

HI-TECH PUR 4.0

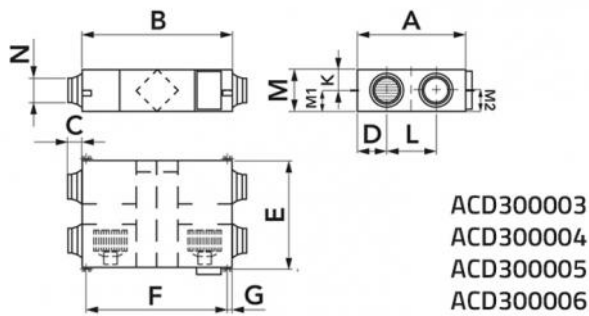
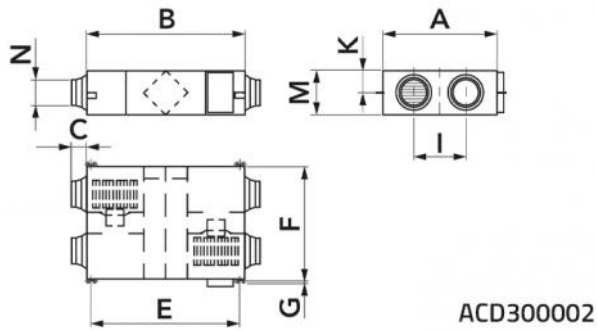
Enthalpic heat recovery unit ceiling-mounted ducted

- cod. ACD300002 - cod. ACD300003 - cod. ACD300004
- cod. ACD300005 - cod. ACD300006



TECHNICAL SPECIFICATIONS:

- For residential and non-residential applications
- Removable enthalpy heat exchanger pack
- Automatic by-pass
- Brushless EC motors
- Internal structure in EPS that prevents condensation and improves thermal insulation
- Backlit LCD digital remote control
- BMS compatible VIA RS485 modbus protocol
- ON/OFF remote control
- Silent function "sleep"
- Defrost Function
- Fire signal input
- Suitable for combination with electric heater
- Extractable filters G3
- Anchor brackets



DIMENSIONS

CODE	MOD.	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	I [mm]	L [mm]	K [mm]	M [mm]	M1 [mm]	M2 [mm]	N [mm]
ACD300002	250 m ³ /h	599	814	100		745	657	19	315		111	270			Ø 144
ACD300003	500 m ³ /h	902	867	107	197	833.5	922	20.5		451.5	115.5	280	193.5		Ø 194
ACD300004	800 m ³ /h		1134	85	202	1068	1189	20.5		628	128	388	194		Ø 242
ACD300005	1000 m ³ /h	1243	1193	85	241	1173	1248	20.5		629.5	133	388	191	241	Ø 242
ACD300006	1300 m ³ /h	1243	1193	85	241	1173	1248	20.5		629.5	133	388	191	241	Ø 242

TECHNICAL DATA

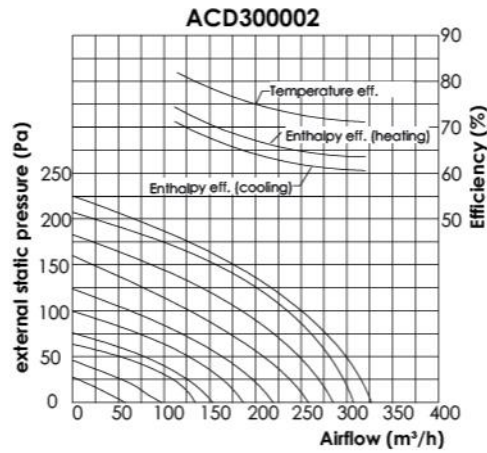
	MODELS				
	ACD300002	ACD300003	ACD300004	ACD300005	ACD300006
Flow rate [m³/h]	250	500	800	1000	1300
Flow rate [l/s]	70	139	222	278	361
External pressure [Pa]	100	120	150		90
Enthalpy efficiency - COOLING [%]	62-71	60-74	63-71	60-70	56-68
Enthalpy efficiency - HEATING [%]	65-73	63-78	65-75	62-72	59-70
Temp. efficiency [%]	73	76			73
Noise [dB(A)]	34.5	39	42	43	
Power supply	220-240 V - 50 Hz -1 Ph				
Electrical power [W]	80	230	368	409	424
Power cable [mm²]	3x1,5				
Control cable [mm²]	2x0,5				
Standard control	yes (weekly clock)				
BMS / MODBUS control	yes				
Fan type	Brushless DC motor				
Fan speed	10-speed control				
Summer bypass	yes (automatic with adjustable flow rate)				
Fan boost	yes (1x connections available to voltage-free contacts: closed = switch to maximum speed)				
Fire stop	yes (1x connections available to voltage-free contacts: closed = power off)				
Weight [kg]	25	34	61	71	
Duct diameter [mm]	144	194	242		

