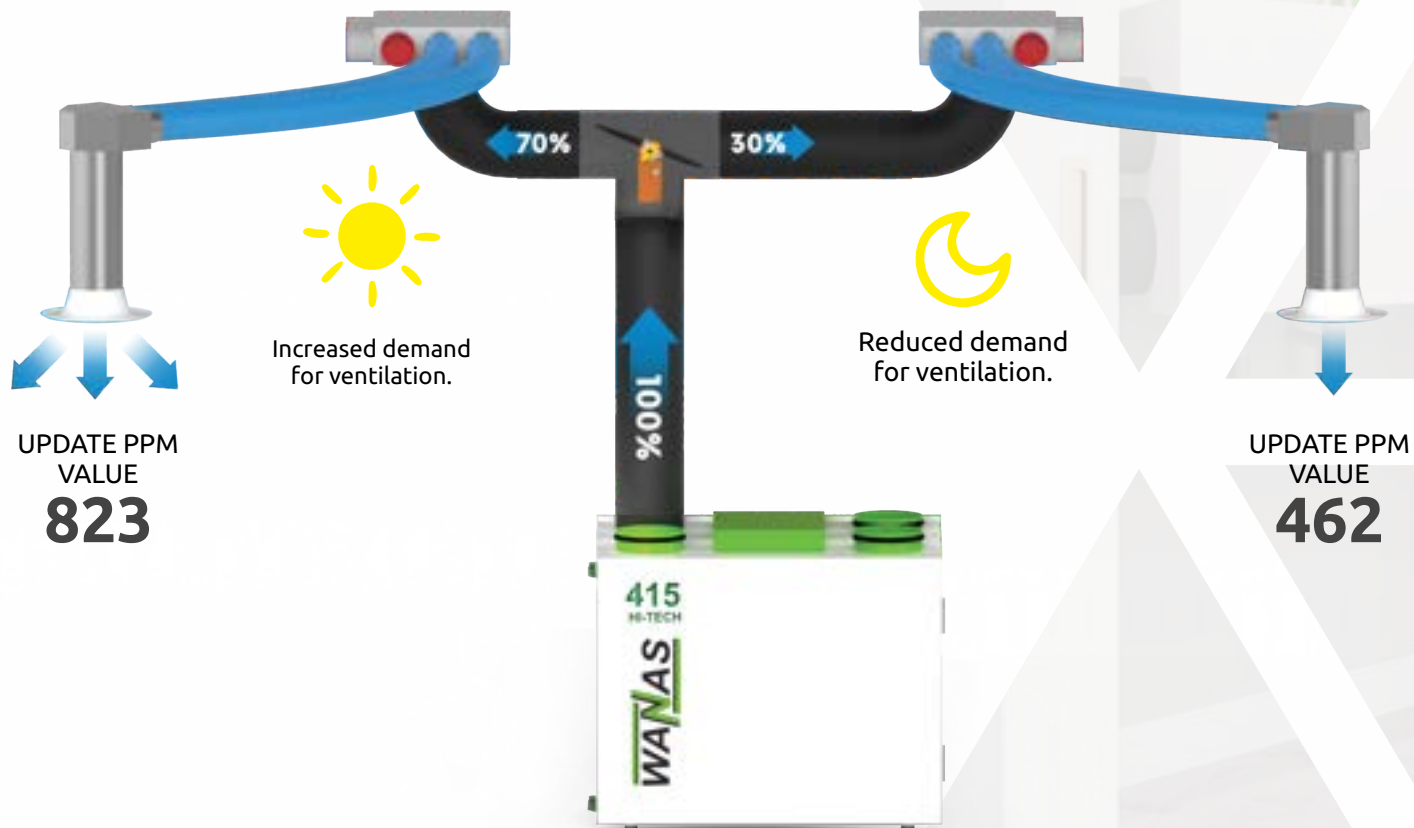
### Parameter

### Unit

CO <sub>2</sub> 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	15 -24V AC/ DC

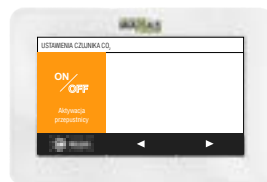


The CO<sub>2</sub>RControl radio sensor measures the concentration of carbon dioxide in the air and controls the operation of the recuperator according to the demand for fresh air. If the activity of the occupants increases, the CO<sub>2</sub> concentration rises, forcing the recuperator to run in gear 3. When the set threshold value is reached, the recuperator returns to the weekly schedule once the CO<sub>2</sub> concentration has normalised.



## DISCOVER THE 8 ADVANTAGES OF ZONED VENTILATION

1. ZONE DIVISION
2. INTENSITY CONTROL
3. OPTIMISATION OF ENERGY CONSUMPTION
4. MANUAL CONTROL AND TIME CONTROL
5. THREE CONTROL OPTIONS FOR ZONE VENTILATION
6. REDUCTION OF ENERGY LOSSES
7. MULTIFUNCTIONALITY
8. FLEXIBILITY AND ECONOMY



The system allows the fan to operate at lower gears (gear I), which reduces energy consumption. In addition, thanks to automatic adaptation to the level of carbon dioxide (CO<sub>2</sub>) in individual zones, the unit can automatically increase the intensity of ventilation when necessary. It is possible to manually adjust the air flow airflow by means of time settings. We can customize the system to our own preferences by setting the hours of operation of night and day zones. With zone ventilation, the system minimizes energy loss by focusing on ventilating the areas where it is currently needed, instead of ventilating the entire building at the same intensity intensity.

# CARBON DIOXIDE SENSOR

## CO<sub>2</sub>Control

MAINTAINS  
OPTIMAL  
LEVEL

CO<sub>2</sub>



Parameter	Unit	
CO <sub>2</sub> 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 CO<sub>2</sub>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 CO<sub>2</sub> concentration in the room decreases, the recuperator returns to work according to the weekly schedule.

## RADIO SENSOR miniControl

FROM **3** WIRELESS  
SENSORS FOR  
THE INSTALLATION

**2** PARAMETERS  
READ  
SIMULTANEOUSLY

°C RH



Parameter	Unit	
Temp. measurement range	°C	od -30 do 50
Humidity measurement range	% RH	od 10 do 95
Operating frequency	Mhz	868
Height	mm	44,3
Width	mm	44,3
Depth	mm	17
Battery power supply	-	Cr2032
Operating range in open area	m	10

The wireless **miniControl** sensor is a device used to measure **humidity and temperature** in a room. It increases the efficiency of the air handling unit if the humidity in the room is too high, or turns on the humidifier, or reduces the efficiency when it's too dry in the house. The sensor is compatible with the newest V2 driver. It is possible to register 3 sensors for each installation, e.g. two in the bathroom and one in the bedroom. The **miniControl** sensor can be connected to the system at any time, and due to the radio communication, it does not require a prior connection to the electricity network. Due to its small size, the sensor can be installed virtually anywhere.



# WIRELESS ROOM SENSOR

## maxiControl

UNTIL

# 60

METERS  
RANGE



79 mm x 79 mm x 18 mm



Parameter	Unit	
Temp. measurement range	°C	from -30 do 50
Humidity measurement range	% RH	from 10 do 95
Operating frequency	Mhz	868
Hight	mm	79
Width	mm	79
Depth	mm	18
Battery power supply	-	2xAAA
Operating range in open area	m	60

**2** PARAMETERS  
READ  
SIMULTANEOUSLY  
°C RH

**maxiControl** is a room wireless sensor for measuring the humidity and temperature in the room. The sensor allows you to control the operation of the humidifier and forces the air handling unit to work in gear I and III, depending on the current level of humidity in the room. The device is characterized by, among other things, modern design and an extended range of up to 60 meters. The sensor works with WANAS recuperators equipped with Display V2 controller and WANAS UMECTO humidifiers.

# ROOM SENSOR

## roomControl

80 mm x 80 mm x 21,6 mm



# V1

COMPATIBLE  
WITH THE WALL  
CONTROLLER

**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.

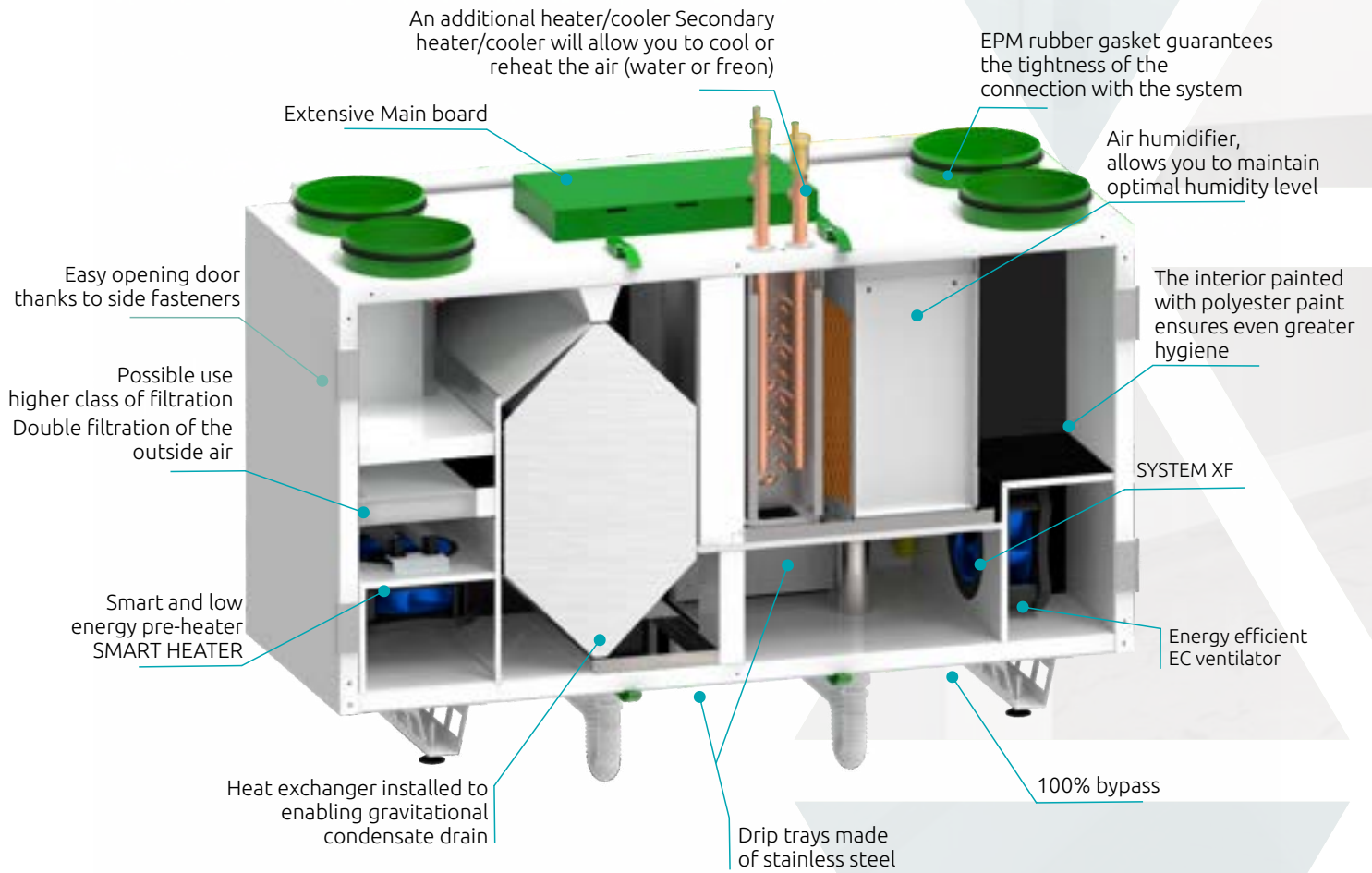
# AIR HANDLING UNITS COMBO **4in1**



## AIR HANDLING UNIT **WANAS 430V COMBO**

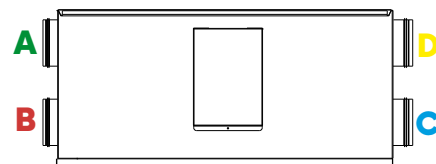
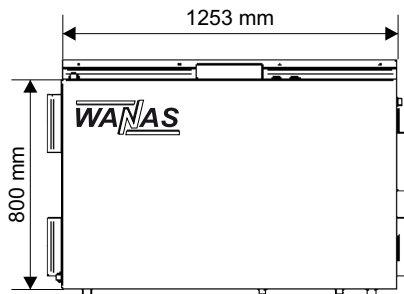
The unique solution used in COMBO recuperators is protected by a patent application of the Republic of Poland.

# SEE INSIDE

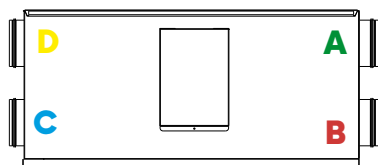


# WANAS 430H COMBO — WANAS 630H COMBO

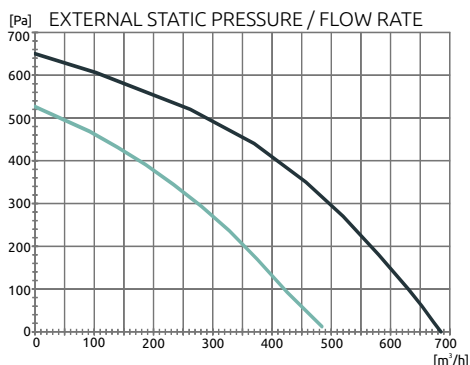
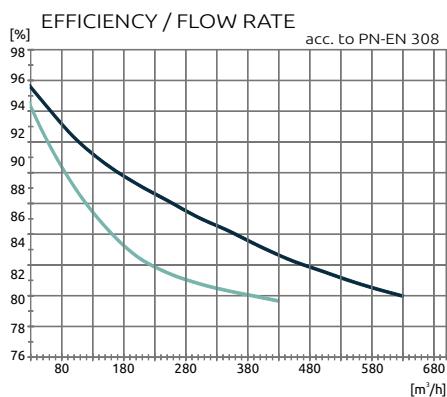
**WANAS COMBO** is the only available recuperator on the market with the possibility of combining as many as four devices in one housing. This unique air handling unit is not only a unique combination of humidifier and recuperator in one housing. The use of an additional water or freon heater-cooler module allows you to additionally cool or reheat the supply air. The recuperator is ideal for homes equipped with a heat pump or other source of heat and/or cooling.



