Operation and Maintenance Documentation

INSTALLATION AND OPERATING MANUAL

Umecto UNI 600
Umecto UNI 1300

WANAS®
źródło komfortu
www.wanas.pl

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1. GENERAL

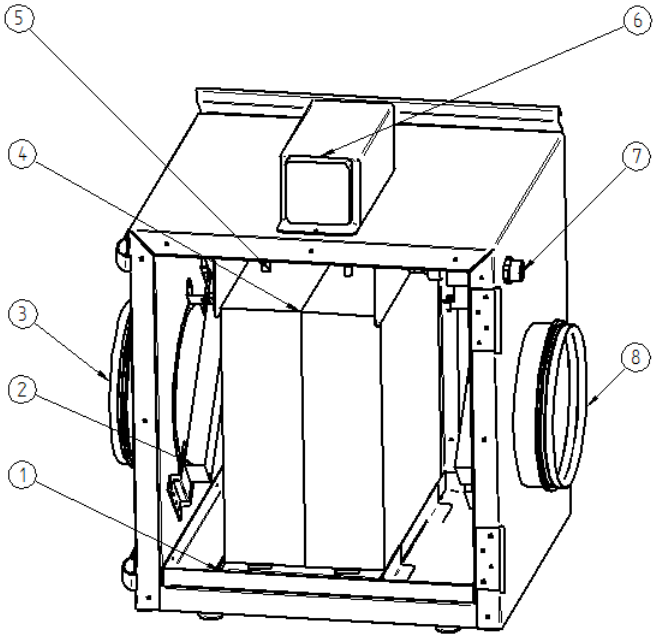
1.1. Introduction

The Wanas UMECTO UNI humidifier is designed to work with any heat recovery unit. It is a device used to maintain the correct level of humidity in a building. It operates on the basis of the natural (adiabatic) process of water evaporation; this process is the most beneficial for our health and is also highly energy-efficient. It is the ideal solution for ensuring the correct humidity levels in a building during the winter, when indoor air humidity drops significantly. The unit is installed between the heat recovery unit and the supply air duct. The unit requires periodic replacement of the evaporative pads. The duct-mounted humidifier is designed for installation in mechanical ventilation systems with heat recovery in residential or office buildings. To ensure long-term, reliable and safe operation of the unit, please read the entire installation and operating instructions. The warranty covers units located exclusively within Poland.

1.2. Safety

- The device must only be operated by adults who have read the user manual.
- The appliance should be installed by suitably qualified personnel**.**
- **It is forbidden to switch on the appliance in a building where construction work is taking place**.
- **The manufacturer accepts no liability** for damage resulting from the operation or installation of the equipment in a manner inconsistent with the instructions**.**
- The humidifier should be installed in a location where the temperature is always between **5°C and 45°C.**
- The water supply should be fitted with a detachable connector, e.g. a screw coupling, and equipped with a shut-off valve and a 0.2 mm filter
- The room in which the appliance is located should be fitted with a floor drain. Do not place any other electrical or electronic appliances underneath or in the immediate vicinity of.
- Before using the product, turn on the water supply and check that the water inlet and outlet connections are securely fitted and tightened, and that there are no water leaks. The manufacturer accepts no liability for water leaks or flooding.
- Installing the humidifier in a room where the temperature may fall below 0°C **may cause it to freeze**, become damaged or leak, for which the manufacturer accepts no liability.
- If the relative humidity indoors exceeds 55%, water may condense on surfaces whose temperature is below 15°C.
- Electrical, water and drainage connections must comply with the requirements of standards and building regulations.
- Nozzles and mats are consumable parts and are not covered by the warranty.
- To prevent water leaks and the damage they cause, **you should turn off the water supply when the appliance is not in use** and regularly check that the water supply is not leaking.
- In the event of a water leak, stop using the appliance and disconnect it from the mains. Then contact your installer.

