

EKKOair
by jeremias



HOUSE

Energy-efficient ventilation system with heat recovery for single-family homes

HOUSE

The HOUSE is a ventilation unit with heat recovery designed for top efficiency. It's perfect for large apartments, single-family homes, and small offices, ensuring controlled air exchange, reducing excess humidity, and promoting a healthy indoor environment.

Weighing just 16 kg, this unit is easy to install, and its slim design takes up minimal space when mounted on a wall. The casing is made of high-quality polypropylene (EPP) with a vacuum-formed plastic front cover.

This well-equipped ventilation system has an air capacity of 250 m³/h and is available with either a mechanical or electronic bypass, offering flexible expansion options.

Options for connecting CO₂ and RH sensors, preheating air with a separate preheater, additional moisture recovery via an enthalpy exchanger, or integration into smart home systems leave nothing to be desired.

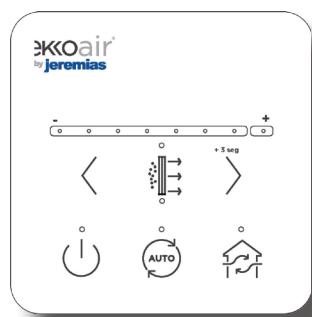
Special features include automatic airflow regulation that compensates for pressure loss and an optional external heater with up to 1 kW power. With an energy efficiency class of A, this ventilation unit ensures highly energy-saving operation.

The HOUSE combines efficiency, flexibility, and modern design, providing an ideal solution for comfortable and healthy indoor air.



Connections

Connections Ø125mm with seals

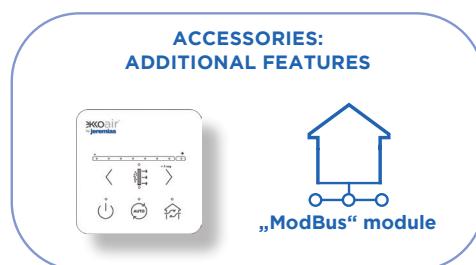
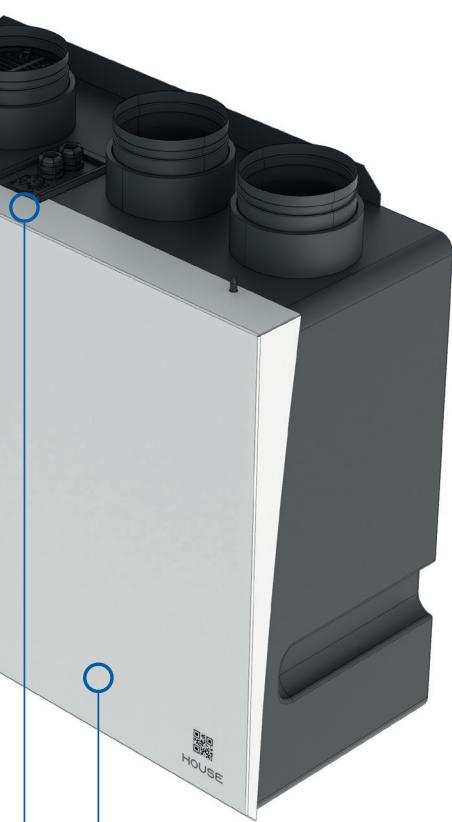


Control Unit

Controls for airflow, bypass, and automatic operation



HOUSE



92% heat recovery



100% seal



Vertical and horizontal
installation



Space-saving, only 300
mm deep



Interchangeable, efficient filter

Efficient M5 filter (Epm10 55%) for air
purification



Low noise level

CONNECTIONS



EHA Exhaust of used, warm air
(Exhaust Air)



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

ODA Intake of fresh, cool outside air
(Fresh Air)

