



LOGIC & GENIUS

Energy-efficient ventilation system with heat recovery

GENERAL

Our central ventilation units, LOGIC and GENIUS, are energy-efficient systems designed to provide fresh air, making them ideal for use in homes.

They not only ensure continuous air exchange and reduce humidity for a healthier indoor climate, but they also help lower heating costs by transferring heat from used indoor air to incoming fresh outdoor air.

These well-equipped ventilation units offer selectable air capacities of 200 m³/h or 150 m³/h and are available with a mechanical (GENIUS) or electronic bypass (LOGIC), allowing for flexible expansion.

Optional enhancements such as CO₂ and humidity sensors, a separate preheater for air pre-warming, an enthalpy exchanger for moisture recovery, or integration into smart home systems provide maximum flexibility.

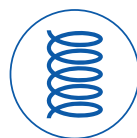
With their modern, slim design (only 180mm deep), they allow for versatile installation—whether vertically on the wall or space-savingsly under the ceiling. The universal connection and placement options make GENIUS and LOGIC suitable for almost any home and installation scenario.

Easy installation, simple maintenance, and low costs make these high-efficiency ventilation units particularly appealing.



Device Cover

Removable cover for easy installation and cleaning.



No Vibrations

Simple mounting that dampens potential vibrations to the structure without needing rubber buffers.



Execution / Position

Orientation (left/right) can be adjusted with a button.



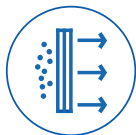
„Muliflow“

Switch the nominal volume flow to 150 or 200 m³/h directly on the device.





92% Heat recovery



Premium Filters

Filter class M5 (ePM 1055%) or
Filter class F7 (ePM 50%)



100% Seal



Connections

Connect up to 12 semi-rigid
ducts possible (Ø75mm)



Vertical and horizontal
installation



Space-saving, only 210
mm deep



On / Off



Low noise level



Control Panel

Wired control unit for
operation. Power cable
10m - included



VARIANTS

The devices can be installed flexibly, either in left or right configurations, allowing optimal airflow and easier maintenance access. Switching is simple and convenient with a toggle.



EHA Exhaust of used, warm air
(Outgoing air)

ODA Intake of fresh, cold outside air
(Fresh air)



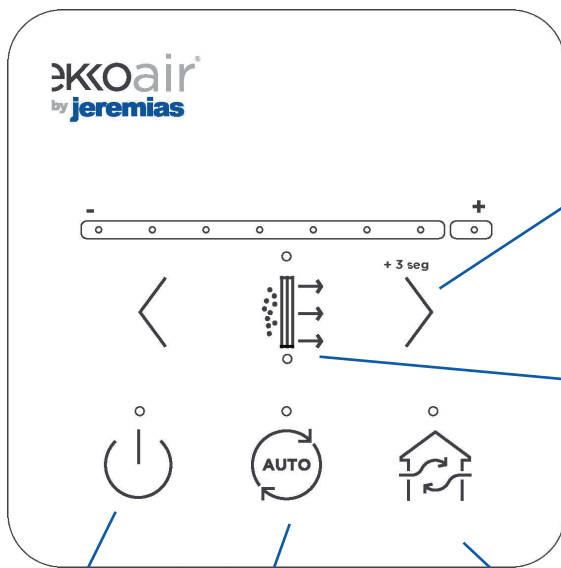
ETA Extraction of used, warm air
from the building (Exhaust air)

SUP Supply of fresh air into the
building (Supply air)





CONTROL PANEL



AIRFLOW CONTROL / AIR BOOST

Press and hold the button for an intensive ventilation cycle lasting 30 seconds.

FILTER INDICATOR

If the filter becomes clogged, this indicator starts flashing.

ON / OFF

AUTO / MANUAL

Select between manual mode and sensor-controlled automatic mode.

SUMMER BYPASS

Cool your living space with fresh night air during warm summer nights.



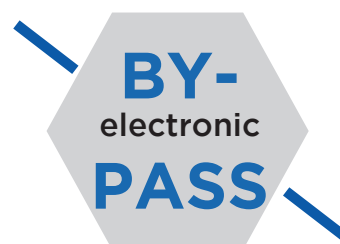
The control unit can optionally be expanded with a Wi-Fi module (accessory), allowing convenient operation via an online app. Additionally, it supports integration with a building automation system using ModBus.

