



iNEXT



ENTHALPY EXCHANGER



CONSTANT FLOW



MODBUS



MODULATED HEATER



ENERGY EFFICIENCY



MATERIAL

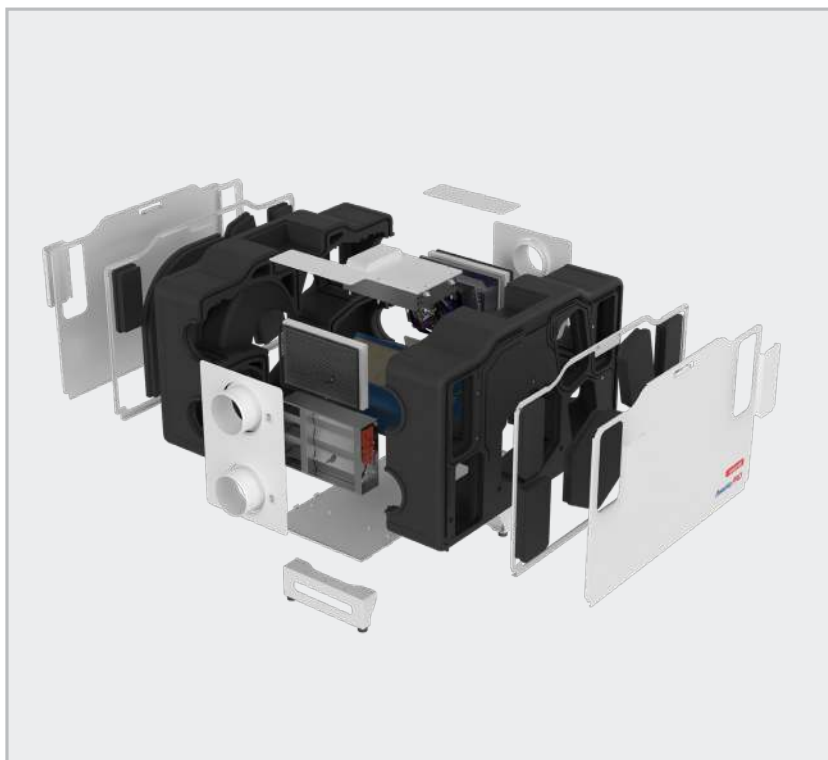
# Arius Series

VAH305, VAH405, VAH505, VAH605

## RECUPERATOR FEATURES

NOVELTY

- Installation position - wall-mounted (no brackets for wall mounting) or floor-standing
- Counterflow heat exchanger with the efficiency of up to 95%
- Energy-efficient fans with the EC Ziehl-Abegg and EBM papst motors
- Automatic bypass, 100% isolated
- Modulating preheat coil with variable operating parameters
- Excellent insulation thanks to the use of the EPP (expanded polypropylene) housing
- Leak tight structure preventing the penetration of odours and pollutants from the exhaust air into the supply air
- Mobile application for smartphones – Android, iOS and possible remote control by using webpage (iNext module required)
- Automatic flow control system (constant flow) - in CF versions
- Equipped with two filters (M5/ISO ePM10)
- Possibility of using fine filters (F7/ISO ePM1) with higher filtration class
- Possibility of using reusable pre-filter
- Possible interoperation with the air quality, carbon dioxide and humidity sensor (VSPM, VSHC, VSHW)
- Option of cleaning heat exchanger
- Long service life
- Scratch resistance of painted parts at a value of 5 H
- Animicrobial properties of painted parts according to ASTM E2149-13a
- Possible remote control via MODBUS RTU protocol



