



LOT6



2018

CONSTANT



air volume

ec



technology

ETA

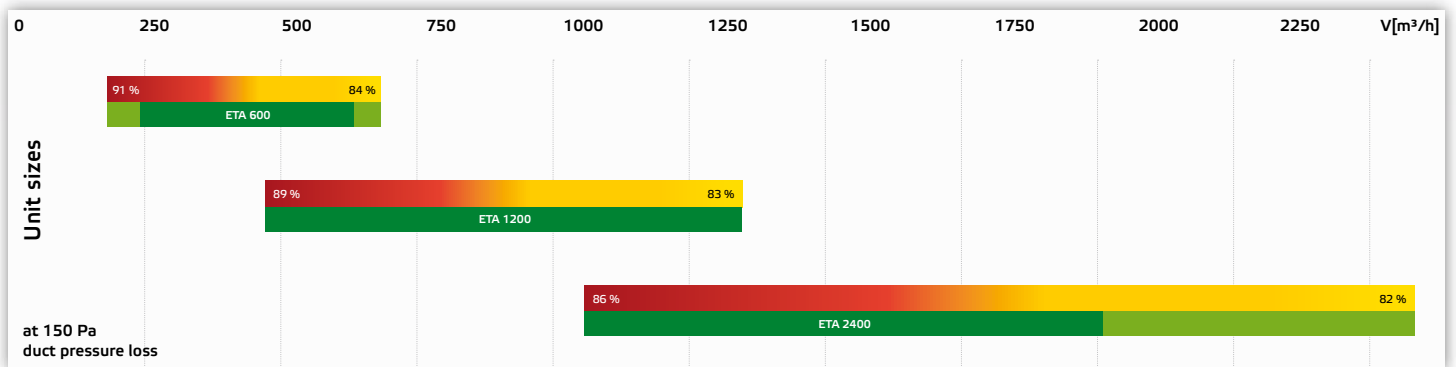
WITH COUNTER FLOW HEAT EXCHANGER

ETA COMPACT AIR HANDLING UNIT



- Heat recovery up to 85 %
- EC-fans, volume constant
- Plug and Play concept
- Flexible installation configurations

OVERVIEW AIR PERFORMANCE



ETA ... F



VENTILATION, HEATING, FILTERING, FREE COOLING, FROST PROTECTION

The ultra-compact flat device with counter cross-flow heat exchanger is suitable for ceiling suspension installation in office buildings, restaurants, salesrooms or cafes. Thus, even in cases of subsequent installation, the ventilation unit

can be integrated efficiently, easily and out of sight. The supplied remote control unit indicates the current degree of pollution of the filter. An easy menu navigation allows the viewing of all parameters and temperature values.

ETA ... H



In addition to the installation in a technical facilities room, the ETA ... H is also suitable for outdoor installation. A rain cover and covers for the isolator switch are available as accessories. ETA

housings are thermally insulated and classified according to T2 (EN 1886). The two-part door allows free access to every mounting part for maintenance and cleaning.

ETA ... V



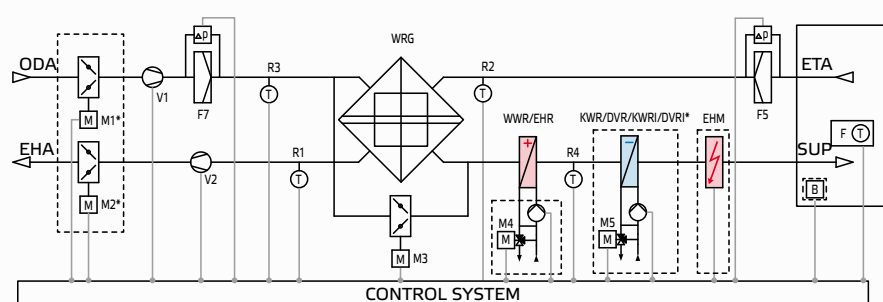
The ETA ... V ventilation unit with counter cross-flow heat exchanger is suitable for the ventilation of apartment buildings, office buildings and kindergartens. Due to its reduced footprint and upward connections, the device can be installed

in the smallest spaces. The integrated supply air bypass enables a pleasant night cooling in summer operation and creates a comfortable indoor climate.

WITH COUNTER FLOW HEAT EXCHANGER



PROCESS DIAGRAM



M1 – M2*	Damper actuator system
V1 – V2	ETALINE tube fan
F5 – F7	Air filter (class M5/F7)
WRG	Heat Exchanger
M3	Bypass Actuator Damper system
WWR	Warm water heater (version ... 30, 31)
EHR	Electric heater (version ... 36, 37)
EHM	Electric heating module (version 2400 ... 36)
KWR*/KWR!*	Cooling Coil (LPCW)
DVR*/DVR!*	DX-Coil
M4 – M5	3-way valve with actuator
Ⓜ	Temperature sensor
Ⓧ	Remote control with room temperature sensor
ⓑ	Fire detector

* Optional, depending on the type

Field of application:

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

ETA ... F	Indoor installation/ceiling mounting
ETA ... H	Indoor installation/outdoor installation
ETA ... V	Indoor installation/floor mounting

Operating limits indoor installation

Fresh air temperature	-28 °C up to 40 °C
Installation place	+5 °C / Air humidity max. 15 g/kg

Operating limits outdoor installation

Fresh air temperature	-20 °C up to 40 °C
Installation place	-20 °C / Air humidity max. 15 g/kg
Extract air class EN 13779:	ETA 1

Control System:

The new ETA 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 CO₂, humidity levels or external volume flow control as well as an integrated modbus interface provide great flexibility.

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 building material class	(EN 13051-1)	A1
Housing insulation	ETA ... F	30 mm
	ETA ... V	40 mm
	ETA ... H	50 mm

Energy efficiency classes

Speed class	(EN 13053/A1:2010)	V1 – V2
Heat recovery class	(EN 13053/A1:2010)	H1
Energy efficiency heat recovery	(EN 13053/A1:2010)	81 %
Electrical power consumption	(EN 13053/A1:2010)	P1
Thermal efficiency supply air (EN 308)	EEWärmeG >0,7	80 – 85 %
Heat recovery rate		80 %
Specific fan power (SFP E supply air)	(EN 13779)	SFP 2 – 3

Certifications

EUROVENT certification counter flow 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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