



**LOT6**



2018

**CONSTANT**



air volume

**ec**



technology

**ROTOLINE**

WITH ROTARY HEAT EXCHANGER



**RLI**

- Heat recovery up to 80 %
- Humidity recovery up to 60 %
- High heat recovery values even at cold outdoor temperatures
- EC/AC ventilation units, constant volume
- Indoor and outdoor installation

## OVERVIEW AIR PERFORMANCE



### Field of application:

Suited for the ventilation of rooms where the emission sources are human metabolism or building materials and structures, e.g. offices, spaces for public service, meeting rooms as well as in rooms where smoking is allowed.

### Installation place

<b>RLI</b>	Indoor installation/outdoor installation
<b>RLE</b>	Indoor installation

### Operating limits indoor installation

<b>Fresh air temperature</b>	-28 °C up to 40 °C
<b>Installation place</b>	+5 °C / Humidity max. 15 g/kg

### Operating limits outdoor installation

<b>Fresh air temperature</b>	-20 °C up to 40 °C
<b>Installation place</b>	-20 °C / Humidity max. 15 g/kg

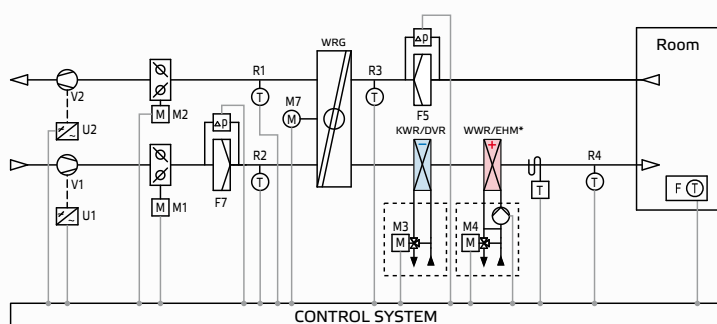
<b>Extract air class EN 13779:</b>	ETA 1
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### Control System:

The new RLI range offers a constant volume ventilation system. The desired air volume can be easily set via the control unit. The controller also has built-in automatic mass flow correction. 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 functions such as CO<sub>2</sub>, humidity levels or external volume flow control as well as an integrated modbus interface provide great flexibility.

# WITH ROTARY HEAT EXCHANGER

## PROCESS DIAGRAM



RLI	
V1 - V2	ETALINE tube fan
U1 - U2	Frequency converter / EC-Controller
M1 - M2	Actuator damper system
F5 - F7	Air filter (class M5/F7)
WRG	Rotary heat exchanger
WWR(EHM*)	Warm water coil (electric heater only for 700 and 900)
KWR	Cooling coil (version ...22)
DVR	Evaporator coil (version ...24)
M3 - M4	3-way valve with actuator
⊕	Temperature sensor
⊖	
⊕	Frost protection
F ⊕	Remote control with room temperature sensor
	* Optional, depending on the type EHM

**Heat recovery:** The rotary heat exchangers of the ROTOLINE series ensure high efficiency rates up to 80 % throughout the year. The regenerative heat exchanger is made of corrosion-resistant aluminium and needs no frost protection. A room humidity recovery of up to 60 % is possible through the regenerative heat exchanger. This avoids dry room air and ensures a higher comfort inside the building.

**Hygiene:** The ROTOLINE series is equipped with smooth surfaces which are easy to clean. Large panel filters of the classes M5 and F7 according to EN 779 ensure a hygienic filtration of extract and outdoor air.

### Temperature control:

- Supply air, extract air and room temperature control
- Free cooling
- Active heating with warm water,

- cooling with cold water
- Active heating with warm water, cooling with DX coil
- Internal/external control
- Release contact ON/OFF
- Malfunction alarm contact
- Integrated timer ON/OFF
- Communication module Modbus RTU
- Release contact cooling machine
- Control heating medium pump
- Control 3-way valves

## Housing quality

Mechanical strength	(EN 1886)	D2
Housing Leakage Negative pressure -400 Pa	(EN 1886)	L3
Housing Leakage Positive pressure +700 Pa	(EN 1886)	L3
Filter bypass leakage	(EN 1886)	F7
Casing class	(EN 1886)	T2
Insulation material class	(EN 13051-1)	A1
Housing insulation		40 mm

## Energy efficiency classes

Speed class	(EN 13053/A1:2010)	V2 - V3
Heat recovery class	(EN 13053/A1:2010)	H1
Energy efficiency heat recovery	(EN 13053/A1:2010)	70 - 82 %
Electrical power consumption	(EN 13053/A1:2010)	P1
Thermal efficiency supply air (EN 308)	EEWärmeG >0,7	0,70 - 0,82
Humidity efficiency rate	(EN 308)	bis 60 %
Efficiency heat recovery		80 %
Specific fan power (SFP E supply air)	(EN 13779)	SFP 2 - 3

## Certifications

EUROVENT Certification rotary heat exchanger

(EN 308)



# OUR RANGE OF PRODUCTS

## IN LINE TUBE FANS

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



## DUCT FANS

Centrifugal fans backward curved, compact diagonal fans.



## EXHAUST FANS

For industrial or kitchen exhaust, up to 120 °C.



## ROOF FANS

With vertical discharge, up to 120 °C.



## COMPACT AHU

Recuperative heat recovery up to 85 %, with counter flow heat exchangers and EC fans.



## WITH HIGH PERFORMANCE HEAT RECOVERY

Regenerative constant heat recovery up to 93 %. Plug-and-Play concept.



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