- A - external fresh air
- B - air extraction from rooms
- C - air supply to rooms
- D - spent air discharge to the outside



LEFT VERSION



- COMBO 430
- COMBO 630

## TECHNICAL DATA

		430H	630H
KUEC (unit energy consumption) class	-	A	A
UEC for moderate climate	kWh/(m²/year)	-37,37	-38,21
UEC for cool climate	kWh/(m²/year)	-73,89	-75,15
UEC for warm climate	kWh/(m²/year)	-13,83	-14,43
Max. flow rate (at 100 Pa)	m³/h	432	632
Acoustic power (gear I/ acc. to UE 1254/2014)	dB(A)	39/48	40/55
Energy consumption	W	30-155	30-274
Nominal water consumption*	l/h	2,8	2,8
Pre-heater power	W	1 000	1 000
Secondary heater power	W	1 000	1 000
Humidifier energy consumption	W	2-18	2-18
Power supply	V/Hz	230/50	230/50
Stub pipe diameter	mm	200	200
Water connector diameter	cal	3/4	3/4
Max. efficiency acc. to UE 1254/2014, ΔT=13°C, at 200 m³/h, SWM	%	82,6	87,3
Efficiency acc. to UE 1254/2014, dT=13°C, SWM	%	80,8	82,4
Height	mm	800	800
Width	mm	1253	1253
Depth	mm	547	547
Weight	kg	89	88

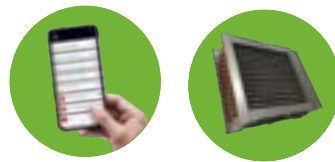
Filter class

ISO COARSE 75%  
+ ePM 10 50%

IN STANDARD



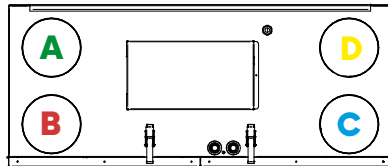
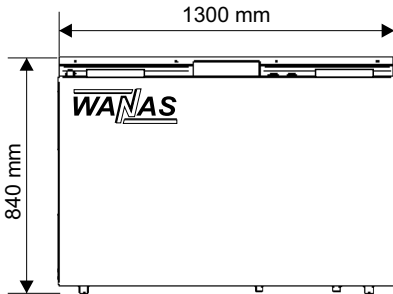
OPTIONS  
ADDITIONAL





# WANAS 630V COMBO — WANAS 430V COMBO

The WANAS COMBO has as many as four functions - ventilation, humidification, and heating and cooling capabilities. The built-in evaporative humidifier allows you to control the level of humidity throughout the year and ensure the expected comfort of indoor air. Thanks to the use of the latest fans, the recuperator is extremely quiet and energy efficient. The unit can be upgraded with a water or freon cooler.

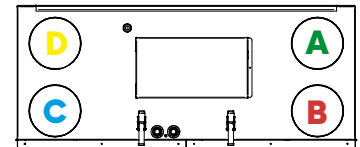


- A - external fresh air
- B - air extraction from rooms
- C - air supply to rooms
- D - spent air discharge to the outside



## DANE TECHNICZNE

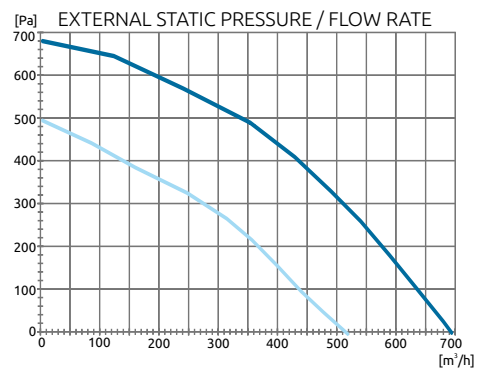
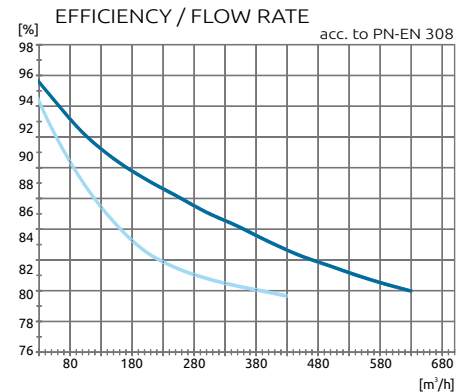
		430V	630V
KUEC (unit energy consumption) class	-	A	A
UEC for moderate climate	kWh/(m <sup>2</sup> /rok)	-37,37	-38,21
UEC for cool climate	kWh/(m <sup>2</sup> /rok)	-73,89	-75,15
UEC for warm climate	kWh/(m <sup>2</sup> /rok)	-13,82	-14,43
Max. flow rate (at 100 Pa)	m <sup>3</sup> /h	432	632
Acoustic power (gear I/ acc. to UE 1254/2014)	dB(A)	39/48	40/55
Energy consumption	W	30-155	30-274
Nominal water consumption*	l/h	2,8	2,8
Pre-heater power	W	1 000	1 000
Secondary heater power	W	1 000	1 000
Humidifier energy consumption	W	2-18	2-18
Power supply	V/Hz	230/50	230/50
Stub pipe diameter	mm	200	200
Water connector diameter	cal	3/4	3/4
Max. efficiency acc. to UE 1254/2014, ΔT=13°C, at 200 m <sup>3</sup> /h, SWM	%	82,6	87,3
Efficiency acc. to UE 1254/2014, dT=13°C, SWM	%	80,8	82,4
Height	mm	840	840
Width	mm	1300	1300
Depth	mm	545	545
Weight	kg	89	88



LEFT VERSION

Filter class

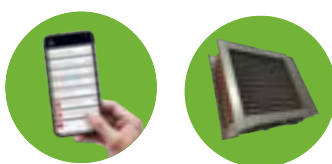
ISO COARSE 75%  
+ ePM 10 50%



— COMBO 430V  
— COMBO 630V



IN STANDARD



OPTIONS  
ADDITIONAL

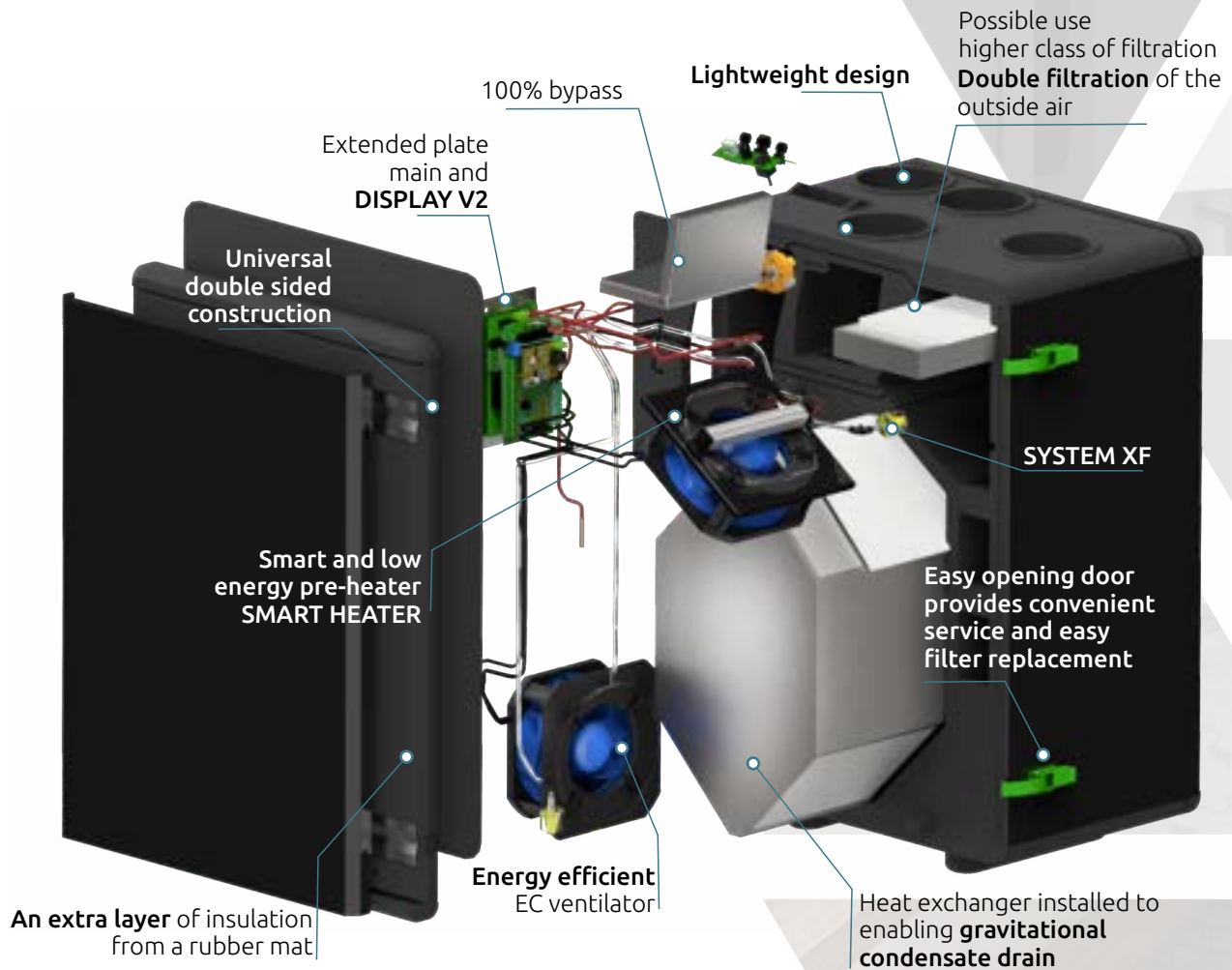


# AIR HANDLING UNITS **BLACK**



AIR HANDLING UNIT **WANAS BLACK 300V XF**

# SEE INSIDE

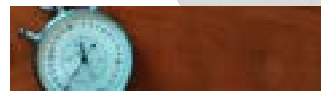


## DISPLAY V3

Minimalist controls will allow you to easily use of all the most important functions provided by the recuperator



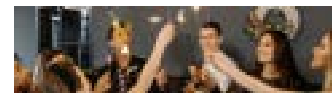
**READ ALERTS AND NOTIFICATIONS**



**PARTY MODE DURATION IMPACT**



**NETWORK CONNECTION WI-FI**



**PARTY MODE**



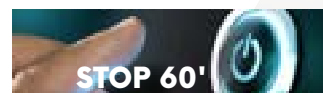
Expandable with an expansion module



**PAIR YOUR DEVICE VIA BLUETOOTH**

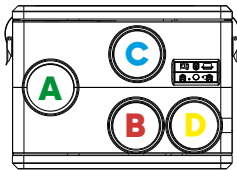


**FIREPLACE SET**



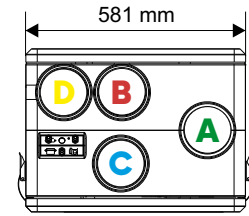
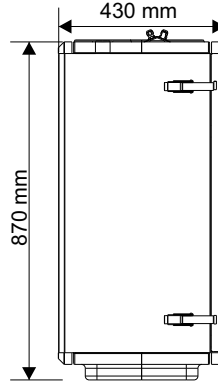
**STOP 60' TEMPORARY SHUTDOWN VENTILATORS**

# WANAS BLACK XF

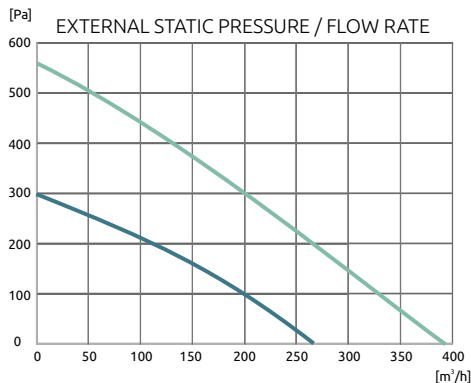
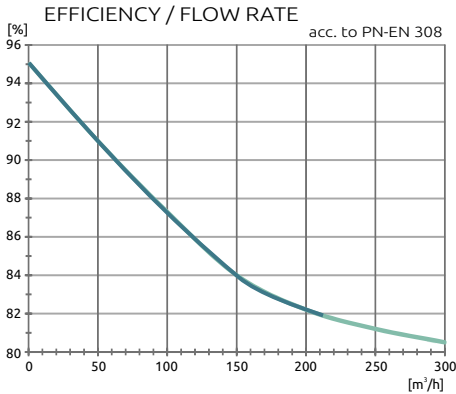


LEFT VERSION

**Black XF series** air handling units are unique because of its casing made of durable foamed polypropylene. Design and new technology solutions offers an air handling unit with exceptional properties. WANAS BLACK XF offers auto-balancing flow system, which constantly measures supply air flow rate & extract as well. Black series have universal casing suitable for right and left mounting option.



- A - external fresh air
- B - air extraction from rooms
- C - air supply to rooms
- D - spent air discharge to the outside



- BLACK 200
- BLACK 300

## TECHNICAL DATA

### 200V XF 300V XF

UEC (unit energy consumption) class	-	A	A
UEC for moderate climate	kWh/(m²/year)	-37,08	-35,08
UEC for cool climate	kWh/(m²/year)	-74,56	-71,78
UEC for warm climate	kWh/(m²/year)	-12,99	-11,42
Max. flow rate (at 100 Pa)	m³/h	200	332
Acoustic power (gear I/ acc. to UE 1254/2014)	dB(A)	39/46	42/55
External static pressure (at nominal value)	Pa	100	150
Energy consumption	W	16-84	25-208
Pre-heater power	W	500	500
Power supply	V/Hz	230/50	230/50
Stub pipe diameter	mm	125	125
Max. efficiency acc. to UE 1254/2014, ΔT=13°C, at 120 m³/h, SWM	%	93,5	93,5
Efficiency acc. to UE 1254/2014, dT=13°C, SWM	%	84,5	81,5
Height	mm	870	870
Width	mm	581	581
Depth	mm	430	430
Weight	kg	29,5	29,5
Filter class		ISO COARSE 75% + ePM 10 50%	

## IN STANDARD

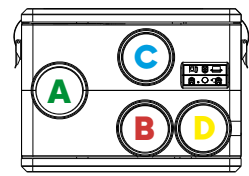
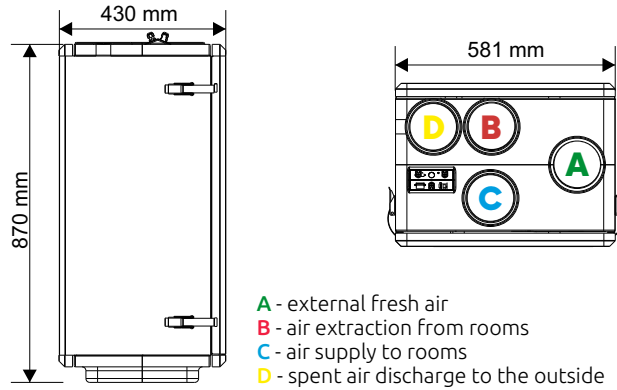


## OPTIONS ADDITIONAL



# WANAS BLACK

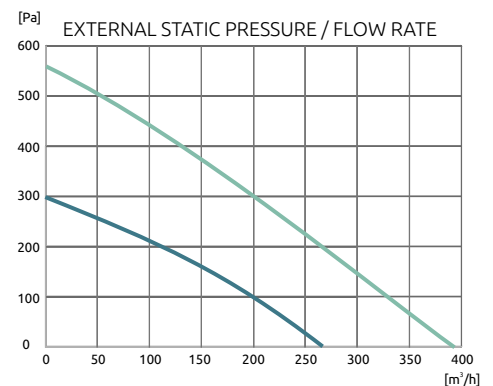
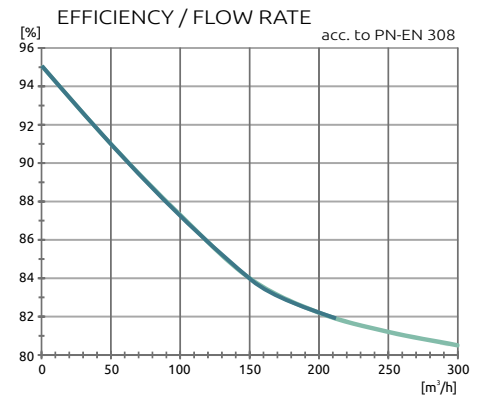
**BLACK** series recuperators are equipped with the latest DISPLAY V3 touchscreen wall-mounted controller with quick access to basic functions. Each recuperator has a built-in Wi-Fi internet module, so its control is carried out remotely, using a dedicated application. The application allows you to manage and set installation parameters.



