Utek

indoor air quality and energy saving

TECHNICAL DATA

UTA

VENTILATION UNIT WITH HEAT RECOVERY FOR COMMERCIAL AND INDUSTRIAL BUILDINGS

UTA
Non-residential Ventilation Unit (NRVU) for large air flow rates.

PERFORMANCE

Equipped with a high-efficiency counter-flow heat exchanger (Eurovent certified) and EC centrifugal fans with backward-curved blades. The standard automatic full by-pass allows the unit to exploit favorable outdoor conditions for automatic free cooling (or free heating).

STRUCTURE

The unit consists of three base modules (two ventilation/filtration modules and one heat recovery/by-pass module) that can be easily installed and assembled thanks to quick mechanical and electrical connections. Each module is made with extruded aluminum profiles and zinc-magnesium sandwich panels insulated with 45 mm thick polyurethane foam. The unit is designed with rectangular connections for the air supply/extraction ducts. Five sizes are available, all equipped with automatic full by-pass. Optional post-heating devices (electric or hot water) and the electric pre-heater are integrated in the unit. The post-cooling/heating water coil and the direct expansion coil are available as additional modules. The filtering sections consist of standard-size filter modules:
-ePM1 55% (F7) for fresh air intake
-ePM10 50% (M5) for exhaust air flow
CAV (Constant Air Volume) supplied as standard.

CONTROLS

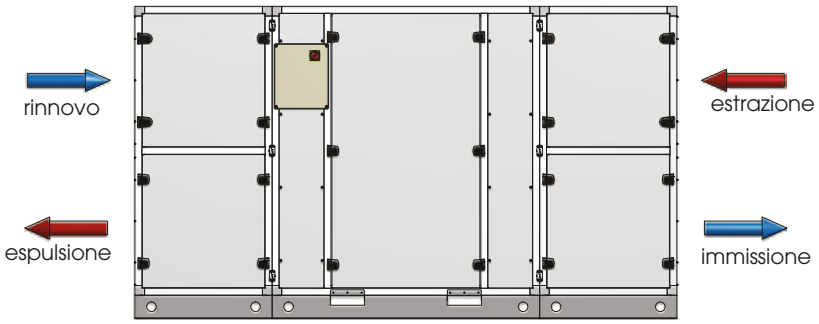
The UTA is supplied in a plug-and-play configuration with different control systems. For further information, please refer to the control systems datasheet.

ACCESSORIES

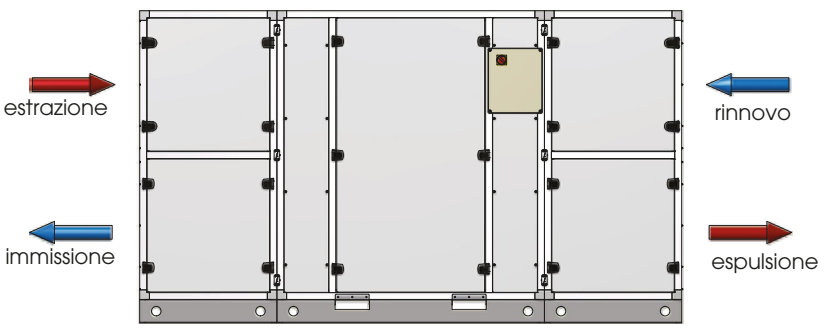
The unit can also be equipped with additional accessories such as:
-Recirculation module
-Silencer module
-Pre-filters and bag filters
-Humidity, CO_2 or CO_2/VOC sensor
-Constant pressure operation kit
-Protective roof for outdoor installation
-Grilles and dampers

For a more complete overview of the control system features, please refer to the relevant manuals.