2. Humidifier construction



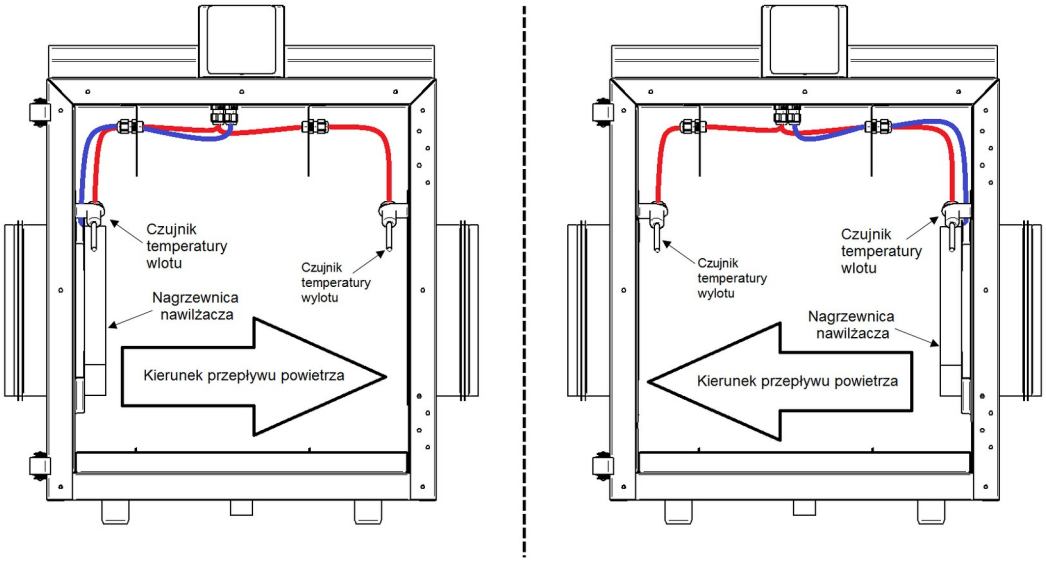
1. Drip tray with drainNagrzewnica nawilżacza
2. Air in/out let
3. Evaporative pad
4. Nozzels
5. Controller
6. Water supply connection ¾”
7. Air in/out let

The air inlet is always located on the side of the heater

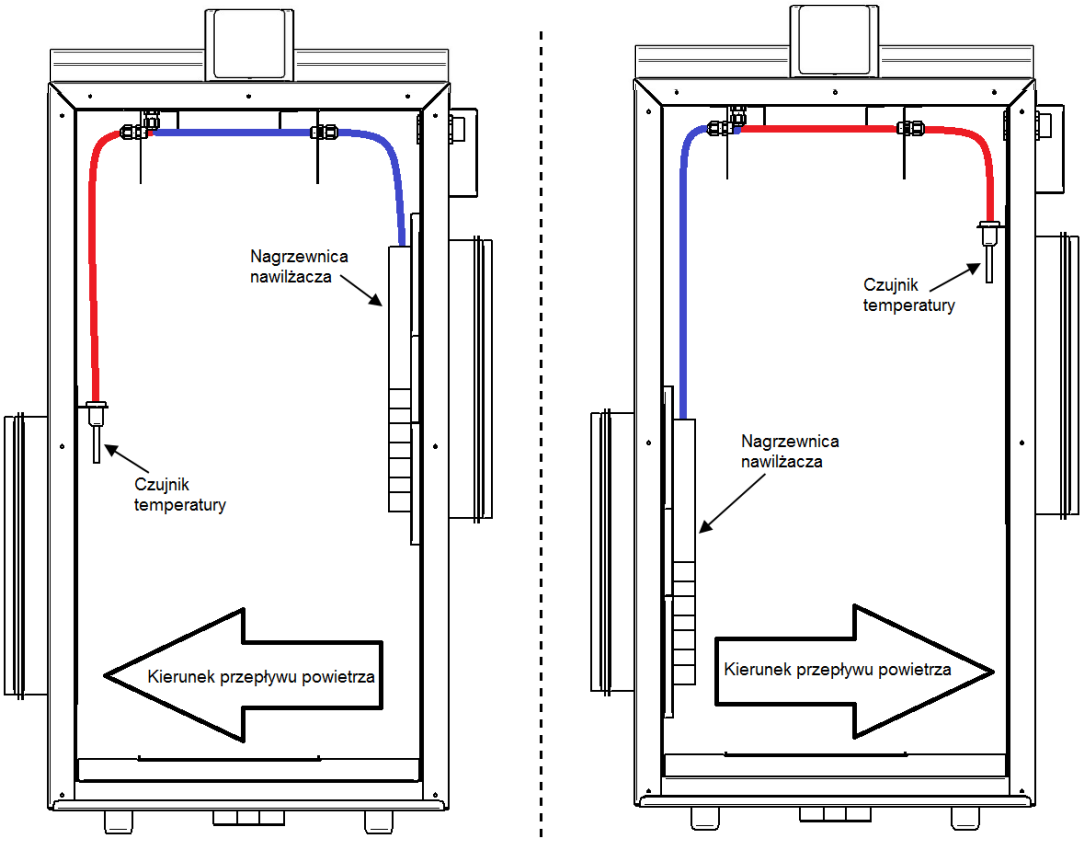
3. Changing the direction of the airflow

