

TS-HRVU

Ventilation unit with heat recovery

- cod. ACD200068 - cod. ACD200067 - cod. ACD200066
- cod. ACD200075 - cod. ACD200069 - cod. ACD200077
- cod. ACD200078 - cod. ACD200070 - cod. ACD200071

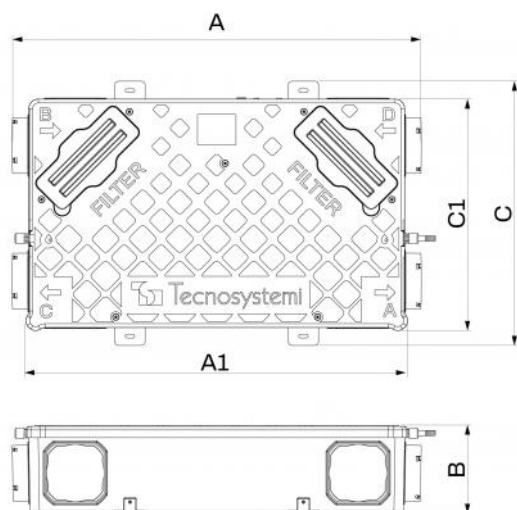


DESCRIPTION

New ventilation unit with an innovative design designed for air exchange with heat recovery, thanks to the backflow sensitive heat exchanger.

Characterised by:

- rendimento termico massimo 90%;
- high efficiency heat exchanger;
- thermo-acoustic insulation ensured by the entire EPP casing;
- centrifugal fans, on air delivery and intake, with EC motor, with reduced electrical consumption;
- ISO ePM10 50% on the suction ducts;
- automatic electronic by-pass and integrated temperature probes for detecting the air temperature;
- 90° directional grilles;
- reversibility of assembly for aeraulic connections;
- condensate drain included.
- other types of filter with different levels of filtration available on request



