

RRU ECO



Specifications

Sizes

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

Housing

- galvanised steel construction
- optional magnelis construction
- optional purge section
- optional condensate drip tray
- optional inspection openings
- optional side cladding
- optional controller retaining plate 90°

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



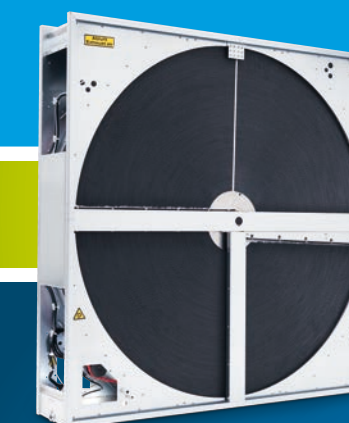
- optional three-phase asynchronous motors (with control unit for variable speeds or used as constant drive)



40 YEARS

RRU ECO 01/26 en

Klingenburg GmbH • Brüsseler Str. 77 • D-45968 Gladbeck
Tel: +49-(0) 20 43-96 36 0 • E-mail: info@klingenburg.de
www.klingenburg.de



Rotary heat exchanger

RRU ECO

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.

POWERTWIST drive belt

Irrespective of size and drive system, only POWERTWIST 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.

Maximum stability

Glued and welded double spokes, ensuring maximum stability of the storage mass. Flush construction for better sealing.

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 axes 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.