To make installation easier, the unit can be reconfigured. To do this, swap the humidifier heater and the temperature sensors round.

All maintenance work must be carried out with the appliance disconnected from the 230V mains supply.

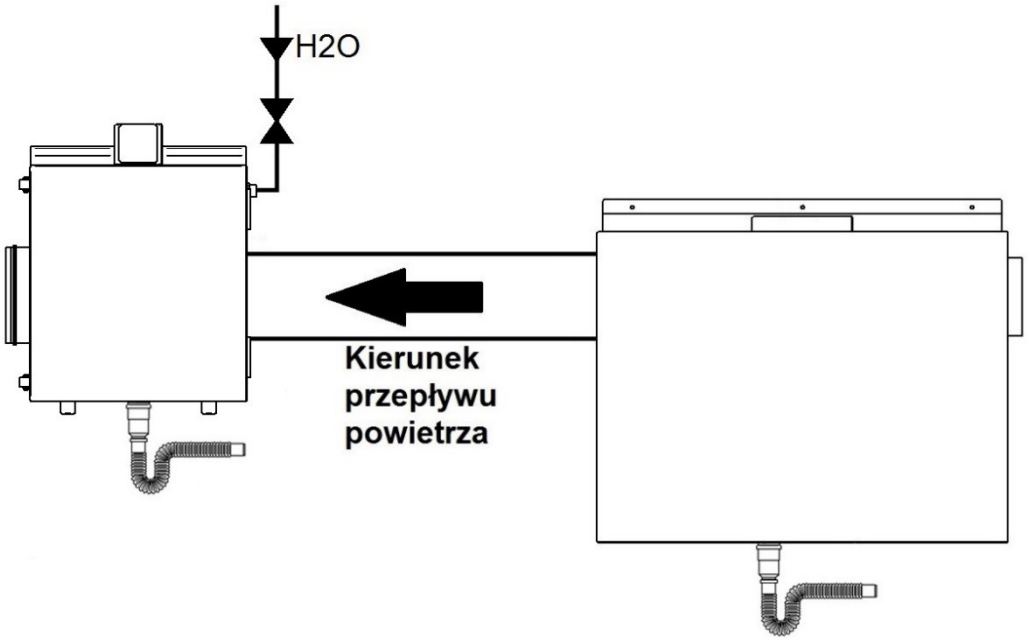


WANAS UMECTO 600



WANAS UMECTO 1300

4. Wiring diagram for a humidifier with a heat recovery unit



The humidifier is fitted to the supply air duct downstream of the heat recovery unit. Cold water is connected to the UMECTO Uni humidifier via a ¾" connection, using a shut-off valve and a water filter. The mains water must meet the requirements for drinking water. If the water hardness exceeds 200 mg $CaCO_3$, it is recommended to use an additional water softener. Connect the trap (included in the kit) to the condensate drain and fill it with water. Before commissioning for the first time, check the system for leaks. Installation should be carried out using the accessories supplied with the humidifier, after which the unit must be levelled in two planes.

Set the desired relative humidity on the controller, which the system will aim to maintain. The recommended and factory-set values are 40%–45%.

The ventilation ducts through which the humidified air is transported to the rooms should be properly insulated to prevent moisture from condensing.

Before installing the wireless humidity sensor, ensure that the humidifier controller is communicating with the miniControl / maxiControl room sensor.

