# **MICRA 150**



**MICRA 150** is a single-room heat recovery unit designed to provide the ideal ventilation solution for residential and commercial premises. Most frequently used in bedrooms, living rooms, offices as well as apartments and small commercial places. No need to connect to air ducts.

MICRA 150 delivers simple and efficient ventilation solution for any new or existing buildings.

### FEATURES

- O Efficient supply and exhaust ventilation
- Polystyrene plate counter-flow heat recovery core with sensible recovery efficiency up to 88%
- O EC fans with low energy demand (8 to 51 W)
- O Three speed levels, up to 71 CFM
- Silent operation (1-1.8 Sones)
- Air cleaning with two built-in filters
- Easy mounting
- Compact sizes



Metal polymer coated casing. 3/8" foamed synthetic rubber layer provides heat and sound insulation. The modern design matches any interior. The front panel opens with tools not necessary for easy access to servicing. The unit is fitted with a safety switch that cuts the power supply off when the panel is opened. Air is supplied to the unit and exhausted from the premise through two Ø5" air ducts.

AIR FILTRATION

Supply airflow is channeled through a MERV 7 filter to provide a healthier indoor environment. MERV 5 filter protects the core from household contaminants such as dust as the air is exhausted outside.

# FEATURES CONDENSATE DRAIN PAN

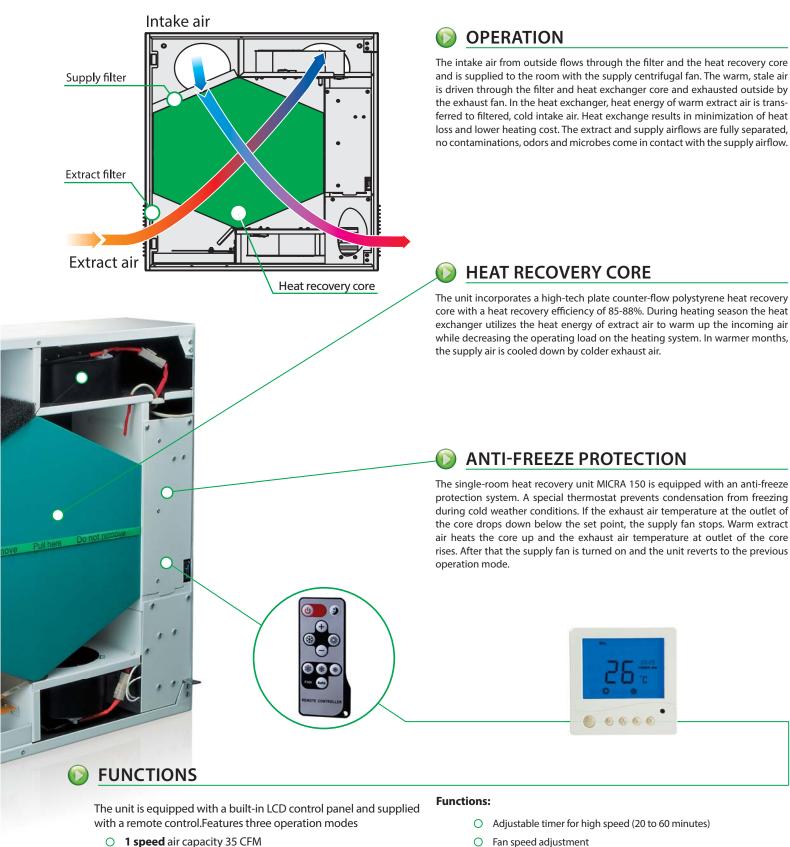
High-efficient EC motors with external rotor and forward curved blades are designed for air supply and exhaust. The fan motors have built-in overheating protection and ball bearings for longer service life. Due to EC technologies **Micra 150** is featured with low energy demand and reliable operation.

**AIR SUPPLY AND EXHAUST** 

# Condensate that may be generated during heat recovery process is collected in a special drain pan. As the drain pan is filled with condensate, the unit switches off automatically, which is confirmed by indication on the control panel. Remove condensate from the drain pan and restart the unit to continue the unit operation.

