AIR HANDLING UNITS 415 615 815

HI-TECH

Full of technology!

WANAS®

SMART SOLUTIONS

WANAS AIR HANDLING UNITS
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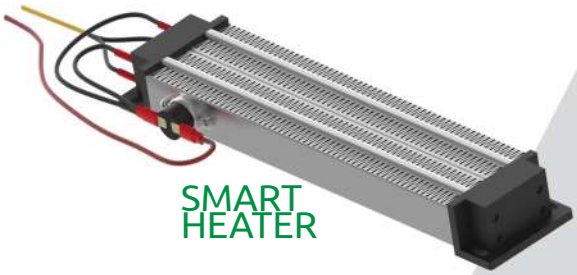
Full of technology!

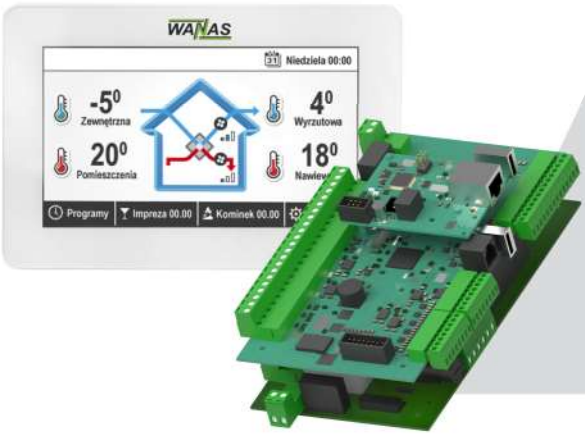


PREHEATER

Each HI-TECH recuperator is equipped with a modern, intelligent pre-heater. The main task of the pre-heater is to heat the air drawn from the outside, flowing directly into the exchanger, so that the condensate does not freeze. The new pre-heater automatically adjusts its output to the outside temperature and the amount of air flowing through it.

HYBRID SYSTEM

The casing and insulation of the recuperator is entirely made of non-flammable and waterproof elements. The exceptionally solid structure of the air handling unit is made of steel elements. In addition, to ensure adequate stability of the structure, a hybrid combination of steel parts and a new insulation board was used inside the recuperator, eliminating unwanted thermal bridges to the maximum possible extent.



MODBUS RTU

Take advantage of the possibilities offered by the most extensive motherboard on the market. The new board is equipped with a faster and more efficient processor, enabling a wide expansion of the ventilation system. The use of MODBUS RTU communication enables the integration of the recuperator with the so-called smart home system. This function allows synchronizing the systems at home with one controller and recuperator control via the network.

UPDATE

The recuperator has the option of uploading a free software update at any time when the air handling unit is used. Each update prepared by our team improves the already existing functions of the recuperator control and modernizes the air handling unit by adding completely new ones. The users can easily perform the update on their own.

MORE POSSIBILITIES
HI-TECH
Full of technology!

In standard:
Internet control
The work history
Messages on e-mail

Easy and quick access for electronics

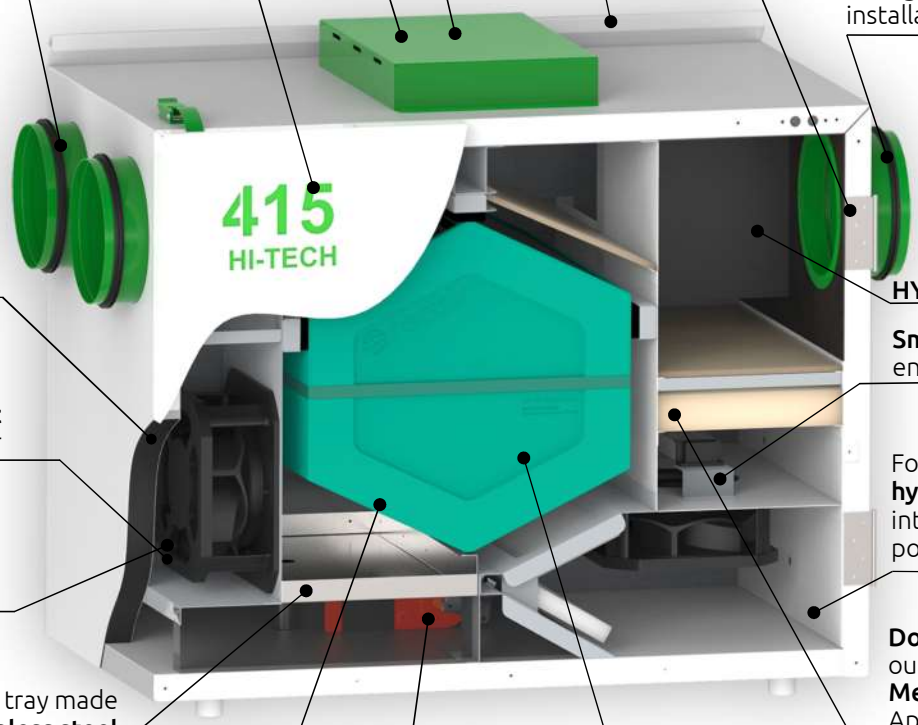
Properly shaped handle, thanks which the air handling unit is adjacent to the wall