LEFT VERSION

## TECHNICAL DATA

		200V	300V
UEC (unit energy consumption) class	-	A	A
UEC for moderate climate	kWh/(m <sup>2</sup> /year)	-37,08	-35,08
UEC for cool climate	kWh/(m <sup>2</sup> /year)	-74,56	-71,78
UEC for warm climate	kWh/(m <sup>2</sup> /year)	-12,99	-11,42
Max. flow rate (at 100 Pa)	m <sup>3</sup> /h	200	332
Acoustic power (gear I/ acc. to UE 1254/2014)	dB(A)	39/46	42/55
External static pressure (at nominal value)	Pa	100	150
Energy consumption	W	16-84	25-208
Pre-heater power	W	500	500
Power supply	V/Hz	230/50	230/50
Stub pipe diameter	mm	125	125
Max. efficiency acc. to UE 1254/2014, ΔT=13°C, at 120 m <sup>3</sup> /h, SWM	%	93,5	93,5
Efficiency acc. to UE 1254/2014, dT=13°C, SWM	%	84,5	81,5
Height	mm	870	870
Width	mm	581	581
Depth	mm	430	430
Weight	kg	29,5	29,5
Filter class		ISO COARSE 75% + ePM 10 50%	



— BLACK 200  
— BLACK 300



IN STANDARD



OPTIONS  
ADDITIONAL



# WANAS AIR HANDLING UNITS **CLASSIC XF**

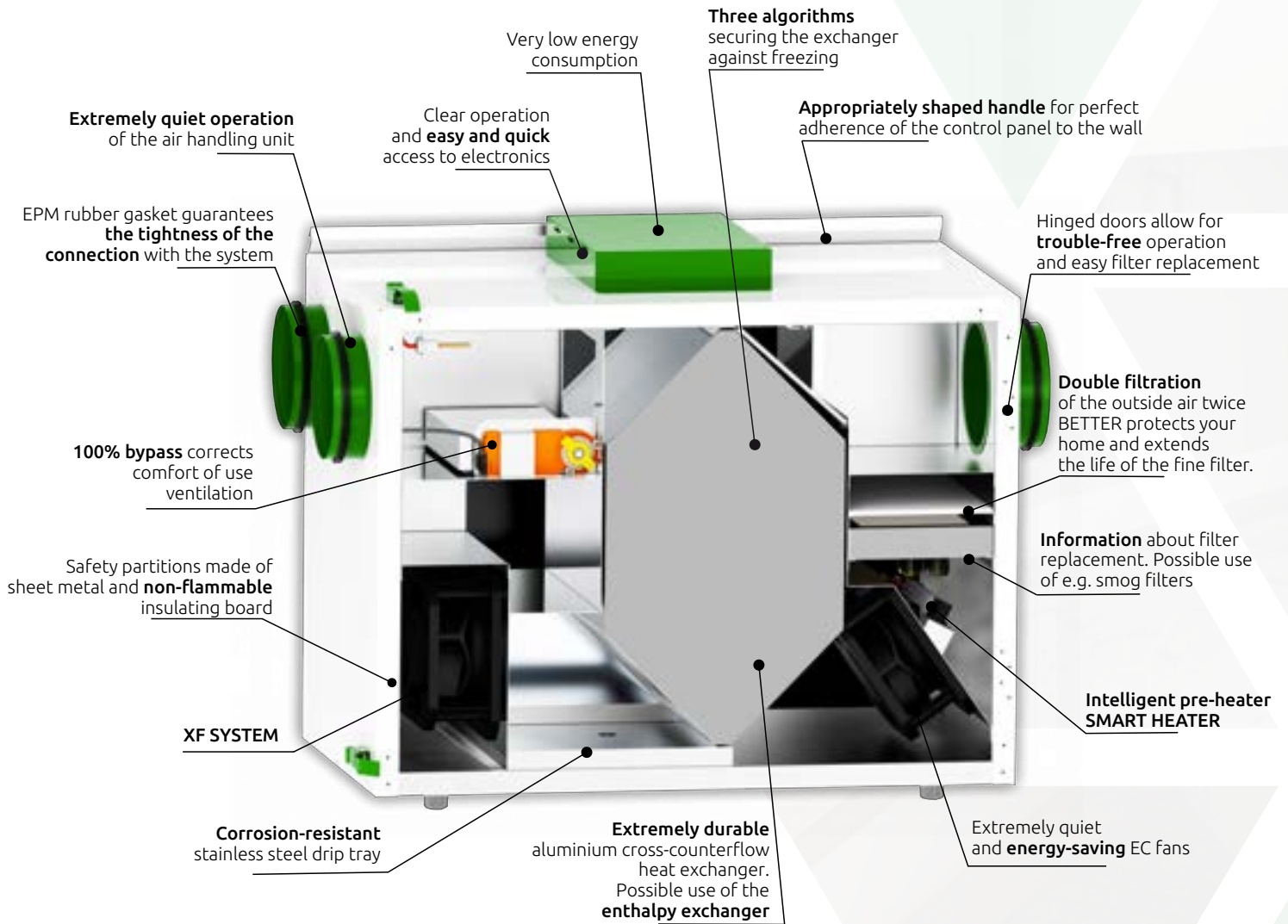


AIR HANDLING UNIT **WANAS 555H XF**

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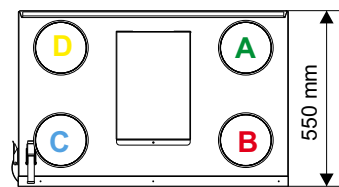
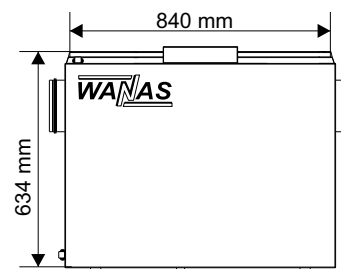
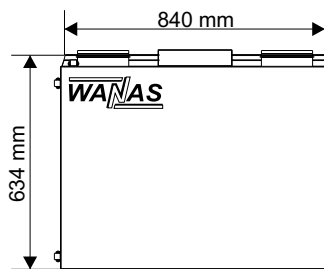
# SEE INSIDE



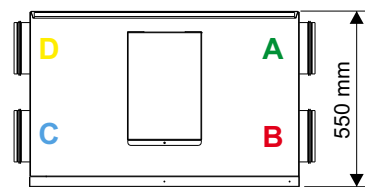
# WANAS 355V XF - WANAS 355H XF



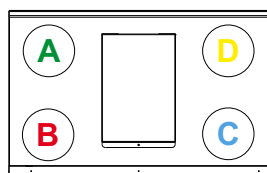
Automatic flow balancing system also  
In the most frequently selected CLASSIC air handling units. The air handling unit is characterized by extremely quiet operation, high thermal efficiency and easy operation, and the XF technology used guarantees higher comfort and energy savings.



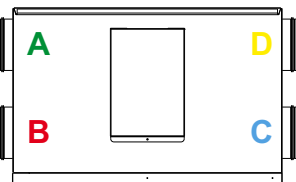
FRONT OF UNIT  
VERSION V



FRONT OF UNIT  
VERSION H



FRONT OF UNIT  
VERSION V



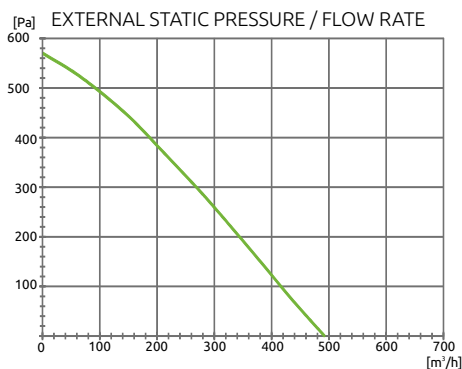
FRONT OF UNIT  
VERSION H  
LEFT VERSION

- A - external fresh air
- B - air extraction from rooms
- C - air supply to rooms
- D - spent air discharge to the outside

## TECHNICAL DATA

**355V XF**  
**355H XF**

UEC (unit energy consumption) class	-	A
UEC for moderate climate	kWh/(m <sup>2</sup> /year)	-37,40
UEC for cool climate	kWh/(m <sup>2</sup> /year)	-74,31
UEC for warm climate	kWh/(m <sup>2</sup> /year)	-13,63
Max. flow rate (at 100 Pa)	m <sup>3</sup> /h	422
Acoustic power (gear I/ acc. to UE 1254/2014)	dB(A)	38/48
External static pressure (at 350 m <sup>3</sup> /h)	Pa	234
Energy consumption	W	16-178
Pre-heater power	W	500
Power supply	V/Hz	230/50
Stub pipe diameter	mm	160
Max. efficiency acc. to UE 1254/204, ΔT=13°C, at 100 m <sup>3</sup> /h, SWM	%	89,3
Efficiency acc. to UE 1254/2014, dT=13°C, SWM	%	82,3
Height	mm	634
Width	mm	840
Depth	mm	550
Weight	kg	65
Filter class		ISO COARSE 75% + ePM 10 50%



IN STANDARD

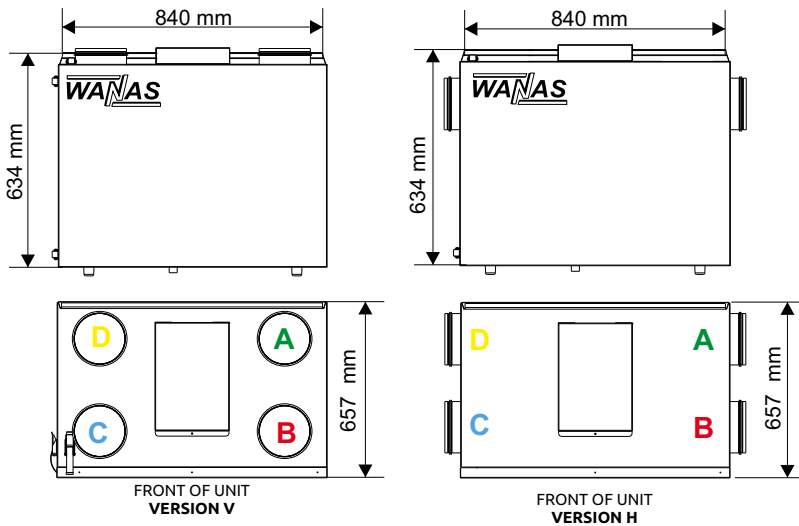


OPTIONS  
ADDITIONAL

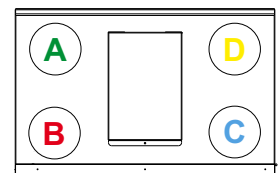


# WANAS 555V XF — WANAS 555H XF

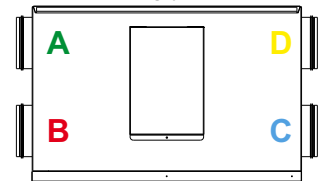
Recuperators in the CLASSIC XF version have a DISPLAY V2 touchscreen display as standard. The controller allows viewing the current flow rate in m<sup>3</sup>/h on the supply and exhaust, so the user can observe the balancing of flows on the fans.



- A - external fresh air
- B - air extraction from rooms
- C - air supply to rooms
- D - spent air discharge to the outside



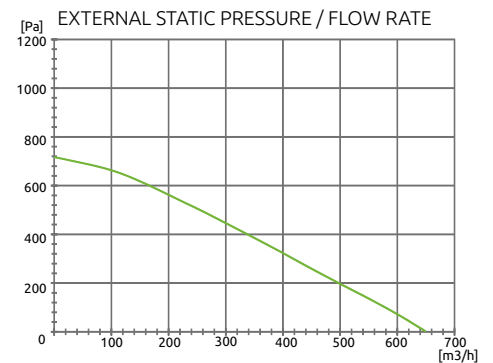
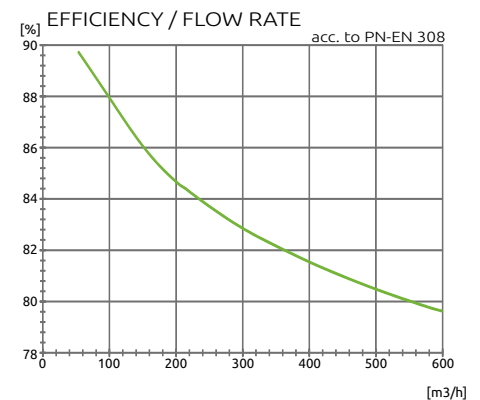
FRONT OF UNIT  
VERSION V



FRONT OF UNIT  
VERSION H  
LEFT VERSION

## TECHNICAL DATA

		555V XF	555H XF
UEC (unit energy consumption) class	-		A
UEC for moderate climate	kWh/(m <sup>2</sup> /year)	-38,16	
UEC for cool climate	kWh/(m <sup>2</sup> /year)	-74,86	
UEC for warm climate	kWh/(m <sup>2</sup> /year)	-14,51	
Max. flow rate (at 100 Pa)	m <sup>3</sup> /h	594	
Acoustic power (gear I/ acc. to UE 1254/2014)	dB(A)	38/48	
External static pressure (at 550 m <sup>3</sup> /h)	Pa	166	
Energy consumption	W	26-265	
Pre-heater power	W	500	
Power supply	V/Hz	230/50	
Stub pipe diameter	mm	200	
Max. efficiency acc. to UE 1254/2014, ΔT=13°C, at 100 m <sup>3</sup> /h, SWM	%	90,7	
Efficiency acc. to UE 1254/2014, dT=13°C, SWM	%	81,5	
Height	mm	634	
Width	mm	840	
Depth	mm	657	
Weight	kg	71,3	
Filter class		ISO COARSE 75% + ePM 10 50%	

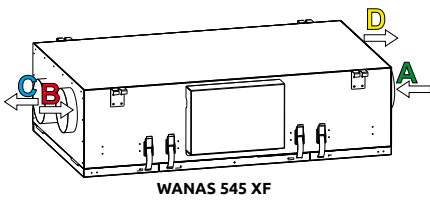
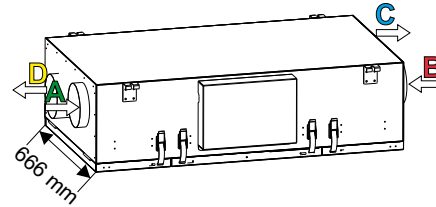
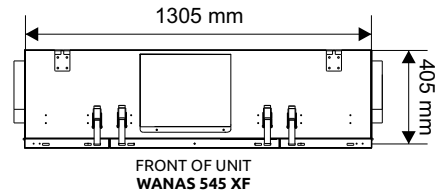


IN STANDARD

OPTIONS

# WANAS 545 XF

The recuperator is equipped with an automatic flow balancing system - XF. The unit is characterized by very low energy consumption, quiet operation, high thermal efficiency and easy operation. Suspended recuperator is an ideal solution to maximize the use of space in the garage or utility room.