### Supplementary products

#### FILTERS



# PRODUCT DATA SHEET

optional equipment



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## Arius Series

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### TECHNICAL INFORMATION

| INDEX   | ARIUS 305   |  | ARIUS 305 Enthalpy      |  | ARIUS 405             |  | ARIUS 405 Enthalpy      |  |
|---|---|--|-------------------------|--|-----------------------|--|-------------------------|--|
|   | VAH305  |  | VAH305E                 |  | VAH405                |  | VAH405E                 |  |
| Supply voltage                                    | 230 V AC / 50 Hz  |  |                         |  |                       |  |                         |  |
| IP protection class                               | IP33  |  |                         |  |                       |  |                         |  |
| Preheat coil power                                | 2 000 W   |  |                         |  |                       |  |                         |  |
| Max. power consumption (without preheat coil)     | 130 W   |  | 125 W                   |  | 210 W                 |  | 200 W                   |  |
| Capacity (at 100 Pa)                              | 317 m <sup>3</sup> /h                                     |  |                         |  | 413 m <sup>3</sup> /h |  |                         |  |
| Maximum engine speed                              | 3 050 RPM   |  | 3 100 RPM               |  | 3 700 RPM             |  | 3 600 RPM               |  |
| Noise level                                       | 39 dB(A)  |  | 38 dB(A)                |  | 43 dB(A)              |  | 42 dB(A)                |  |
| Type of heat exchanger                            | Countercurrent  |  | Countercurrent Enthalpy |  | Countercurrent        |  | Countercurrent Enthalpy |  |
| Max. heat recovery efficiency                     | up to 95%   |  | up to 90%               |  | up to 95%             |  | up to 90%               |  |
| Heat exchanger material                           | Polystyrene   |  |                         |  |                       |  |                         |  |
| Housing material                                  | EPP + powder coated steel                                 |  |                         |  |                       |  |                         |  |
| Filter - intake vent                              | VM5AH405 - M5 ISO ePM10 (optional VF7AH405 - F7 ISO ePM1) |  |                         |  |                       |  |                         |  |
| Filter - exhaust                                  | VM5AH405 - M5 ISO ePM10                                   |  |                         |  |                       |  |                         |  |
| Pre-filter intake / exhaust                       | VFWAH405 (optional)                                       |  |                         |  |                       |  |                         |  |
| Diameter of air connector                         | 160 mm  |  |                         |  |                       |  |                         |  |
| Diameter of condensate drain connector            | 32 mm   |  |                         |  |                       |  |                         |  |
| Controller type                                   | AERO AP + AWENTA CONTROL                                  |  |                         |  |                       |  |                         |  |
| Bypass  | Automatic 100%  |  |                         |  |                       |  |                         |  |
| Fans  | 2x radial fan with EC motor                               |  |                         |  |                       |  |                         |  |
| System Constant Flow                              | YES, depend on version                                    |  |                         |  |                       |  |                         |  |
| Modbus RTU Communication                          | YES   |  |                         |  |                       |  |                         |  |
| Internet module                                   | VLAN iNEXT (optional)                                     |  |                         |  |                       |  |                         |  |
| Air quality sensor                                | VSPM (optional)   |  |                         |  |                       |  |                         |  |
| CO <sub>2</sub> concentration and humidity sensor | VSHC (optional)   |  |                         |  |                       |  |                         |  |
| Humidity sensor                                   | VSHW (optional)   |  |                         |  |                       |  |                         |  |
| Weight  | 48 kg   |  | 46 kg                   |  | 48 kg                 |  | 46 kg                   |  |

| INDEX   | ARIUS 505   |  | ARIUS 505 Enthalpy       |  | ARIUS 605             |  | ARIUS 605 Enthalpy       |  |
|---|---|--|--------------------------|--|-----------------------|--|--------------------------|--|
|   | VAH505  |  | VAH505E                  |  | VAH605                |  | VAH605E                  |  |
| Supply voltage                                    | 230 V AC / 50 Hz  |  |                          |  |                       |  |                          |  |
| IP protection class                               | IP33  |  |                          |  |                       |  |                          |  |
| Preheat coil power                                | 2 000 W   |  |                          |  |                       |  |                          |  |
| Max. power consumption (without preheat coil)     | 245 W   |  |                          |  | 340 W                 |  |                          |  |
| Capacity (at 100 Pa)                              | 513 m <sup>3</sup> /h                                     |  |                          |  | 615 m <sup>3</sup> /h |  | 590 m <sup>3</sup> /h    |  |
| Maximum engine speed                              | 3 900 RPM   |  | 3 850 RPM                |  | 4 400 RPM             |  |                          |  |
| Noise level                                       | 43 dB(A)  |  |                          |  | 45 dB(A)              |  |                          |  |
| Type of heat exchanger                            | Countercurrent  |  | Countercurrent Enthalpic |  | Countercurrent        |  | Countercurrent Enthalpic |  |
| Max. heat recovery efficiency                     | up to 95%   |  | up to 90%                |  | up to 95%             |  | up to 90%                |  |
| Heat exchanger material                           | Polystyrene   |  |                          |  |                       |  |                          |  |
| Housing material                                  | EPP + powder coated steel                                 |  |                          |  |                       |  |                          |  |
| Filter - intake vent                              | VM5AH605 - M5 ISO ePM10 (optional VF7AH605 - F7 ISO ePM1) |  |                          |  |                       |  |                          |  |
| Filter - exhaust                                  | VM5AH605 - M5 ISO ePM10                                   |  |                          |  |                       |  |                          |  |
| Pre-filter intake / exhaust                       | VFWAH605 (optional)                                       |  |                          |  |                       |  |                          |  |
| Diameter of air connector                         | 200 mm  |  |                          |  |                       |  |                          |  |
| Diameter of condensate drain connector            | 32 mm   |  |                          |  |                       |  |                          |  |
| Controller type                                   | AERO AP + AWENTA CONTROL                                  |  |                          |  |                       |  |                          |  |
| Bypass  | Automatic 100%  |  |                          |  |                       |  |                          |  |
| Fans  | 2x radial fan with EC motor                               |  |                          |  |                       |  |                          |  |
| System Constant Flow                              | YES, depend on version                                    |  |                          |  |                       |  |                          |  |
| Modbus RTU Communication                          | YES   |  |                          |  |                       |  |                          |  |
| Internet module                                   | VLAN iNEXT (optional)                                     |  |                          |  |                       |  |                          |  |
| Air quality sensor                                | VSPM (optional)   |  |                          |  |                       |  |                          |  |
| CO <sub>2</sub> concentration and humidity sensor | VSHC (optional)   |  |                          |  |                       |  |                          |  |
| Humidity sensor                                   | VSHW (optional)   |  |                          |  |                       |  |                          |  |
| Weight  | 54 kg   |  | 52 kg                    |  | 52 kg                 |  | 57 kg                    |  |

