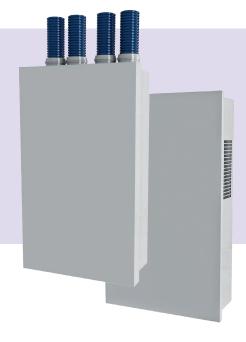


MICRA 110

Decentralized heat recovery ventilation



MICRA 110

Decentralized supply and exhaust unit with heat recovery





FEATURES

- High efficiency ventilation of a single room or a Optional connection of 100 mm extract air duct for small appartment.
- Flush or surface mounting option.
- Optional connection of supply and extract 75 mm semi-rigid air ducts for flush mounted Micra 110 V1
- surface mounted Micra 110 unit.
- Low noise level from 10 dBA at 3 m.
- · High level of wind protection.
- Clean air with an ISO ePM1 65% / F7 supply filter.
- · Easy installation.

CASING

The casing is made of sheet metal, painted white, with a layer of heat and sound insulation. The modern design allows Micra 110 to fit harmoniously into any interior.

The front panel opens easily for filter maintenance. The unit is equipped with two 100 mm spigots for air intake and exhaust.

AIR DAMPERS

An automatic supply and axhaust air dampers are provided to prevent drafts when the unit is switched off.

AIR F ILTRATION

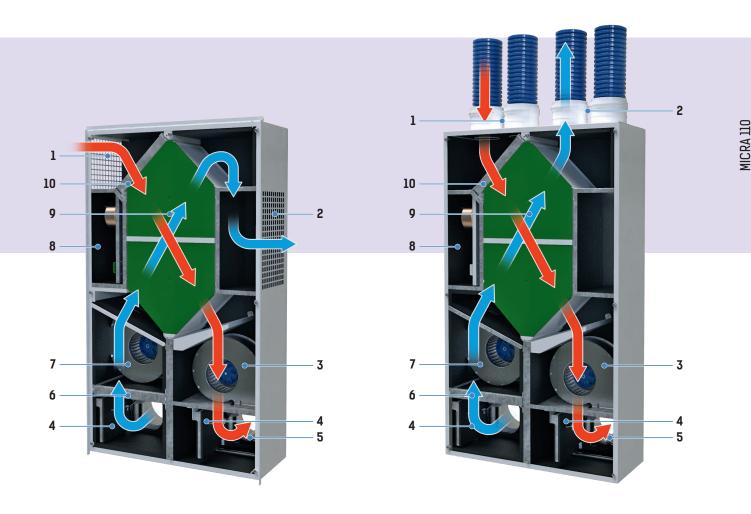
Supply air is cleaned by a coarse 90 % / G4 panel filter. An ePM1 65 % / F7 filter can be installed as

Extract air purification is performed by a coarse 90 % / G4 cassette filter.

DESIGNATION KEY

Unit series	Rated air flow [m³/h]	Mounting	Heat exchanger type
Micra – decentralized ventilation unit with plastic heat exchanger	110	– surface mountingV1 – flush mounting surface mounting	– heat recoveryERV – heat and humidity recovery

VENTILATION-SYSTEM.COM SINGLE-ROOM VENTILATION



MICRA 110 (WALL SURFACE MOUNTING)

Extract grille;
 Supply filter;
 Supply grille;
 Supply fan;
 Exhaust fan;
 Automatic air shutter;
 Brain pipe (HRV version);
 Extract filter.

FANS

The unit is equipped with high-efficient electronically commutated (EC) motors with an external rotor equipped with impellers with forward-curved blades. Such motors are currently the most advanced solution in the field of energy saving. EC motors are characterized by high performance and optimal control over the entire range of speeds. The undoubted advantage of electronically commutated motors is high efficiency (up to 90%).

