

TECHNICAL DATA



UNIT	CONTROL	ENERGETIC CLASS
UVD	EVO(D)-PH	Α
0.2	EVO(D)-PH + probe	Α
UVD-ENT	EVO(D)-PH	В
OVELIVI	EVO(D)-PH + probe	А





AVAILABLE THE ENTHALPIC VERSION

AVAILABLE THE MIRRORED VERSION



UVD 1 VENTILATION UNIT with HEAT RECOVERY for RESIDENTIAL BUILDINGS







UVD

Ventilation unit, residential for size 1 and tertiary for size 2, double flow with high efficiency heat recovery.

EUIIDDED

it is equipped with an aluminum counterflow heat exchanger (Eurovent certified). The unit includes the By-pass, which permits to take advantage of the climatic conditions outside the building for automatic free cooling (or free heating). Available also the version with Enthalpic heat exchanger

STRUCTURE

The UVD is realized with a self-supporting casing made by panels, thickness 36 mm, sandwiched on injected polyurethane foam insulation. The casing and the internal parts are realized in zinc magnesium, material with a high resistance to corrosion and an outside attractive appearance. The front door allows quick replacement of filters ePM1 55% (F7) for fresh air and ePM10 50% (M5) for exhaust air). UVD can installed on the floor or under the ceiling, with ambient temperature between 0° C and 45° C. Floor installation

CONTROLS

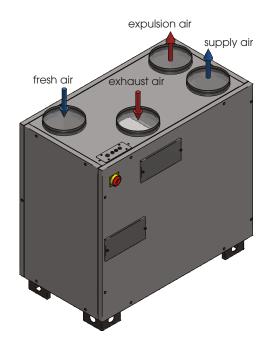
UVD is supplied with control system and easy connection to the power supply. It's also available the version with EVO-PH control and the version with EVOD-PH-IP control ready for integration in home automation systems (Modbus protocol with Ethernet connection or, upon request, with the addition of the RS485 connection).

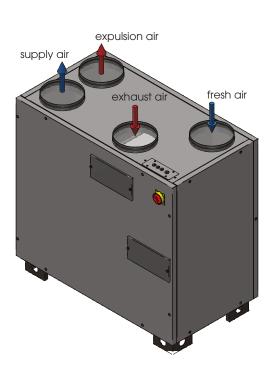
The new version of our control systems allows the user to shift from one control system to another very quickly and easily by replacing the remote panel even after the installation.

The EVO-PH control has a colored backlit touch screen interface, it gives an intuitive operating status of the unit and it allows programming the fan speed. This control has a weekly time schedule for automatic unit control, it can be controlled by an external switch to activate the booster and it can automatically adjust the air flow when connected to an air quality sensor. It supports post-air treatment accessories and it advises the user if filters needs to be replaced (the filter clogging is monitored by a pair of differential pressure sensors) or if there is any other fault showing where it comes from. If the unit includes the optional COP Kit or CAV Kit (installed in the duct) you can program the heat recovery unit either as constant pressure or as constant flow.

The EVOD-PH-IP control has the same characteristics of the EVO-PH version with the addition of the Modbus communication protocol and it allows full control of the unit by the Home Automation software system. If the unit is in a Home Automation network, the webserver lets the user interact with it throughout a device connected to an Internet browser.

For a more complete view of the characteristics of the control panels, please read the specific manuals.







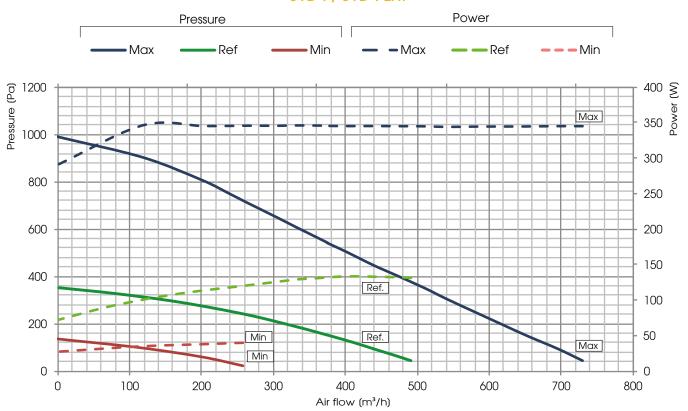
Counterflow heat exchanger made of aluminum manufactured by RECUTECH RECUTECH participates in the Eurovent Certification Program