PRODUCT DATA SHEET

optional equipment



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MATERIAL

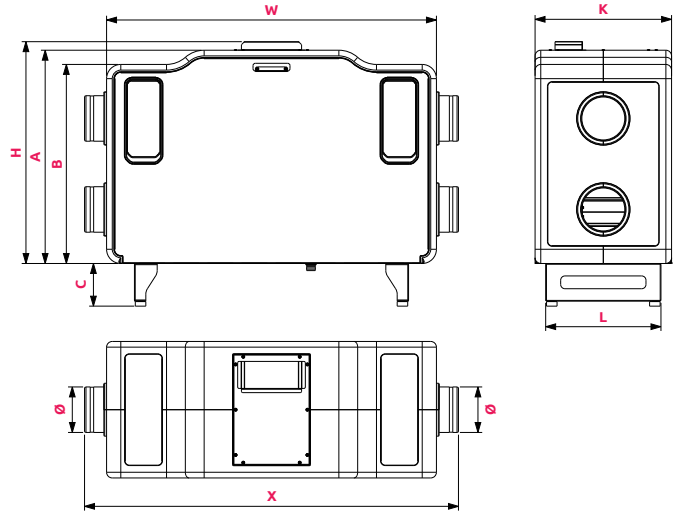
**Arius Series**

VAH305, VAH405, VAH505, VAH605

ARIUS - floor-standing unit

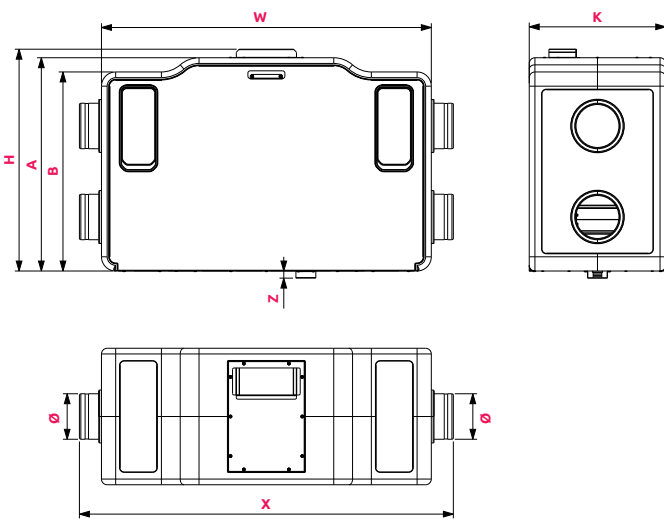


**DIMENSIONS**



|        | Ø   | H   | A   | B   | K   | W     | X     | Z  | L   | C   |
|--------|-----|-----|-----|-----|-----|-------|-------|----|-----|-----|
| VAH305 | 160 | 780 | 750 | 700 | 480 | 1 160 | 1 315 | 25 | 405 | 150 |
| VAH405 | 160 | 780 | 750 | 700 | 480 | 1 160 | 1 315 | 25 | 405 | 150 |
| VAH505 | 200 | 780 | 750 | 700 | 580 | 1 160 | 1 313 | 25 | 505 | 150 |
| VAH605 | 200 | 780 | 750 | 700 | 580 | 1 160 | 1 313 | 25 | 505 | 150 |