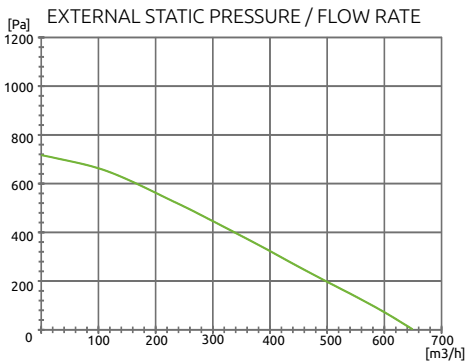
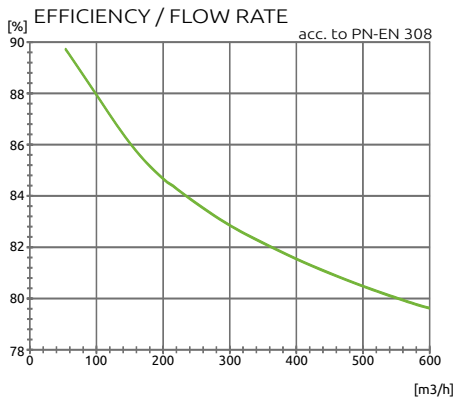
LEFT VERSION

- A - external fresh air
- B - air extraction from rooms
- C - air supply to rooms
- D - spent air discharge to the outside

## TECHNICAL DATA

## 545 XF

UEC (unit energy consumption) class	-	A
UEC for moderate climate	kWh/(m <sup>2</sup> /year)	-37,82
UEC for cool climate	kWh/(m <sup>2</sup> /year)	-75,12
UEC for warm climate	kWh/(m <sup>2</sup> /year)	-13,83
Max. flow rate (at 100 Pa)	m <sup>3</sup> /h	595
Acoustic power (gear I/ acc. to UE 1254/2014)	dB(A)	45/57
External static pressure (at 545 m <sup>3</sup> /h)	Pa	180
Energy consumption	W	36-274
Pre-heater power	W	500
Power supply	V/Hz	230/50
Stub pipe diameter	mm	200
Max. efficiency acc. to UE 1254/204, ΔT=13°C, at 100 m <sup>3</sup> /h, SWM	%	90,7
Efficiency acc. to UE 1254/2014, dT=13°C, SWM	%	83,8
Height	mm	666
Width	mm	1305
Depth	mm	405
Weight	kg	71
Filter class		ISO COARSE 75% + ePM 10 50%



IN STANDARD



OPTIONS  
ADDITIONAL



# WANAS AIR HANDLING UNITS **CLASSIC**

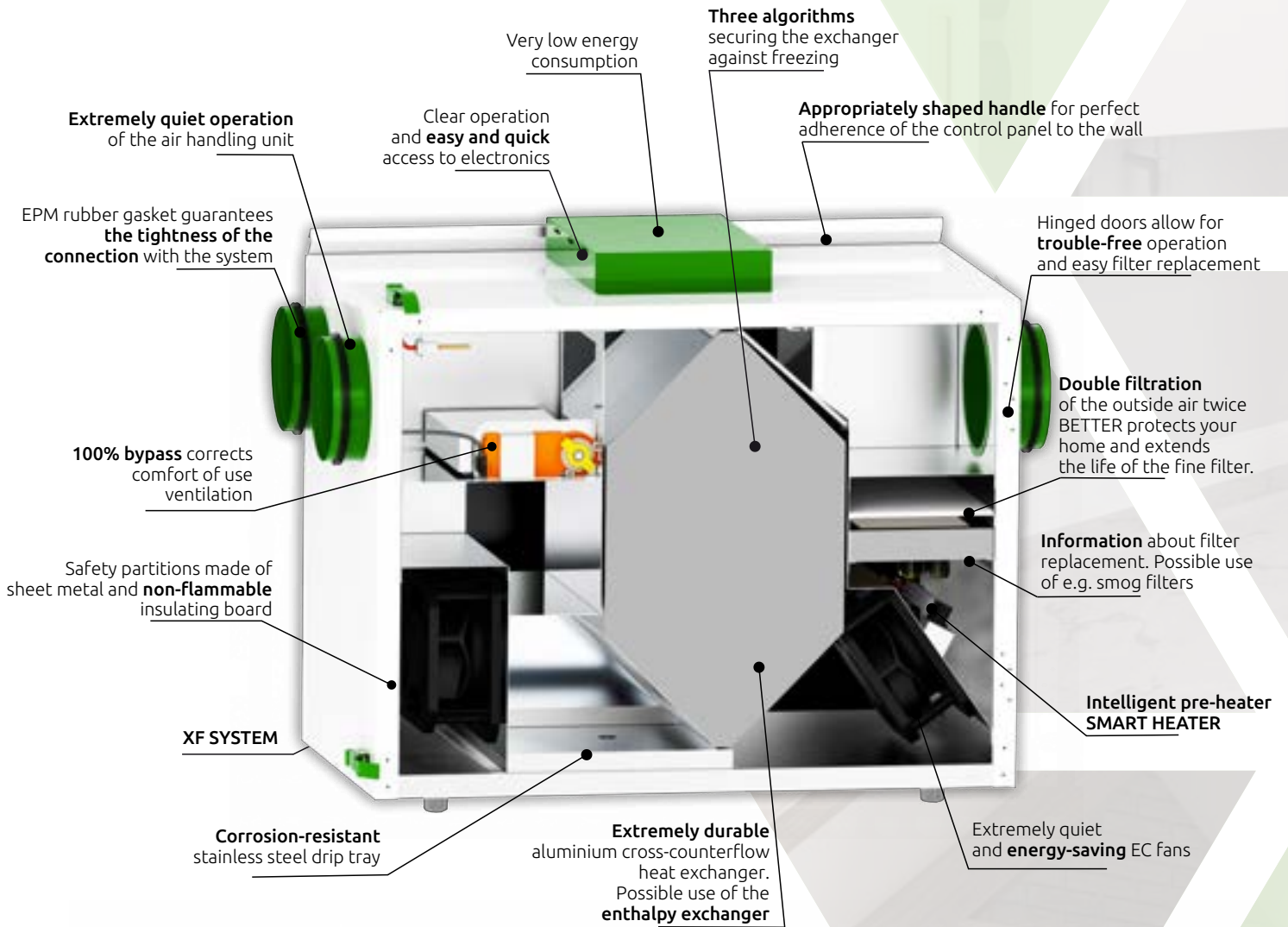


AIR HANDLING UNIT **WANAS 350V/3**

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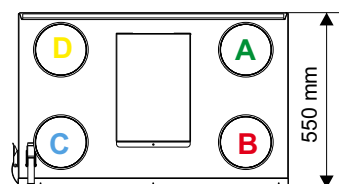
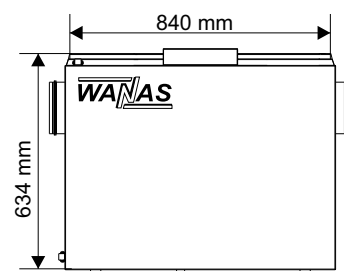
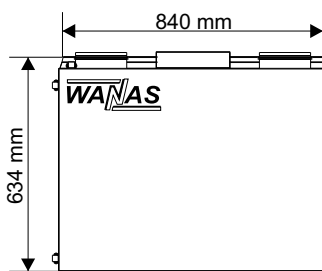
# SEE INSIDE



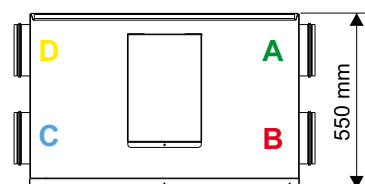
# WANAS 350 V/3 — WANAS 350 H/3



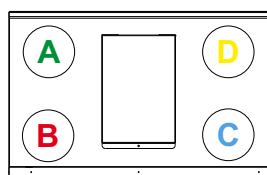
All WANAS air handling units are isolated with rubber based insulation materials which provides good thermal isolation and non flammability. Due to its closed-cell property isolation will not absorb the moisture.



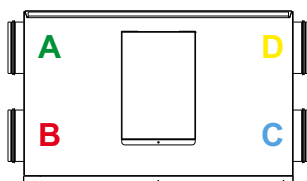
FRONT OF UNIT  
WERSJA V



FRONT OF UNIT  
WERSJA H



FRONT OF UNIT  
VERSION V



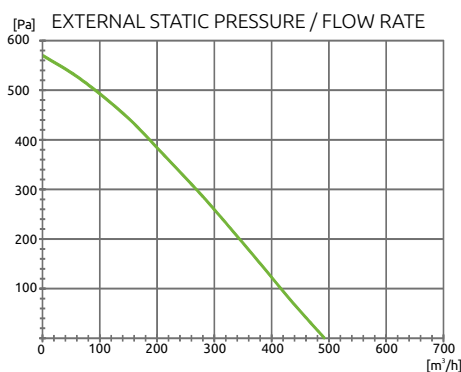
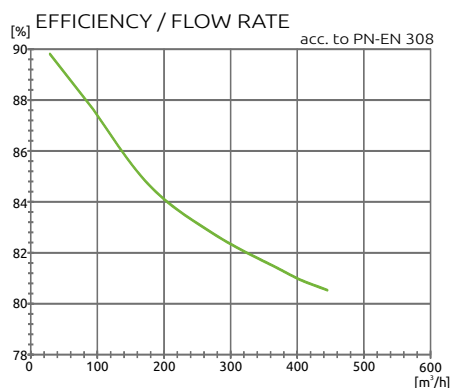
FRONT OF UNIT  
VERSION H  
LEFT VERSION

- A - external fresh air
- B - air extraction from rooms
- C - air supply to rooms
- D - spent air discharge to the outside

## TECHNICAL DATA

350 V/3  
350 H/3

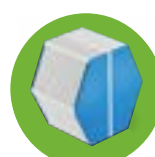
UEC (unit energy consumption) class	-	A
UEC for moderate climate	kWh/(m <sup>2</sup> /year)	-37,40
UEC for cool climate	kWh/(m <sup>2</sup> /year)	-74,31
UEC for warm climate	kWh/(m <sup>2</sup> /year)	-13,63
Max. flow rate (at 100 Pa)	m <sup>3</sup> /h	422
Acoustic power (gear I/ acc. to UE 1254/2014)	dB(A)	38/48
External static pressure (at 350 m <sup>3</sup> /h)	Pa	234
Energy consumption	W	16-178
Pre-heater power	W	500
Power supply	V/Hz	230/50
Stub pipe diameter	mm	160
Max. efficiency acc. to UE 1254/204, ΔT=13°C, at 100 m <sup>3</sup> /h, SWM	%	89,3
Efficiency acc. to UE 1254/2014, dT=13°C, SWM	%	82,3
Height	mm	634
Width	mm	840
Depth	mm	550
Weight	kg	65
Filter class		ISO COARSE 75% + ePM 10 50%



IN STANDARD

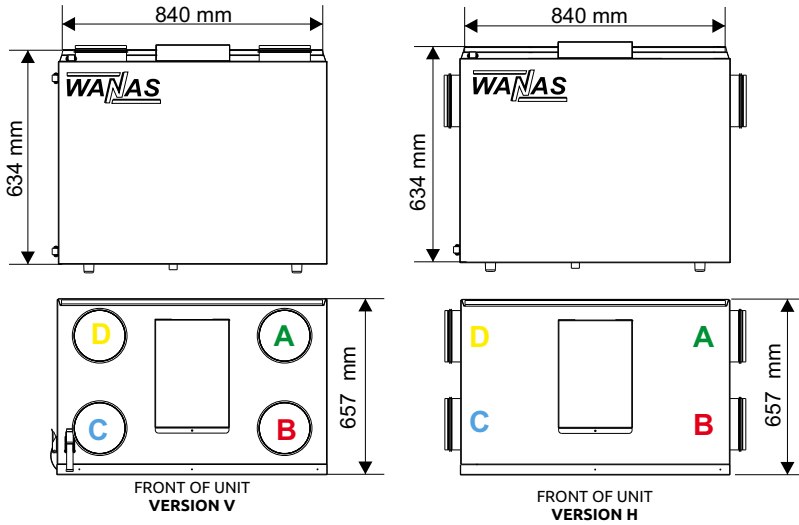


OPTIONS  
ADDITIONAL

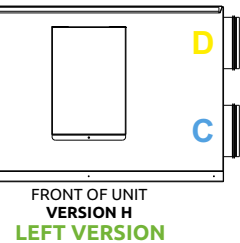
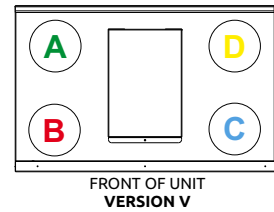


# WANAS 550V/3 — WANAS 550H/3

Unit is equipped with smart touch controller including box for flush mounting, wall bracket and non-odour syphon. **All mentioned accessories are included in a price** of air handling unit.