BYPASS FUNCTIONS

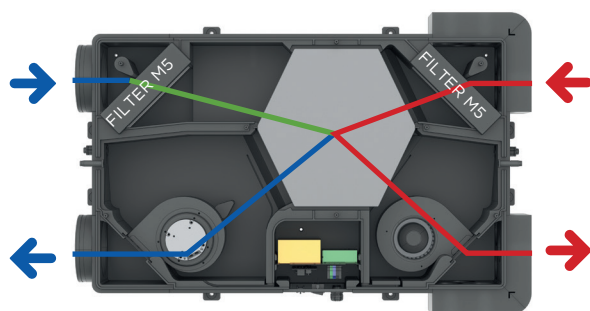
On cool summer nights, alongside regular ventilation (like opening windows), the device's bypass function can also be used. The bypass reroutes the exhaust around the heat exchanger, preventing the "cool" fresh air from being warmed by the outgoing air.

LOGIC

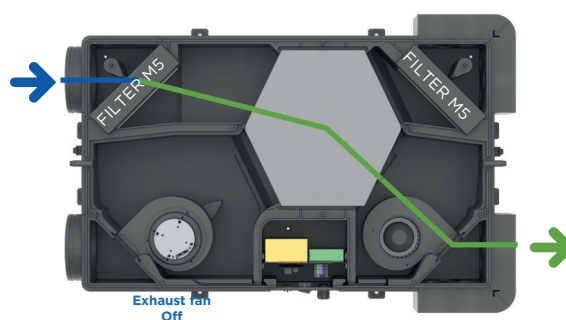
In the LOGIC system, the device with electronic bypass, the exhaust fan is turned off during bypass operation. This allows only fresh, cool night air to enter the building without any exhaust air being directed outside.



Heat Recovery "Logic" in Winter



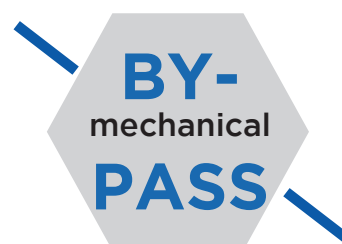
Logical Bypass for Cooling in Summer



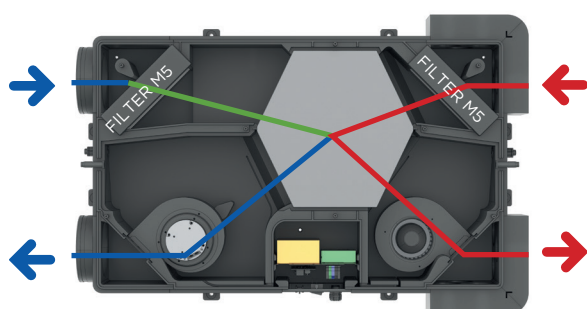


GENIUS

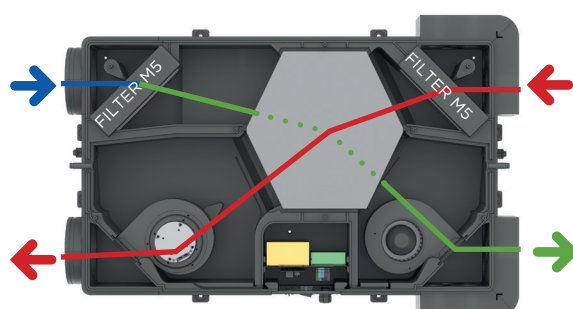
The mechanical bypass ensures that fresh air can be supplied when needed without heat recovery. A flap opens the bypass channel while closing the recuperation section to prevent heat exchange between the air streams.



