

TS-ERVU

Enthalpic heat recovery unit ceiling-mounted ducted

- cod. ACD300007 - cod. ACD300008 - cod. ACD300009
- cod. ACD200069 - cod. ACD200077 - cod. ACD200078
- cod. ACD200070 - cod. ACD200071 - cod. GAD100017



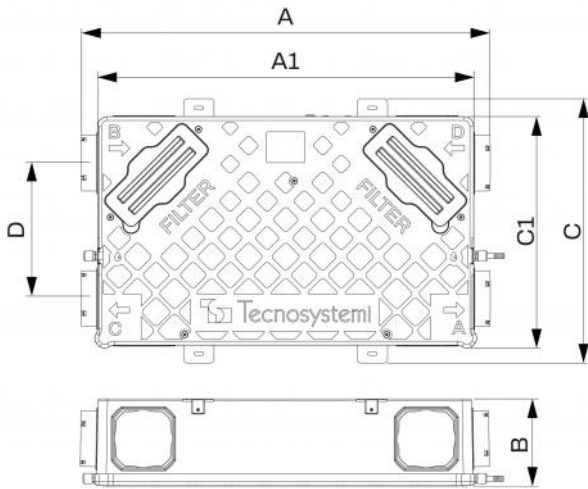
DESCRIPTION

Ductable heat recovery unit designed for ceiling and wall installation, with a cross-counterflow enthalpy 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 enthalpy exchanger, made of PET (polyethylene) and polymer membrane
- 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 models



DIMENSIONS

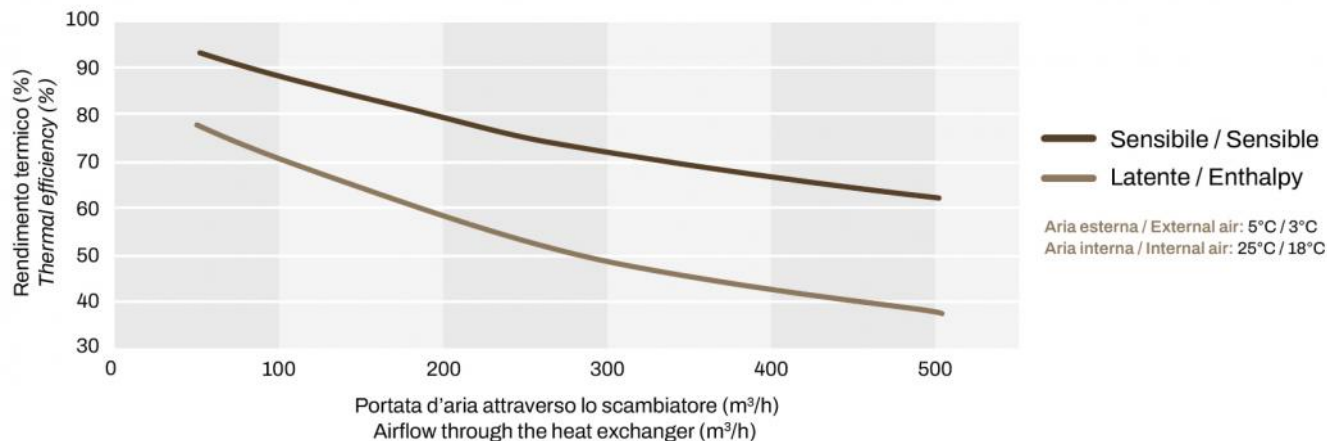
CODE	A [mm]	A1 [mm]	B [mm]	C [mm]	C1 [mm]	D [mm]
ACD300007	1100	990	230	700	610	360
ACD300008	1100	990	230	700	610	360
ACD300009	1100	990	230	700	610	360

TECHNICAL DATA






Model	ERVU TS120	ERVU TS180	ERVU TS250
ELECTRICAL AND OPERATING DATA			
Power supply	230 V – 50 Hz		
Maximum power(W)	60	100	180
Maximum current (A)	0.5	0.6	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)	8lt; 85 %		
Antifreeze feature	no	yes (imbalance of flows)	
AEREAULIC AND THERMAL PERFORMANCE (*)			
Volumetric flow rate @100 Pa (m³/h)	120	180	250
Heat Efficiency (%) (20°C - 7°C)	83.8	79.3	75.5
Heat Efficiency (%) (20°C - 2°C)	82.3	79.2	75.2
Humidity recovery rate (%)	58.9	54.2	48.6
Energy rating (SEC temperate climate)	A		
Sound pressure LpA (2 m)	38	43	49
Sound Power LWA dB(A)	52,3	56,6	63,4
Type of heat recovery unit	Counterflow enthalpy heat exchanger HRC1x		
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