UTA configurazione STANDARD



UTA configurazione SPECCHIATA

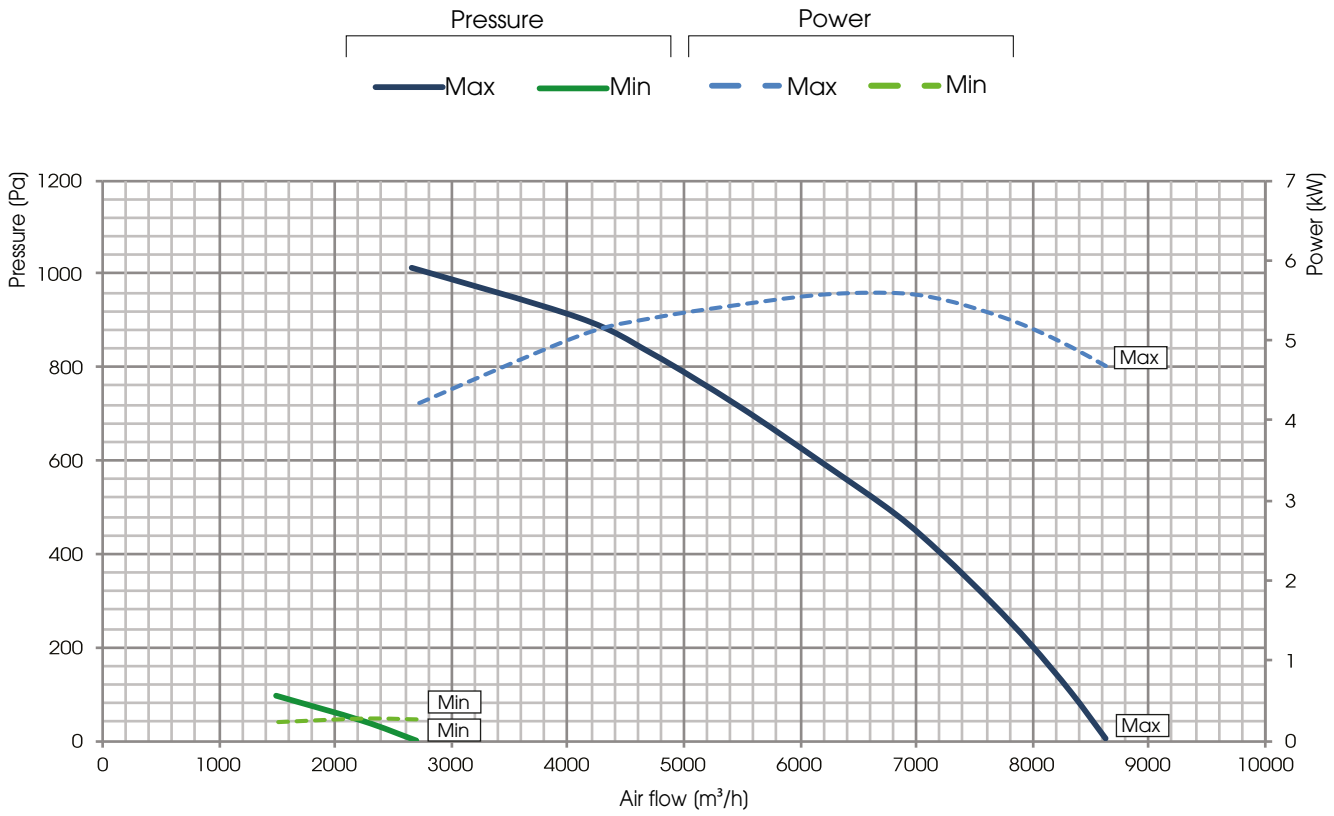


AERAULIC PERFORMANCE (UNI EN 13141-7)

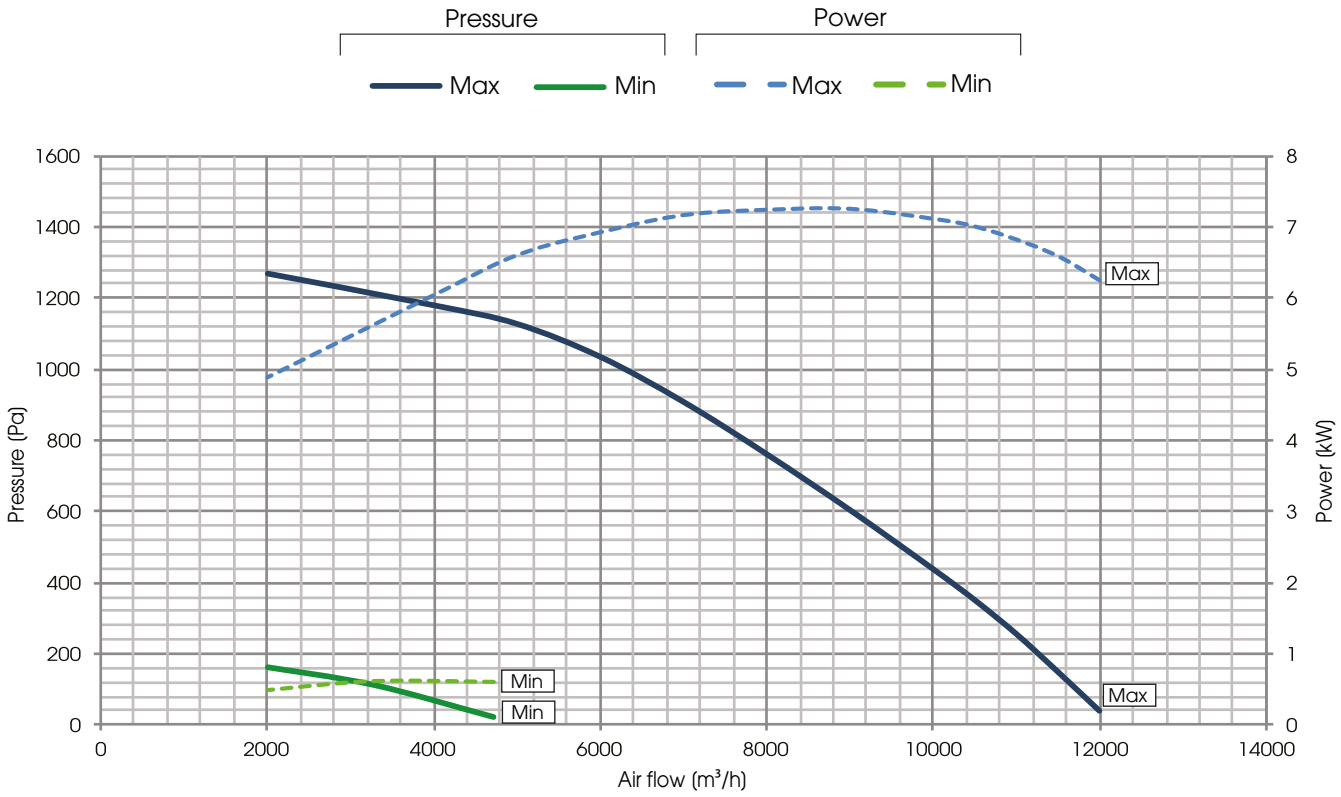
The unit must be ducted: its use is authorized only within the operating curve shown.

Declared performance with clean M5 / F7 flat filters, guaranteed exclusively when using original UTEK low pressure drop filters.

UTA 1



UTA 1+



AERAULIC PERFORMANCE (UNI EN 13141-7)