Winter heat recovery „Genius“



Automatic bypass activated to cool the home on summer evenings



TECHNICAL PARAMETERS

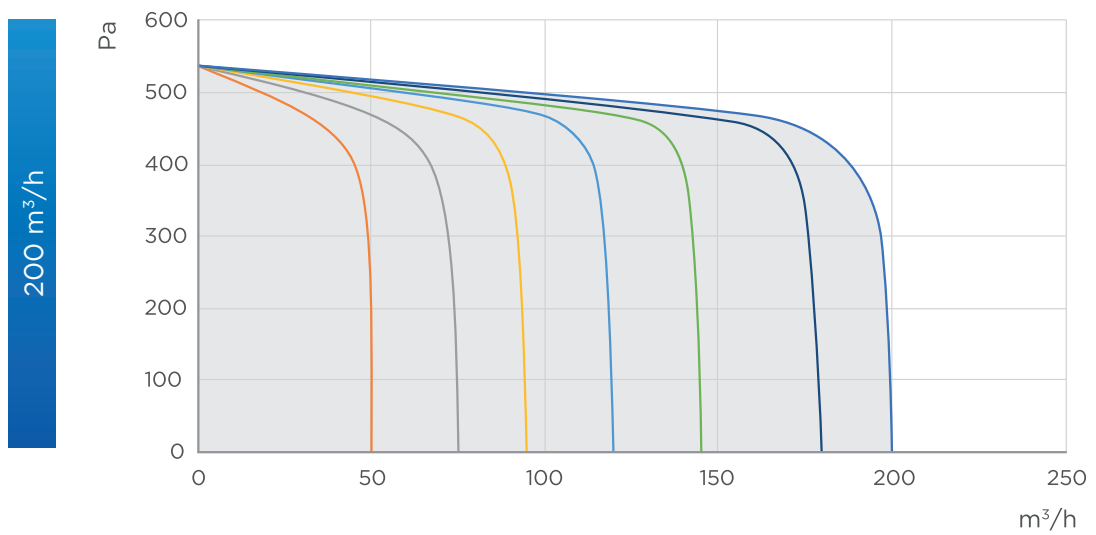
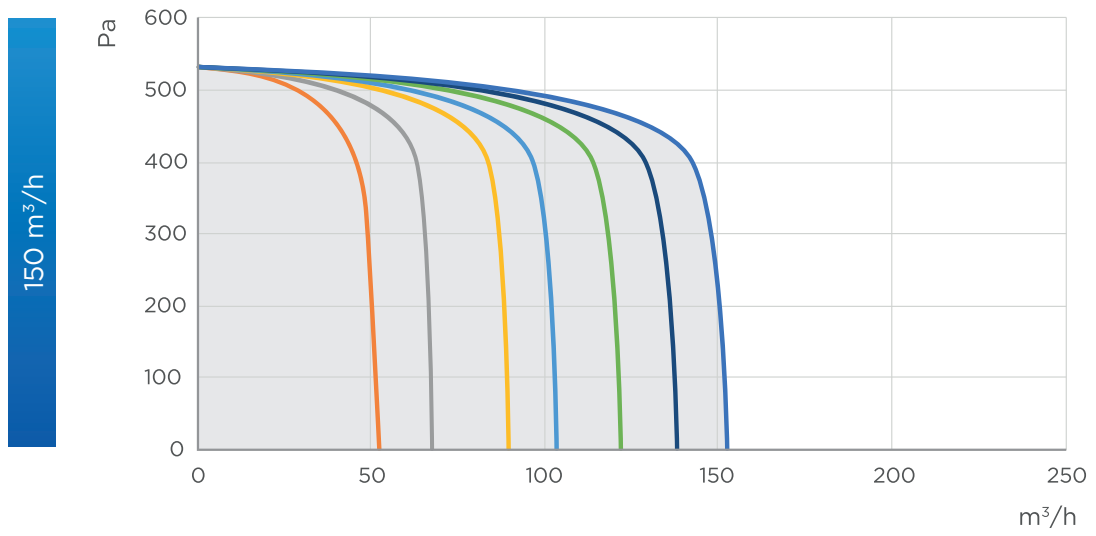
Both devices offer similar specifications, including filter type, low noise levels, and device dimensions.

Parameter	Unit	150m³/h								200m³/h							
Max. Flow Rate	m³/h	150								200							
Sfp (70% Qvd)	W/m³/h	0,29								0,29							
Sound Pressure LPa-3m	dB	42								45							
Diameter of Connectors	mm	2xØ130/Ø160 + 2x 6Ø75								2xØ130/Ø160 + 2xØ75							
Control		8 Speeds															
Mounting / Installation		Wall and Ceiling Mount															
IP		IP30															
Filter Type		M5 Coarse Filter 90% ISO 16890															
Weight	kg	20															
Dimensions	mm	970x600x210															
Multifunction Control	Speed Level	1	2	3	4	5	6	7	boo- st	1	2	3	4	5	6	7	boo- st
	m³/h	50	65	80	105	120	135	150	150	50	75	90	120	145	180	200	200
Cover & Body		EPP + Metal Cover															
Performance*	%	89								88							