Low volume in the supply air duct, provides comfort acoustic inside the house

Easy opening door provides convenient service and easy filter replacement

Illuminated logo

EPM gasket ensures tightness installation connections



Partitions made of metal and **non-flammable** insulation board

HYBRID SYSTEM

Smart and low energy pre-heater

Energy efficient EC ventilator

For assurance **greater hygiene and durability** interior painted with polyester paint

XF SYSTEM

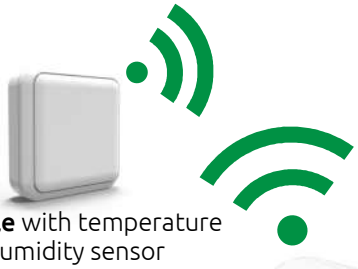
Double filtration of the outside air
Measuring filter soiling
Applicability
anti-smog filters

Drip tray made of **stainless steel**

Plastic heat exchanger with increased **heat exchange surface**
Applicability
enthalpy exchanger

100% bypass

Heat exchanger installed to enabling **gravitational condensate drain**



Compatible with temperature and humidity sensor

Display **V2**

Modern wall display in standard

Interesting design wall display with glass panel

WANAS AIR HANDLING UNITS
HI-TECH
Full of technology!

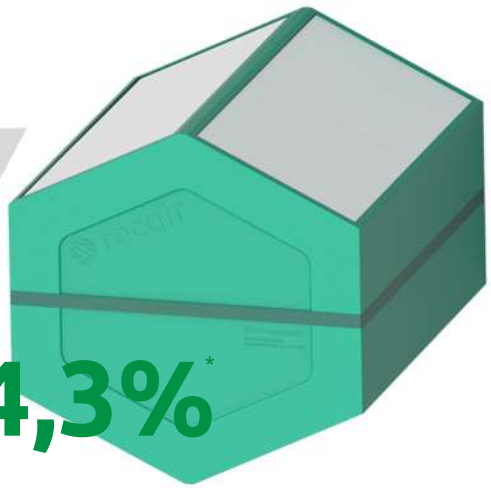
XF SYSTEM

The system enables automatic balancing of the installation by continuous measurement of the current supply and exhaust air flow. The new mode allows the user to set the air flow in m³/h. The use of XF technology guarantees greater comfort of use and energy savings.

PLASTIC EXCHANGER

The counter-flow exchanger used in the recuperator is made of high-quality polystyrene. With an increased heat exchange surface, the air handling unit guarantees exceptionally high thermal efficiency. Additionally, the recuperator has the option of using an enthalpy exchanger.

* 815 HI-TECH, according PN-EN 308, T.inside 5°C RH 70%, T.outside 25°C RH 25% for 50 m³



94,3%*

EXTENSIVE FILTRATION

The recuperator is equipped with a double external air filtration system ensuring a constant supply of properly purified air into the rooms. As standard, the air handling unit has one pre-filter of ISO COARSE 75% class and a fine filter with an increased filtration class ePM 10 50%. The recuperators can be replaced with anti-smog filters.

TAKE ADVANTAGE OF THE FINANCING FOR MECHANICAL VENTILATION!