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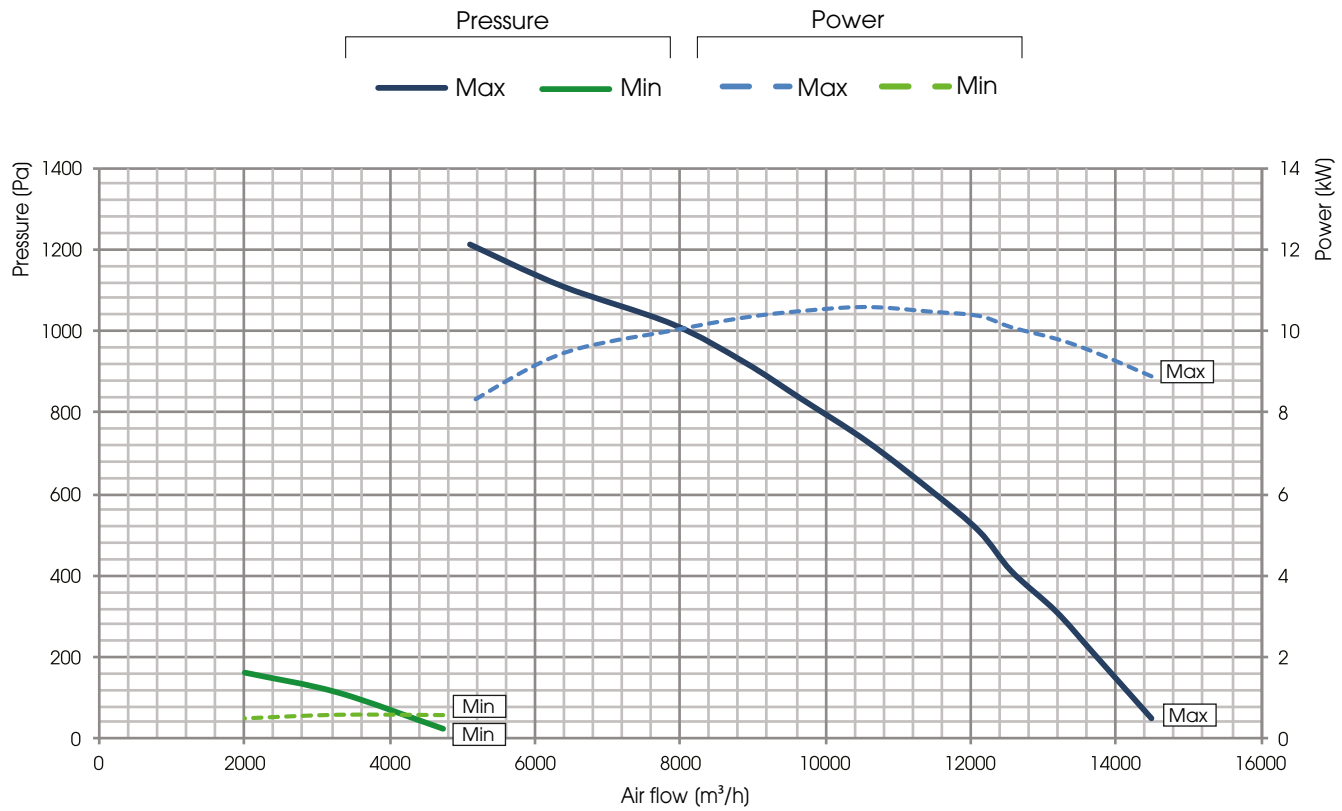
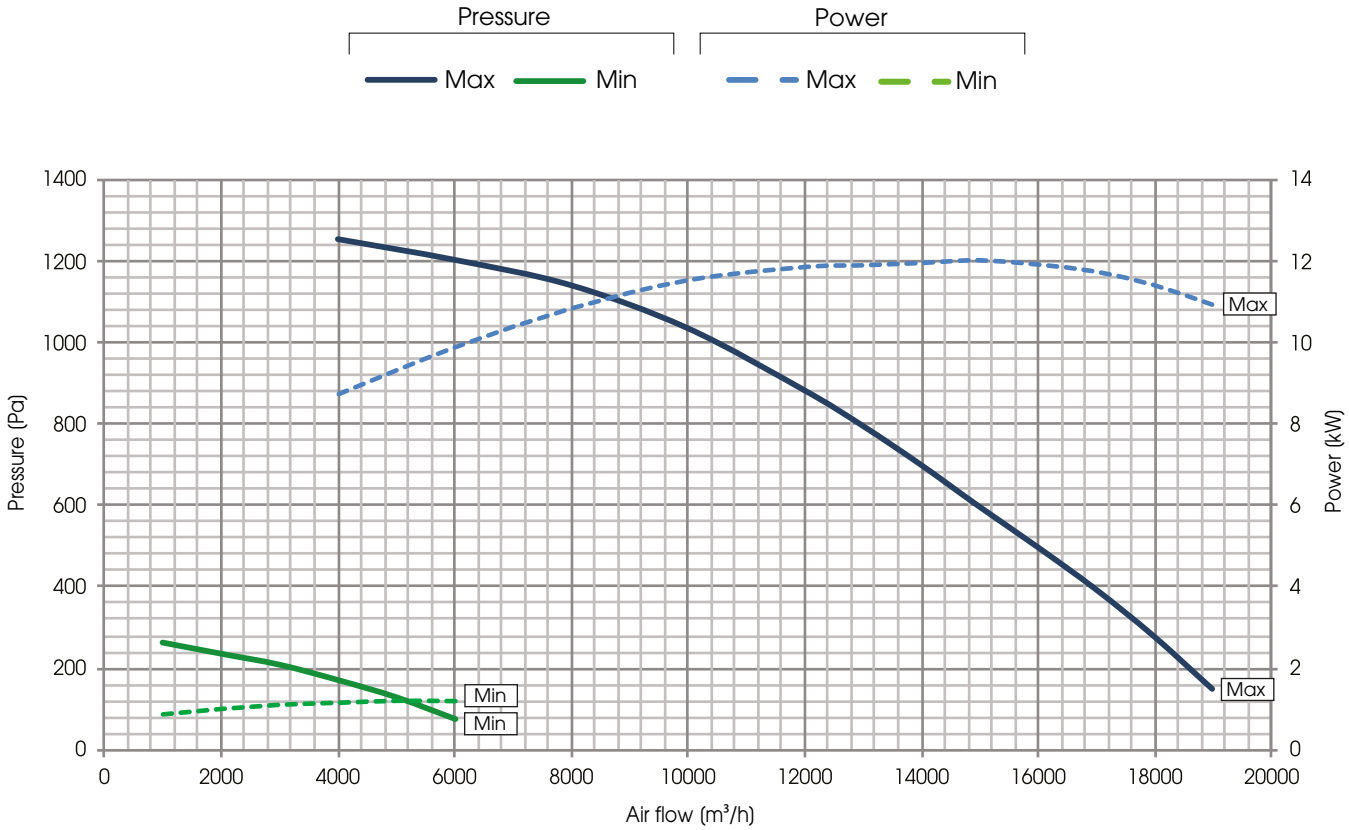
UTA 2



UTA 3



AERAULIC PERFORMANCE (UNI EN 13141-7)