PERFORMANCES (UNI EN 13141-7)

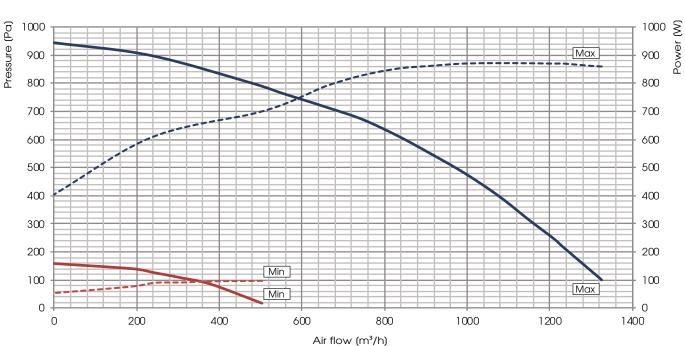
The unit must be ducted properly: UTEK authorizes the use only according to its performance diagram shown into this catalogue. The declared performances are with CLEAN filters, and guaranteed ONLY with the original filters UTEK low pressure drop.

UVD 1 / UVD 1 ENT



UVD 2 / UVD 2 ENT





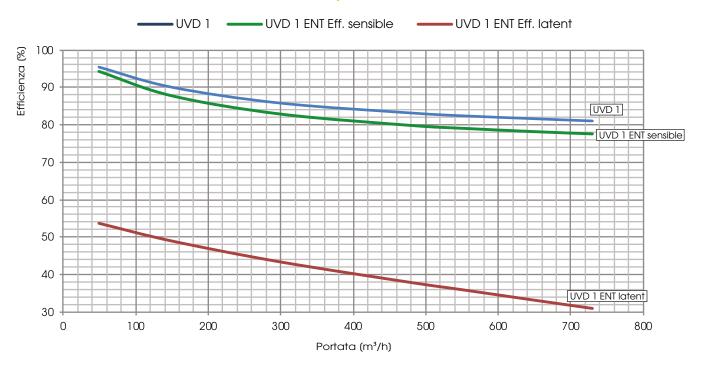




HEAT RECOVERY PERFORMANCE (sensible efficiency)

Values refered to the following conditions (UNI EN 13141-7): Tbs external air 7°C; U.R. esternal 72%; Tbs environment 20°C; U.R. environment 38%

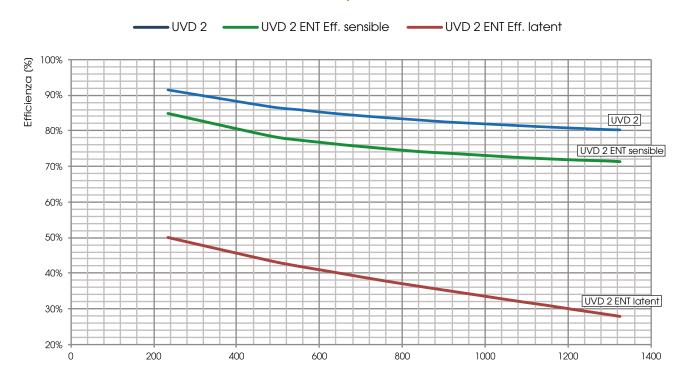
UVD 1 / UVD 1 ENT



EFFICIENZA DI RECUPERO DEL CALORE SENSIBILE

Values refered to the following conditions (UNI EN 308:1998): Tos external air 5°C; U.R. esternal 72%; Tos enviorment 25°C; U.R. enviorment 38%

UVD 2 / UVD 2 ENT







TEST LEAKAGE UVD according UNI EN 13141-7

LEAKAGE	TEST CONDITIONS	UVD CLASS	UVD 2 CLASS
OUTDOOR	Positive pressure 250 Pa	Al	A2
OUTDOOR	Negative pressure 250 Pa	Al	A2
INDOOR	Pressure difference 100 Pa	A2	A2