5. Controller settings

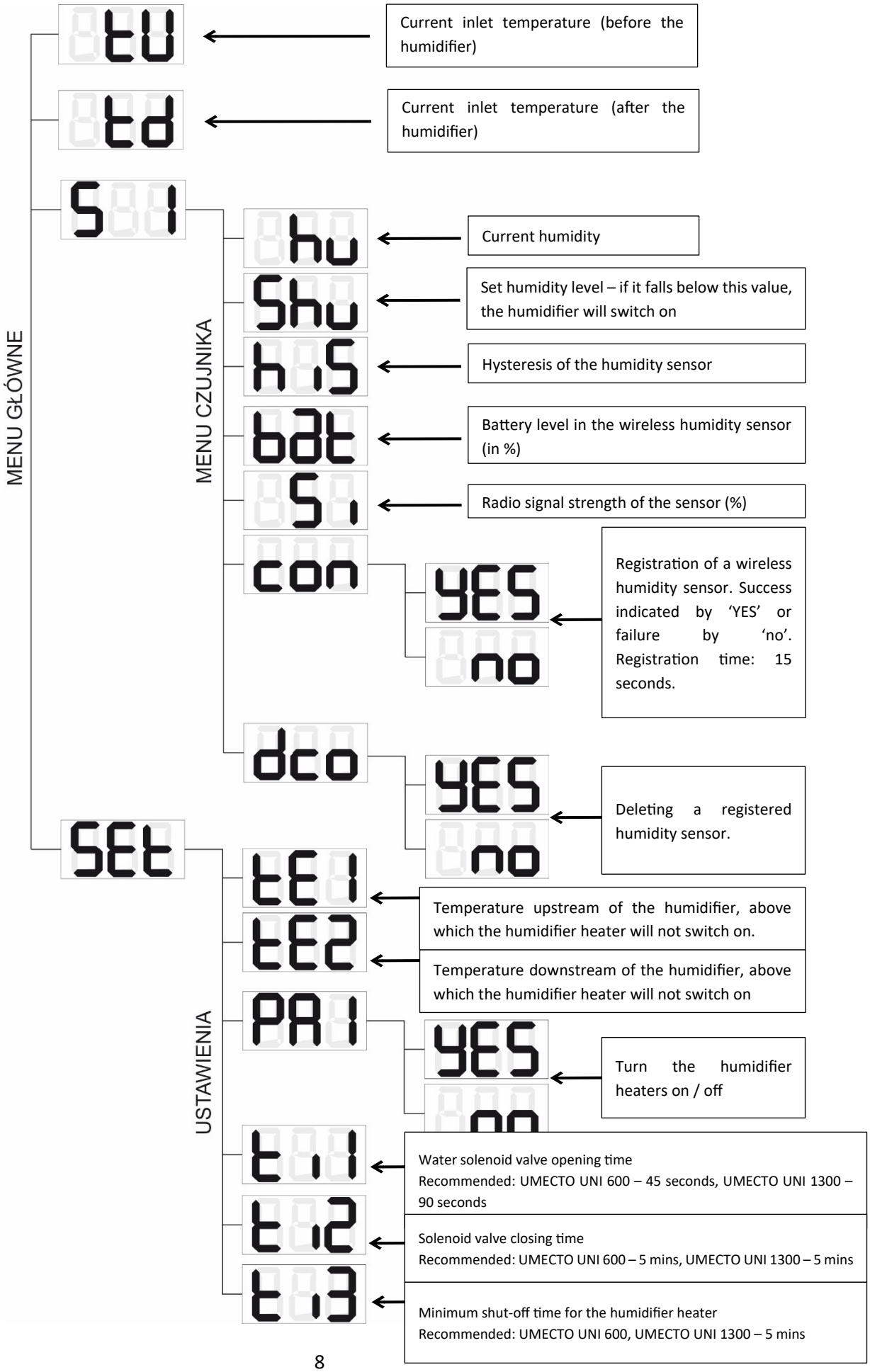
On the controller, you can set parameters such as:

- Set humidity;
- water solenoid valve opening time;
- solenoid valve closing time;
- ctivation of the humidifier heater;
- the temperature upstream and downstream of the humidifier, on the basis of which the heater is to be activated;
- pairing of the wireless humidity sensor.