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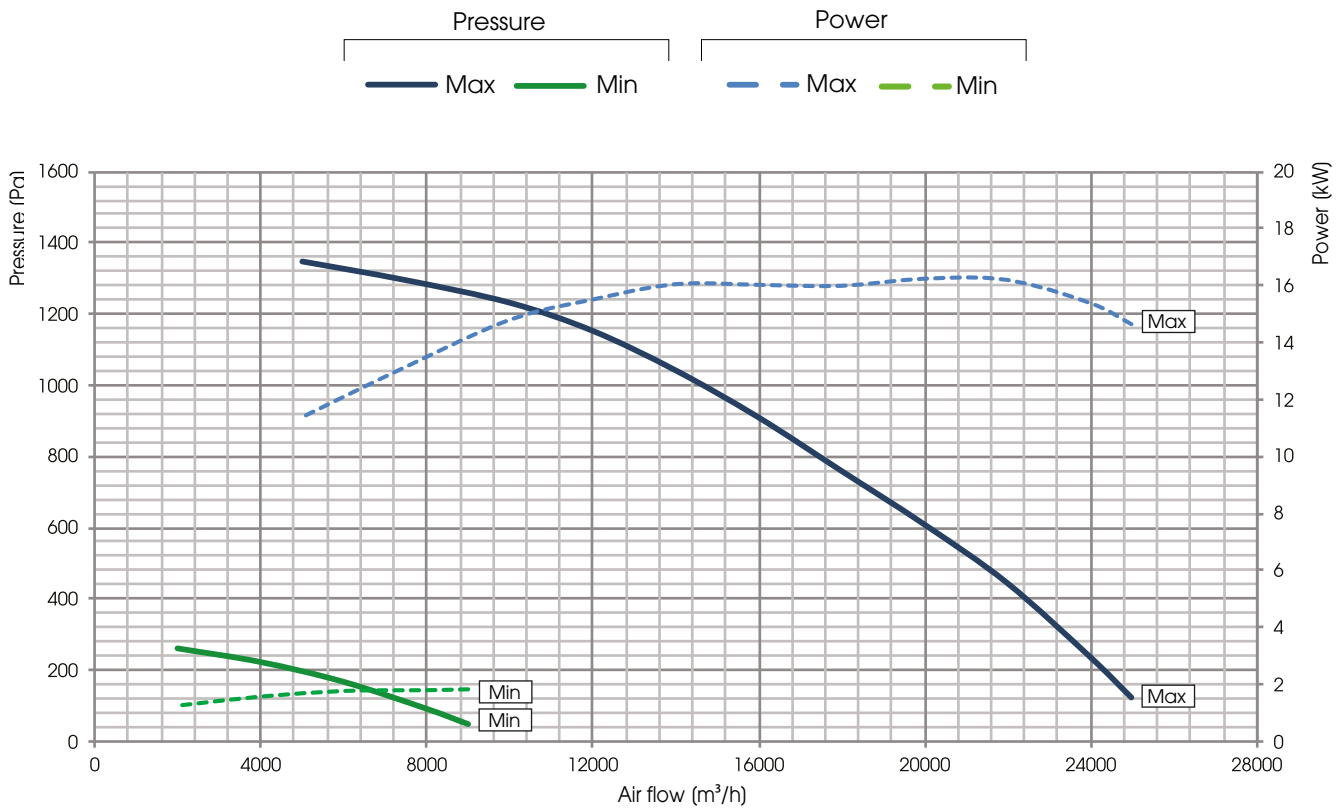
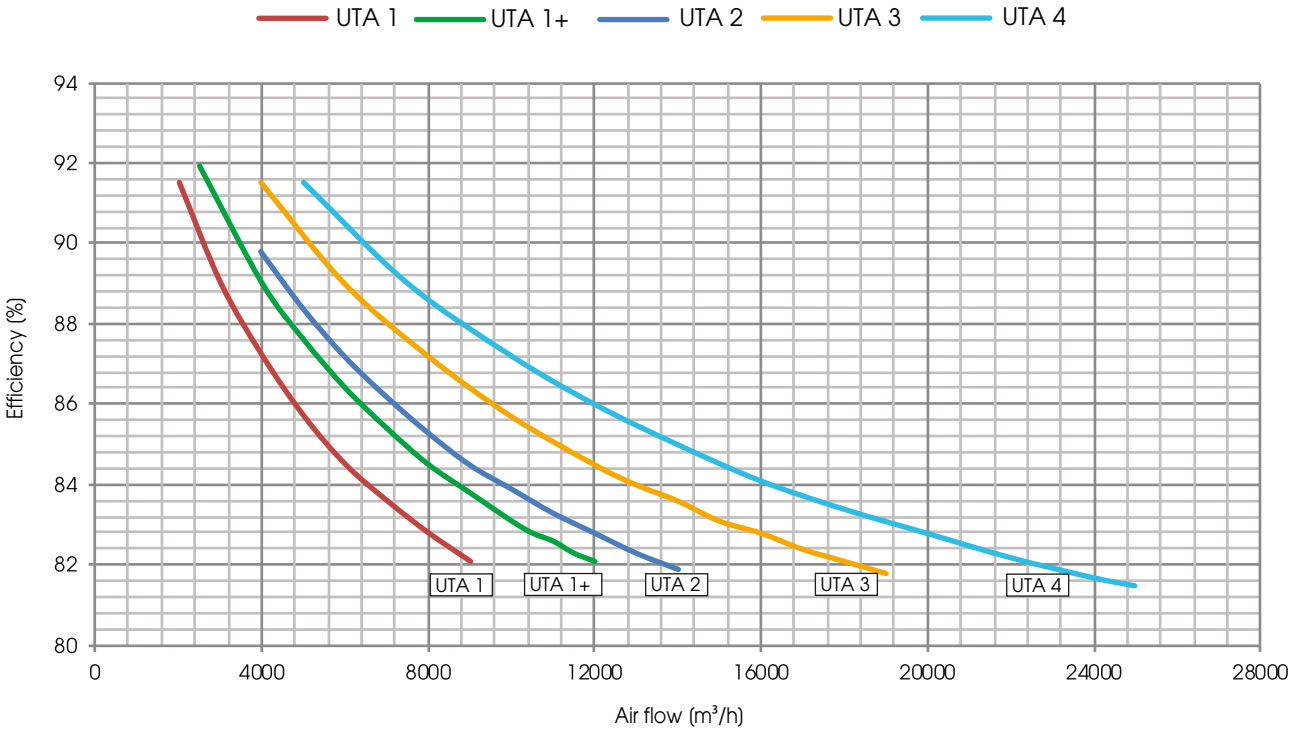
UTA 4



SENSIBLE HEAT RECOVERY EFFICIENCY

Values refer to the following conditions (UNI EN 308:1998): Outdoor air dry-bulb temperature 5°C; Outdoor relative humidity 72%; Indoor dry-bulb temperature 25°C; Indoor relative humidity 38%.