NOISE LEVEL

Lw Sound power level taken in accordance to UNI EN ISO 3747 - CLASS 3

			NOISI	E FROM THE	CASE (dB)			
Unit UVD / UVD ENTHALPIC	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L _w dB(A)
MAX	60,7	67,9	65,0	57,5	50,8	45,8	48,7	65,1
REF	58,4	65,3	60,2	52,5	44,9	37,8	42,2	60,9
			NOIS	E IN THE DU	CTS (dB)			
Unit UVD / UVD ENTHALPIC	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L _w dB(A)
MAX	66,3	70,4	79,5	66,2	64,1	59,1	64,1	77,4
REF	62,0	67,6	64,1	60,5	56,2	50,6	57,5	66,4
			NOIO	FEDOMATUE	O 4 0E (-ID)			
				E FROM THE	` ,			
Unit UVD 2	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L _w dB(A)
	78,1	75,9	67,4	58,5	55,8	44,3	35,5	70,3
			NOIC	E IN THE DU	OTC (AD)			
			110131	E IIN THE DU	JIS (GB)			
Unit UVD 2	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_{w}dB(A)$
	83,2	80,1	79,1	73,1	69,3	64,1	58,3	79,7

ELECTRICAL DATA

MATCHING			UNIT UVD / UV	D ENTHALPIC		
	Power*(W)	Supply	Current max (A)	Insulation class	Supply	Current max (A)
UVD / UVD ENTHALPIC	2 x 170	230 V, 50/60 Hz 1F	2 x 1,5	IP 54	230 V, 50 Hz 1F	3,2
UVD 2	2 x 349	230 V, 50 Hz 1F	2 x 3,0	IP 54	230 V, 50 Hz 1F	6,0

^(*) Fan data, it's referred to the global absorbed power graph of the machine in the working point

VALUES ACCORDING UNI EN 1886: 2008

UNIT	CASING STRENGTH	CASING LEAKAGE	FILTER CLASS	THERMAL TRANSMITTANCE	THERMAL BRIDGE
UVD 2	D1 (M)	L3 (M)	ePM1 70% (F7) (M)	T4 (M)	TB3 (M)

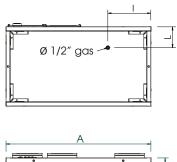
ECODESIGN UVD 2

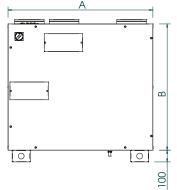
UNIT	η t_nvru (%)	Qnom (m³/s)	$\Delta p_{s,ext}$ (Pa)	P (kW)	SFPint (W/(m³/s))	SFPint_lim 2016 (W/(m³/s))	SFPint_lim 2018 (W/(m³/s))	FACE VELOCITY(m/s)	$\Delta p_{s,int}$ (Pa)	n Fan (%)		* External LEAKAGE (%)
UVD 2	81,8	0,29	440	0,87	1300	1599	1319	1,69	810	63,5	3,2	4,5
UVD 2 ENT	74,0	0,24	580	0,85	1077	1374	1094	1,43	598	58,7	3,8	5,4

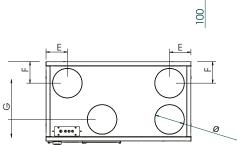


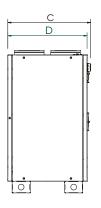


DIMENSIONS (mm) WEIGHT (kg)





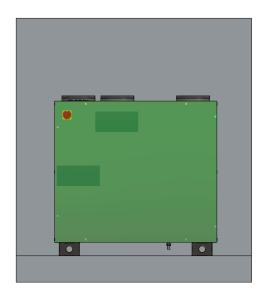


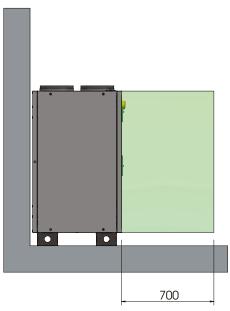


	Dimensions (mm)								
	Α	В	С	D	Е	F	G	Ø	Weight(kg)
UVD 1	930	930	699	671	153	186	203	200	85
UVD 2	1230	1072	704	673	181	182	490	250	139

FLOOR INSTALLATION

Minimum required space for maintenance (mm)







