

TS-HRVU

Ducted ceiling-mounted sensible heat recovery unit

- cod. ACD200068 - cod. ACD200067 - cod. ACD200066
- cod. ACD200075 - cod. ACD200069 - cod. ACD200077
- cod. ACD200078 - cod. ACD200070 - cod. ACD200071
- cod. GAD100017



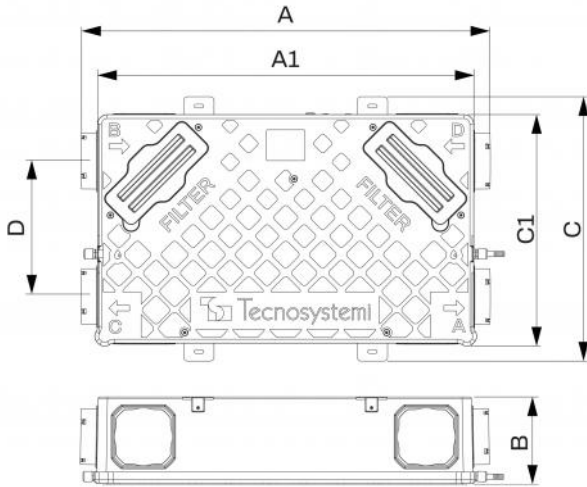
DESCRIPTION

Ductable heat recovery unit designed for ceiling and wall installation, with a cross-counterflow sensible heat exchanger.

SPECIFICATIONS:

- ISO ePM10 50% on the suction ducts
- RS485 communication port with modbus protocol*
- Entire casing made of EPP, providing thermal and acoustic insulation
- High-efficiency sensible heat exchanger, made of polystyrene
- Brushless EC motors
- Reversible air duct connections, adjustable by 90° via interchangeable closing plugs
- Condensate drain
- Free cooling / free heating electronic bypass*
- 4 integrated temperature sensors*
- Antifreeze feature*
- Optional accessories: VMC control with display and weekly programming, 230 V; CO₂ sensor; humidity sensor; MODBUS communication device; cover plate for BOX503 controls; optional additional air filter ISO ePM1 50% (on request).

* only 180-250-320 models



DIMENSIONS

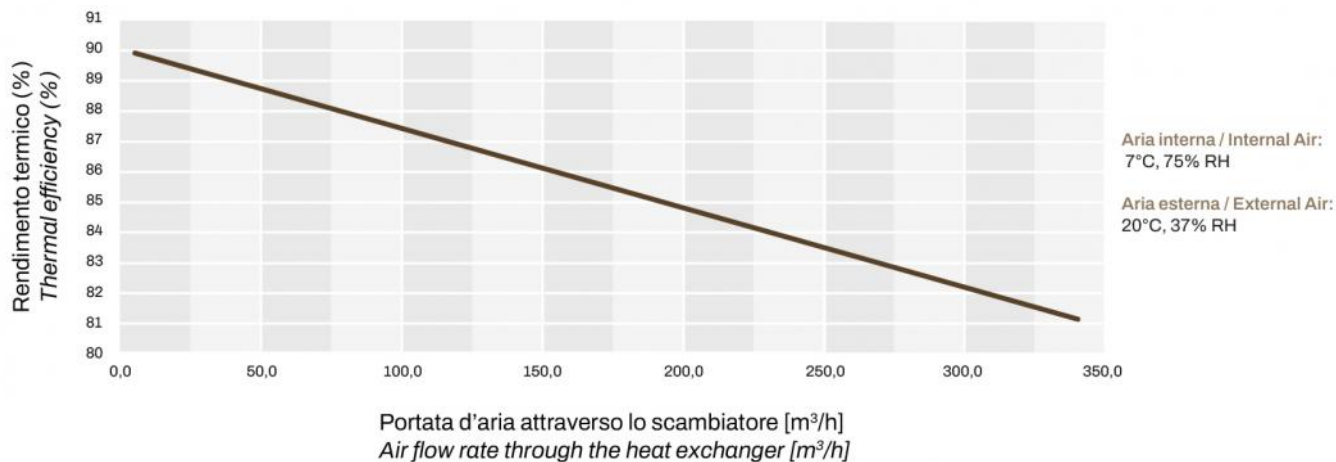
CODE	A [mm]	A1 [mm]	B [mm]	C [mm]	C1 [mm]	D [mm]
ACD200068	1100	990	230	700	610	360
ACD200067	1100	990	230	700	610	360
ACD200066	1100	990	230	700	610	360
ACD200075	1100	990	230	700	610	360