ECODESIGN

MOD.	η_{t_nvru} (%)	q_{nom} (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))	FRONT SPEED (m/s)	$\Delta p_{s,int}$ (Pa)	η_{Fan} (%)	* LEAKAGE internal(%)	* LEAKAGE external(%)
UTA 1	82,8	2,22	200	5,15	1040	1373	1093	2,14	694	62,8	3,4	1,9
UTA 1+	82,4	3,13	200	6,69	1032	1363	1083	2,00	670	65,8	3,4	2,2
UTA 2	82,7	3,38	500	10,36	1085	1370	1090	2,16	704	68,5	3,1	2,0
UTA 3	83,0	4,30	550	11,97	1044	1379	1099	2,07	748	69,0	3,5	2,3
UTA 4	82,6	5,92	500	16,35	1077	1368	1088	2,21	771	68,7	3,4	2,1

* Compared to q_{nom}

VALUES ACCORDING TO UNI EN 1886:2008

MODEL	CASING DEFORMATION	LEAKAGE CASING	FILTERS CLASS	THERMAL TRANSMITTANCE	THERMAL BRIDGE
UTA all sizes	D1 (M)	L3 (M)	F7 (M)	T3 (M)	TB3 (M)

TEST LEAKAGE (UNI EN 13141-7)

LEAKAGE	TEST CONDITIONS	UTA 1	UTA 1+	UTA 2	UTA 3	UTA 4
EXTERNAL	Positive pressure 400 Pa	A1	A1	A1	A1	A1
EXTERNAL	Negative pressure 400 Pa	A1	A1	A1	A1	A1
INTERNAL	Pressure difference 250 Pa	A2	A2	A2	A2	A2

NOISE LEVEL UTA 1

Lw Sound power level measured according to UNI EN ISO 3747 – Class 3

	NOISE FROM THE CAISING (dB)							
Fans	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**8000 Hz**	**L_w dB(A)**
100%	71,6	85,3	76,7	70,7	61,7	52,6	57,4	79,2
75%	70,4	80,8	69,5	62,1	53,2	45,9	49,9	73,7
	NOISE IN THE INTAKE CHANNEL (dB)							
Fans	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**8000 Hz**	**L_w dB(A)**
100%	79,9	92,6	92,4	90,6	80,7	73,9	80,8	94,0
75%	78,2	85,6	86,8	82,3	73,3	65,0	73,4	87,0
	NOISE IN THE EXHAUST CHANNEL (dB)							
Fans	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**8000 Hz**	**L_w dB(A)**
100%	80,3	93,7	93,0	93,4	82,6	76,1	84,1	96,0
75%	77,9	85,7	87,6	83,4	74,7	66,8	75,7	87,9
	NOISE IN THE SUPPLY CHANNEL (dB)							
Fans	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**8000 Hz**	**L_w dB(A)**
100%	69,3	83,4	74,2	64,7	53,7	47,3	51,4	76,7
75%	67,2	74,1	64,0	53,5	46,5	38,1	54,5	67,3
	NOISE IN THE EXTRACTION CHANNEL (dB)							
Fans	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**8000 Hz**	**L_w dB(A)**
100%	67,5	82,4	78,1	68,6	56,6	51,9	58,2	78,1
75%	68,6	70,5	69,3	61,1	49,1	43,2	53,1	68,7

NOISE LEVELS UTA 1+

Lw Sound power level measured according to UNI EN ISO 3747 – Class 3

NOISE FROM THE CAISING (dB)								
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	78,0	81,2	73,7	72,6	66,2	68,0	63,1	78,1
75%	72,3	78,3	67,8	65,3	60,5	61,2	58,9	73,0
NOISE IN THE INTAKE CHANNEL (dB)								
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	79,9	83,3	86,4	85,7	80,6	82,5	79,2	90,2
75%	73,3	81,0	82,1	81,5	77,2	75,3	75,1	85,7
NOISE IN THE EXHAUST CHANNEL (dB)								
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	78,0	84,8	86,9	86,1	80,7	83,0	79,4	90,6
75%	74,6	81,9	83,7	81,8	77,0	76,0	75,8	86,3
NOISE IN THE SUPPLY CHANNEL (dB)								
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	73,2	78,6	70,4	67,2	61,4	64,6	51,6	74,3
75%	67,0	74,5	63,7	60,2	55,0	56,0	49,0	68,6
NOISE IN THE EXTRACTION CHANNEL (dB)								
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	71,7	78,9	65,9	66,4	60,7	63,9	51,8	73,4
75%	67,0	74,5	63,7	60,2	55,0	56,0	49,0	68,6

NOISE LEVELS UTA 2

Lw Sound power level measured according to UNI EN ISO 3747 – Class 3

NOISE FROM THE CAISING (dB)								
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	75,4	92,3	81,1	75,0	65,4	59,5	61,8	85,3
75%	75,5	80,2	69,9	63,0	54,9	48,6	54,0	73,5
NOISE IN THE INTAKE CHANNEL (dB)								
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	79,6	96,4	93,8	88,5	80,0	75,5	77,9	94,3
75%	77,3	83,7	84,2	79,5	71,7	63,6	70,6	84,5
NOISE IN THE EXHAUST CHANNEL (dB)								
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	77,7	97,9	94,3	88,9	80,1	76,0	78,1	95,0
75%	78,6	84,6	85,8	79,8	71,5	64,3	71,3	85,5
NOISE IN THE SUPPLY CHANNEL (dB)								
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	67,1	85,8	77,8	67,4	59,7	52,7	50,5	79,5
75%	68,7	75,0	66,1	56,0	49,1	41,5	42,7	68,5
NOISE IN THE EXTRACTION CHANNEL (dB)								
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	65,6	86,1	73,3	66,6	59,0	52,0	50,7	78,6
75%	68,1	73,4	64,6	57,9	51,0	42,6	44,1	67,3