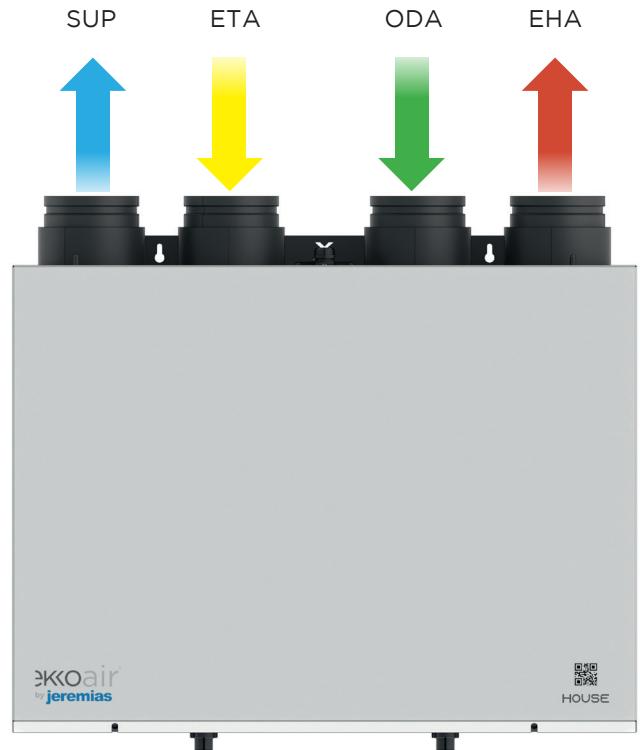
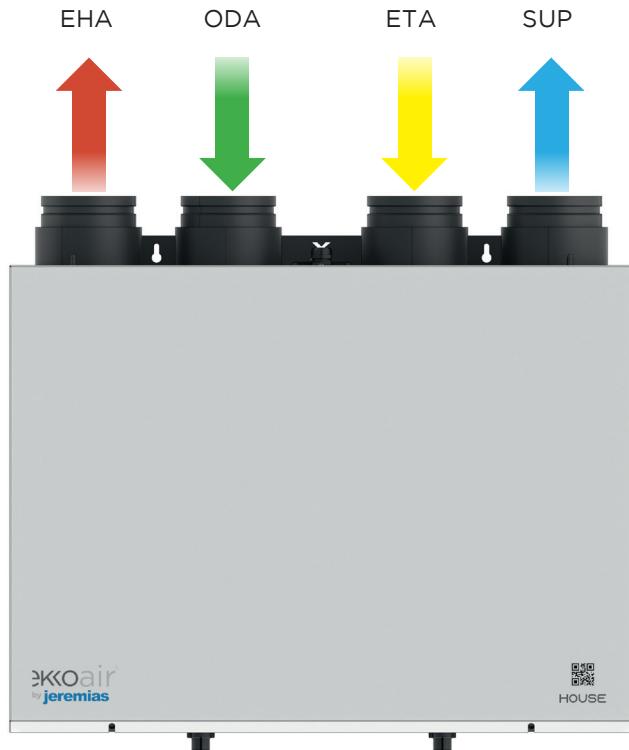
SUP Supply of fresh air into the
building (Supply Air)

RIGHT EXECUTION

LEFT EXECUTION

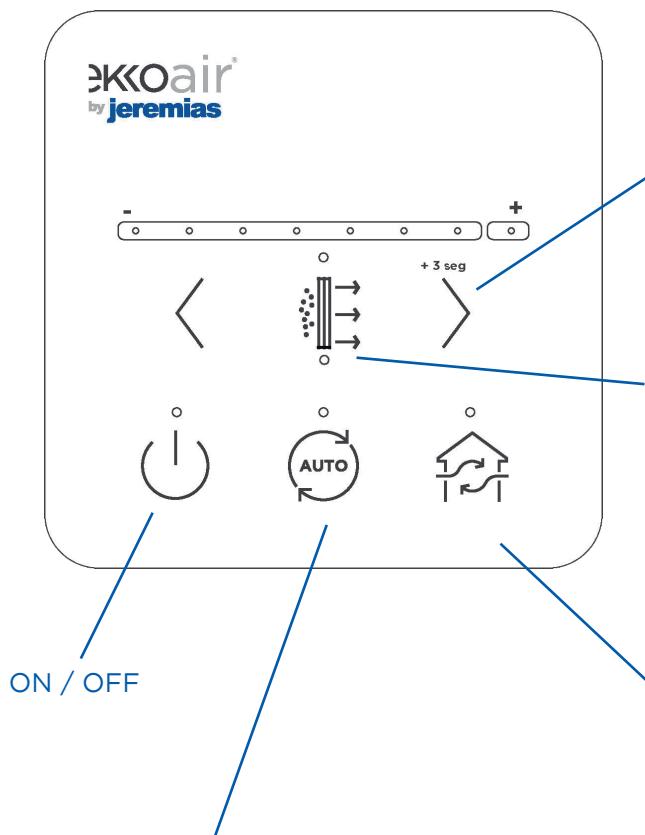
RIGHT EXECUTION

LEFT EXECUTION





CONTROL PANEL



AIRFLOW CONTROL / AIR BOOST

Press and hold the button for intensive ventilation lasting 60 seconds.

FILTER INDICATOR

If the filter is clogged, this indicator will start flashing.

SUMMER BYPASS

Cool your living space on warm summer nights with refreshing night air.

AUTO / MANUAL

Choose between manual and sensor-controlled automatic mode.