TECHNICAL DATA



Model	HRVU TS120	HRVU TS180	HRVU TS250	HRVU TS320
ELECTRICAL AND OPERATING DATA				
Power supply	230 V – 50 Hz			
Maximum power(W)	55	90	160	200
Maximum current (A)	0.5	0.6	0.8	0.9
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 %			
Antifreeze feature	no	yes (imbalance of flows)		
AEREAULIC AND THERMAL PERFORMANCE (*)				
Volumetric flow rate @100 Pa (m³/h)	120	180	250	280
Heat Efficiency (%)	88.5	87	85.8	85.2
Energy rating (SEC temperate climate)	A			
Sound pressure LpA (2 m)	38	43	47	49
Sound Power LWA dB(A)	52,3	56,6	61,3	63,4
Type of heat recovery unit	Counterflow sensible heat exchanger HRC1a			
Bypass	Not present	Electronically operated mechanical system		
Minimum External Air Temperature (°C)	-15			
Air filters as standard	ISO ePM10 50%			
Additional air filters (upon request)	ISO ePM1 50%			
CONSTRUCTION AND INSTALLATION FEATURES				
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	1/2" thread or hose holder			
Reversible mounting	yes			
CONTROLS				
Remote control	0-10V regulator	4-button WiFi digital control		
Weekly programming	no	Control available on request		
BMS control	0-10 V	MODBUS - RS485		

(*) In accordance with the standard EN 13141-7:2021

HEAT EXCHANGER HEAT EFFICIENCY



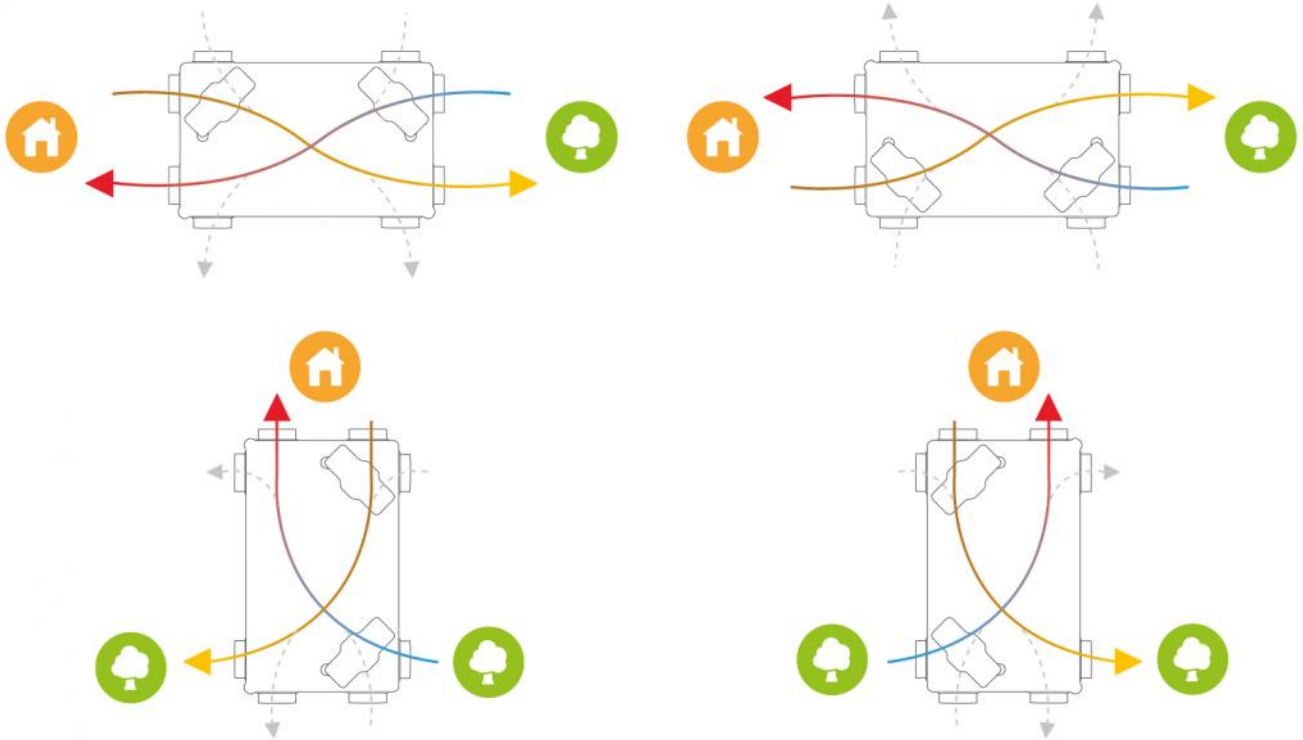
CONTROL DEVICES

	ACD200068	ACD200067	ACD200066	ACD200075
				
				