MICRA 110 V1 (WALL FLUSH MOUNTING)

Extract ducts;
 Supply filter;
 Supply ducts;
 Exhaust fan;
 Supply fan;
 Controller;

4. Air shutter (option); 9. HRV or ERV heat exchanger;

5. Drain pipe (HRV version); 10. Extract filter.

HEAT EXCHANGER

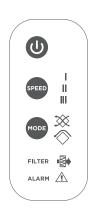
- Micra 110 units are equipped with a counter-flow heat exchanger.
- Micra 110 ERV units are equipped with a heat exchanger, which is made of enthalpy membrane and transfers heat and moisture.
- In the cold season the extract air heat and moisture are transferred to the supply air stream through the enthalpy membrane reducing the heat losses through ventilation.
- In the warm season, the heat and moisture of fresh intake air are transferred through the enthalpy membrane to the extract air. This allows for a considerable reduction of the supply air temperature and humidity which, in turn, reduces the air conditioning load.

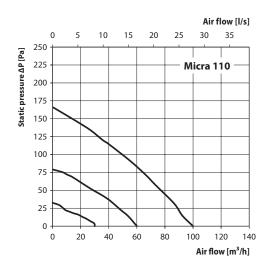
AUTOMATION AND CONTROL

Control panel on the side surface of the unit.

Functions:

- On / off
- · Speed switching
- · Heat recovery mode
- Summer cooling mode
- · Filter maintenance indication
- · Alarm indication





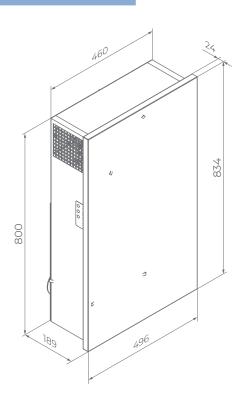
TECHNICAL SPECIFICATIONS

Model		Micra 110		Micra 110 V1		Micra 110 ERV			Micra 110 V1 ERV			
Speed	1	2	3	1	2	3	1	2	3	1	2	3
Air flow [m³/h]	30	60	100	30	60	100	30	60	100	30	60	100
Voltage [V / 50-60 Hz]		1~230		1~230		1~230		1~230				
Power [W]	10	15	31	10	15	31	10	15	31	10	15	31
Max current [A]	0.26		0.26		0.26		0.26					
RPM [min ⁻¹]		3200		3200		3200		3200				
Sound power level LwA to environment [dBA]	31	41	51	31	41	51	31	41	51	31	41	51
Sound pressure level LpA to environment at 1 m distance [dBA]	20	30	40	20	30	40	20	30	40	20	30	40
Sound pressure level LpA to environment at 3 m distance [dBA]	10	21	31	10	21	31	10	21	31	10	21	31
perating temperature [°C] from -15 to +40		40	from -15 to +40		from -15 to +40			from -15 to +40				
Case material	polymer coated steel		polymer coated steel, galvanized steel		polymer coated steel		polymer coated steel, galvanized steel					
Insulation [mm]		10		10			10		10			
Extract filter ISO 16890 / EN 779:2012	Coarse 90 % / G4		Coarse 90 % / G4		Coarse 90 % / G4		Coarse 90 % / G4					
Supply filter ISO 16890 / EN 779:2012	Coarse 90 % / G4 Optional: ePM1 65% / F7		Coarse 90 % / G4 Optional: ePM1 65% / F7		Coarse 90 % / G4 Optional: ePM1 65% / F7		Coarse 90 % / G4 Optional: ePM1 65% / F7					
Connected air duct diameter [mm]	2×100 mm + optional 1×100 mm		2×100 mm + optional 4×75 mm		2×100 mm + optional 1×100 mm		2×100 mm + optional 4×75 mm					
Weight [kg]		20		23		20		23				
Heat recovery efficiency [%]*	93	87	84	93	87	84	85	80	72	85	80	72
Humidity recovery efficiency [%]*	-	_	-	_	-	-	45	39	29	45	39	29
at exchanger type counter-flow		counter-flow		counter-flow		counter-flow						
Heat exchanger material		polystyrene		polystyrene		enthalpic		enthalpic				
SEC class		А		А		A		A				

