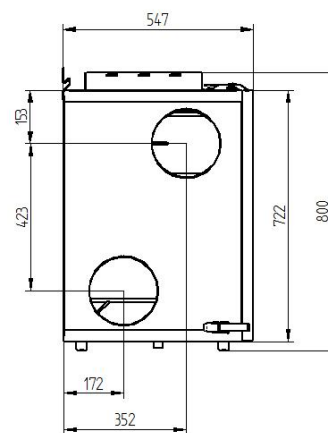
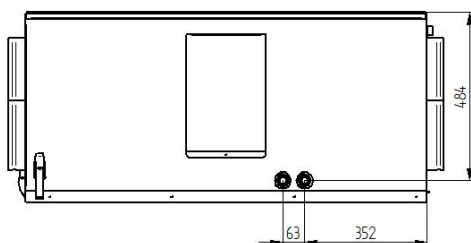
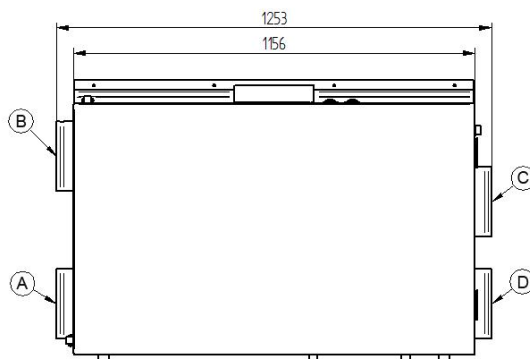
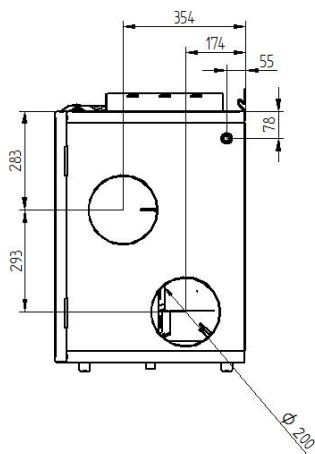


## SPECIFICATION SHEET OF WANAS COMBO 430 XF

**A**



- A** - outdoor air
- B** - extract air
- C** - supply air
- D** - exhaust air



LEFT VERSION

### ecodesign RVU DATA OF THE WANAS COMBO 430 XF

| Name or trade mark of the supplier                    | Unit                        | Value                        |
|-------------------------------------------------------|-----------------------------|------------------------------|
| Maximum value of the flow rate                        | m <sup>3</sup> /h           | 430                          |
| Compression at 430 [m <sup>3</sup> /h]                | Pa                          | 100                          |
| Energy consumption                                    | W                           | 17-161                       |
| Preheater power                                       | W                           | 1000                         |
| Supply                                                | V/Hz                        | 230/50                       |
| Diameter of stub pipes                                | mm                          | 200                          |
| Height / width / depth                                | mm                          | 800/1253/547                 |
| Weight                                                | kg                          | 89                           |
| Filter class                                          | -                           | ISO COARSE 75% / ePM 10 50%  |
| Ventilated surface of the building up to:             | m <sup>2</sup>              | 250                          |
| Layout of stub pipes                                  | -                           | Horizontal                   |
| SEC under average climate conditions                  | kWh/(m <sup>2</sup> /year)  | -38,09                       |
| SEC under cool climate conditions                     | kWh/(m <sup>2</sup> / year) | -74,61                       |
| SEC under warm climate conditions                     | kWh/(m <sup>2</sup> / year) | -14,55                       |
| SEC class                                             | -                           | A                            |
| Declared type                                         | -                           | Bi-directional               |
| Type of drive installed                               | -                           | Variable speed drive         |
| Type of heat recovery system                          | -                           | Recuperative                 |
| Performance acc. to EU 1254/2014, dT=13°C, SWM        | %                           | 80,8                         |
| Electric power input of the fan drive                 | W                           | 153                          |
| Sound power level L <sub>WA</sub>                     | dB(A)                       | 49                           |
| Reference flow rate                                   | m <sup>3</sup> /s           | 0,084                        |
| Reference pressure difference                         | Pa                          | 50                           |
| Specific power input                                  | W(m <sup>3</sup> /h)        | 0,233                        |
| Controls type factor and controls type                | -                           | 0.85; Central demand control |
| Maximum internal leak rate                            | %                           | 1,3                          |
| Maximum external leak rate                            | %                           | 2,7                          |
| Position and description of visual filter warning     | -                           | Display                      |
| Filter warning description in the manual              | -                           | YES                          |
| Address of the website with the assembly instructions | -                           | www.wanas.pl                 |
| Annual electricity consumption                        | kWh/year/m <sup>2</sup>     | 2,55                         |
| Annual heating saved (average climate)                | KWh/m <sup>2</sup>          | 43,81                        |
| Annual heating saved (cold climate)                   | kWh/m <sup>2</sup>          | 85,70                        |
| Annual heating saved (warm climate)                   | kWh/m <sup>2</sup>          | 19,81                        |
| Electric power input of the humidifier                | W                           | 2-18                         |
| Humidifier heater power                               | W                           | 1000                         |
| Average water consumption**                           | l/h                         | 2,8                          |
| Water pressure range                                  | MPa                         | 0,15-0,6                     |
| Water temperature range                               | °C                          | 5-20 (Min/max)               |
| Temperature range                                     | °C                          | 5-45 (Min/max)               |
| Max. water hardness                                   | mg CaCO <sub>3</sub>        | 200                          |