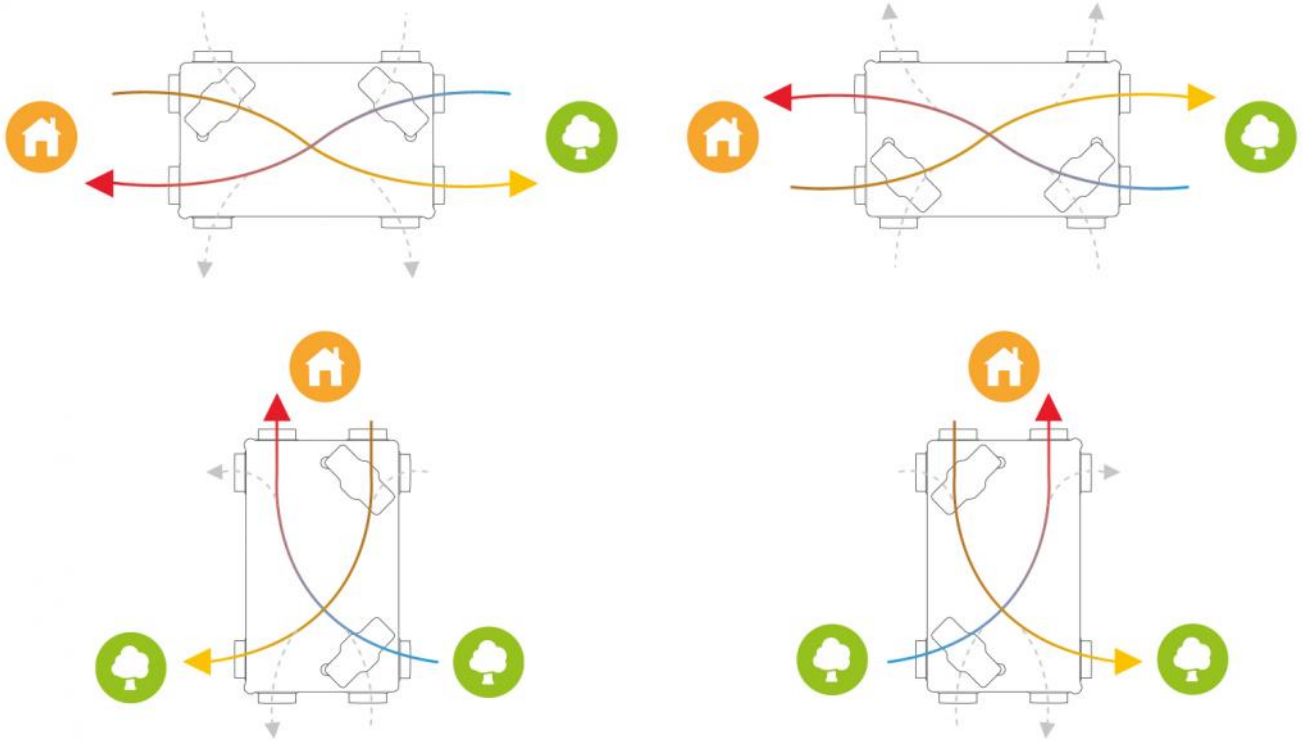
CONTROL DEVICES

	ACD300007	ACD300008	ACD300009
			
			

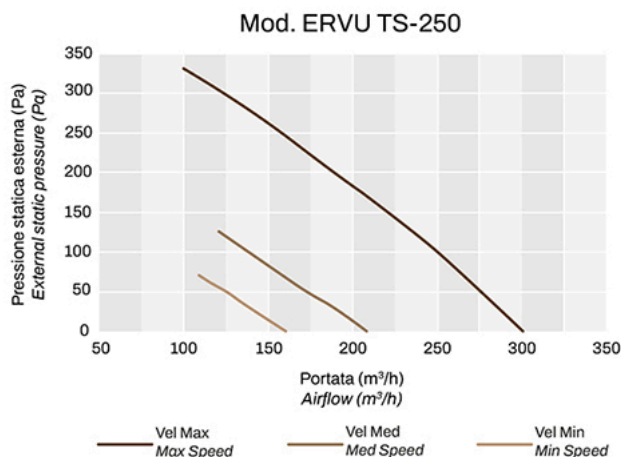
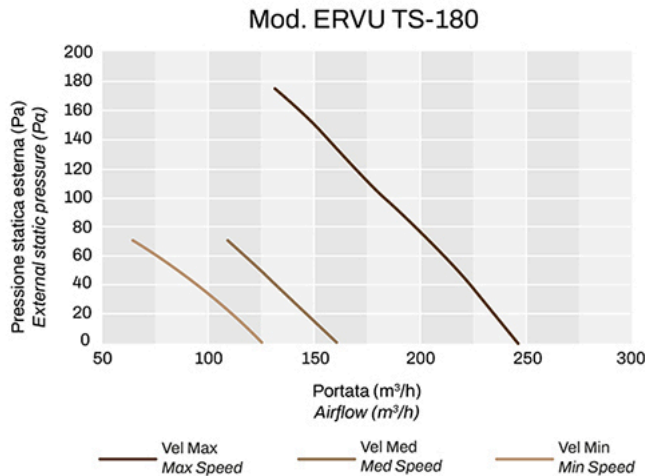
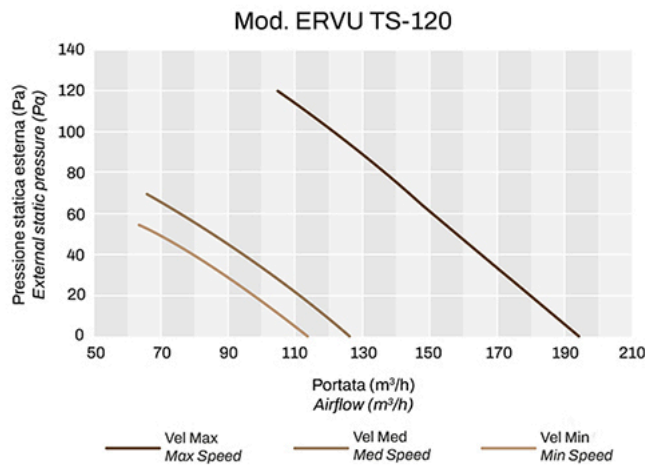
REVERSIBILITY OF ASSEMBLY