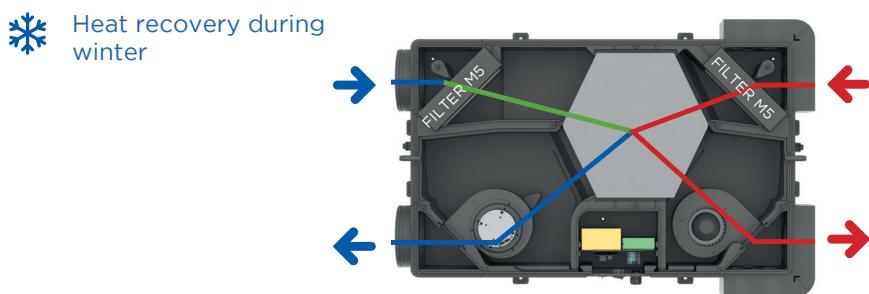
Optionally, you can expand the control unit with a Wi-Fi module (accessory) to conveniently operate the device via an online application. Additionally, it connects to a building automation system via ModBus.

HOUSE BYPASS FUNCTION

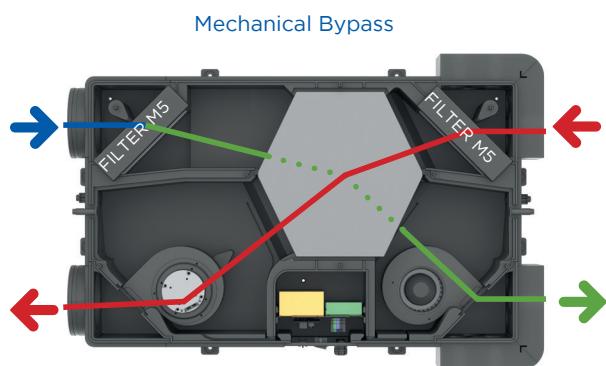
On cool summer nights, you can use the device's bypass function alongside regular ventilation, like opening windows. The bypass redirects exhaust air around the heat exchanger, preventing the 'cool' fresh air from being warmed by the exhaust.

MECHANICAL VS. ELECTRONIC BYPASS

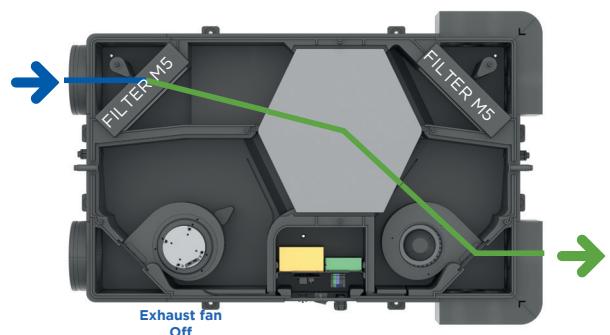
The mechanical bypass ensures fresh air is supplied without heat recovery when needed. A flap opens the bypass channel and closes the recuperation section to stop heat exchange between air streams. With the electronic bypass, the exhaust fan is turned off during operation, allowing only fresh, cool night air into the building without expelling exhaust air outside.