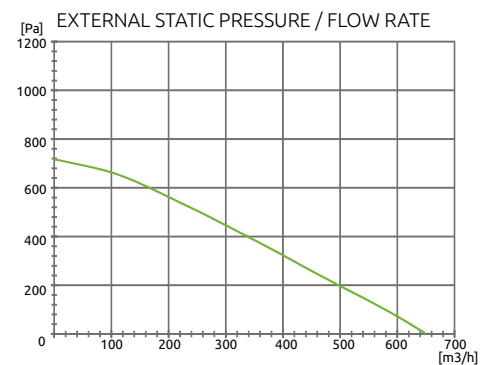
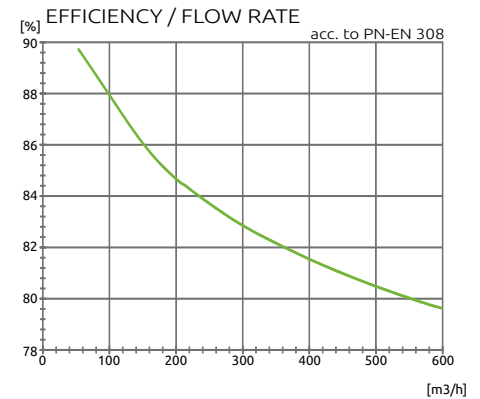


- A - external fresh air
- B - air extraction from rooms
- C - air supply to rooms
- D - spent air discharge to the outside



## TECHNICAL DATA

		550V/3	550H/3
UEC (unit energy consumption) class	-		A
UEC for moderate climate	kWh/(m <sup>2</sup> /year)		-38,16
UEC for cool climate	kWh/(m <sup>2</sup> /year)		-74,86
UEC for warm climate	kWh/(m <sup>2</sup> /year)		-14,51
Max. flow rate (at 100 Pa)	m <sup>3</sup> /h		594
Acoustic power (gear I/ acc. to UE 1254/2014)	dB(A)		38/48
External static pressure (at 550 m <sup>3</sup> /h)	Pa		166
Energy consumption	W		26-265
Pre-heater power	W		500
Power supply	V/Hz		230/50
Stub pipe diameter	mm		200
Max. efficiency acc. to UE 1254/204, ΔT=13°C, at 100 m <sup>3</sup> /h, SWM	%		90,7
Efficiency acc. to UE 1254/2014, ΔT=13°C, SWM	%		81,5
Height	mm		634
Width	mm		840
Depth	mm		657
Weight	kg		71,3
Filter class			ISO COARSE 75% + ePM 10 50%



IN STANDARD

OPTIONS  
ADDITIONAL

# WANAS 345 — WANAS 800

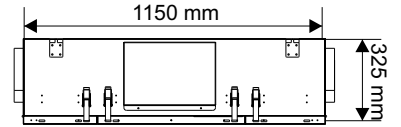
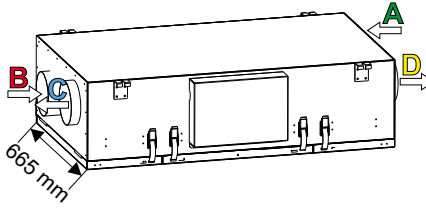
Ceiling-mounted recuperators are ideal for homes where you want to save space, installation is possible in the boiler room, garage or even in the closet. Ceiling mounting allows you to save space under the recuperator and use it in other ways.



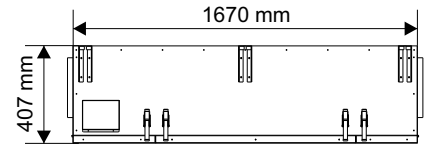
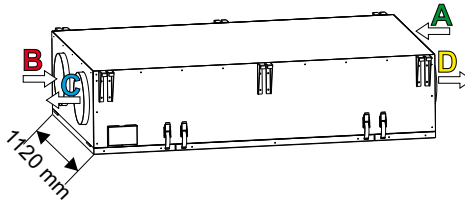
WANAS 345



WANAS 800

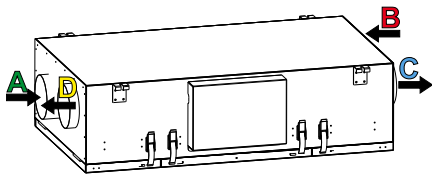


FRONT OF UNIT  
WANAS 345

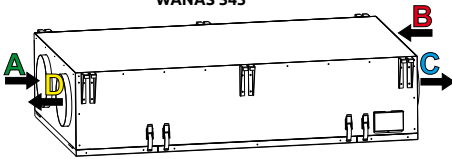


FRONT OF UNIT  
WANAS 800

- A - external fresh air
- B - air extraction from rooms
- C - air supply to rooms
- D - spent air discharge to the outside



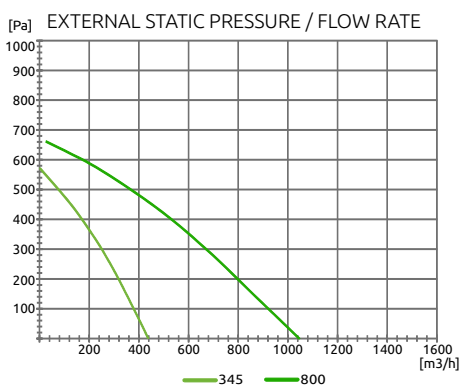
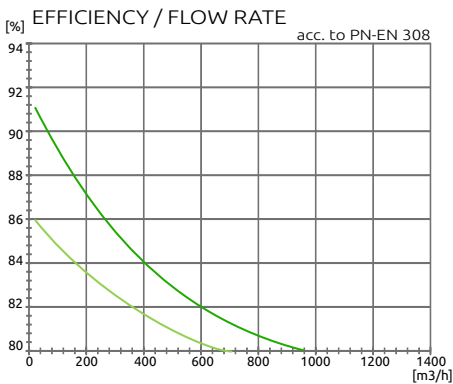
WANAS 345



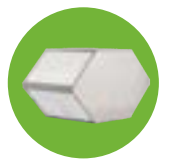
WANAS 800  
LEFT VERSION

## TECHNICAL DATA

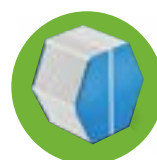
	345	800
UEC (unit energy consumption) class	-	A A
UEC for moderate climate	kWh/(m <sup>2</sup> /year)	-38,40 -39,52
UEC for cool climate	kWh/(m <sup>2</sup> /year)	-75,26 -76,32
UEC for warm climate	kWh/(m <sup>2</sup> /year)	-14,66 -15,81
Max. flow rate (at 100 Pa)	m <sup>3</sup> /h	384 930
Acoustic power (gear I/ acc. to UE 1254/2014)	dB(A)	37/49 40/61
External static pressure (at nominal value)	Pa	160 200
Energy consumption	W	16-170 50-335
Pre-heater power	W	500 2 000
Power supply	V/Hz	230/50 230/50
Stub pipe diameter	mm	160 250
Max. efficiency acc. to UE 1254/204, ΔT=13°C, at 120 m <sup>3</sup> /h, SWM	%	86,1 90,5
Efficiency acc. to UE 1254/2014, dT=13°C, SWM	%	82,1 81,9
Height	mm	325 407
Width	mm	1150 1670
Depth	mm	665 1120
Weight	kg	56,4 130
Filter class	ISO COARSE 75%	



IN STANDARD



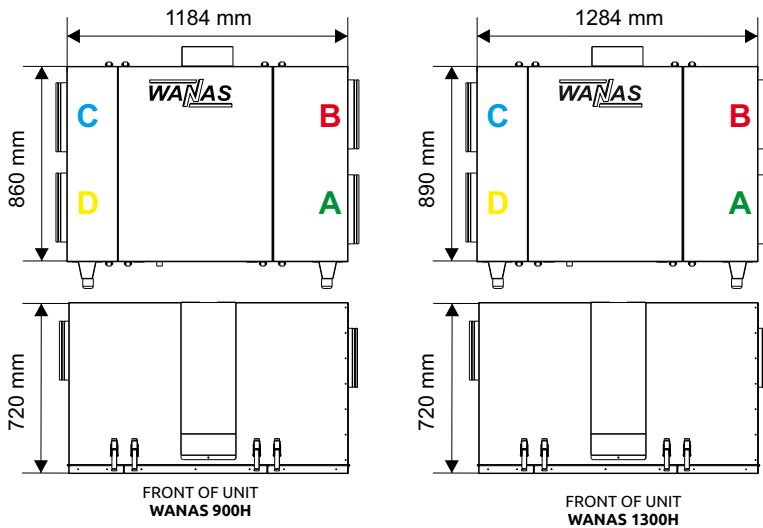
OPTIONS  
ADDITIONAL



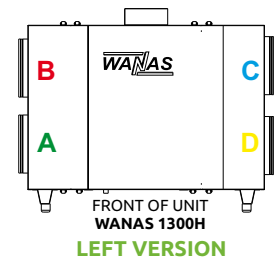
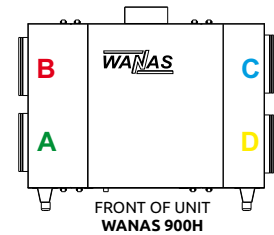


# WANAS 900H — WANAS 1300H

Devices with higher efficiency can be used in public buildings, conducting service or educational activities, as well as in industrial plants. In addition, the recuperator has a built-in wired Internet module, for remote control of the air handling unit.

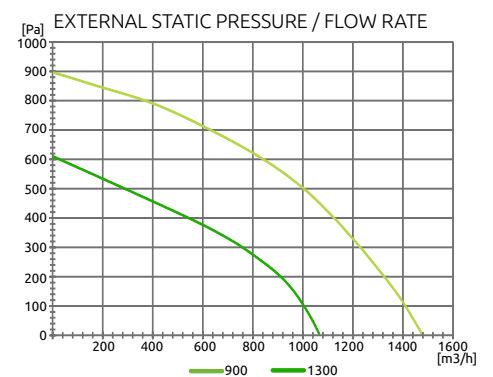
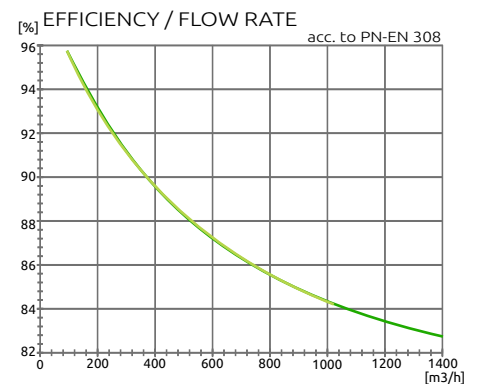


- A - external fresh air
- B - air extraction from rooms
- C - air supply to rooms
- D - spent air discharge to the outside



## TECHNICAL DATA

		900H	1300H
UEC (unit energy consumption) class	-	A	A
UEC for moderate climate	kWh/(m <sup>2</sup> /year)	-40,44	-37,43
UEC for cool climate	kWh/(m <sup>2</sup> /year)	-78,44	-74,91
UEC for warm climate	kWh/(m <sup>2</sup> /year)	-16,05	-13,33
Max. flow rate (at 100 Pa)	m <sup>3</sup> /h	1 015	1 400
Acoustic power (gear I/ acc. to UE 1254/2014)	dB(A)	38/56	39/64
External static pressure (at nominal value)	Pa	215	203
Energy consumption	W	70-405	87-660
Pre-heater power	W	3 000	3 000
Power supply	V/Hz	230/50	230/50
Stub pipe diameter	mm	250	315
Max. efficiency acc. to UE 1254/204, ΔT=13°C, at 140 m <sup>3</sup> /h, SWM	%	95,3	95,3
Efficiency acc. to UE 1254/2014, ΔT=13°C, SWM	%	86,5	84,5
Height	mm	1080	1080
Width	mm	1184	1284
Depth	mm	720	720
Weight	kg	146	152
Filter class		ISO COARSE 75%	

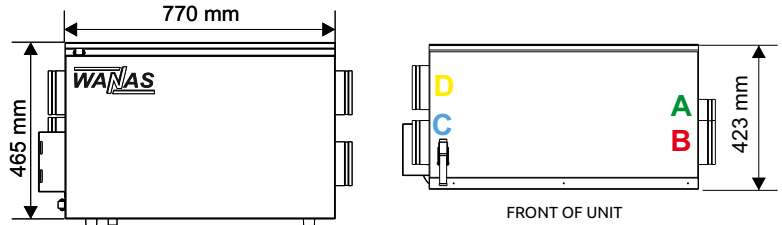


IN STANDARD

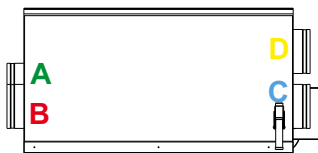
ADDITIONAL OPTIONS

# WANAS 250H

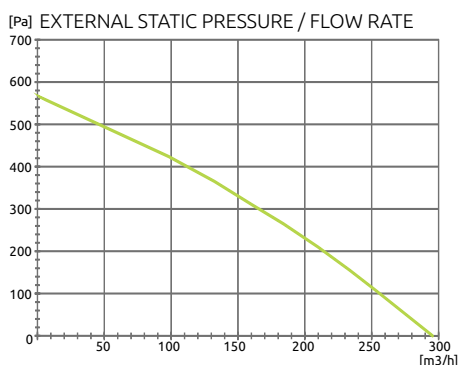
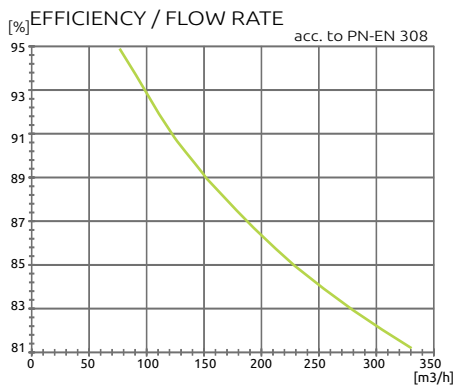
The WANAS 250H recuperator is an extremely compact unit for special tasks. The new design allows access to the electronics even when the recuperator is mounted as high as possible, under the ceiling. The air handling unit comes standard with a touchscreen controller, an efficient plastic heat exchanger and an energy-saving smart pre-heater of only 500W.



- A - external fresh air
- B - air extraction from rooms
- C - air supply to rooms
- D - spent air discharge to the outside



LEFT VERSION

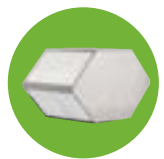


## TECHNICAL DATA

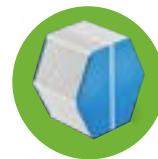
## 250H

UEC (unit energy consumption) class	-	A
UEC for moderate climate	kWh/(m²/year)	-35,44
UEC for cool climate	kWh/(m²/year)	-72,84
UEC for warm climate	kWh/(m²/year)	-11,39
Max. flow rate (at 100 Pa)	m³/h	256
Acoustic power (gear I/ acc. to UE 1254/2014)	dB(A)	41/57
External static pressure (at nominal value)	Pa	115
Energy consumption	W	29-177
Pre-heater power	W	500
Power supply	V/Hz	230/50
Stub pipe diameter	mm	125
Max. efficiency acc. to UE 1254/204, $\Delta T=13^{\circ}\text{C}$ , at 120 m³/h, SWM	%	87,2
Efficiency acc. to UE 1254/2014, $dT=13^{\circ}\text{C}$ , SWM	%	84,2
Height	mm	465
Width	mm	770
Depth	mm	423
Weight	kg	43,5
Filter class		ISO COARSE 75% + ePM 10 50%

IN STANDARD



OPTIONS  
ADDITIONAL



# USE THE POSSIBILITIES OF THE SYSTEM



## DISPLAY V2



## DISPLAY V3



## SIGNS

1. Freon heater-cooler WANAS Mini R32
2. Air humidifier WANAS UMECTO
3. Water heater/cooler WANAS Mini
4. Light switch
5. WANAS MOBILE W-19 Wi-Fi internet module
6. WANAS MOBILE W-15 Internet module
7. CO<sub>2</sub>Control sensor
8. Phone - Wi-Fi remote control
9. Humidity sensor miniControl - radio communication
10. MaxiControl humidity sensor - radio communication
11. Outdoor temperature sensor W-100
12. Temperature sensor EXTRA TEMP
13. Recuperator controller DISPLAY V2
14. Hood
15. Smart home system
16. RoomControl humidity sensor
17. Air handling unit WANAS

## INTELLIGENT SYSTEM

WANAS mechanical ventilation system with recuperator has almost unlimited expansion possibilities. Using dedicated sensors such as Co2Control and maxiControl, the recuperator will perfectly adapt to the current demand, creating a highly energy-efficient and most comfortable system. An additional possibility is the use of a bathroom switch, which, when turned on, activates the highest gear of the recuperator, thereby removing moisture or odor accumulated in the bathroom, for example, during bathing.