REVERSIBILITY OF ASSEMBLY

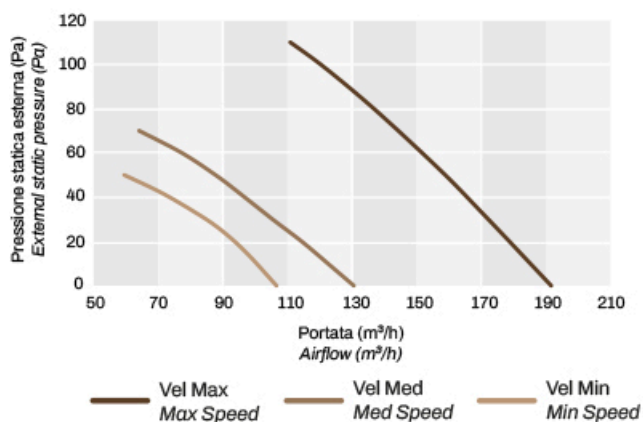


90° ADJUSTABLE AEREAULIC CONNECTIONS

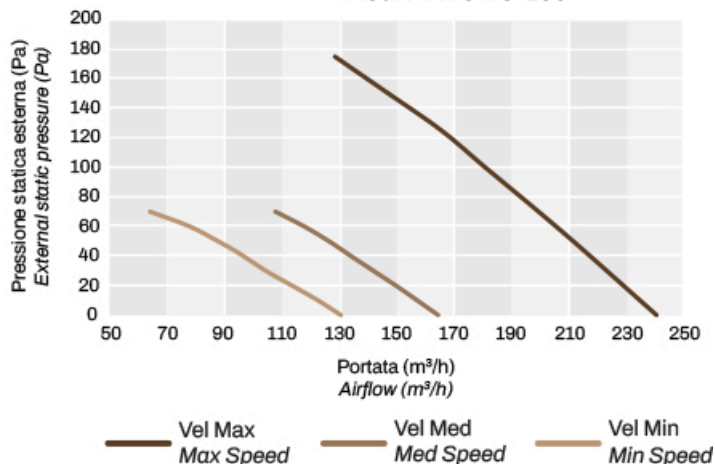


LOAD CAPACITY AND PERFORMANCE GRAPHS

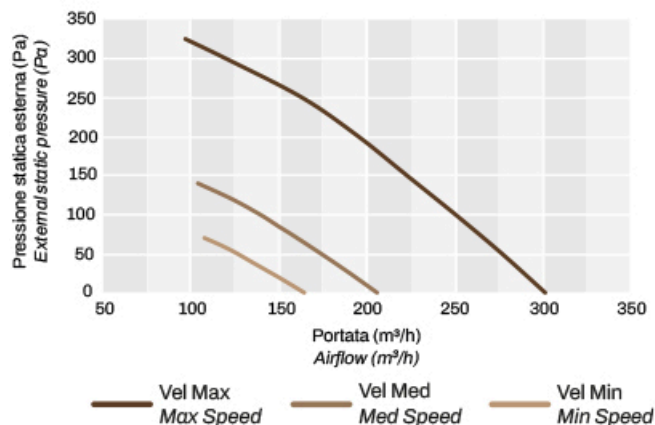
Mod. HRVU TS-120



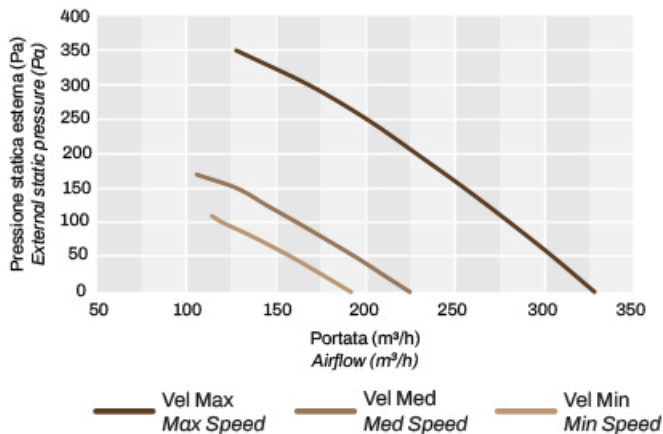
Mod. HRVU TS-180



Mod. HRVU TS-250

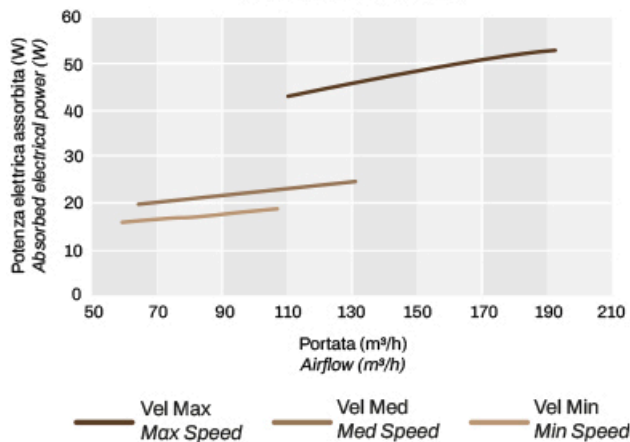


Mod. HRVU TS-320

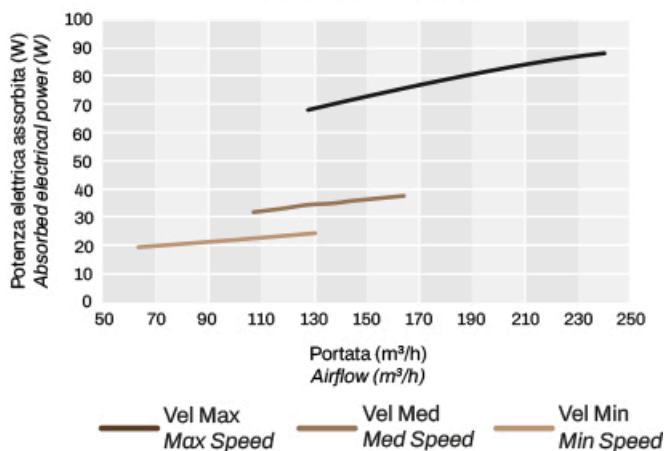


ABSORBED ELECTRICAL POWER GRAPHS

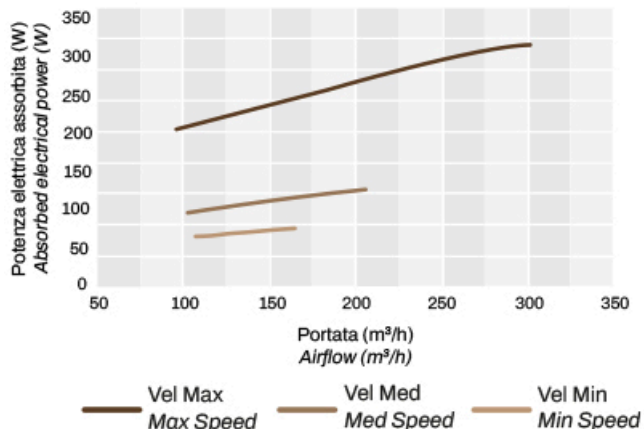
Mod. HRVU TS-120



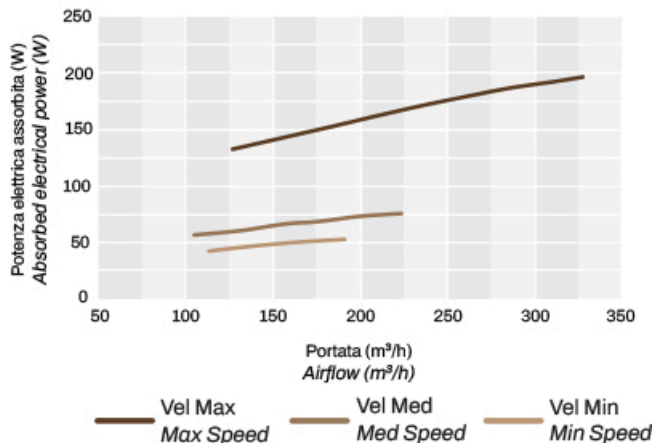
Mod. HRVU TS-180



Mod. HRVU TS-250



Mod. HRVU TS-320



APPLICATIONS



ACCESSORIES



Control for MVHR
display with
programming



Plate and mount for selector switch
installation



Control for HRVU
MVHR CO² sensor



Control for HRVU
MVHR humidity sensor



GATEWAY MVHR

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	CONTROL FOR VMC HRVU SENSOR CO2
ACD200078	CONTROL FOR VMC HRVU SENSOR HUMIDITY
ACD200070	BLOCK FRAME FOR CONTROL DEVICE BOX503
ACD200071	FOLDED FILTER F7 ISO EMP >50% 185x255x22 FOR MODEL 120-180-250-320m3h
GAD100017	GATEWAY VMC TS HRVU - ERVU

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