NOISE LEVELS UTA 3

Lw Sound power level measured according to UNI EN ISO 3747 – Class 3

	NOISE FROM THE CAISING (dB)							
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	75,5	81,4	72,5	71,8	65,2	60,5	59,6	77,0
75%	71,7	76,7	68,0	67,6	60,0	54,3	51,4	72,4
	NOISE IN THE INTAKE CHANNEL (dB)							
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	77,3	84,9	85,0	85,3	79,9	76,1	75,7	88,7
75%	73,7	80,6	80,6	81,0	74,5	70,3	68,3	84,0
	NOISE IN THE EXHAUST CHANNEL (dB)							
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	77,3	84,9	85,0	85,3	79,9	76,1	75,7	88,7
75%	73,7	80,6	80,6	81,0	74,5	70,3	68,3	84,0
	NOISE IN THE SUPPLY CHANNEL (dB)							
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	68,9	77,0	69,2	64,7	59,3	55,2	48,5	71,9
75%	64,9	71,9	64,3	61,2	54,7	48,1	38,5	67,2
	NOISE IN THE EXTRACTION CHANNEL (dB)							
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	68,9	77,0	69,2	64,7	59,3	55,2	48,5	71,9
75%	64,9	71,9	64,3	61,2	54,7	48,1	38,5	67,2

NOISE LEVELS UTA 4

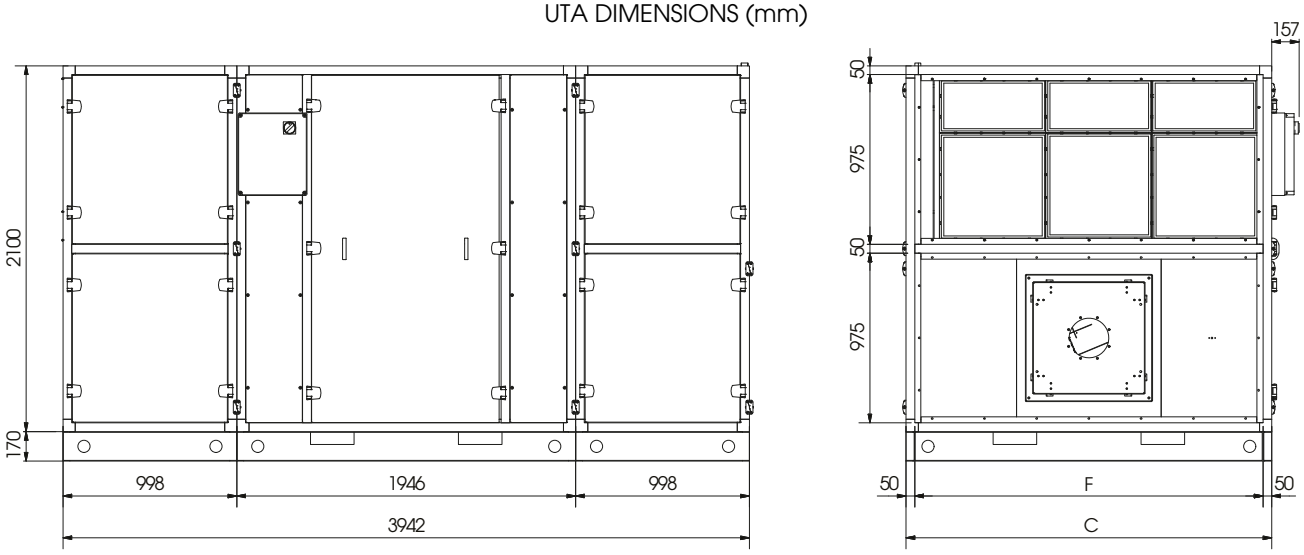
Lw Sound power level measured according to UNI EN ISO 3747 – Class 3

	NOISE FROM THE CAISING (dB)							
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	75,4	92,3	81,1	75,0	65,4	59,5	61,8	85,3
75%	75,5	80,2	69,9	63,0	54,9	48,6	54,0	73,5
	NOISE IN THE INTAKE CHANNEL (dB)							
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	79,6	96,4	93,8	88,5	80,0	75,5	77,9	94,3
75%	77,3	83,7	84,2	79,5	71,7	63,6	70,6	84,5
	NOISE IN THE EXHAUST CHANNEL (dB)							
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	77,7	97,9	94,3	88,9	80,1	76,0	78,1	95,0
75%	78,6	84,6	85,8	79,8	71,5	64,3	71,3	85,5
	NOISE IN THE SUPPLY CHANNEL (dB)							
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	67,1	85,8	77,8	67,4	59,7	52,7	50,5	79,5
75%	68,7	75,0	66,1	56,0	49,1	41,5	42,7	68,5
	NOISE IN THE EXTRACTION CHANNEL (dB)							
Fans	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
100%	65,6	86,1	73,3	66,6	59,0	52,0	50,7	78,6
75%	68,1	73,4	64,6	57,9	51,0	42,6	44,1	67,3

ELECTRICAL DATA

MATCHING	FAN				UNIT		
	Power (W)	Supply	Max courrent (A)	Insulation class	Supply	Max courrent (A)	Insulation class
UTA1	2 x 2.900	400V 50/60 Hz 3F	2 x 4,80	IP54 CLASS B	400V 50 Hz 1F	10,0	IP20
UTA 1+	2 x 3.500	400V 50/60 Hz 3F	2 x 5,30	IP54 CLASS B	400V 50 Hz 1F	11,0	IP20
UTA 2	2 x 5.200	400V 50/60 Hz 3F	2 x 8,40	IP54 CLASS B	400V 50 Hz 1F	17,2	IP20
UTA 3	4 x 2.900	400V 50/60 Hz 3F	4 x 4,50	IP54 CLASS B	400V 50 Hz 1F	18,5	IP20
UTA 4	4 x 4.200	400V 50/60 Hz 3F	4 x 6,40	IP54 CLASS B	400V 50 Hz 1F	26,1	IP20