# UMECTO 1300 UNI — UMECTO 600 UNI

The new configuration of humidifiers allows you to connect the device to **any existing installation** and any recuperator. The humidifier is mounted on the supply duct of the ventilation system and is an independent device. It is controlled by a top-mounted controller, which comes standard with each WANAS UNI humidifier. Combined with the wireless maxiControl sensor, **humidity control is easy and fully automated.**



## TECHNICAL DATA

		UMECTO 600 UNI	UMECTO 1300 UNI
Max. flow rate	m <sup>3</sup> /h	600	1300
Energy consumption	W	2-18	2-18
Power supply	V/Hz	230/50	230/50
Stub pipe diameter	mm	200	315
Water connector diameter	cal	3/4	3/4
Heater power	W	1 000	2 000
Maximum water consumption*	l/h	2,8	5,6
Air resistance at 200 m <sup>3</sup> /h	Pa	7	11
Water pressure	MPa	0,15-0,6	0,15-0,6
Water temperature	°C	5-20	5-20
Water hardness	max. mg CaCo <sub>3</sub>	200	200
Height	mm	607	937
Width	mm	455	455
Depth	mm	450	450
Weight	kg	25	36

\*at a water pressure of 3 bar, at maximum valve settings



UMECTO humidifier is based on the natural process of water evaporation, this process is the most **beneficial for our health and it is natural.** It helps to keep humidity in the range of 40-45%, the adequate level of humidity during winter time/ heating season has a positive effect on the skin, eyes and prevents the mucus membrane from drying out. Protects wooden furnitures, floors and parquets from damage and drying out. Low humidity dries the outer layer of our skin leading to itchiness, cracking and dermatological problems.

Another benefit of using WANAS UMECTO humidifier is **secondary purification** done by moist evaporation mat, which catch pollen, dust mites, and other particulates automatically are flashed direct to the sewage drain.



In standard wireless humidity sensor **maxiControl**



# UMECTO 600 — UMECTO 1300

WANAS UMECTO 600 and 1300 humidifiers are adapted to work with WANAS recuperators with different air flows. The device takes care of the appropriate humidity in the house, thus improving well-being, increasing comfort and having a positive impact on the environment. Thanks to the flushing system of the evaporation mat, which removes impurities from the water and air, eliminating the risk of them entering the premises is an extremely hygienic solution.

## TECHNICAL DATA

		UMECTO 600	UMECTO 1300
Max. flow rate	m <sup>3</sup> /h	600	1300
Energy consumption	W	15	15
Power supply	V/Hz	230/50	230/50
Stub pipe diameter	mm	200	315
Water connector diameter	cal	3/4	3/4
Heater power	W	1 000	2 000
Maximum water consumption*	l/h	2,8	5,6
Air resistance at 200 m <sup>3</sup> /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 <sub>3</sub>	200	200
Height	mm	494	824
Width	mm	455	455
Depth	mm	452	452
Weight	kg	25	36

\*at a water pressure of 3 bar, at maximum valve settings

Quiet operation of the humidifier does not generate additional noise, which positively affects the comfort of users. With its use, you can enjoy clean and humid air, which positively affects the health and well-being of residents. The intelligent control system ensures efficient use of the secondary heater, which starts up only when necessary, making it an environmentally friendly and economical device.



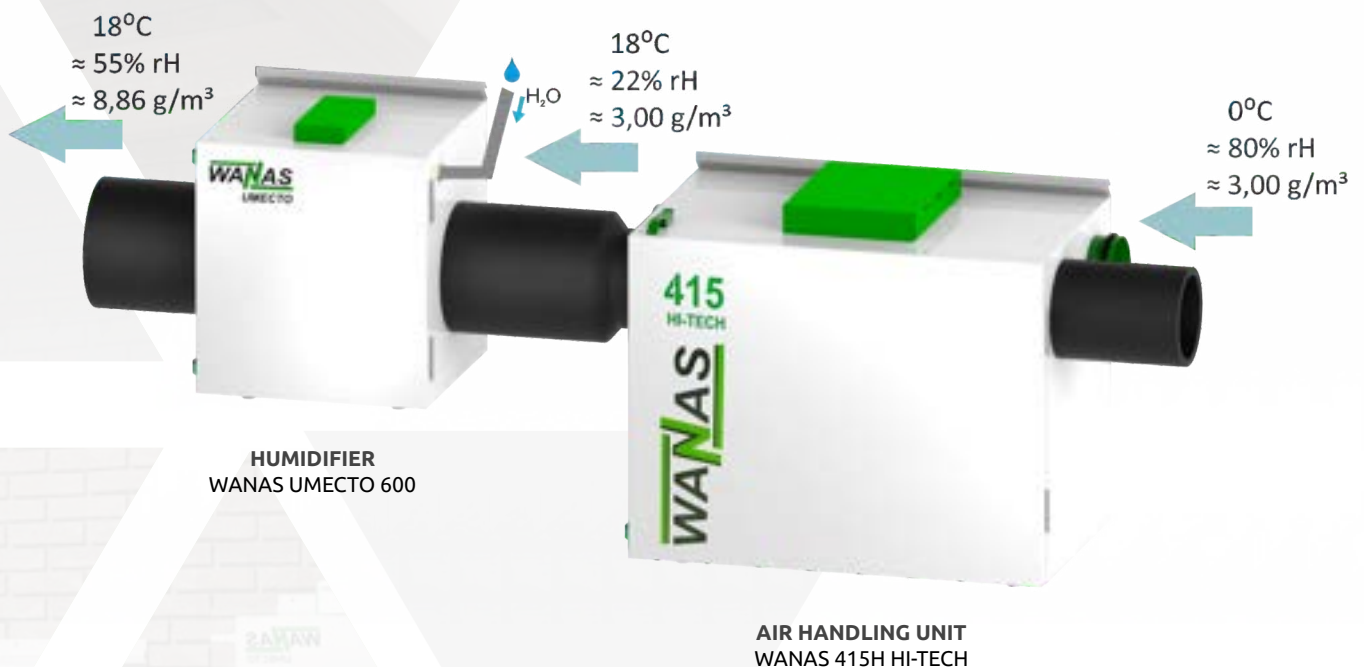
UMECTO 1300



UMECTO 600

## INCREASE HUMIDITY - BREATHE COMFORTABLY!

The powerful WANAS UMECTO humidifier allows you to maintain humidity in the building at 40-50%. Its control is carried out with the help of a recuperator controller and is fully automated.



## WATER HEATER-COOLER

WANAS water cooler is a device designed to cool or reheat supply air to rooms. It is mounted on the supply duct behind the recuperator and controlled by any WANAS recuperator. It is an ideal combination with a heat pump, where we use the coolness of the lower source for the cooling circuit. In this way we have the cheapest way to cool the rooms and regenerate the lower source. The device can also be mounted in front of the recuperator, on the side of the intake - will perform the function of GWC.



**WANAS Mini**



**WANAS Maxi**

### TECHNICAL DATA

		Mini	Maxi
Recommended flow to	m <sup>3</sup> /h	600	1300
Capacity to	kW	3,1	7,3
Spigot diameter	mm	200	315
Height	mm	491	652
Width	mm	486	484
Depth	mm	547	659
Weight	kg	35,85	45,5

## FREON HEATER-COOLER

Ducted freon cooler WANAS Mini R32 is a device designed to expand the installation of mechanical ventilation with recuperator WANAS with the possibility of heating and cooling. Thanks to the expansion of the installation we have the possibility to cool or reheat the air supplied to the rooms and reduce the humidity of the air in summer. The device should be mounted on the supply duct, behind the recuperator, its control is carried out by any WANAS recuperator. For proper operation of the device, an external air conditioning unit is required - an external condensing unit and control module AHUKit.



**WANAS Mini R32**





### TECHNICAL DATA

		Mini R32
Recommended flow rate to	m <sup>3</sup> /h	600
Maximum heating power	kW	3
Maximum cooling power	kW	2,9
Energy consumption	W	-
Spigot diameter	mm	200
Height	mm	491
Width	mm	486
Depth	mm	547
Weight	kg	29,5

### PUT TOGETHER A SET:

1. WANAS MINI R32
2. COOLING GENERATOR 3.5 KW
3. AHUKIT AHU-12-D1AG
4. EXTRA TEMP SENSOR

# Air handling units WANAS

	EAN	Code	Name
	5903890751944	RE-250 H	Air handling unit WANAS 250H
	<b>5903890752040</b>	<b>RE-250 H/L</b>	<b>Air handling unit WANAS 250H - left version</b>
	5903890751968	RE-250 H_E	Air handling unit WANAS 250H with enthalpy exchanger
	<b>5903890752057</b>	<b>RE-250 H/L_E</b>	<b>Air handling unit WANAS 250H with enthalpy exchanger - left version</b>
	5903890750343	RE-345	Air handling unit WANAS 345
	<b>5903890752088</b>	<b>RE-345/L</b>	<b>Air handling unit WANAS 345 - left version</b>
	5903890750350	RE-345_SV2	Air handling unit WANAS 345 with Display V2
	<b>5903890752095</b>	<b>RE-345/L_SV2</b>	<b>Air handling unit WANAS 345 with Display V2 - left version</b>
	<b>5903890752866</b>	<b>RE-200V</b>	Air handling unit WANAS BLACK 200V with Display V3
	5903890752873	RE-200V_E	<b>Air handling unit WANAS BLACK 200V with enthalpy exchanger with Display V3</b>
	<b>5903890752880</b>	<b>RE-200V_XF</b>	Air handling unit WANAS BLACK 200V with Display V2
	5903890752897	RE-200V_XF_E	<b>Air handling unit WANAS BLACK 200V with enthalpy exchanger with Display V2</b>
	<b>5903890752903</b>	<b>RE-300V</b>	Air handling unit WANAS BLACK 300V with Display V3
	5903890752910	RE-300V_E	<b>Air handling unit WANAS BLACK 300V with enthalpy exchanger with Display V3</b>
	<b>5903890752927</b>	<b>RE-300V_XF</b>	Air handling unit WANAS BLACK 300V with Display V2
	5903890752934	RE-300V_XF_E	<b>Air handling unit WANAS BLACK 300V with enthalpy exchanger with Display V2</b>

# Air handling units WANAS

EAN	Code	Name
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5903890750268	RE-350 H/3	Air handling unit WANAS 350H/3
<b>5903890752101</b>	<b>RE-350 H/3/L</b>	<b>Air handling unit WANAS 350H/3 - left version</b>

<b>5903890750275</b>	<b>RE-350 H/3_SV2</b>	Air handling unit WANAS 350H/3 with Display V2
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5903890752132	RE-350 H/3/L_SV2	<b>Air handling unit WANAS 350H/3 with Display V2 - left version</b>
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<b>5903890750282</b>	<b>RE-350 H/3_E</b>	Air handling unit WANAS 350H/3 with enthalpy exchanger
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5903890752118	RE-350 H/3/L_E	<b>Air handling unit WANAS 350H/3 with enthalpy exchanger - left version</b>
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<b>5903890750299</b>	<b>RE-350 H/3_SV2_E</b>	Air handling unit WANAS 350H/3 with enthalpy exchanger with Display V2
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5903890752125	RE-350 H/3/L_SV2_E	<b>Air handling unit WANAS 350H/3 with enthalpy exchanger with Display V2 - left version</b>
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<b>5903890750305</b>	<b>RE-350 V/3</b>	Air handling unit WANAS 350V/3
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5903890752149	RE-350 V/3/L	<b>Air handling unit WANAS 350V/3 - left version</b>
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<b>5903890750312</b>	<b>RE-350 V/3_SV2</b>	Air handling unit WANAS 350V/3 with Display V2
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5903890752170	RE-350 V/3/L_SV2	<b>Air handling unit WANAS 350V/3 with Display V2 - left version</b>
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<b>5903890750329</b>	<b>RE-350 V/3_E</b>	Air handling unit WANAS 350V/3 with enthalpy exchanger
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5903890752156	RE-350 V/3/L_E	<b>Air handling unit WANAS 350V/3 with enthalpy exchanger - left version</b>
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<b>5903890750336</b>	<b>RE-350 V/3_SV2_E</b>	Air handling unit WANAS 350V/3 with enthalpy exchanger with Display V2
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5903890752163	RE-350 V/3/L_SV2_E	<b>Air handling unit WANAS 350V/3 with enthalpy exchanger with Display V2 - left version</b>
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# Air handling units WANAS

	EAN	Code	Name
	5903890752668	RE-355 H_XF	<b>Air handling unit WANAS 355 H_XF with Display V2</b>
	5903890752767	RE-355 H_XF/L	Air handling unit WANAS 355 H_XF with Display V2 - left version
	5903890752675	RE-355 H_XF_E	<b>Air handling unit WANAS 355 H_XF with enthalpy exchanger and Display V2</b>
	5903890752835	RE-355 H_XF_E/L	Air handling unit WANAS 355 H_XF with enthalpy exchanger and Display V2 - left version
	5903890752682	RE-355 V_XF	<b>Air handling unit WANAS 355 V_XF with Display V2</b>
	5903890752774	RE-355 V_XF/L	Air handling unit WANAS 355 V_XF with Display V2 - left version
	5903890752699	RE-355 V_XF_E	<b>Air handling unit WANAS 355 V_XF with enthalpy exchanger and Display V2</b>
	5903890752842	RE-355 V_XF_E/L	Air handling unit WANAS 355 V_XF with enthalpy exchanger and Display V2 - left version
	5903890753610	RE-COMBO 430 H	<b>Air handling Unit WANAS 430H COMBO</b>
	5903890753627	RE-COMBO 430 H/L	Air handling Units WANAS 430H COMBO - left version
	5903890753658	RE-COMBO 630 H	<b>Air handling Unit WANAS 630H COMBO</b>
	5903890753665	RE-COMBO 630 H/L	Air handling Unit WANAS 630H COMBO - left version

# Air handling units WANAS

EAN	Code	Name
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5903890753634	RE-COMBO 430 V	<b>Air handling Unit WANAS 430V COMBO</b>
5903890753641	RE-COMBO 430 V/L	Air handling Unit WANAS 430V COMBO - left version

5903890753672	RE-COMBO 630 V	<b>Air handling Unit WANAS 630V COMBO</b>
5903890753689	RE-COMBO 630 V/L	Air handling Unit WANAS 630V COMBO - left version



5903890752729	RE-555 V_XF	<b>Air handling Unit WANAS 555 V_XF with Display V2</b>
5903890752743	RE-555 V_XF/L	Air handling Unit WANAS 555 V_XF with Display V2 - left version



