



NEW

**ROTO KOMPAKT** 

WITH ROTARY HEAT EXCHANGER







# THE ROTO K SERIES

Was completely redesigned and fulfills all the requirements of ErP 2018.

The air handling unit is equipped with a very efficient regenerative rotary heat exchanger. The rotor support structure has been optimized so that the rotor almost completely fills the housing cross-section. Lower pressure losses and higher recovery efficiencies are the positive consequences.

Rotary heat exchangers do not tend to freeze even at lower temperatures, consequently they still have the full heat recovery even at temperatures of -15 °C or lower, and thus have a better annual utilization ratio in cold regions than efficient countercrossflow heat exchangers.

Furthermore, a part of the moisture is transferred from the extract air into the supply air so that the room air moisture does not decrease like in case of countercrossflow heat exchangers, thus, auxilliary humidification is usually not any more needed.

The double-wall housing was designed in such a manner, that a minimal use of sealing ensures maximum tightness.

- Heat recovery up to 80%
- Very low external leakage: L2 (DIN EN 1886)
- Double-walled housing with 40mm mineral wool (ROTO K...V)
- Double-walled housing with 50mm mineral wool (ROTO K...H)
- Very compact design

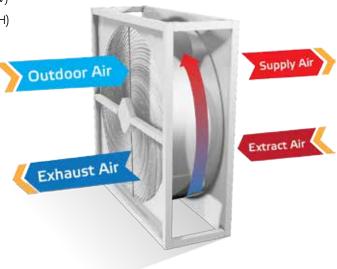


Image 1: Heat transfer rotary heat exchanger



## **ROTO KOMPAKT V**



This series comprises 4 sizes with an air flow of 770 m $^3$ /h up to 4.340 m $^3$ /h - nominal volume flow (ErP 2018).

With vertical air guidance and a small footprint the units can be accommodated in a space-saving way. The ideal solution for small installation rooms. The sized access doors allow unrestricted access to every installation part.

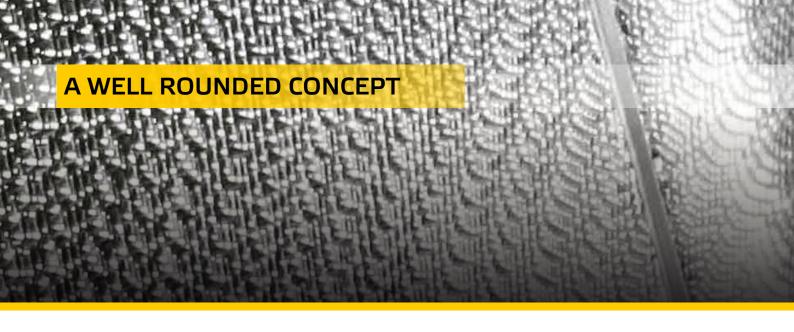
# **ROTO KOMPAKT H**



This series, with horizontal air connections, comprises 6 sizes with an air flow of  $857 \, \text{m}^3\text{/h}$  up to  $10.526 \, \text{m}^3\text{/h}$  - nominal volume flow (ErP 2018).

# **CONTROLS**

The devices are standard equipped with microprocessor controls, factory wired and tested. All sizes have constant volume fan operation. The desired air volumes can be easily entered into the remote control unit. Furthermore, an automatic mass flow correction is integrated in the controls. This means that even in winter only the desired air volume flow rates are fed into the building. These ventilation units therefore offer additional energy savings of up to 15%. Further control options such as  $CO_2$ , humidity or external volume flow control as well as an integrated Modbus-RTU interface ensure flexible application possibilities.



# **HEAT RECOVERY:**

The regenerative rotary heat exchanger of the ROTO K series achieves high efficiency rates up to 80 % throughout the year. The regenerative heat exchanger is made of corrosion-resistant aluminium and needs no frost protection.

# **HUMIDITY RECOVERY:**

Up to 60% of the room humidity will be recovered by the regenerative heat exchanger. This avoids too dry room air and improves the comfort in the building.

# **ENERGY EFFICIENCY:**

The high efficiency EC fans achieve a total efficiency of more than 60% and are therefore well above the efficiency class IE4.

The demand-controlled operation lead to optimized energy consumption by the continuous regulation of EC fans and control with external sensors.

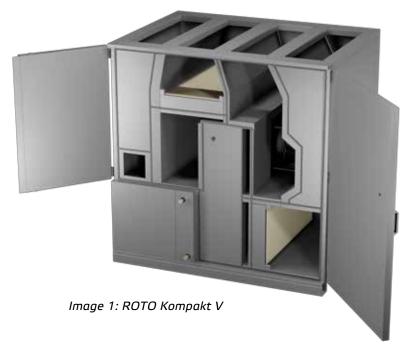
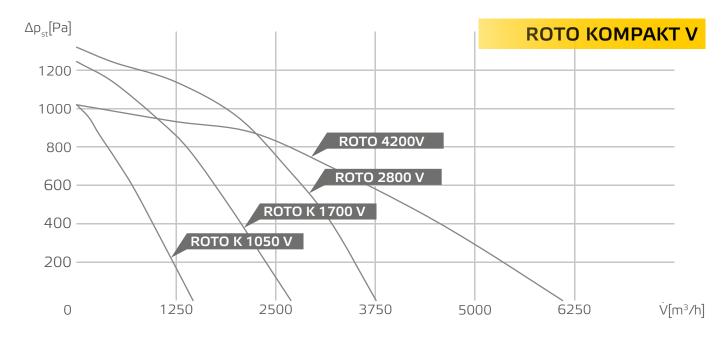
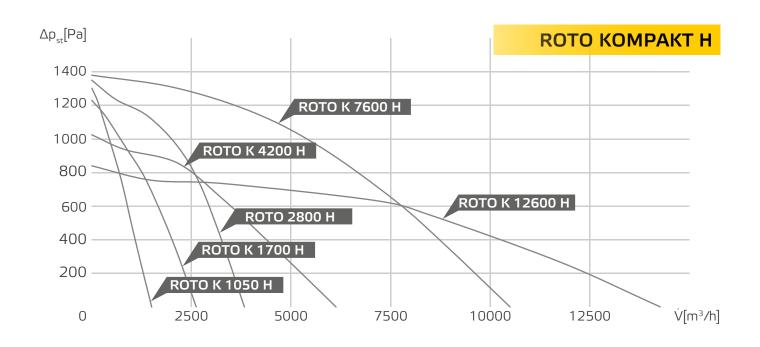




Image 2: ROTO KompaKt H







# **OUR PRODUCT RANGE**

#### IN LINE TUBE FANS

ETALINE and ETAMASTER, the No. 1 in saving energy.



#### **DUCT FANS**

Backward curved centrifugal fans, sound insulated, compact diagonal fans.



## **EXHAUST FANS**

For industrial or kitchen exhaust, up to  $120 \, ^{\circ}\text{C}$ .



## **ROOF FANS**

With horizontal and vertical discharge, up to 120 °C.



## **COMPACT AHU**

With counter flow heat exchanger with more than 90% heat recovery efficiency and EC fans. Available with horizontal or vertical air guidance respectively flat units for suspended ceiling mounting.



#### **COMPACT AHU**

With rotary heat exchanger with up to 80% heat recovery efficiency and EC fans. Available with horizontal or vertical air guidance.



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