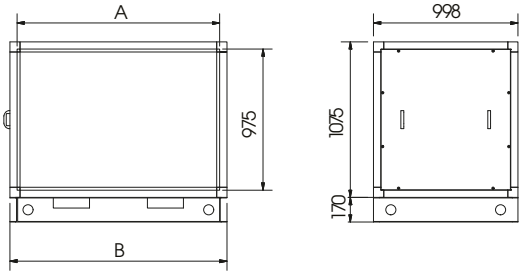
UTA DIMENSIONS (mm)



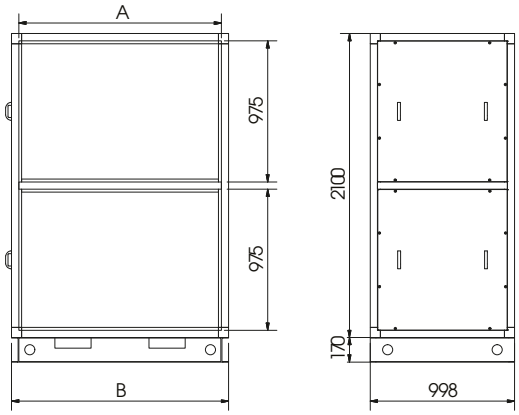
UNIT	C (mm)	F (mm)
UTA 1	1500	1300
UTA 1+	2100	2000
UTA 2	2100	2000
UTA 3	2900	2800
UTA 4	3500	3400

DIMENSIONS (mm) ADDITIONAL MODULES

SINGLE MODULE
. BA-AF/AC coil
. DX R410A coil
. Dehumidification
. Humidification
. Other Use



DOUBLE MODULE
.Baffle silencers
(supply and exhaust)
.Recirculation
.Other Use



UNIT	Dimension (mm)	Reference
UTA 1	1400	A
UTA 1	1500	B
UTA 1+	2000	A
UTA 1+	2100	B
UTA 2	2000	A
UTA 2	2100	B
UTA 3	2800	A
UTA 3	2900	B
UTA 4	3400	A
UTA 4	3500	B

DIMENSIONS (mm) & WEIGHTS (kg) OF UTA FOR SHIPPING AND POSITIONING

For shipping and positioning reasons, the AHU is supplied in 3 modules, prepared for quick on-site connections (mechanical and electrical).
The presence of a chilled/heating water coil, baffle silencers, or empty modules (e.g., humidifier placement)

UTA size 1	Prices	Dimensions (mm)			Weight (kg)		
		Width	Lenght	Height	Pallet	Net	Gross
UTA 1	1	1750	2150	2380	71	555	626
	1	1750	1200	2380	41	187	228
	1	1750	1200	2380	41	187	228
UTA 1 + BA-AC	1	1750	2150	2380	71	555	626
	1	1750	1200	2380	41	187	228
	1	1750	1200	2380	41	219	260
UTA 1 + REL-T (PRE o POST)	1	1750	2150	2380	71	555	626
	1	1750	1200	2380	41	187	228
	1	1750	1200	2380	41	203	244
BA-AF Module	1	1750	1200	1350	41	156	197
Silencer Module	1	1750	1200	2380	41	156	197

UTA size 1+ and 2	Prices	Dimensions (mm)			Weight (kg)		
		Width	Lenght	Height	Pallet	Net	Gross
UTA 1+ and 2	1	2370	2150	2380	86	854	940
	1	2370	1200	2380	47	256	303
	1	2370	1200	2380	47	256	303
UTA 1+/2 + BA-AC	1	2370	2150	2380	86	854	940
	1	2370	1200	2380	47	256	303
	1	2370	1200	2380	47	306	353
UTA 1+/2 + REL-T (PRE or POST)	1	2370	2150	2380	86	854	940
	1	2370	1200	2380	47	256	303
	1	2370	1200	2380	47	274	321
BA-AF Module	1	2370	1200	1350	47	204	251
Silencer Module	1	2370	1200	2380	47	289	336

UTA size 3	Prices	Dimensions (mm)			Weight (kg)
		Width	Lenght	Height	
UTA 3	1	3100	2000	2300	960
	2	3000	1000	2300	422
UTA 3 + BA-AC	1	3000	1000	1250	271
UTA 3 + BA-AT	1	3000	1000	1250	303
BA-AF Module	1	3000	1000	1250	328
Silencer Module	1	3000	1000	2300	564

UTA size 4	Prices	Dimensions (mm)			Weight (kg)
		Width	Lenght	Height	
UTA 4	1	3700	2000	2300	1106
	2	3600	1000	2300	483
UTA 3 + BA-AC	1	3600	1000	1250	303
UTA 3 + BA-AT	1	3600	1000	1250	342
BA-AF Module	1	3600	1000	1250	380
Silencer Module	1	3600	1000	2300	615

RECIRCULATION MODULE

Constructed with 45 mm insulated panels, like the heat recovery unit; equipped with 3 motorized dampers: one on the exhaust air, one on the supply air, and the third connecting the return and supply.

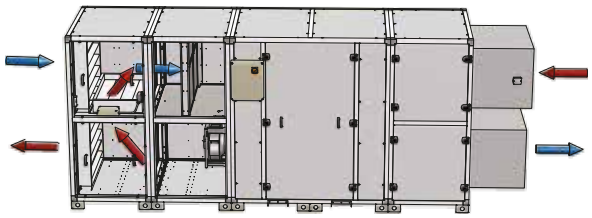
It recirculates a portion of the extracted air back into the environment, reducing the load on the primary heating/cooling system. When the fan motors are stopped, the dampers on the exhaust and supply close to prevent the entry of outside air.

The modulating damper motors (0–10 V signal) can be controlled by an air quality sensor placed on the return channel or inside a reference room. As CO_2 concentration in the rooms rises, the amount of outside air will increase to lower CO_2 levels back to optimal values.

Alternatively, control can be based on temperature or another external signal (0–10 V signal required).