Data in the table in accordance with EU Directive 1253/2014 and EU 1254/2014 for Residential Ventilation Systems

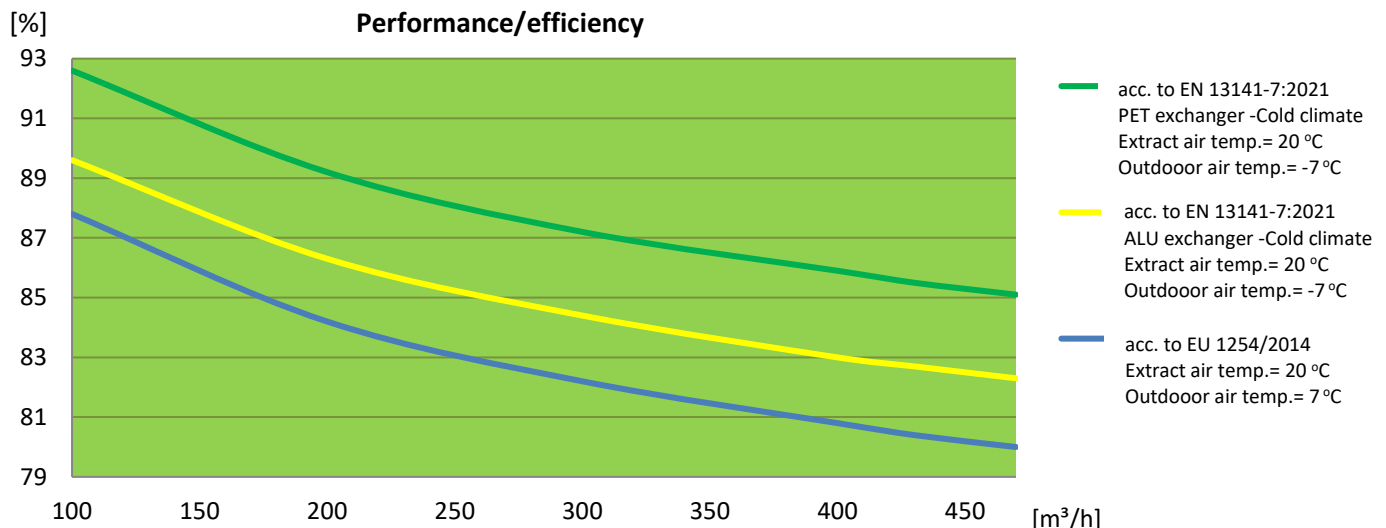
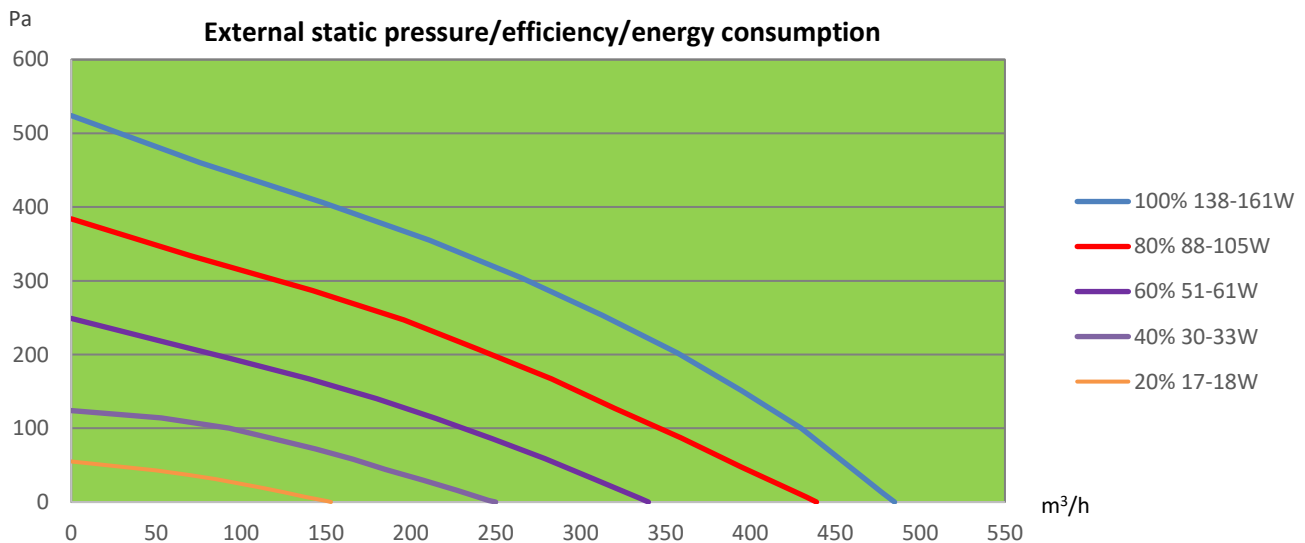
\*\* Water pressure 0,3 MPa and factory settings.

