

# RRU ECO



## Specifications

### Sizes

- Housing 600 - 2550 mm
- variable dimensions at millimetre intervals
- minimum installation depth 290 mm

### Housing

- galvanised steel construction
- optional enclosed housing with access for inspection
- optional liquid paint in all RAL colours
- Purge section available in two sizes (2.5 or 5°)

### Installation position

- vertical

### Storage mass types

- **Type P**  
Condensation, aluminium storage mass (standard)
- **Type K**  
Epoxy-coated storage mass (corrosion protection)
- **Type E**  
Hybrid storage mass zeolite / aluminium (increased moisture transfer)
- **Type N**  
Zeolite-coated storage mass (maximum moisture transfer)

### Wave heights

- 1.4, 1.6, 1.8, 2.0, 2.2, 2.4 mm

### Sealing system

- Brush seal (standard)

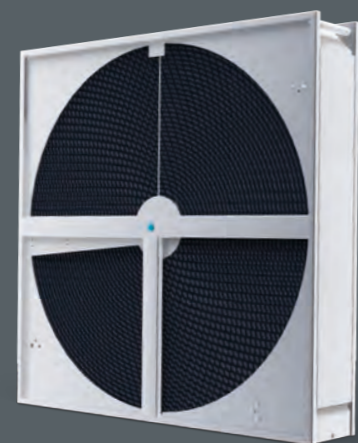
### Drive systems



- Stepper motor system, control unit with analogue and Modbus interface



- optional three-phase asynchronous motors (with control unit for variable speeds or used as constant drive)



## Rotary heat exchanger

# RRU ECO



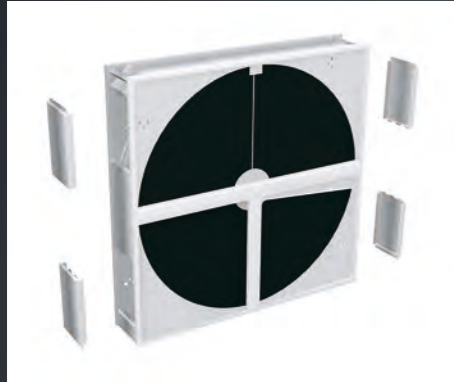
40 YEARS

RRU ECO 0420 en

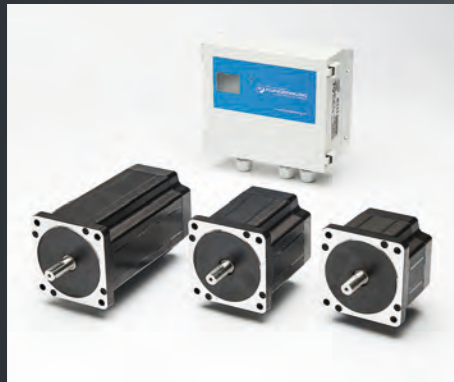
40 YEARS

**Safe lifting - certified**  
 TÜV-certified construction with safe anchor points

**Flush housing**  
 The absence of any protrusions due to screw/rivet heads or sheet metal edges ensures positive-locking installation and perfect sealing. 25mm edging provides sufficient contact surface for anchoring.



**Side cladding**  
 The housing is available in an enclosed version with fitted panels. They correspond in material quality and thickness to the other metal sheets used for cladding and are connected by means of plastic expanding rivets which serve as quick fasteners.