WANAS air handling units meet the technical requirements of the CLEAN AIR program in terms of efficiency, SFP factor and control. In addition, all recuperators produced have a Hygienic Certificate issued by the National Institute of Public Health - **National Institute of Hygiene.**

Bet on
CLEAN AIR

NARODOWY INSTYTUT ZDROWIA PUBLICZNEGO PZH
PRODUKT Z ATESTEM

415V

615V

815V

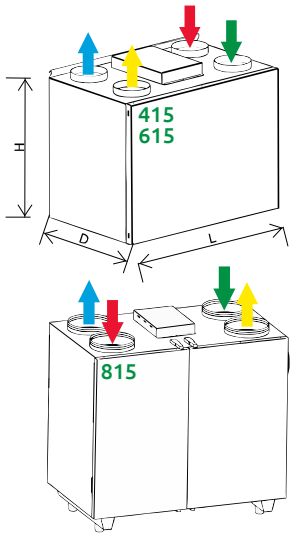
415H

615H

815H

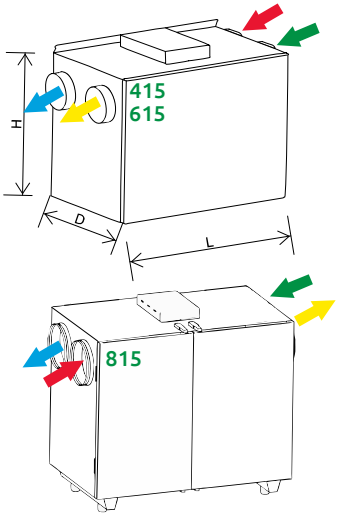
	Unit	415V 415H	415V HI-TECH 415H HI-TECH	615V 615H	615V HI-TECH 615H HI-TECH	815V 815H	815V HI-TECH 815H HI-TECH
UEC (unit energy consumption) class*	-	A	A	A	A	A	A
UEC for moderate climate	kWh/(m²/year)	-34,89	-34,89	-34,15	-34,15	-36,64	-36,64
UEC for cool climate	kWh/(m²/year)	-71,95	-71,95	-71,16	-71,16	-73,76	-73,76
UEC for warm climate	kWh/(m²/year)	-11,03	-11,03	-10,32	-10,32	-12,75	-12,75
Max. flow rate (at 100 Pa)	m³/h	520	520	688	688	890	890
Acoustic power (gear I/ acc. to UE 1254/2014)	dBA	44-59	44-59	45-61	45-61	43-58	43-58
External static pressure	(m³/h)/Pa	415/235	415/235	615/193	615/193	815/180	815/180
Energy consumption	W	19-240	19-240	30-377	30-377	23-337	23-337
Pre-heater power	W	500	500	500	500	2000	2000
Power supply	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50
Stub pipe diameter	mm	160	160	200	200	250	250
Max. efficiency	%	93,5	93,5	94	94	94,3	94,3
Efficiency acc. to UE 1254/2014, dT=13°C, SWM	%	82,9	82,9	82,7	82,7	83,1	83,1
Efficiency acc. to PN-EN 308	%	85,1	85,1	85,1	85,1	85,1	85,1
Height [H]	mm	634	634	694	694	897	897
Width [L]	mm	813	813	833	833	1147	1147
Depth[D]	mm	515	515	675	675	696	696
Weight	kg	61	61	75,5	75,5	133,5	133,5
Filter class	-	ISO COARSE 75% + ePM 10 50%				ISO COARSE 75%	
Illuminated logo on the door HI-TECH		-	YES	-	YES	-	YES
Wall display with glass panel		YES	YES	YES	YES	YES	YES
MODBUS RTU		YES	YES	YES	YES	YES	YES
XF (flow balancing)		-	YES	-	YES	-	YES
Setting expenditure m³/h		-	YES	-	YES	-	YES
Current preview m³/h		-	YES	-	YES	-	YES
Internet control		OPTION	YES	OPTION	YES	OPTION	YES
Information on dirty filters		-	YES	-	YES	-	YES
Interior painted with polyester paint		YES	YES	YES	YES	YES	YES
Plastic heat exchanger		YES	YES	YES	YES	YES	YES
Smart pre-heater		YES	YES	YES	YES	YES	YES
Reduced airflow volume		YES	YES	YES	YES	YES	YES
Stainless steel drip tray		YES	YES	YES	YES	YES	YES
Non-flammable isolation		YES	YES	YES	YES	YES	YES
HYBRID SYSTEM		YES	YES	YES	YES	-	-
Wall handle		YES	YES	YES	YES		-