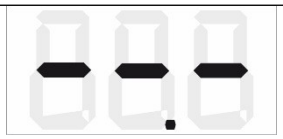
The controller displays the current humidity level as read by the wireless humidity sensor. The controller uses indicator lights to show the humidifier's current operating status and to indicate a loss of connection with the wireless humidity sensor..

To access the settings, press the 'menu' button. Use the '+' and '-' buttons to navigate through the menu. The settings are saved once you confirm by pressing the 'menu' button.

6. Menu structure and explanation



7. Errors explenation

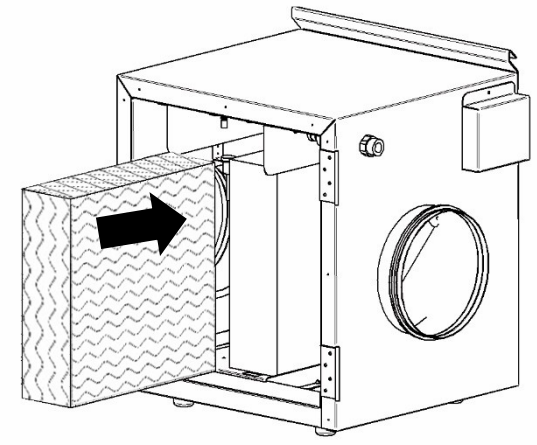
	Intake temperature sensor fault
	Exhaust temperature sensor fault
	Low battery level in the wireless humidity sensor
	No radio communication with the wireless humidity sensor.
	No reading from the wireless humidity sensor.

7. Maintenance

7.1. Removing the humidifier pads

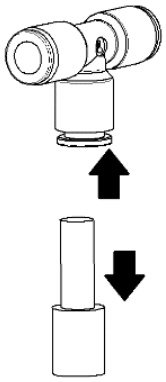
The evaporative pads in the humidifier should be replaced once a year. During the summer, top up the condensate drain trap with water as required. Depending on the water hardness, limescale may build up on the pads. An excessive amount of limescale will affect the humidifier's performance. All maintenance work must be carried out with the unit disconnected from the 230V mains supply.

The mats must be replaced if any parts come loose, but at least once a year. When replacing the mats, position them in accordance with the direction shown in the diagram below. To remove the mats, open the door, then remove the mat retainer. Slide out the humidifier mats. Refit them in the reverse order.