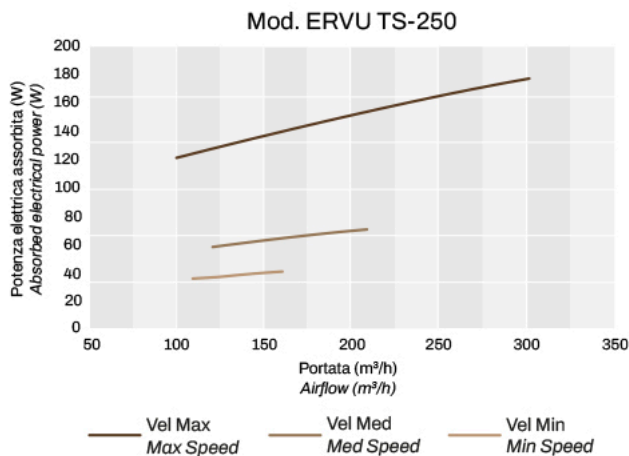
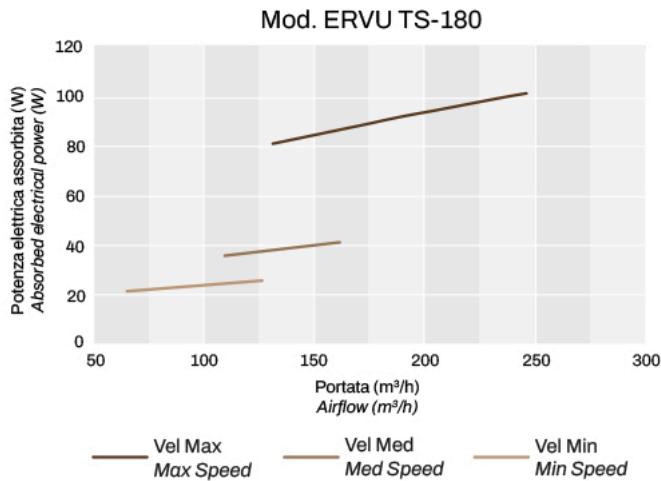
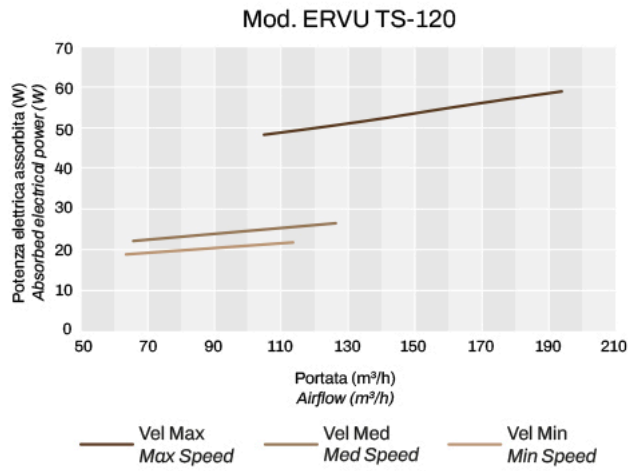
90° ADJUSTABLE AEREAULIC CONNECTIONS



LOAD CAPACITY AND PERFORMANCE GRAPHS



ABSORBED ELECTRICAL POWER GRAPHS



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
ACD300007	VENTILATION UNIT WITH HEAT RECOVERY ERVU TS120 0/10V ENTHALPY
ACD300008	VENTILATION UNIT WITH HEAT RECOVERY ERVU TS180 RF ENTHALPY
ACD300009	VENTILATION UNIT WITH HEAT RECOVERY ERVU TS250 RF ENTHALPY
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
GAD100017	

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