





A subsidiary of VINC

# CLEANING SYSTEM

Fully automatic rotor cleaning system for heat exchangers used in a heavily polluted environment.

During the rotary heat exchanger operation, even with the use of a top quality filtration, the rotor channels are subject to gradual silting (dust, impurities, grease, sticky aerosols etc.). Such contamination contributes to reduction of exchanger output, increase of pressure loss and in extreme cases even to rotor failure. For rotary heat exchangers operated in a strongly polluted areas (such as paint shops, rubber or heavy industry), Kastt offers a fully automatic rotor cleaning system.



# **Key benefits**

- Rotor cleaning at air-handling unit operation
- Fully automatic cleaning process
- Automatic system activation (no operator needed)
- Variable location of cleaning unit
- Adjustable rotor cleaning intensity

# For more information visit www.kastt.cz

#### **Cleaning unit location** Mechanical part of the system is located in front of the rotor, in the exhaust air channel, at the angle of approx. 30° from the dividing plane. Behind the rotor, there is a draining channel right against the nozzles to catch the contaminated waste water. а Dividing plane f Compressed air Exhaust air b g Shift Rotor h Shift motor Direction of rotor rotation i Control unit d Water j Draining channel

## **Rotor cleaning principle**

Based on the type of contamination, the appropriate method of cleaning must be selected. Compressed air is used in the second and third type of cleaning for final drying of rotor after water application.



## 1. Cleaning by compressed air

• suitable for rotors contaminated by dry dust or tack-free impurities

### 2. Cleaning by water air mixing nozzle and by compressed air

• suitable for rotors mainly contaminated by sticky impurities



#### 3. Cleaning by hot or cold power water (under pressure) and compressed air

 for rotors contaminated by fat and grease

## **Cleaning cycle control methods**

The system may be supplied without control or with an

Without control – this version is suitable for integration into

Automatic control – the system is either started manually by operator who presses the button on the control panel

predefined level of pressure loss by opening the valves with the rotor revolutions to reach the optimum speed for cleaning. as the terminal position is reached, the compressed air valve is





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