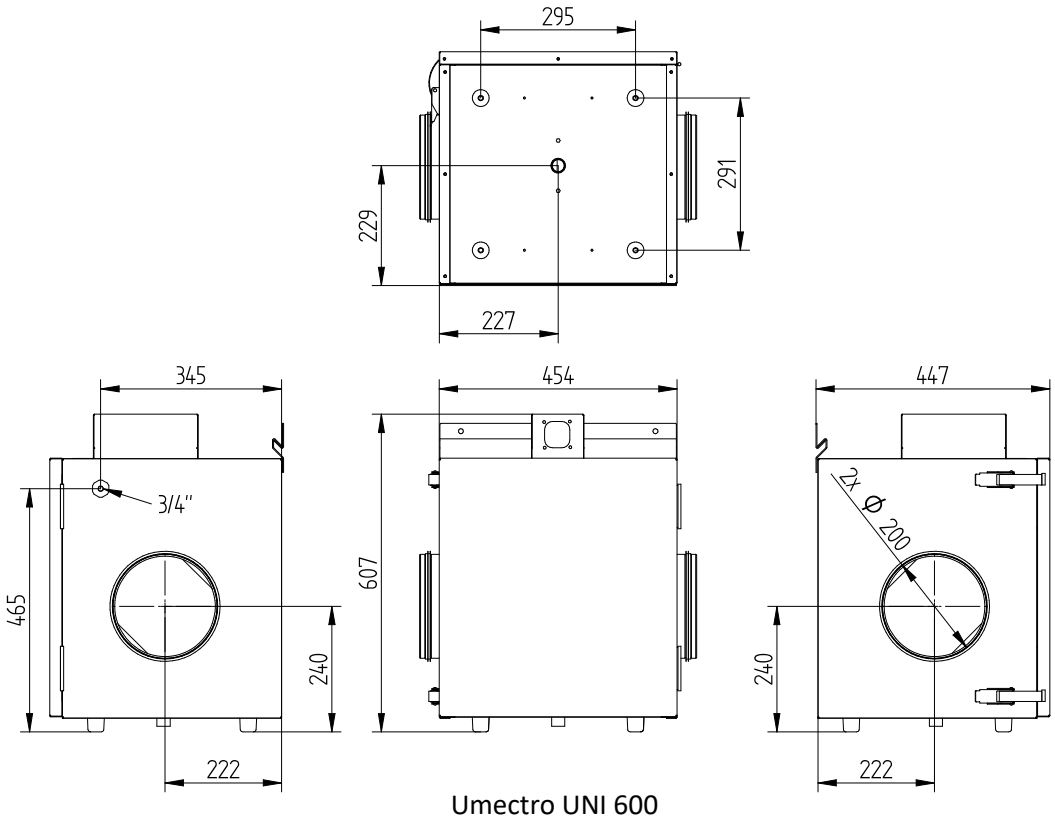
7.2. Removing the spray nozzles

If the water is too hard, the spray nozzle may become blocked. A blocked nozzle should be removed, taken apart and cleaned with a descaling agent, or replaced with a new one. To remove the spray nozzles, remove the humidifier mats as described in section 6.1. Unscrew the screws securing the spray nozzle covers and remove the cover. To remove a nozzle, press the locking ring whilst pulling the nozzle in the opposite direction. Refit the nozzles in the reverse order.

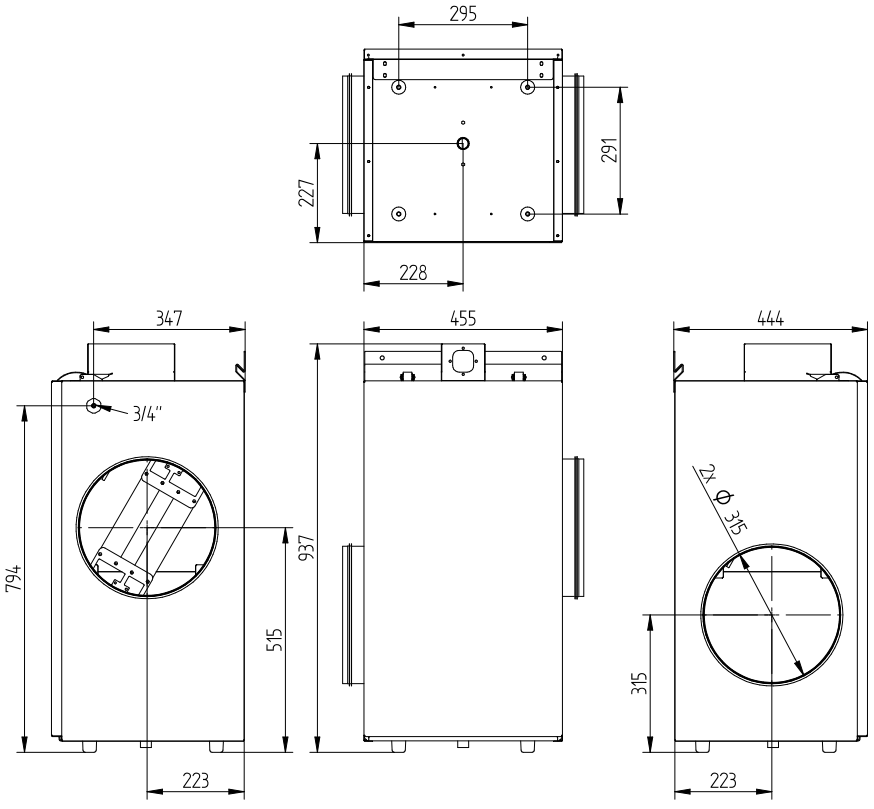


During maintenance, the drip tray should be cleaned.