Α	Manufacturer's name C.L.A. S.r.I			
В	Manufacturer's model identifier	UVD 1 BP EVO-PH SV	UVD 1 ENTHALPIC BP EVO-PH SV	
	Specific energy	-72,3	-70,3	
С	consumption SEC (kWh/m², g)	-35,7	-34,7	
	WARM	-12,1	-11,7	
	SEC class	А	A	
D	Declared typology	UVR - UVB	UVR - UVB	
Е	Type of drive installed	Variable speed	Variable speed	
F	Type of heat recovery system	Recovery	Recovery	
G	Thermal efficiency of heat recovery (%)	83,1	79,7	
Н	Maximum flow rate (m³/s)	0,192	0,192	
- 1	Electrical power input at maximum flow rate (W)	345	345	
- 1	Sound power level (Lwa)(dB)	61	61	
K	Reference flow rate (m³/s)	0,135	0,135	
L	Reference pressure difference (Pa)	50	50	
M	SPI (W/m³/h)	0,273	0,273	
	Control factor CLTR	0,95	0,95	
Ν	Control typology	Timer control	Timer control	
	Control typology	(without DCV)	(without DCV)	
0	Declared maximum internal / external leakage rates (%)	5,2 / 2,5	5,2 / 2,5	
Р	Mixing rate of non-ducted bidirectional ventilation units (%)	-	-	
Q	Position and description of visual filter warning for RVUs intended for use with filters, including text pointing out the importance of regular filter changes for performance and energy efficiency of the unit	"DirtyFilters" will appear. "To preserve	of the control system: the flashing writing the energy efficiency of the NRVU, it's when signaled." Positioned near the filters	
R	For unidirectional ventilation systems, instructions to install regulated supply/exhaust grilles in the façade for natural air supply/extraction	-	-	
S	Internet address for pre-/dis-assembly instructions	www.utek-air.it		
Т	For non-ducted units only: the airflow sensitivity to pressure variations at + 20Pa and - 20 Pa	-	-	
U	For non-ducted units only: the indoor/outdoor air tightness	-	<u>-</u>	
V	The annual electricity consumption (AEC) kWh/(a	354	354	
W	The annual heating saved (AHS) for each type of climate	1985 (WARM)	1938 (WARM)	
VV	kWh/a	8586 (COLD) 4389 (AVERAGE)	8385 (COLD) 4286 (AVERAGE)	
		4007 (1 (1210 1012)	7200 (11/11/102)	



Α	Manufacturer's name C.L.A. S.r.I.					
В	Manufacturer's model identifier	UVD 2 BP EVO-PH SV	UVD 2 ENT BP EVO-PH SV			
С	Declared typology	UVNR / UVB	UVNR / UVB			
D	Type of drive installed	Variable speed	Variable speed			
Ε	Type of HRS	other	other			
F	Thermal efficiency of heat recovery (%)	81,8	74,0			
G	Nominal NRVU flow rate (m³/s)	0,38	0,33			
Н	Effective electric power input (kW)	0,85	0,85			
-1	SPFint W/(m³/s)	1251	1053			
J	Face velocity at design flow rate (m/s)	2,24	1,95			
K	Nominal external pressure (Pa)	260	420			
L	Internal pressure drop of ventilation components (Pa)	808	692			
М	Optional: internal pressure drop of non-ventilation components					
N	Static efficiency of fans used in accordance with Regulation (EU) No 327/2011 (%)	64,9	65,3			
	Declared maximum external leakage rate of the casing of ventilation units (%)	1,5	1,8			
0	Declared maximum internal leakage rate of bidirectional ventilation units or carry over (for regenerative heat exchangers only) (%)	2,2	2,5			
Р	Energy performance, preferably energy classification, of the filters (declared information about the calculated annual energy consumption	ePM1 70% (F7) ePM10 50% (M5)	ePM1 70% (F7) ePM10 50% (M5)			
Q	Position and description of visual filter warning for RVUs intended for use with filters, including text pointing out the importance of regular filter changes for performance and energy efficiency of the unit	Filter warning is signaled on the the flashing writing "DirtyFilters" energy efficiency of the NRVU, the filters when signaled." Positi	will appear. "To preserve the			
R	Casing sound power level (LWA) (dB)	70	70			
S	Internet address for pre-/dis-assembly instructions	www.utek-air.it				

Dear Customer

Thanks for your attention to the product UTEK, designed and manufactured to ensure the real values to the User: Quality, Safety and Savings on working.



AZIENDA CON SISTEMA DI GESTIONE QUALITÀ CERTIFICATO DA DNV GL ISO 9001 AZIENDA CON SISTEMA DI GESTIONE AMBIENTALE CERTIFICATO DA DNV ISO 14001



the Dealer

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UVD 1 VENTILATION UNIT with HEAT RECOVERY for RESIDENTIAL BUILDINGS

UVD 2 VENTILATION UNITS with HEAT RECOVERY for TERTIARY AND INDUSTRY