## RECUPERATOR DESCRIPTION WANAS COMBO 430 XF:

The WANAS COMBO 430 XF is designed for buildings with an area of up to 250m<sup>2</sup>.

### PRODUCT ADVANTAGES:

- Wireless **miniControl sensor** – measure the humidity and temperature in a room
- **Built-in evaporative humidifier** - ensure an appropriate level of humidity in the rooms
- Polystyrene counterflow heat exchanger with higher heat recovery
- **Built-in XF system** - automatic flow balancing system
- Communication protocol **MODBUS RTU**
- Very low energy consumption 17-161 W
- Flexible speed adjustment of AHU unit - **1-100 %**
- **3 algorithms** to protect the exchanger against freezing
- Automatic pre-heater SMART HEATER - included in the price of the device
- Automatic **100% Bypass** - included in the price of the device
- Touch, easy-to-use controller - included in the price of the device
- Robust non-flammable structure – no Styrofoam elements
- Latest generation energy-saving EC fans
- Possibility to control the air handling unit via the Internet



| LIST OF THE OPTIONS OF THE WANAS 430 COMBO XF AIR HANDLING UNIT |                                                                                                                                                                                                                   |                                   |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| FUNCTION                                                        | DESCRIPTION                                                                                                                                                                                                       | INCLUDED IN THE PRICE OF THE UNIT |
| CONTROLLER                                                      | Touch controller: Surface- or flush-mounted                                                                                                                                                                       | YES                               |
| BYPASS                                                          | Automatic bypass with the protection from an accidental start-up                                                                                                                                                  | YES                               |
| HEATER                                                          | Automatic SMART PREHEATER 1000 W                                                                                                                                                                                  | YES                               |
| HUMIDIFIER HEATER                                               | Automatic SMART PREHEATER 1000 W                                                                                                                                                                                  | YES                               |
| WEEKLY PROGRAM                                                  | Programming of the AHU for the entire week                                                                                                                                                                        | YES                               |
| PARTY                                                           | The function allows the operation of the AHU with the maximum capacity for the period specified by the user                                                                                                       | YES                               |
| FIREPLACE                                                       | The equipment works to generate overpressure in the building so that no smoke leaks while putting the fuel into the fireplace                                                                                     | YES                               |
| HOLIDAY                                                         | The AHU may work with reduced performance when you are on holiday                                                                                                                                                 | YES                               |
| REPLACEMENT OF THE FILTERS                                      | The AHU reminds the user that the filters need to be replaced                                                                                                                                                     | YES                               |
| GROUND-COUPLED HEAT EXCHANGER                                   | The equipment may work with the ground-coupled heat exchanger                                                                                                                                                     | YES                               |
| PERFORMANCE                                                     | Fluid adjustment of the performance on every gear                                                                                                                                                                 | YES                               |
| COOLER                                                          | The equipment may be connected with a secondary cooler or lower source from the heat pump                                                                                                                         | YES                               |
| HEATER                                                          | Possible connection and controls of the secondary cooler                                                                                                                                                          | YES                               |
| CO <sub>2</sub> / HUMIDITY / BATHROOM SWITCH                    | The recuperator works with external sensors, increasing or decreasing its capacity depending on needs                                                                                                             | YES                               |
| ALARM                                                           | The recuperator may be connected to an alarm unit so that the unit works with minimum efficiency after leaving home                                                                                               | YES                               |
| GAS BOILER                                                      | The unit controller may be a gas boiler operating as a thermostat                                                                                                                                                 | YES                               |
| FROST PROTECTION SYSTEM                                         | As the only unit on the market, our AHU has 3 protective measures of the exchanger against freezing to be selected by the user/installer                                                                          | YES                               |
| INTERNET                                                        | The recuperator has functions which enable remote control via the Internet with mobile devices or computer after buying the additional module WANAS MOBILE CONTROL W-15 or module WANAS MOBILE CONTROL W-19 Wi-Fi | NO                                |
| ASSEMBLY KIT                                                    | The handle for mounting the recuperator on the wall, pegs for the assembly of the handle, RJ12 connector, flush-mounted box, trap.                                                                                | YES                               |
| WATER HEATER-COOLER                                             | Heater-cooler „Ready”                                                                                                                                                                                             | OPTION                            |
| HUMIDIFIER                                                      | Built-in                                                                                                                                                                                                          | YES                               |
| HUMIDIFIER SENSOR                                               | miniControl wireless humidity sensor                                                                                                                                                                              | YES                               |

Warning: The unique solutions used in COMBO recuperators are protected by a Polish patent. Due to the continuous improvement of our products, we reserve the right to change the above technical parameters without prior notice.