8. Dimensions



Umectro UNI 600

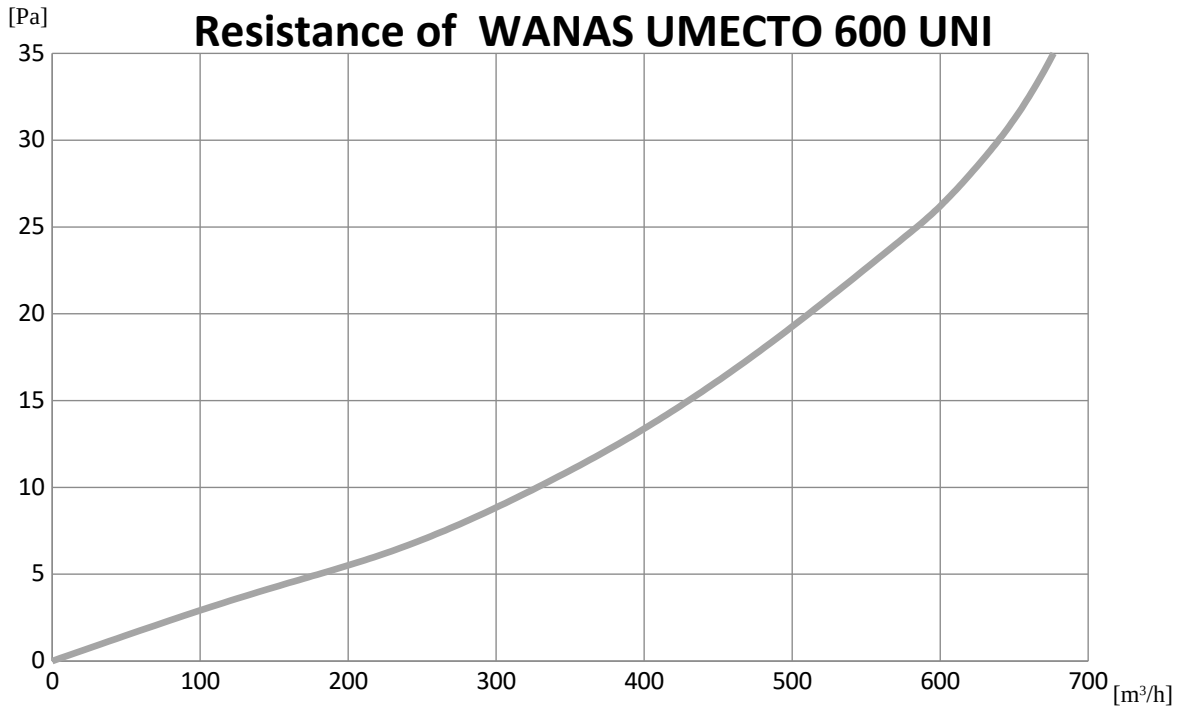


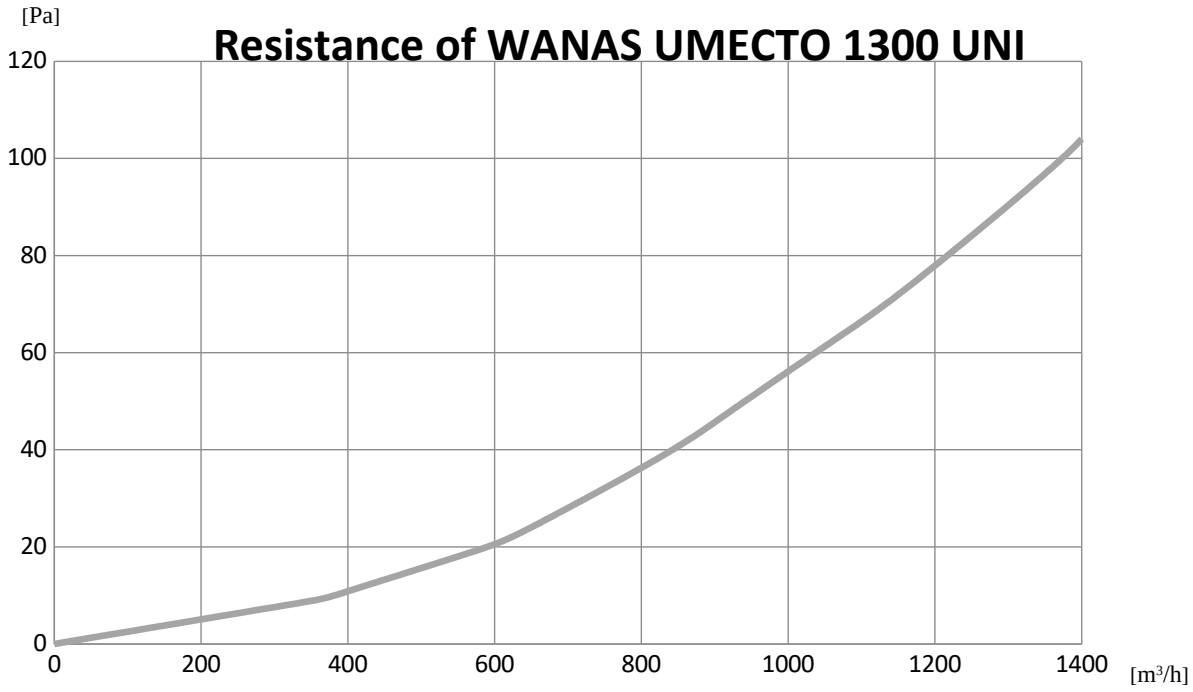
Umectro UNI 1300

9. Technical parameters

Technical parameters	Unit of measurement	UMECTO 600	UMECTO 1300
Max air flow	m^3/h	600	1300
Energy consumption	W	2-18	2-18
Power supply	V/Hz	230/50	30/50
Diameter of air connections	mm	200	315
Height/width/depth	mm	607/455/450	937/455/450
Weight	kg	22	36
Heater power	W	1000	2000
Nominal water consumption	l/h	2,8	5,6
Air resistance at 200 m^3/h	Pa	6	11
Diameter of the connection spigot	cal	3/4	
Water pressure	MPa	0,15-0,6	
Water temerature	Min/max	5-20	
Ambient temperature	Min/max	5-45	
Water hardness	Max mg $CaCo_3$	200	

Examples of parameter measurements	Unit of measurement	At 130 m^3/h	At 300 m^3/h
Active humidifier heater		Yes	yes
Nozzles type	mm	0,2	0,2
Water pressure	bar	2,7	2,7
Solenoid valve opening time	min	2	2
Solenoid valve closing time	min	2	2
Outside temperature	°C	-1,4	1,4
Temperature before the humidifier	°C	17,5	16,1
Humidity before the humidifier	%	21,6	24
Temperature downstream of the humidifier	°C	15,1- 15,2	13,5-13,6
Humidity downstream of the humidifier	%	60-62	50-52
Volume of water discharged into the sewerage	l/h	0,99	0,58
Volume of water supplied to the building	l/h	0,51	0,92
Humidity of the supply air at 20°C	%	45-46	34-35
Absolute humidity of the supply air	g/m^3	7,77-7,98	5,87-6,07


Resistance of WANAS UMECTO 600 UNI
[Pa]
35
30
25
20
15
10
5
0
0
100
200
300
400
500
600
700
[m³/h]


Resistance of WANAS UMECTO 1300 UNI
[Pa]
120
100
80
60
40
20
0
0
200
400
600
800
1000
1200
1400
[m³/h]

10. Warranty and Service

10.1. Service

All faults must be reported to WANAS, providing a detailed description of the problem in the form „Zgłoszenia serwisowego" available on website www.wanas.pl in tab „Kontakt". Complaints made during the warranty period will be considered within 14 days and resolved within 30 days of the date of submission. The code required to unlock the controller can be obtained from the retailer.

10.2. Warranty

- The manufacturer provides a 24-month warranty covering the correct operation of the device
- The warranty period begins on the date the user purchases the device
- The warranty is granted and valid upon presentation of the proof of purchase for the control unit
- The warranty does not cover faults arising from incorrect use, maintenance or installation of the device
- The air handling unit should operate continuously from the moment it is first switched on, except when maintenance work is being carried out.
- The manufacturer accepts no liability for faults arising from a power cut
- The warranty does not cover damage caused by power surges or lightning strikes
- The cost of an unjustified service call is borne by the customer
- The company provides maintenance services throughout Poland.
- The warranty does not cover devices in which spare parts not recommended by the manufacturer have been used. Information on spare parts is available in the service section.
- The warranty is valid provided that the user uses only genuine WANAS filters.

Kontakt dział serwisu	
Tel:	+48 535 958 222
Zgłoszenie serwisowe	Kliknij tutaj