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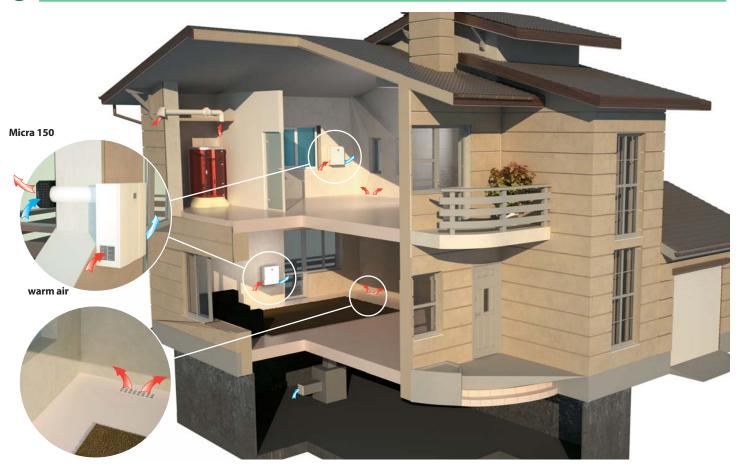




- O 2 speed air capacity 53 CFM
- O 3 speed air capacity 71 CFM

- O Adjustable timer for high speed (20 to 60 minutes)
- O Fan speed adjustment
- 0 Week-scheduled operation
- Filter replacement and alarm indication 0

#### MICRA 150 VENTILATION SYSTEM INSTALLATION EXAMPLE



Install one or several **MICRA 150** units in any space intended to be ventilated. One unit is capable of providing efficient ventilation up to 1200 sq ft.

Ventilation based on MICR 150 single-room heat recovery ventilator ensures adequate air exchange in premises while providing considerable energy saving both winter and summer.

**MICRA 150** is installed directly on an interior wall. The wall thickness must be no less than 4". First fix the template included in the mounting kit to the wall with screws. Mark the mounting holes for the air ducts and drill the holes.

Insert the air ducts into the holes.

Use the mounting template for proper positioning of the the air ducts. Mount the double metal hood on the exterior wall to protect the unit from water ingress.

Fill the gaps between the air ducts and the wall with mounting foam through special slots in the mounting template.

After the foam hardens, remove the mounting template and cut off the excess foam to be flush with the wall surface.

Mount the casing, open the front panel and remove the core.

Connect the unit to the air ducts and fix them to the wall by screws.

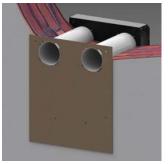
The unit is supplied with a pre-wired power cord and socket.

If desired, MICRA 150 can also be hardwired. Before you take this step, turn the power off to the unit.

Lastly, re-install the core and close the front panel. The unit is ready for operation.



Mark the holes for the air duct using the template provided



O Mount air ducts and metal hood



O Drill the core holes in the wall



O Mount the casing

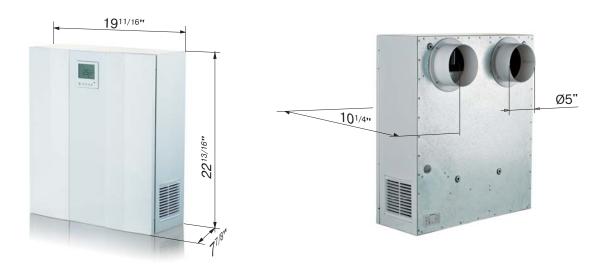
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### **TECHNICAL DATA**

Model	MICRA 150			
Ventilation mode	1	2	3	
Voltage	120 V / 60 Hz			
Maximum fan power [W]	8	27	51	
Unit max. current without heating [A]	0.7			
Air capacity [CFM]	35	53	71	
RPM [min <sup>-1</sup> ]	450	780	2000	
Noise level at 10 feet distance [Sones]	1	1.3	1.8	
Sensible recovery efficiency (SRE) [%]	88	87	85	
Maximum transported air temperature [°F]	-13+122			
Pipe diameter [inch]	5"			
Heat insulation thickness [inch]	3/8"			
Extract filter		MERV 5		
Supply filter		MERV 7		
Replacement filter kit		SF Micra 150		
Weight [lb]		44.09		

# **OVERALL DIMENSIONS [INCH]**



## ACCESSORIES