ECODESIGN DATA

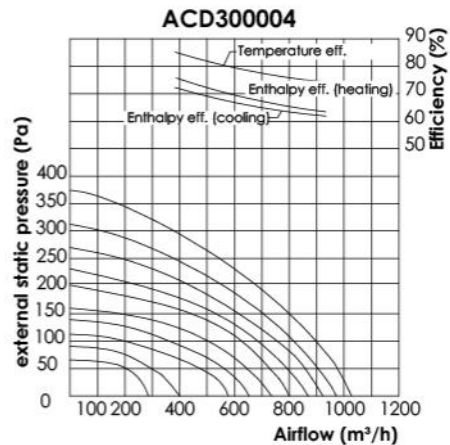
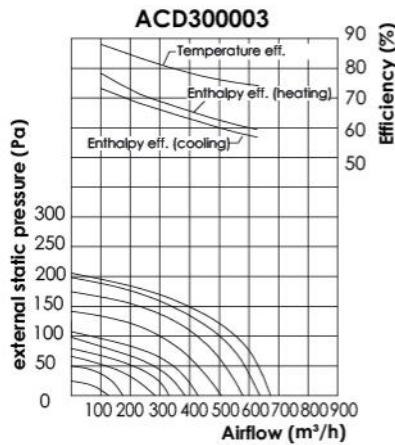
a) Brand		Tecnosystemi				
b) Model		ACD300002	ACD300003	ACD300004	ACD300005	ACD300006
c) Type		UVNR/UVB - Non-residential ventilation unit, bidirectional				
d) Driving type		with 10 speeds				
e) HRS type		Recovery				
f) thermal efficiency of the heat recovery	%	73	76			83
g) nominal flow rate	m ³ /s	0.069	0.139	0.222	0.278	0.361
h) electrical power consumption	kW	0.08	0.23	0.368	0.409	0.424
i) SFPint	W/(m ³ /s)	152	191	166	184	212
j) frontal speed at design flow rate	m/s	1.22	1.5	1.26	1.42	1.7
k) nominal external pressure (Δps, ext)	Pa	100	120	150		90
l) internal pressure drop of ventilation components (Δps, int)	Pa	88	111	93	107	110
n) fan static efficiency as indicated in Regulation (EU) No 327/2011	%	58		56	58	
o) maximum declared percentage of internal leakage	%	3				
o) maximum declared percentage of external leakage	%	7.8	7.7	7.8		
p) energy classification of filters		C				
q) description of visual warning sign for the filter		pressure control				
r) sound power level on the casing (LWA)	dB(A)	34.5	39	42	43	
s) internet address		www.tecnosystemi.com				

In accordance with EU Regulation No. 1253/2014 of the European Commission implementing Directive 2009/125/EC.

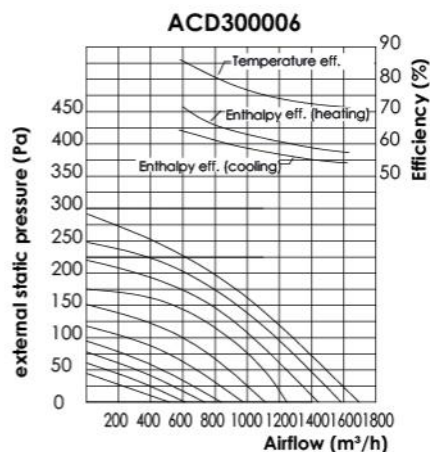
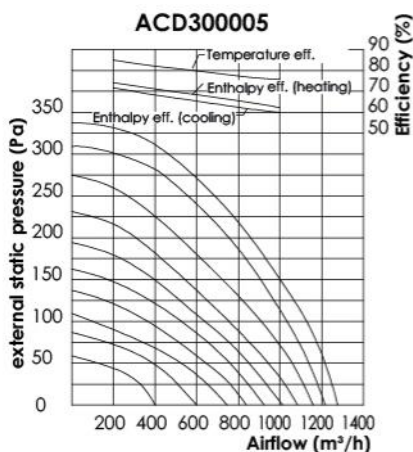
FLOW RATE DIAGRAM ACD300002



FLOW RATE DIAGRAM ACD300003 - ACD300004



FLOW RATE DIAGRAM ACD300005 - ACD300006



ITEMS

CODE	DESCRIPTION
ACD300002	ENTHALPIC HEAT RECOVERY UNIT - Model HI-TECH PUR 4.0 250m³/h
ACD300003	ENTHALPIC HEAT RECOVERY UNIT - Model HI-TECH PUR 4.0 500m³/h
ACD300004	ENTHALPIC HEAT RECOVERY UNIT - Model HI-TECH PUR 4.0 800m³/h
ACD300005	ENTHALPIC HEAT RECOVERY UNIT - Model HI-TECH PUR 4.0 1000m³/h
ACD300006	ENTHALPIC HEAT RECOVERY UNIT - Model HI-TECH PUR 4.0 1300m³/h

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