
Klingenburg Regenerative Rotating Heat Exchanger



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Product description

Control unit for stepless variable rotation speed for rotary heat exchangers.

KR4 with 400 watt

or

KR7 with 750 watt

Integrated frequency converter in combination with standard three-phase AC motor, applicable for all manufactures.

Integrated acceleration- and deceleration ramp for the protection of the motor gear.

Menu controlled operating by the means of three push-buttons, with LC display, for parameter setting and function inquiry or readout of error message.

Optional multilingual and project oriented individual display statements acc. to customer wish.

- Latest processor technology
- Low current consumption
- High operating safety
- Short- and earth-circuit proof output, shielded
- Potential free processing- and fault display
- Free potential 2 -Point sequence output
- Option for analogue actual data output
- Adjustable external signal inputs, 0-10 V (basic setting), 0-20 mA respectively 4-20 mA
- Menu controlled programming
- Clear text display via LC-Display, with the possibility of switching from one language to the other.
- Tested according to CE, EN 55011, EN 61000 - 3, EN 61000 - 4 - 2, EN 61000 - 4 - 4 (Burst), EN 61000 - 4 - 5 (Surge), EN 61800 - 3.

Controller casing made of extruded aluminium profile for better heat absorption, increase of mechanical stability and optimal electrical shielding.

Protection class IP54

Standard integrated Rotor operating control via optional proximity switch
(for types KR4-R and KR7-R always include.)

Thermal protection or posistor protections system against overheat. Thermal contact evaluation is regularly integrated or alternatively achieved through posistor connection as an additional function.

Self-cleaning operation via regular cleaning-cycle during stop-periods. The cleaning-cycle is presetted for a 20 minutes period and variable in steps.

Through optional additional circuit board (Z) and connection of temperature- respectively enthalpy sensors, the controller can be extended to following functions:

- 2 point sequence output for control other sequences, with adjustable switching threshold.
- Setting supply air temperature
- Switch over to summer operating mode for cool recovery through measuring of outside air temperature.
- Energy selection logic by the means of temperature comparison of outside air- and extract air
- Energy selection logic by the means of enthalpy comparison of outside air- and extract air