5903890752736	RE-555 V_XF_E	<b>Air handling Unit WANAS 555 V_XF with enthalpy exchanger and Display V2</b>
5903890752859	RE-555 V_XF_E/L	Air handling Unit WANAS 555 V_XF with enthalpy exchanger and Display V2 - left version



5903890753191	RE-545_XF	<b>Air handling Unit WANAS 545 XF</b>
5903890753221	RE-545_XF/L	Air handling Unit WANAS 545 XF - left version

5903890753207	RE-545 XF_E	<b>Air handling Unit WANAS 545 XF z wymiennikiem entalpicznym</b>
5903890753214	RE-545_XF/L_E	Air handling Unit WANAS 545 XF with enthalpy exchanger - left version

# Air handling units WANAS

	EAN	Code	Name
	5903890750367	RE-550 H/3	<b>Air handling Unit WANAS 550H/3</b>
	5903890752262	RE-550 H/3/L	Air handling Unit WANAS 550H/3 - left version
	5903890750374	RE-550 H/3_SV2	<b>Air handling Unit WANAS 550H/3 with Display V2</b>
	5903890752293	RE-550 H/3/L_SV2	Air handling Unit WANAS 550H/3 with Display V2 - left version
	5903890750381	RE-550 H/3_E	<b>Air handling Unit WANAS 550H/3 with enthalpy exchanger</b>
	5903890752279	RE-550 H/3/L_E	Air handling Unit WANAS 550H/3 with enthalpy exchanger - left version
	5903890750398	RE-550 H/3_SV2_E	<b>Air handling Unit WANAS 550H/3 with enthalpy exchanger and Display V2</b>
	5903890752286	RE-550 H/3/L_SV2_E	Air handling Unit WANAS 550H/3 with enthalpy exchanger and Display V2 - left version
	5903890750404	RE-550 V/3	<b>Air handling Unit WANAS 550V/3</b>
	5903890752309	RE-550 V/3/L	<b>Air handling Unit WANAS 550V/3</b> - left version
	5903890750411	RE-550 V/3_SV2	<b>Air handling Unit WANAS 550V/3 with Display V2</b>
	5903890752330	RE-550 V/3/L_SV2	Air handling Unit WANAS 550V/3 with Display V2 - left version
	5903890750428	RE-550 V/3_E	<b>Air handling Unit WANAS 550V/3 with enthalpy exchanger</b>
	5903890752316	RE-550 V/3/L_E	Air handling Unit WANAS 550V/3 with enthalpy exchanger - left version
	5903890750435	RE-550 V/3_SV2_E	<b>Air handling Unit WANAS 550V/3 with enthalpy exchanger and Display V2</b>
	5903890752323	RE-550 V/3/L_SV2_E	Air handling Unit WANAS 550V/3 with enthalpy exchanger and Display V2 - left version
	5903890752712	RE-555 H_XF	<b>Air handling Unit WANAS 555 H_XF with Display V2</b>
	5903890752750	RE-555 H_XF/L	Air handling Unit WANAS 555 H_XF with Display V2 - left version
	5903890752705	RE-555 H_XF_E	<b>Air handling Unit WANAS 555 H_XF with enthalpy exchanger and Display V2</b>
	5903890752859	RE-555 H_XF_E/L	Air handling Unit WANAS 555 H_XF with enthalpy exchanger and Display V2 - left version

# Air handling units WANAS

EAN

Code

Name



5903890750459

RE-800\_SV2

**Air handling Unit WANAS 800 with Display V2**

5903890752439

RE-800/L\_SV2

Air handling Unit WANAS 800 with Display V2 -left version



5903890750473

RE-900 H\_SV2

**Air handling Unit WANAS 900H with Display V2**

5903890752538

RE-900 H/L\_SV2

Air handling Unit WANAS 900H with Display V2 -left version

5903890750497

RE-1300 H\_SV2

**Air handling Unit WANAS 1300H with Display V2**

5903890752033

RE-1300 H/L\_SV2

Air handling Unit WANAS 1300H with Display V2 -left version



5903890750534

RE-NAWILŻACZ 600

Air humidifier WANAS UMECTO 600



5903890750541

RE-NAWILŻACZ 1300

Air humidifier WANAS UMECTO 1300



5903890752781

RE-NAWILŻACZ 600UNI

Universal Air humidifier WANAS UMECTO 600 UNI



5903890750541

RE-NAWILŻACZ 1300UNI

Universal Air humidifier WANAS UMECTO 1300 UNI







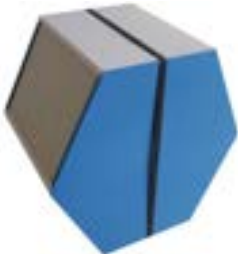

5903890753597

RE-CHŁODNICA MINIR32











Freon heater-cooler WANAS Mini R32



# Air handling units WANAS

	EAN	Code	Name
	5903890750510	RE-CHŁODNICA 426	Water heater-cooler WANAS Mini
	5903890750527	RE-CHŁODNICA 444	Water heater-cooler WANAS Maxi
	5903890750527	RE-CHŁO FREON 334	Freon exchanger R32 WANAS 334 dla WANAS COMBO
	5903890750732	RE-WYMIENNIK ENT.380	Enthalpy exchanger for WANAS 350 recuperator
	5903890750749	RE-WYMIENNIK ENT.460	Enthalpy exchanger for WANAS 550 recuperator
	5903890750756	RE-WYMIENNIK ENT.440	Enthalpy exchanger for WANAS 415 recuperator
	5903890750763	RE-WYMIENNIK ENT.200	Set of enthalpy exchangers for recuperator WANAS 615
	5903890750770	RE-WYMIENNIK ENT.400	
	5903890750770	RE-WYMIENNIK ENT.400	Set of enthalpy exchangers for recuperator WANAS 815
	5903890750640	RE-STOJAK 250 MN/EPP	STAND FOR WANAS BLACK
	5903890751937	RE-STOJAK 250 H	STAND FOR WANAS 250H
	5903890750657	RE-STOJAK 350/415/GW	STAND FOR WANAS 350/355/415
	5903890750664	RE-STOJAK 550/615	STAND FOR WANAS 550/555/615
	5903890750671	RE-STOJAK 815	STAND FOR WANAS 815/COMBO
	5903890750688	RE-STOJAK 900 H	STAND FOR WANAS 900H
	5903890750695	RE-STOJAK 1300 H	STAND FOR WANAS 1300H
	5903890750718	RE-STOJAK NAWILŻACZ	STAND FOR WANAS UMECTO 600/ WANAS UMECTO 1300
	5903890750725	RE-STOJAK CHŁODN444	STAND FOR HEATER-COOLER WANAS Mini
	5903890750701	RE-STOJAK CHŁODN426	STAND FOR HEATER-COOLER WANAS Maxi









# Accessories WANAS

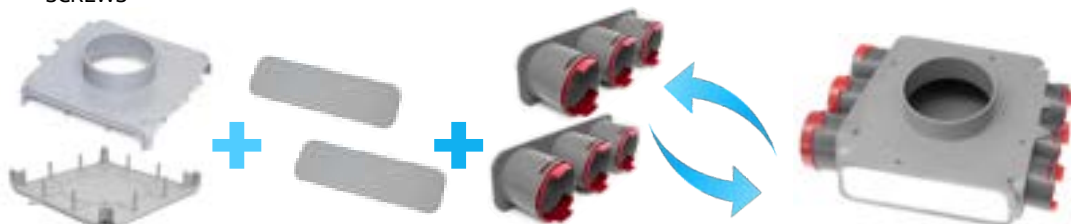
	EAN	Code	Description
 <b>SENSOR CO<sub>2</sub>Control</b>	5903890753344	RE-CZUJNIK CO2CONTR	The CO <sub>2</sub> Control wired sensor is used to measure the concentration of carbon dioxide in the air.
 SENSOR maxiControl	5903890753177	RE-CZUJNIK MAXICONTR	Wireless sensor, cooperating with Display V2, used to measure humidity and temperature in the room
 <b>SENSOR roomControl</b>	5903890752019	RE-CZUJNIK ROOMCONTR	Wired sensor, cooperating with the Display V1, used to measure humidity and temperature in the room
 SENSOR miniControl	5903890751920	RE-CZUJNIK MINICONTR	Wireless sensor, cooperating with Display V2, used to measure humidity and temperature in the room
 <b>MOBILE CONTROL W-15</b>	5903890750589	RE-MODUŁ INT_W-15	The module is used for wired connection of the recuperator with Internet and enables remote control of the air handling unit ventilation unit
 MOBILE CONTROL W-19 Wi-Fi	5903890750572	RE-MODUŁ INT_W-19	The Internet module is used for wireless connection recuperator with the Internet and enables remote operation of the air handling unit air handling unit by means of Wi-Fi network
 <b>TEMPERATURE SENSOR W-1000</b>	5903890750633	RE-CZUJNIK W-1000	The sensor is responsible for measuring outside temperature
 WIRE 4x0,14	5903890750626	RE-PRZEWÓD 4X0,14	The cable is used to connect recuperator with the controller
 <b>SENSOR EXTRA TEMP</b>	5903890750619	RE-CZUJNIK EXTRA TEM	Channel sensor temperature PT-1000
 HUMIDITY PAD	5903890750596	RE-HUMIDITY PAD 100	Evaporation mat for UMECTO
	5903890750602	RE-HUMIDITY PAD 200	Evaporation mat for humidifiers: UMECTO 600 - 1 pcs UMECTO 1300 - 2 pcs

# Accessories WANAS




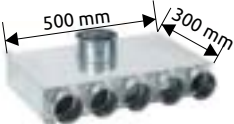
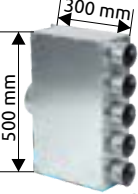


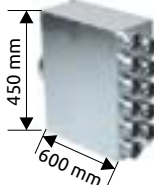
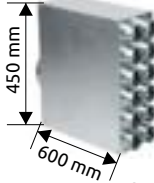
	EAN	Code	Description
 <p><b>FILTER ISO COARSE 75%</b></p>	<b>5903890751579</b>	<b>RE-FILTR 24-25 G4UC</b>	<b>WANAS 250 MN</b>
	5903890751982	RE-FILTR 25-25 G4	WANAS 250H
	<b>5903890751593</b>	<b>RE-FILTR GWC_35</b>	<b>WANAS 350</b>
	5903890751609	RE-FILTR 35-40 G4 UC	WANAS 350/2, 350/3,355 and WANAS COMBO
	<b>5903890751630</b>	<b>RE-FILTR 550 G4 UC</b>	<b>WANAS 550</b>
	5903890751623	RE-FILTR 55-60 G4 UC	WANAS 550/2, 550/3 and 555
	<b>5903890751654</b>	<b>RE-FILTR 39-41 G4 UC</b>	<b>WANAS 415</b>
	5903890751678	RE-FILTR 59-61 G4 UC	WANAS 615
	<b>5903890753115</b>	<b>RE-FILTR 20-30 G4 1</b>	<b>WANAS BLACK SUPPLY</b>
5903890753122	RE-FILTR 20-30 G4 2	WANAS BLACK EXHAUST	
 <p><b>CARBON FILTER ISO COARSE 75%</b></p>	5903890751616	RE-FILTR 35-40 G4UCW	WANAS 350/2, 350/3, 355 and WANAS COMBO
	<b>5903890751661</b>	<b>RE-FILTR 39-41 G4UCW</b>	<b>WANAS 415</b>
	5903890751647	RE-FILTR 55-60 G4UCW	WANAS 550/2, 550/3 and 555
	<b>5903890751685</b>	<b>RE-FILTR 59-61 G4UCW</b>	<b>WANAS 615</b>
 <p><b>CASSETTE FILTER ePM 10 50%</b></p>	5903890751692	RE-FILTR 24-25 M5	WANAS 250 MN
	<b>5903890751999</b>	<b>RE-FILTR 25-25 M5</b>	<b>WANAS 250H</b>
	5903890751722	RE-FILTR 35-40 M5	WANAS 350/2, 350/3 and WANAS COMBO
	<b>5903890751807</b>	<b>RE-FILTR 55-60 M5</b>	<b>WANAS 550/2 and 550/3</b>
	5903890751777	RE-FILTR 39-41 M5	WANAS 415
	<b>5903890751821</b>	<b>RE-FILTR 59-61 M5</b>	<b>WANAS 615</b>
5903890752941	RE-FILTR 20-30 M5	WANAS BLACK	
 <p><b>HIGH FILTRATION FILTER ePM 1,0 80%</b></p>	5903890751708	RE-FILTR 24-25 A	WANAS 250MN
	<b>5903890752002</b>	<b>RE-FILTR 25-25 A</b>	<b>WANAS 250H</b>
	5903890751760	RE-FILTR 345-3/401 A	WANAS 345
	<b>5903890751739</b>	<b>RE-FILTR 35-40 A</b>	<b>WANAS 350/2, 350/3, 355 and WANAS COMBO</b>
	5903890751814	RE-FILTR 55-60 A	WANAS 550/2, 550/3 and 555
	<b>5903890751784</b>	<b>RE-FILTR 39-41 A</b>	<b>WANAS 415</b>
	5903890751838	RE-FILTR 59-61 A	WANAS 615
	<b>5903890751883</b>	<b>RE-FILTR 78-81 A</b>	<b>WANAS 815</b>
	5903890751845	RE-FILTR 80-85 A	WANAS 800
	<b>5903890751906</b>	<b>RE-FILTR 90-13 A</b>	<b>WANAS 900H and 1300H</b>
5903890753146	RE-FILTR 20-30 A	WANAS BLACK	
 <p><b>CASSETTE FILTER ISO COARSE 75%</b></p>	<b>5903890751586</b>	<b>RE-FILTR 24-25 G4W</b>	<b>WANAS 250MN CARBON NONWOVEN</b>
	5903890751746	RE-FILTR 345-3/401 G4	WANAS 345
	<b>5903890751753</b>	<b>RE-FILTR 345-3/4 G4W</b>	<b>WANAS 345 CARBON NONWOVEN</b>
	5903890751715	RE-FILTR 35-40 G4W	WANAS 350/2, 350/3, 355 and WANAS COMBO CARBON NONWOVEN
	<b>5903890751791</b>	<b>RE-FILTR 55-60 G4W</b>	<b>WANAS 550/2, 550/3, 555 CARBON NONWOVEN</b>
	5903890751852	RE-FILTR 80-85 G4	WANAS 800
	<b>5903890751876</b>	<b>RE-FILTR 78-81 G4NAW</b>	<b>WANAS 815 SUPPLY</b>
	5903890751869	RE-FILTR 78-81 G4WYW	WANAS 815 EXHAUST
	<b>5903890751890</b>	<b>RE-FILTR 90-13 G4</b>	<b>WANAS 900H and 1300H</b>