* According to UNE EN 308 at 70% of the nominal flow rate



V1 V2 V3 V4 V5 V6 V7



OPTIONAL ENHANCEMENTS

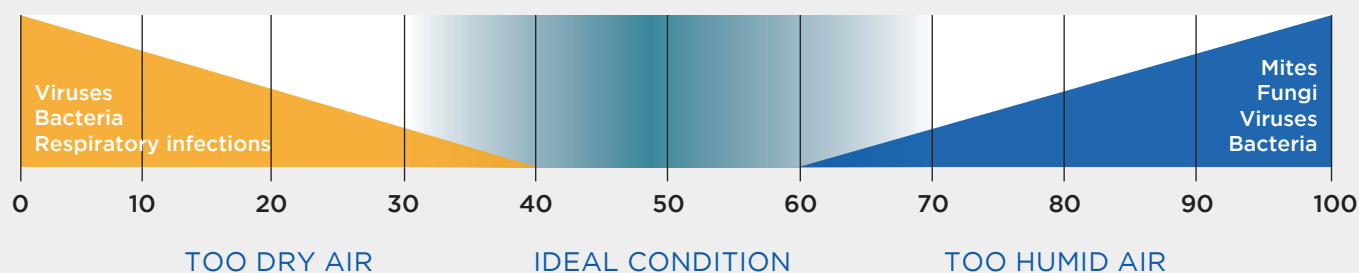
USE OF AN ENTHALPY EXCHANGER

An enthalpy exchanger ensures a comfortable living or room environment by recovering both heat and moisture. It's perfect for combating dry air in the winter, protecting health, preventing irritation of the respiratory system, and preserving furniture and wooden floors. At the same time, it reduces heating and cooling costs and lowers energy consumption.

The GENIUS HOME can be ordered with or without an enthalpy exchanger.



CONDITIONS INDOORS (RELATIVE HUMIDITY %)



ADDITIONAL SENSORS

Our wide range of accessories makes the GENIUS HOME even more versatile and precise.

For instance, a CO₂ sensor, a humidity sensor (RH), or a combined CO₂/RH sensor can be installed. These sensors allow the system to automatically adjust airflow to ensure optimal air conditions.





IMPACT OF CO₂ CONCENTRATION ON HUMANS

The built-in CO₂ sensor automatically adjusts the ventilation system as needed, within a range of about 600 to 1,200 ppm. This ensures optimal comfort while keeping operating costs low.



PRE- AND POST-HEATERS

A pre-heater can be optionally added to prevent icing in the heat exchanger and ensure the device's efficiency during winter by warming the incoming air. Without it, cold outdoor temperatures could cause moist exhaust air in the heat exchanger to condense and freeze, blocking airflow and damaging the device.

A post-heater is used when heat recovery alone is not enough to maintain a comfortable temperature in the house. Pure heat recovery can only raise the temperature up to the exhaust air temperature.

Our GENIUS HOME can be purchased with an integrated pre-heater, and the post-heater is available as an optional accessory.



VENTILATION SYSTEMS

„LOGIC“



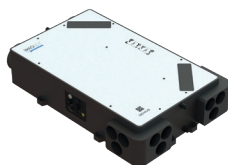
403-COVE80N0001

„GENIUS“



403-COVE79N0001

„GENIUS“ with Enthalpy Exchanger



403-COVE187N0001



ACCESSORIES

M5 Filter



403-COVE100N003

Coarse dust filter: 90%
ISO16890

M7 Filter



403-COVE100N004

ePM1 50%
ISO16890

Preheater



403-COVE100N005

External preheater EKA 160-0.6-1f
(MOQ 20 pcs.)

Postheater



403-COVE100N006

External postheater EKA NV 160-0.6-1f

ER Exchanger

WIFI Module



403-COVE100N011

Option for device control via a
mobile app

CO₂ Sensor



403-COVE100N013

External, wall-mounted

RH Sensor



403-COVE100N014

External, wall-mounted

CO₂ + RH combo sensor, external,
wall-mounted

Hub for up to 8 IAQ sensors



403-COVE100N015

External hot / cold water unit
WCH-125

403-COVE100N016

External hot / cold water unit
WCH-125

403-COVE193N0001

403-COVE194N0001

GERMANY

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