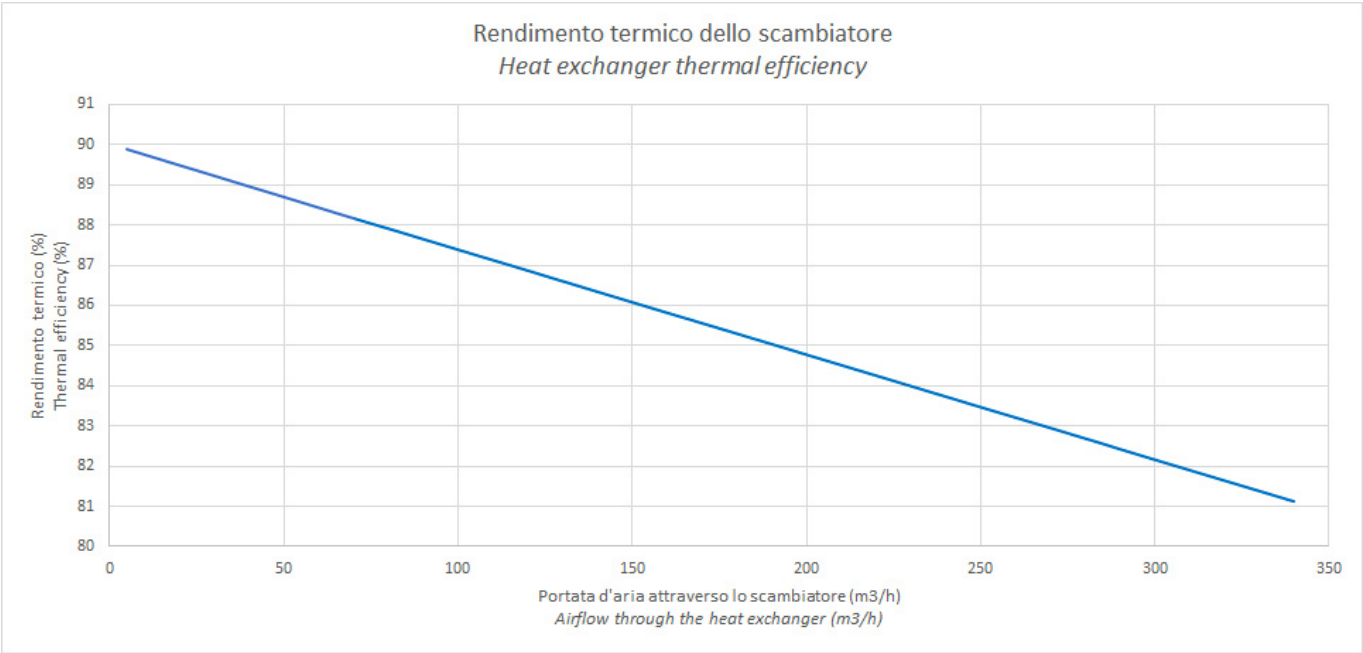
DIMENSIONS

CODE	A [mm]	A1 [mm]	B [mm]	C [mm]	C1 [mm]
ACD200068	1100	990	230	700	610
ACD200067	1100	990	230	700	610
ACD200066	1100	990	230	700	610
ACD200075	1100	990	230	700	610

TECHNICAL DATA

Model	HRVU TS120	HRVU TS180	HRVU TS250	HRVU TS320
Power supply	230 V – 50 Hz			
Maximum power(W)	50	70	120	160
Maximum current (A)	0.3	0.4	0.5	0.7
Insulation class	Class 1			
IP rating	IP22			
Operating temperature in the installation compartment (°C)	-10°C ÷ +40°C			
Relative operating humidity (%RH at 25° C)	≤ 85 %			
	PERFORMANCE DATA			
Portata volumetrica (m³/h)	120	180	250	320
Energy rating (SEC temperate climate)	A			
Heat Efficiency (%)	88	87	85	84
Type of heat recovery unit	Sensitive backflow heat exchanger HRC1a			
Thermal by-pass	Not present	Electronically operated mechanical system		
Minimum External Air Temperature (°C)	-15			
Reversible flows	yes			
Antifreeze feature	no	yes (imbalance of flows)		
Air filters as standard	ISO ePM10 50%			
Additional air filters (upon request)	ISO ePM1 ≥ 50%			
Sound Power LWA	46	47	48	49
	CONSTRUCTION CHARACTERISTICS			
Type of motors	Brushless EC			
Body material	Expanded polypropylene (EPP) with galvanised metal sheet supports			
Dimensions(mm)	1100x230x610			
Weight (kg)	14			
Aeraulic fittings (Ø mm)	150			
Condensate drain	½" thread or hose holder			
	CONTROLS			
Remote control	0-10V regulator	4-button digital control		
Weekly programming	no	Control available on request		
BMS control	0-10 V	MODBUS - RS485 RTU		