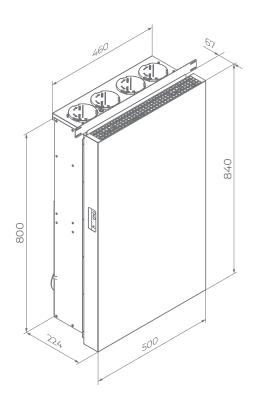
^{*}Heat recovery efficiency is specified in compliance with EN 13141-8

VENTILATION-SYSTEM.COM SINGLE-ROOM VENTILATION

OVERALL DIMENSIONS [MM]



Micra 110 (wall surface mounting)



Micra 110 V1 (wall flush mounting)

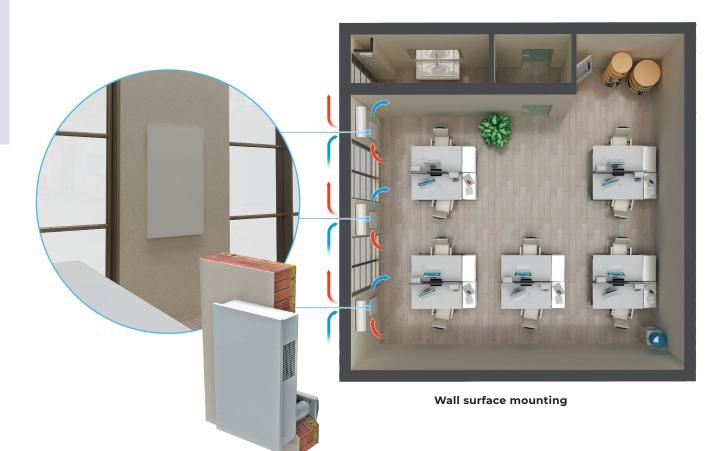
MOUNTING

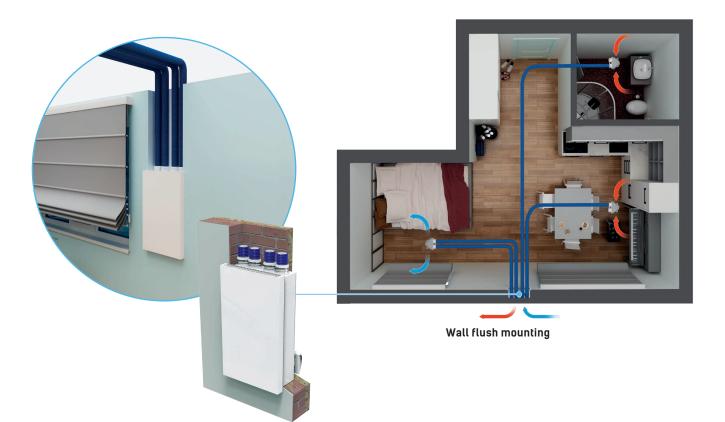




SINGLE-ROOM VENTILATION 2023-03

TYPE SOLUTIONS





VENTILATION-SYSTEM.COM SINGLE-ROOM VENTILATION

ACCESSORIES

Name	Image
SF 176x160x22 Coarse 90% / G4 Extract filter	
SF 203x150x22 Coarse 90% / G4 Supply filter	
SF 203x150x22 ePM1 65% / F7 Supply filter option	
MK Micra 110 Mounting kit	
MK Micra 110 white Mounting kit	
MK Micra 110 chrome Mounting kit	
MK1 Micra 110 Mounting kit for corner mounting of the grille in the window opening	
MK1 Micra 110 white Mounting kit for corner mounting of the grille in the window opening	
MK1 Micra 110 chrome Mounting kit for corner mounting of the grille in the window opening	

Name	lmage
NB Micra 110 Supply and exhaust hood	
NB Micra 110 white Supply and exhaust hood	
NB Micra 110 chrome Supply and exhaust hood	
CO2-1 CO ₂ sensor	
CO2-2 CO ₂ sensor	Cham
CO2-3 CO ₂ sensor	
HR-S Humidity sensor	
NE Micra Heater	
FlexiVent 0275 Round flange	

Decentralized heat recovery ventilation

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2023-03