# Equipment WANAS MODULAR

	EAN	Code	Description
 <b>BOX SUPPLY / EXHAUST 2XØ75/125</b>	5903890752545	WE-ROZPR. 2X75X125_M	<b>The box is designed for air supply to rooms with a capacity of approx. 60 m³/h. Equipped with two locking rings.</b>
 <b>STUB 3XØ75</b>	5903890752552	WE-KRÓCIEC 3X75_M	Stubs are used to change combinations in MODULAR distributors and to assemble an individual spacing. Equipped with three locking rings. Distributors can be equipped with 3,6, 9 and 12 stubs.
 <b>AIR DISTRIBUTOR 9XØ75/160 OR 200</b>	5903890752569 5903890752576	WE-ROZDZ. 9X75X160_M WE-ROZDZ. 9X75X200_M	<b>The design of the distributor allows it to be installed in floor layers, suspended ceilings, as well as in framed walls. The distributor is compatible with all available ø75, ø160, ø200 ventilation ducts.</b>
 <b>AIR DISTRIBUTOR 12XØ75/160 OR 200</b>	5903890752583 5903890752590	WE-ROZDZ-12X75X160_M WE-ROZDZ-12X75X200_M	The design of the distributor allows it to be installed in floor layers, suspended ceilings, as well as in framed walls. The distributor is compatible with all available ø75, ø160, ø200 ventilation ducts.
 <b>PLUG</b>	5903890752606	WE-ZAŚLEPKA_M	<b>It is used to cover the unused side of the MODULAR distributor.</b>
 <b>DISTRIBUTOR PLATE Ø160 OR Ø200</b>	5903890752613 5903890752620	WE-PŁYTA-160_M WE-PŁYTA-200_M	<b>Plate with a connection stub to the MODULAR distributor ø160 and ø200. It enables the assembly of a custom distributor option.</b>
 <b>BUILT-IN MODULE</b>	5903890752637	WE-MODUŁ_M	<b>Solid plate for MODULAR manifold. Allows you to assemble your own manifold option.</b>
 <b>SCREWS</b>	5903890752644	WE-ŚRUBY_M	Screws for joining the WANAS MODULAR components - 12 pieces


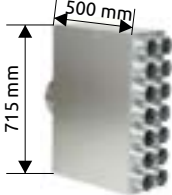

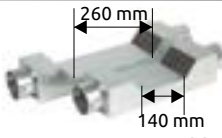
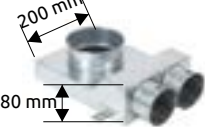

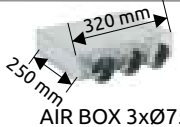


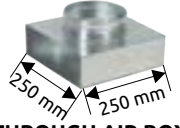


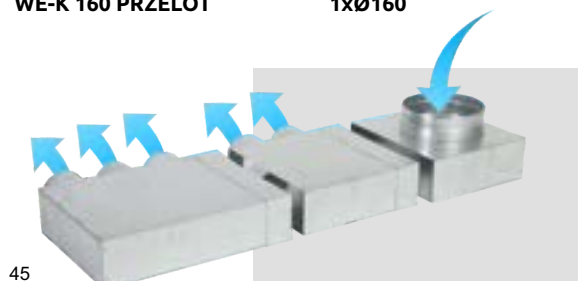
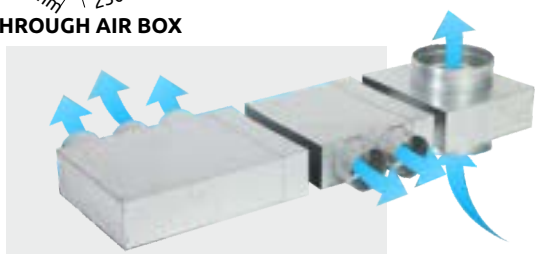
# Ventilation Equipment WANAS

	EAN	Kod	Description
 <p>330 mm</p> <p><b>SUPPLY AIR BOX 1XØ75/100</b></p>	5903890751258	WE-ROZPR. 1X75X100	The box is designed for air supply to rooms with a capacity of approx. 30 m <sup>3</sup> /h.
 <p>330 mm</p> <p><b>SUPPLY AIR BOX 2XØ75/125</b></p>	5903890751265	WE-ROZPR. 2X75X125	The box is designed for air supply to rooms with a capacity of approx. 60 m <sup>3</sup> /h.
 <p>330 mm</p> <p><b>SUPPLY AIR BOX 3XØ75/150</b></p>	5903890751272	WE-ROZPR. 3X75X150	The box is designed for air supply to rooms with a capacity of approx. 90 m <sup>3</sup> /h.
 <p>500 mm</p> <p>300 mm</p> <p><b>AIR DISTRIBUTOR 5XØ75/125</b></p>	5903890750787	WE-ROZDZ-5X75X125	Width - 500mm Length - 300mm Height - 90mm
 <p>300 mm</p> <p>500 mm</p> <p><b>INSULATED AIR DISTRIBUTOR 5XØ75/125</b></p>	5903890750794	WE-ROZDZ-5X75X125 I	Width - 500mm Length - 300mm Height - 90mm
 <p>683 mm</p> <p><b>AIR DISTRIBUTOR 8XØ75/160</b></p>	5903890750800	WE-ROZDZ-8X75X160	Width - 300mm Length - 683mm Height - 90mm
 <p>450 mm</p> <p>450 mm</p> <p><b>INSULATED AIR DISTRIBUTOR 8XØ75/160</b></p>	5903890750817	WE-ROZDZ-8X75X160 I	Width - 450mm Length - 450mm Height - 190mm
 <p>450 mm</p> <p>600 mm</p> <p><b>INSULATED AIR DISTRIBUTOR 11XØ75/200</b></p>	5903890750824	WE-ROZDZ-11X75X200 I	Width - 450mm Length - 600mm Height - 220mm
 <p>450 mm</p> <p>600 mm</p> <p><b>INSULATED AIR DISTRIBUTOR 12XØ75/200</b></p>	5903890750848	WE-ROZDZ-12X75X200 I	Width - 450mm Length - 600mm Height - 220mm














# Ventilation Equipment WANAS

	EAN	Code	Description
 <p>AIR DISTRIBUTOR 12XØ75/200</p>	5903890750831	WE-ROZDZ-12X75X200	Width - 330mm Length - 660mm Height - 90mm
 <p>INSULATED AIR DISTRIBUTOR 14XØ75/200</p>	5903890750855	WE-ROZDZ-14X75X200 I	Width - 500mm Length - 715mm Height - 220mm
 <p>CORNER AIR DISTRIBUTOR 2XØ75/125</p>	5903890751289	WE-ROZPR. 2X75X125 N	Width - 300 mm Length - 300 mm Height - 430mm
 <p>PIPE BYPASS</p>	5903890750893 5903890750886	WE-SK-ODSADZ D WE-SK-ODSADZ M	260x44 140x44
 <p>CEILING AIR BOX FOR PLASTERBOARD</p>	5903890750909	WE-ROZPR. 2X75X125 S	Height - 80 mm, 2xØ75 1xØ125 Building height K/G 100 mm
 <p>AIR BOX 2xØ75</p>	5903890751319	WE-K 2X75 PRZELOT	Through
 <p>AIR BOX 3xØ75</p>	5903890751296 5903890751302	WE-K 3X75 PRZELOT WE-K 3X75 ZAMK	Through Closed
 <p>CLOSED AIR BOX</p>	5903890751326	WE-K 200/160 ZAMK	Ø200/Ø160
 <p>CLOSED AIR BOX</p>	5903890751333	WE-K 160 ZAMK	1xØ160
 <p>THROUGH AIR BOX</p>	5903890751340	WE-K 160 PRZELOT	1xØ160



# Ventilation Equipment WANAS

	EAN	Code	Description
 SUPPLY AIR DIFFUSER	5903890750954	WE-ZAW-NAW-100	Ø100
	<b>5903890750961</b>	<b>WE-ZAW-NAW-125</b>	<b>Ø125</b>
	5903890750978	WE-ZAW-NAW-150	Ø150
 EXHAUST AIR DIFFUSER	<b>5903890750985</b>	<b>WE-ZAW-WYW-100</b>	<b>Ø100</b>
	5903890750992	WE-ZAW-WYW-125	Ø125
	<b>5903890751005</b>	<b>WE-ZAW-WYW-150</b>	<b>Ø150</b>
 GALVANIZED WALL EXTERNAL INTAKE/OUTTAKE	5903890751012	WE-CK 330X330_OCYNK	Ø200, 330x330
	<b>5903890751043</b>	<b>WE-CK 330X330_GRAFIT</b>	<b>Ø200, 330x330 - RAL: 7016</b>
	5903890751029	WE-CK 330X330_SZARA	Ø200, 330x330 - RAL: 7047
	<b>5903890751036</b>	<b>WE-CK 330X330_BIAŁA</b>	<b>Ø200, 330x330 - RAL: 9016</b>
	5903890751050	WE-CK 380X380_OCYNK	Ø250, 380x380
	<b>5903890751081</b>	<b>WE-CK 380X380_GRAFIT</b>	<b>Ø250, 380x380 - RAL: 7016</b>
	5903890751067	WE-CK 380X380_SZARA	Ø250, 380x380 - RAL: 7047
<b>5903890751074</b>	<b>WE-CK 380X380_BIAŁA</b>	<b>Ø250, 380x380 - RAL: 9016</b>	
 ALUMINUM WALL EXTERNAL INTAKE/OUTTAKE	5903890751111	WE-CO 160_GRAFIT	Ø160 - RAL: 7016
	<b>5903890751104</b>	<b>WE-CO 160_SZARA</b>	<b>Ø160 - RAL: 7047</b>
	5903890751098	WE-CO 160_BIAŁA	Ø160 - RAL: 9016
	<b>5903890751142</b>	<b>WE-CO 200_GRAFIT</b>	<b>Ø200 - RAL: 7016</b>
	5903890751135	WE-CO 200_SZARA	Ø200 - RAL: 7047
	<b>5903890751128</b>	<b>WE-CO 200_BIAŁA</b>	<b>Ø200 - RAL: 9016</b>
	5903890751173	WE-CO 250_GRAFIT	Ø250 - RAL: 7016
<b>5903890751166</b>	<b>WE-CO 250_SZARA</b>	<b>Ø250 - RAL: 7047</b>	
5903890751159	WE-CO 250_BIAŁA	Ø250 - RAL: 9016	
 ACOUSTIC AIR DAMPER	<b>5903890751180</b>	<b>WE-TŁUMIK 200/500</b>	<b>Ø200x500</b>
	5903890751197	WE-TŁUMIK 200/1000	Ø200x1000
	<b>5903890751203</b>	<b>WE-TŁUMIK 250/500</b>	<b>Ø250x500</b>
	5903890751210	WE-TŁUMIK 250/1000	Ø250x1000
 FLEXIBLE INSULATED DUCT 25 MM	<b>5903890751227</b>	<b>WE-KANAŁ ELAST 160</b>	<b>Insulated flexible conduit Ø160</b>
	5903890751234	WE-KANAŁ ELAST 200	Insulated flexible conduit Ø203
	<b>5903890751241</b>	<b>WE-KANAŁ ELAST 254</b>	<b>Insulated flexible conduit Ø254</b>
 AIR ELASTIC DUCT Ø75/50mb	5903890750916	WE-KANAŁ 75	The Ø75 ventilation duct serves to distribute air from supply air box to air distributor. The pipe can be spread on the ceiling in the heated zone in a layer of 8 cm polystyrene or in the attic covered with min. 10 cm thick layer of styrofoam.
 MUFF	<b>5903890750923</b>	<b>WE-MUFA 75</b>	<b>The fitting is designed to connect the Ø75 flexible duct.</b>
 PLUG	5903890750930	WE-ZAŚLEPKA 75	The plug is designed to plug unused holes in air distributors and air supply boxes and to protect them from possible dirt.
 GASKET	<b>5903890750947</b>	<b>WE-USZCZELKA 75</b>	<b>The gasket is designed to be placed on Ø75 flexible ducts to ensure tightness of connection between duct pipe and distributions boxes, supply air boxes and muff.</b>
 GHE TEE	<b>5903890750862</b>	<b>WE-TRÓJNIK GWC 160</b>	The T-connector for selecting the air intake
	5903890750879	WE-TRÓJNIK GWC 200	enables the selection of a wall or ground intake with Belimo actuator

# EFFICIENCY OF ENTHALPY EXCHANGERS

Air flow	Wanas 350		Wanas 415		Wanas 550		Wanas 815	
	$\eta_T$	$\eta_{H_2O}$	$\eta_T$	$\eta_{H_2O}$	$\eta_T$	$\eta_{H_2O}$	$\eta_T$	$\eta_{H_2O}$
100 m <sup>3</sup> /h	84,3%	68,5%	86,3%	76,5%	84,6%	69,5%	-	-
200 m <sup>3</sup> /h	78,5%	55,4%	79,4%	62,8%	79,7%	58%	85,4%	74,9%
300 m <sup>3</sup> /h	73,8%	45,9%	74,2%	53,1%	75,1%	48,3%	81,4%	67,2%
400 m <sup>3</sup> /h	70,4%	40,2%	70,7%	47,5%	71%	40,3%	78%	60,6%
500 m <sup>3</sup> /h	-	-	-	-	-	-	75,1%	55,3%
600 m <sup>3</sup> /h	-	-	-	-	-	-	72,9%	51,2%

## Values:

Temp. in = 20°C  
 Temp. out = -5°C  
 RH<sub>i</sub> = 45%  
 RH<sub>o</sub> = 70%

## Signs:

Temp. in - Internal temperature  
 Temp. out - Outside temperature  
 RH<sub>i</sub> - Indoor humidity  
 RH<sub>o</sub> - Outside humidity

## $\eta_{RH}$ CALCULATE RECOVERY

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

RH<sub>1</sub> – Humidity of the air supplied to the rooms [g/m<sup>3</sup>]  
 RH<sub>2</sub> – Humidity of the air drawn from the outside [g/m<sup>3</sup>]  
 RH<sub>3</sub> – Humidity of the air drawn from the rooms [g/m<sup>3</sup>]

## CALCULATOR FOR RECOVERY

### $\eta_T$ CALCULATE EFFICIENCY

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

T<sub>1</sub> - Temperature of the air supplied to the rooms  
 T<sub>2</sub> - Temperature of the air drawn from the outside of the building  
 T<sub>3</sub> - Temperature of the air drawn from rooms



DOWNLOAD THE CALCULATOR FOR YOUR SMARTPHONE

### CHOOSE

#### PRE-HEATERS

Calculate the rise in air temperature in relation to the flow in m<sup>3</sup>/h and the heater power in Watts



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### CHOOSE

#### DIAMETER OF CHANNELS

Calculate the optimal diameter of the channels for the installation, based on the flow rate in m<sup>3</sup>/h, while maintaining the proper flow velocity in m<sup>3</sup>/s



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**WANAS**

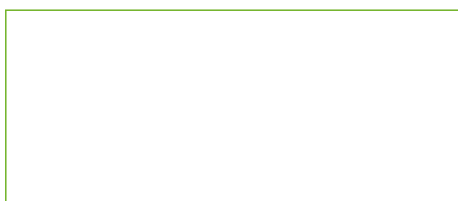
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[www.en.wanas.pl](http://www.en.wanas.pl)

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List price



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