Choose set	WANAS MOBILE CONTROL W-15 WANAS MOBILE CONTROL W-19 Wi-Fi Stand for WANAS 415 Stand for WANAS 615 Stand for WANAS 815



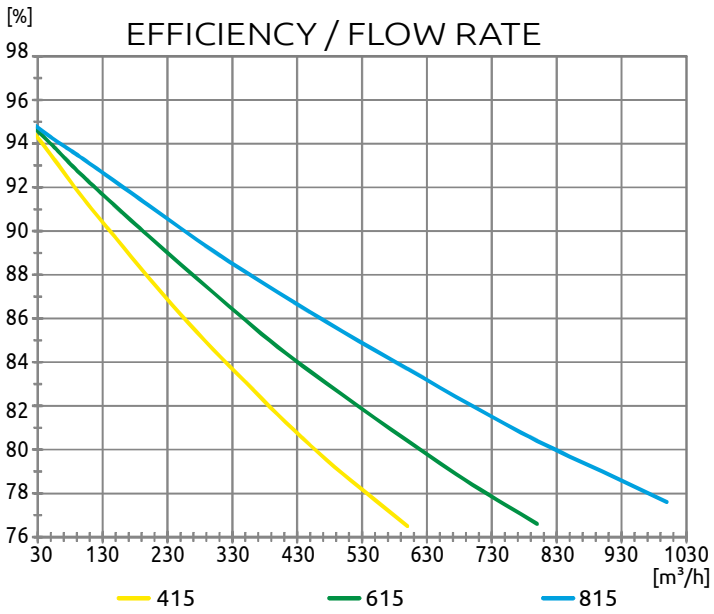
WANAS VERTICAL

external fresh air
air extraction from rooms
air supply to rooms
spent air discharge to the outside