RENDIMENTO TERMICO DELLO SCAMBIATORE



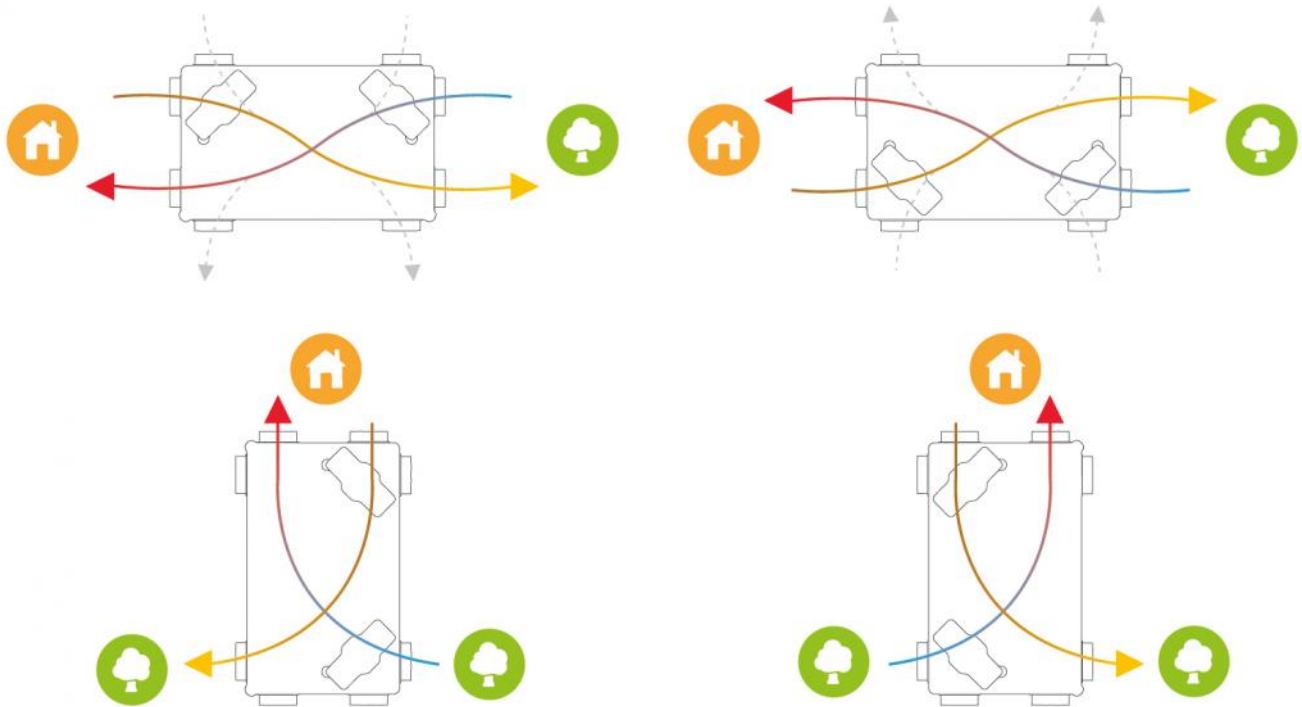
CONTROL DEVICES

	ACD200068	ACD200067	ACD200066	ACD200075
				
				