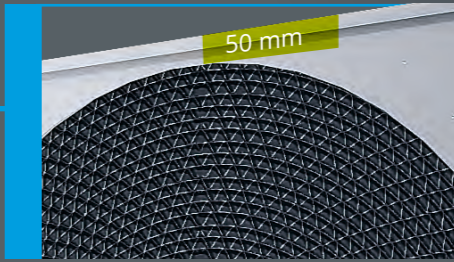
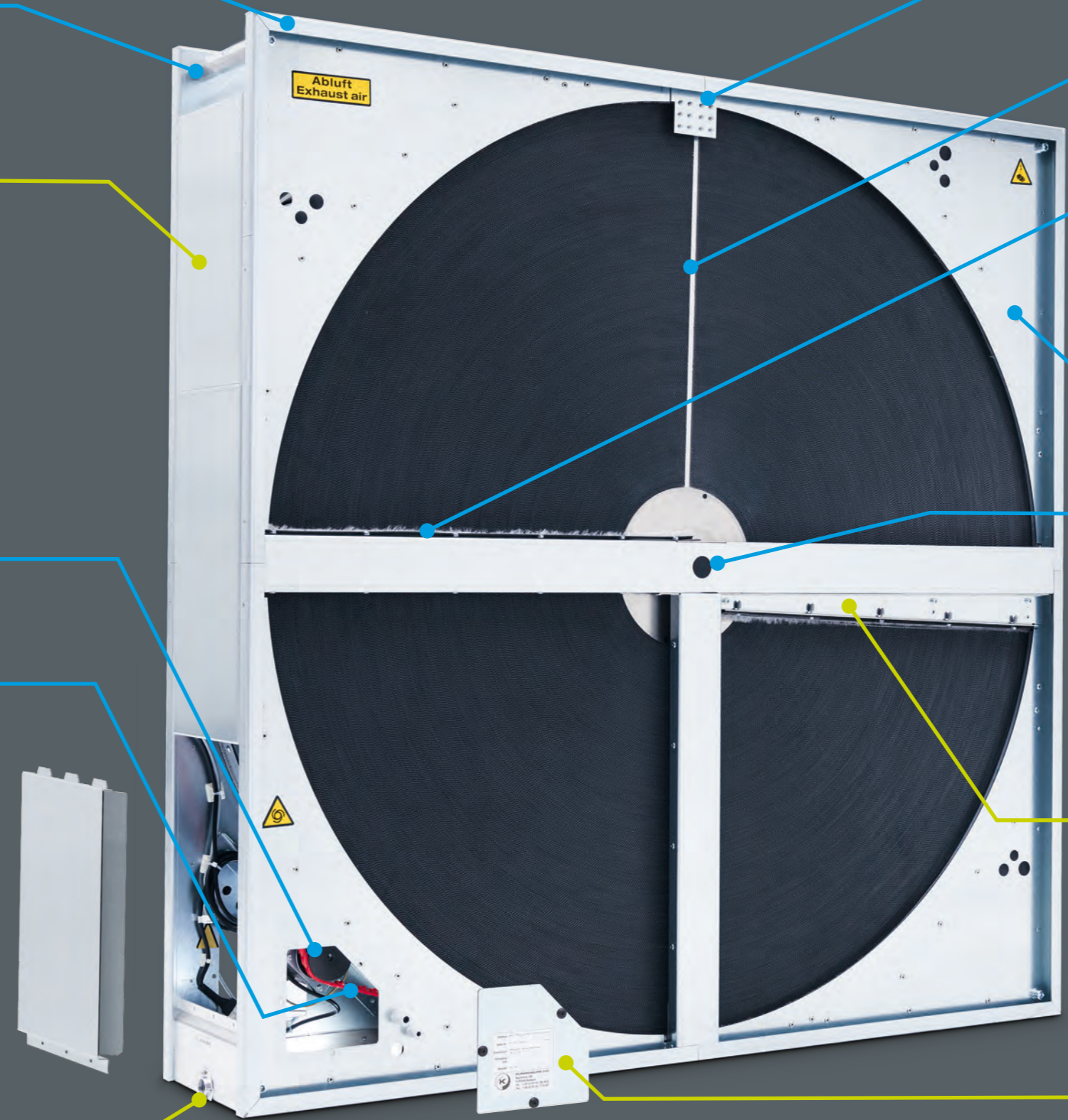
**Intelligent drive system**  
 Drive system with practically infinitely variable speed over the entire power range. Highly efficient stepper motors deliver constant torque with low power consumption. In addition to 0-10V signal input, all control units are basically equipped with a Modbus interface and intelligent electronic rotation monitoring.



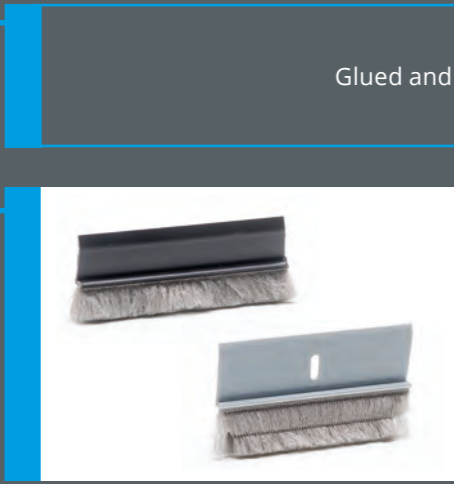
**POWERWIST drive belt**  
 Irrespective of size and drive system, only POWERWIST V-belts are used in profiles A13/Z10. The belts are pre-stretched and are only subject to a fraction of the linear expansion of other products. The belts are made of an extremely durable PU with fabric inlay, can be replaced without tools and are characterised by high resistance to moisture, oils and fats, as well as common household chemicals and solvents.



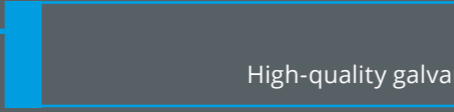
**Condensate drip tray**  
 A condensate drip tray made of corrosion-resistant aluminium alloy can be used as an option to collect any condensate or cleaning liquid that accumulates in the bottom of the rotor housing and lead it out of the air-conditioning unit. The condensate drip tray is flush with the outside of the housing and has a 3/4" inner thread as connection.



**50 mm wheel-frame difference**  
 With housing dimensions of 600 to 2550 mm, the distance between the storage mass and housing is just 50mm, and this with a minimum installation depth of just 290 mm. This means: more power and less pressure loss with the same cross-sectional area in the air conditioner.



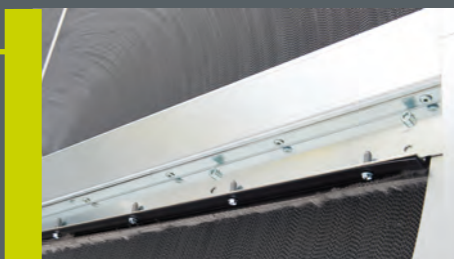
**Adjustable sealing system**  
 The RRU ECO is supplied with a high-quality brush seal, which, fixed on the circumference, rotates with the storage mass and seals against the housing. A double filament with integrated web ensures low leakage. In contrast to sealing brushes, which work against the rotor profile of the storage mass, this design generates less friction and is therefore less subject to wear.



**Solid housing**  
 High-quality galvanised steel construction in 2 mm sheet thickness across all components.



**Central axle adjustment**  
 Tilting of the storage mass in the housing can be compensated in both axles if necessary.



**Purge section**  
 Optionally, the housing can be equipped with a purge section, available in two sizes to suit the pressure situation: 2.5 or 5°. This minimises the co-rotation of exhaust extract air into the supply air and keeps fresh air losses as low as possible.



**Inspection openings**  
 From a storage mass diameter of 1201 mm, inspection doors can be provided on the upstream and downstream sides, which are suitable for visual inspection or replacement of the drive, depending on the size.