 Automatic Bypass activated to cool the home on summer evenings



Electronic Bypass



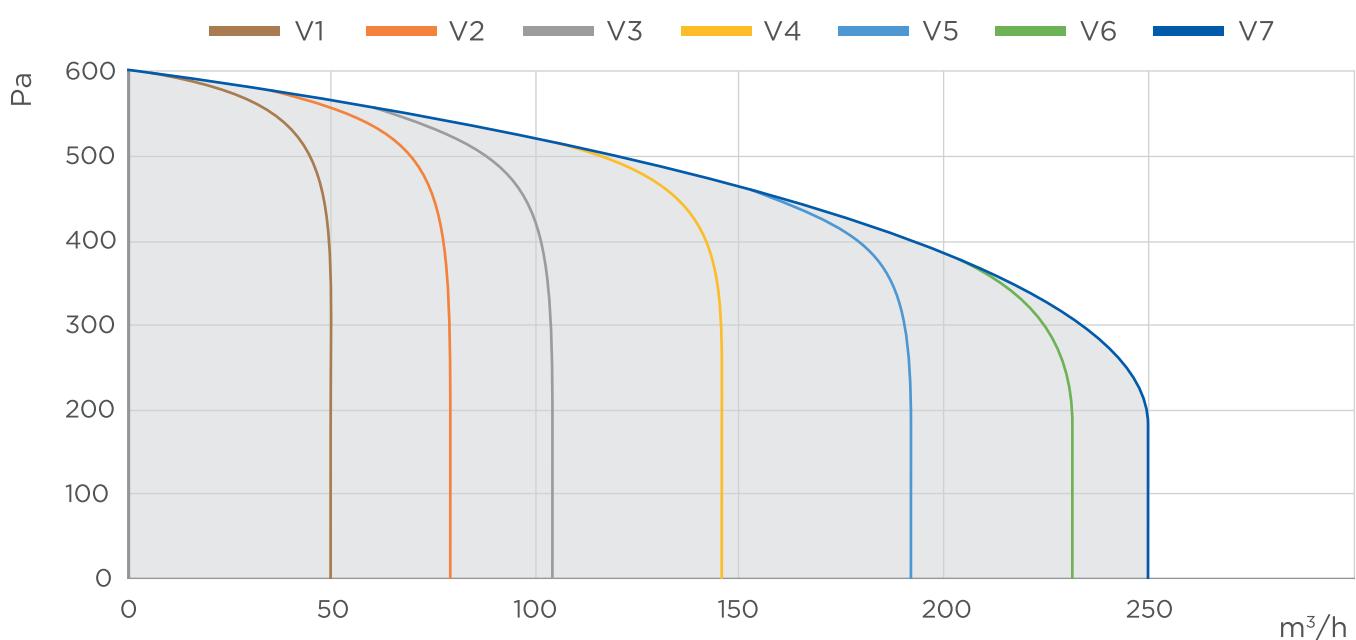


TECHNICAL PARAMETERS

Parameter	Unit	Values							
Max. Flow Rate	m ³ /h	250							
Sound Pressure L _{PA} -3m*	dB	37,8							
Diameter of Connectors	mm	4xØ125							
Control		8 Speeds							
Mounting / Installation		Wall Mount							
IP		IP 20							
Filter Type		M5 Coarse 90% ISO 16890							
Weight	kg	17							
Dimensions	mm	800x600x300							
Multifunction Control	Speed Level	1	2	3	4	5	6	7	boost
	m ³ /h	50	75	105	145	190	235	250	250
Cover & Body		EPP Body + Metal Cover							
Performance**	%	88,3							

* In open field at the reflection plane

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



OPTIONAL ENHANCEMENTS

USE OF AN ENTHALPY EXCHANGER

An enthalpy exchanger helps create a comfortable indoor environment by recovering not just heat, but also moisture—perfect for combating dry air in winter. This benefits your health, prevents respiratory irritation, and protects furniture and wooden floors. At the same time, it lowers heating and cooling costs and reduces energy consumption.



The HOUSE can be ordered with or without an enthalpy exchanger.

CONDITIONS INDOORS (RELATIVE HUMIDITY %)



ADDITIONAL SENSORS

Our extensive range of accessories helps make the HOUSE even more versatile and precise.

For example, you can install a CO₂ sensor, a humidity sensor (RH), or a combined CO₂/RH sensor. These sensors allow the system to automatically adjust airflow, ensuring 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-HEATER

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



A post-heater is used when heat recovery alone is insufficient to maintain a comfortable temperature in the home. Pure heat recovery can only raise the temperature up to the exhaust air temperature.

Our HOUSE can be directly obtained with an integrated pre-heater, while the post-heater is available as optional accessory.

GENUIS HOME

STANDARD DEVICES

DEVICE	HEAT EX-CHANGER TYPE	INTEGRATED PREHEATER	EXECUTION R/L	BYPASS	ORDER CODE	PRICE
HOUSE	Heat recovery	-	Right	electronic	403-COVE270N0001	1535 €
			Left		403-COVE270N0002	
			Right	mechanically	403-COVE100N0008	1735 €
			Left		403-COVE270N0005	
			Right	electronic	403-COVE270N0003	1745 €
			Left		403-COVE270N0004	
			Right	mechanically	403-COVE270N0006	1946 €
			Left		403-COVE270N0007	
			Right	electronic	403-COVE271N0001	1535 €
			Left		403-COVE271N0002	
HOUSE	Enthalpy ex-changer	-	Right	mechanically	403-COVE271N0005	1735 €
			Left		403-COVE271N0006	
			Right	electronic	403-COVE271N0003	1745 €
			Left		403-COVE271N0004	
			Right	mechanically	403-COVE271N0007	1946 €
			Left		403-COVE271N0008	



OUR ACCESSORIES



FILTER	ORDER CODE	PRICE
Filter M5 - Coarse 90% ISO 16890	403-COVE100N0009	105 €
Filter F7 - ePM1 50 % ISO 16890	403-COVE100N0010	120 €



MODULE	ORDER CODE	PRICE
Wifi-Module	403-COVE100N0011	601 €



SENSORS	ORDER CODE	PRICE
CO ₂ Sensor	403-COVE100N0013	482 €
RH Sensor (Relative humidity)	403-COVE100N0014	260 €
Combined CO ₂ + RH Sensor	403-COVE100N0015	739 €
Hub	403-COVE100N0016	71 €



HEAT RECOVERY	ORDER CODE	PRICE
Heat Recovery Core	403-COVE100N0017	380 €
Enthalpy Core	403-COVE100N0018	713 €



HEATER	ORDER CODE	PRICE
External Afterheater Ø 160mm, 1kW, 1-phase	403-COVE100N0019	901 €



SIPHON	ORDER CODE	PRICE
Siphon	403-COVE103N0001	

GERMANY

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Jeremias high quality products to be installed only by
selected experts.