REVERSIBILITY OF ASSEMBLY

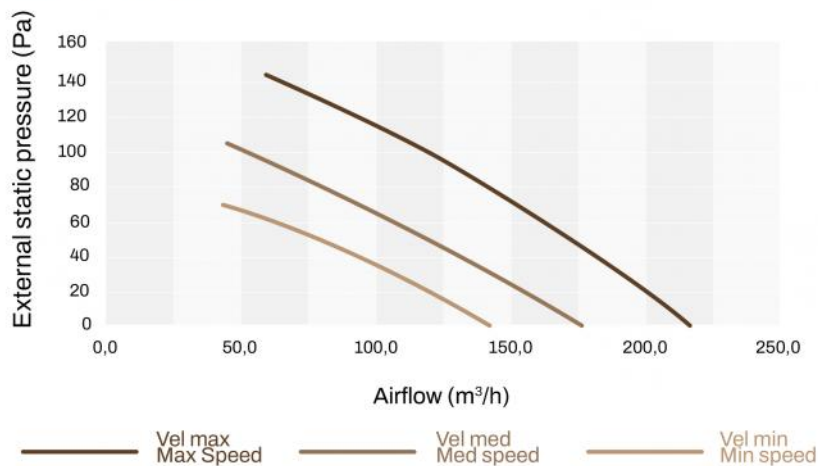


90° ADJUSTABLE AERAULIC CONNECTIONS

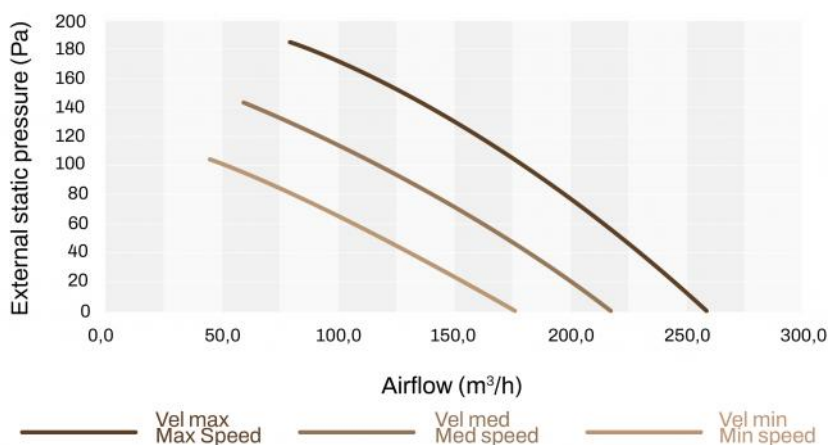


LOAD CAPACITY AND PERFORMANCE GRAPHS

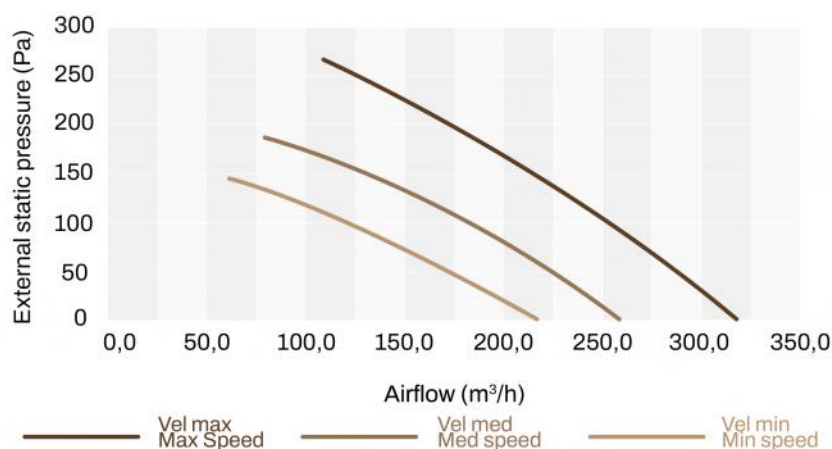
TS-HRVU 120 m³/h



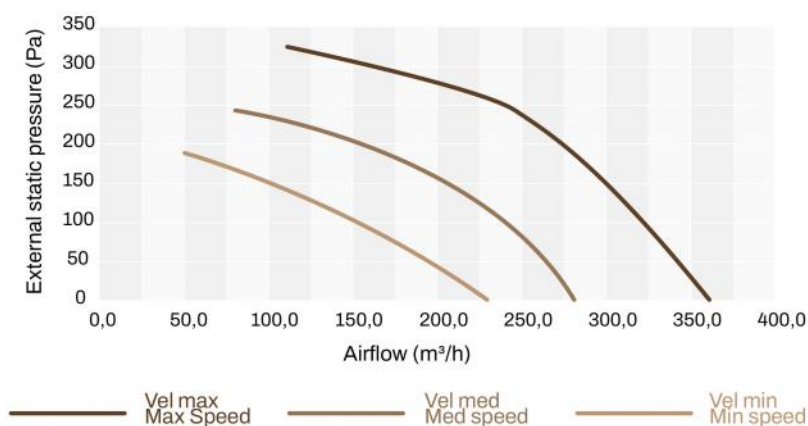
TS-HRVU 180 m³/h



TS-HRVU 250 m³/h



TS-HRVU 320 m³/h



APPLICATIONS



ACCESSORIES



Control for VMC display
with programming



Plate and mount for selector switch
installation



Control for HRVU VMC
CO² sensor



Control for HRVU VMC
humidity sensor

ITEMS

CODE	DESCRIPTION
ACD200068	HEAT RECOVERY UNIT HRVU TS120 0/10V
ACD200067	HEAT RECOVERY UNIT HRVU TS180 RF
ACD200066	HEAT RECOVERY UNIT HRVU TS250 RF
ACD200075	HEAT RECOVERY UNIT HRVU TS320RF
ACD200069	CONTROL DEVICE WITH PROGRAMMING DISPLAY
ACD200077	
ACD200078	
ACD200070	BLOCK FRAME FOR CONTROL DEVICE BOX503
ACD200071	FOLDED FILTER F7 ISO EMP >50% 185x255x22 FOR MODEL 120-180-250-320m3h

All rights relating to this publication are the exclusive property of Tecnosystemi SpA.
Tecnosystemi SpA reserves the right to make changes at any time and without notice, for technical or commercial needs.