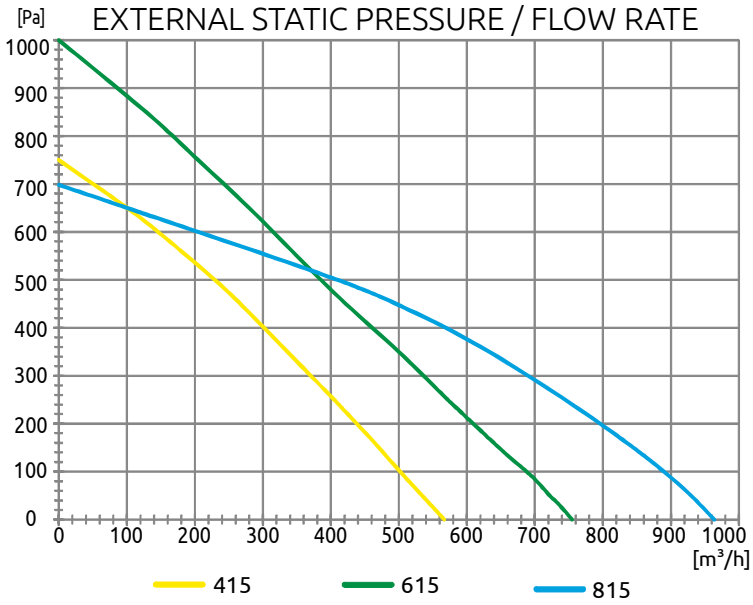


WANAS HORIZONTAL

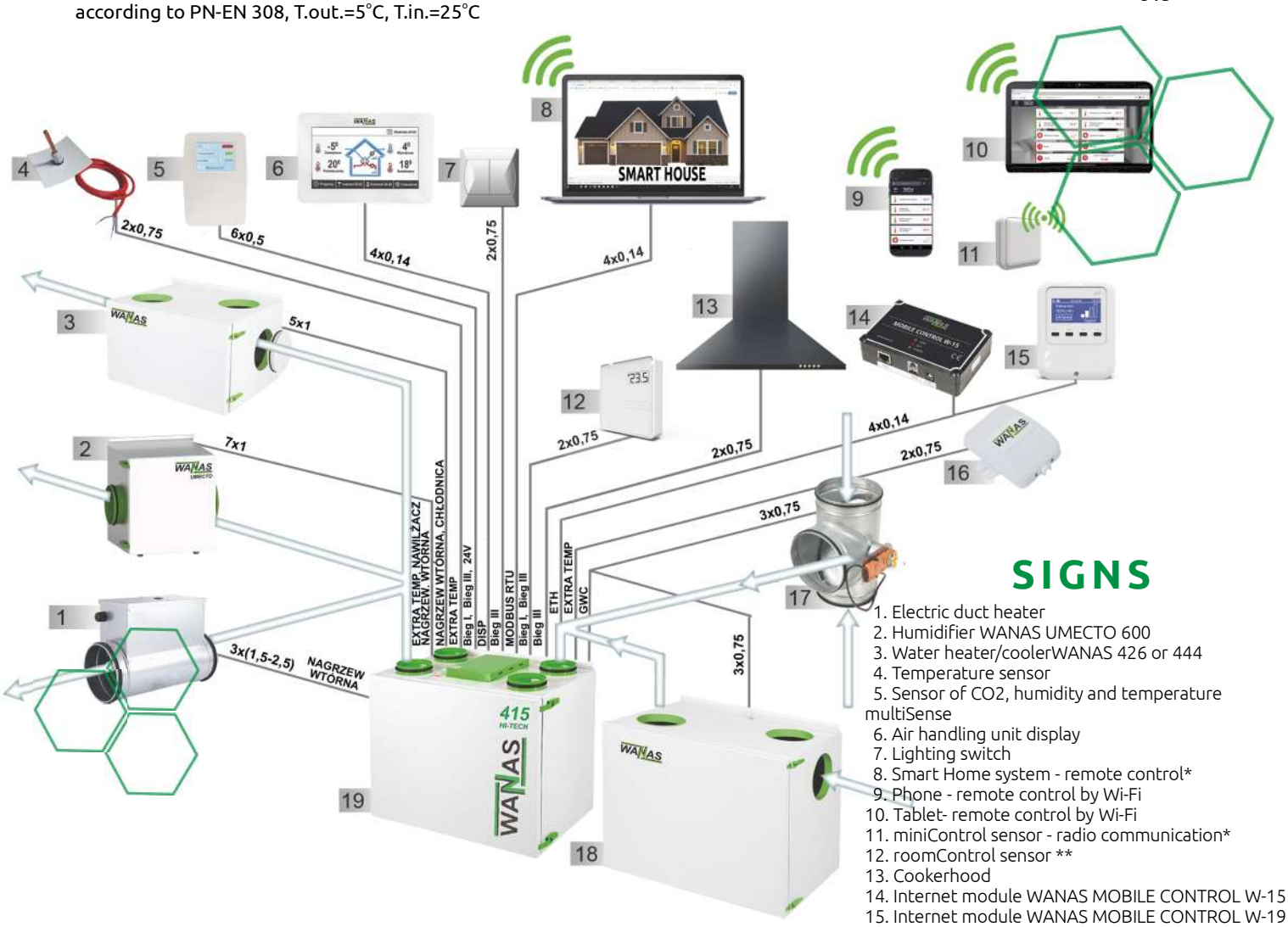
EFFICIENCY / FLOW RATE



EXTERNAL STATIC PRESSURE / FLOW RATE



according to PN-EN 308, T.out.=5°C, T.in.=25°C



SIGNS

1. Electric duct heater
2. Humidifier WANAS UMECTO 600
3. Water heater/coolerWANAS 426 or 444
4. Temperature sensor
5. Sensor of CO2, humidity and temperature multiSense
6. Air handling unit display
7. Lighting switch
8. Smart Home system - remote control*
9. Phone - remote control by Wi-Fi
10. Tablet- remote control by Wi-Fi
11. miniControl sensor - radio communication*
12. roomControl sensor **
13. Cookerhood
14. Internet module WANAS MOBILE CONTROL W-15
15. Internet module WANAS MOBILE CONTROL W-19 Wi-Fi
16. Outdoor temperature sensor WANAS W-1000
17. GWC Tee
18. Modul GWC WANAS 426
19. WANAS air handling unit

UPGRADE THE SYSTEM

www.en.wanas.pl

POLSKI PRODUCENT

dystrybutor

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