**DIMENSIONS**



ARIUS - wall-mounted unit



# PRODUCT DATA SHEET

optional equipment

## Arius Series

VAH305, VAH405, VAH505, VAH605



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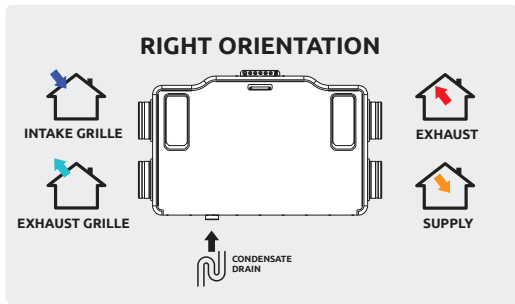
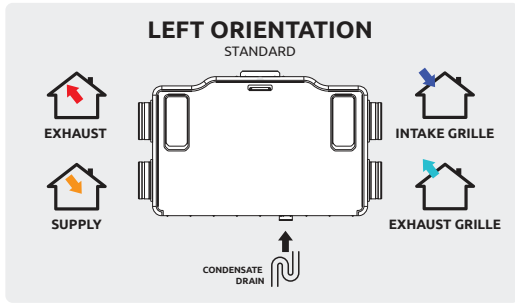
MODULATED HEATER



ENERGY EFFICIENCY



MATERIAL

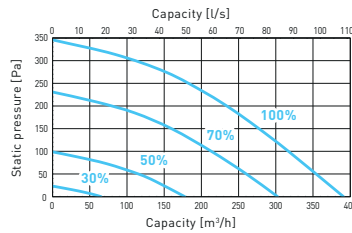


| Model     | Configuration                | CF | Entalpy Exchanger |
|-----------|------------------------------|----|-------------------|
| VAH305    | Recuperator ARIUS (standard) |    |                   |
| VAH305E   | Recuperator ARIUS (standard) |    | ●                 |
| VAH305CF  | Recuperator ARIUS (standard) | ●  |                   |
| VAH305CFE | Recuperator ARIUS (standard) | ●  | ●                 |
| VAH405    | Recuperator ARIUS (standard) |    |                   |
| VAH405E   | Recuperator ARIUS (standard) |    | ●                 |
| VAH405CF  | Recuperator ARIUS (standard) | ●  |                   |
| VAH405CFE | Recuperator ARIUS (standard) | ●  | ●                 |
| VAH505    | Recuperator ARIUS (standard) |    |                   |
| VAH505E   | Recuperator ARIUS (standard) |    | ●                 |
| VAH505CF  | Recuperator ARIUS (standard) | ●  |                   |
| VAH505CFE | Recuperator ARIUS (standard) | ●  | ●                 |
| VAH605    | Recuperator ARIUS (standard) |    |                   |
| VAH605E   | Recuperator ARIUS (standard) |    | ●                 |
| VAH605CF  | Recuperator ARIUS (standard) | ●  |                   |
| VAH605CFE | Recuperator ARIUS (standard) | ●  | ●                 |

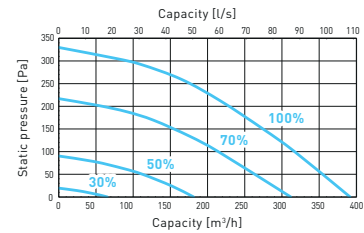
## CAPACITY

### ARIUS 305

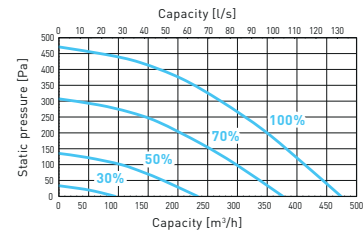
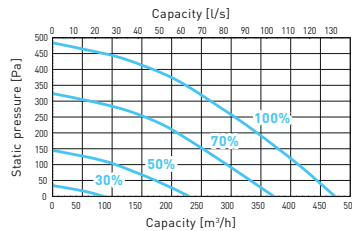
STANDARD VERSION



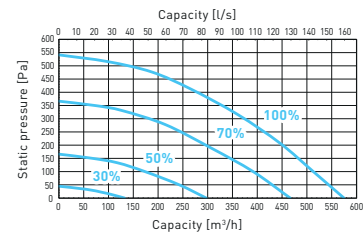
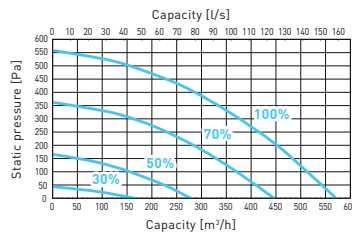
ENTHALPY HEAT EXCHANGER VERSION



### ARIUS 405



### ARIUS 505



### ARIUS 605