CLOSED RECIRCULATION MODULE

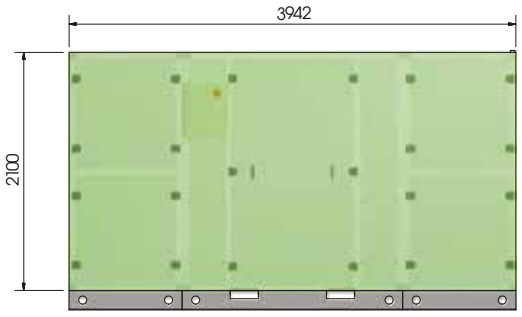
OPEN RECIRCULATION MODULE

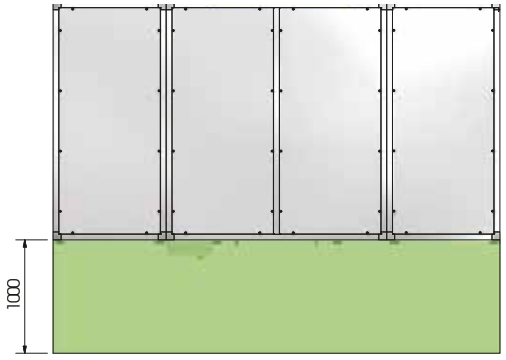


FLOOR-MOUNTED UTA INSTALLATION

Minimum Maintenance Clearances (mm)

NOTE: For outdoor installation, provide a protective roof/canopy (see price list)

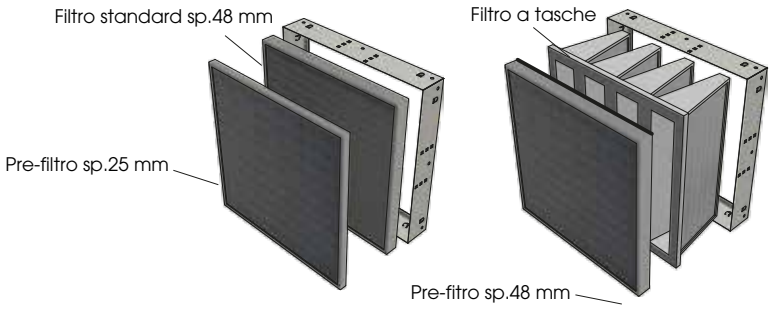




ELECTRIC HEATERS

MATCHING	PRE (kW)	POST (kW)
UTA1	24	24
UTA 1+	32	32
UTA 2	36	36
UTA 3	on request	on request
UTA 4	on request	on request

OPZIONI FILTRI



NOTA: per utilizzo di filtri a tasche e pre-filtri, contattare l'Ufficio Tecnico per i valori di perdite di carico

BATTERIE BA-AC (Aria esterna -5°C 80% - Aria interna 20°C 50%)

Acqua 70-60°C

Modello	Portata aria (m³/h)	Aria IN	Potenza (kW)	Temp out (°C)	DP aria (Pa)	Portata acqua (l/h)	DP acqua (kPa)	Ø connessioni	Vol (l)
UTA 1	7000	17,1°C | 17% U.R.	34,6	31,6	15	3034	5,4	1"	8,4
UTA 1+	10000	17,0°C | 17% U.R.	37,9	28,1	12	3326	13,8	1"	6,5
UTA 2	12500	16,9°C | 18% U.R.	58,5	30,7	20	5136	16,9	1" 1/4	12,3
UTA 3	16000	16,9°C | 18% U.R.	87,5	33,0	22	7684	23,5	1" 1/4	16,1
UTA 4	22000	16,8°C | 18% U.R.	113,8	32,0	26	9989	21,8	1" 1/4	19,4

Acqua 50-40°C

Modello	Portata aria (m³/h)	Aria IN	Potenza (kW)	Temp out (°C)	DP aria (Pa)	Portata acqua (l/h)	DP acqua (kPa)	Ø connessioni	Vol (l)
UTA 1	7000	17,1°C | 17% U.R.	18,8	25,0	15	2338	3,3	1"	8,4
UTA 1+	10000	17,0°C | 17% U.R.	20,5	23,0	12	1781	4,3	1"	6,5
UTA 2	12500	16,9°C | 18% U.R.	32,5	24,6	20	2831	6,6	1" 1/4	12,3
UTA 3	16000	16,9°C | 18% U.R.	48,8	25,9	22	4249	8,0	1" 1/4	16,1
UTA 4	22000	16,8°C | 18% U.R.	63,3	25,3	26	5507	7,4	1" 1/4	19,4

BATTERIE BA-AT (Aria esterna -5°C 80% - Aria interna 20°C 50%)

Acqua 60-50°C

Modello	Portata aria (m³/h)	Aria IN	Potenza (kW)	Temp out (°C)	DP aria (Pa)	Portata acqua (l/h)	DP acqua (kPa)	Ø connessioni	Vol (l)
UTA 1	7000	17,1°C | 17% U.R.	44,6	35,9	30	3900	10,7	1"	11,9
UTA 1+	10000	17,0°C | 17% U.R.	72,1	38,2	27	6303	31,0	1" 1/4	17,5
UTA 2	12500	16,9°C | 18% U.R.	82,3	36,4	39	7191	45,3	1" 1/4	17,5
UTA 3	16000	16,9°C | 18% U.R.	134,7	41,7	47	11774	63,1	1" 1/4	33,8
UTA 4	22000	16,8°C | 18% U.R.	179,3	40,8	56	15668	57,3	1" 1/4	41,1

Acqua 45-35°C

Modello	Portata aria (m³/h)	Aria IN	Potenza (kW)	Temp out (°C)	DP aria (Pa)	Portata acqua (l/h)	DP acqua (kPa)	Ø connessioni	Vol (l)
UTA 1	7000	17,1°C | 17% U.R.	25,7	27,9	29	2230	3,9	1"	11,9
UTA 1+	10000	17,0°C | 17% U.R.	42,4	29,5	26	3681	13,3	1" 1/4	17,5
UTA 2	12500	16,9°C | 18% U.R.	48,2	28,3	39	4183	19,2	1" 1/4	17,5
UTA 3	16000	16,9°C | 18% U.R.	80,3	31,7	46	6976	33,1	1" 1/4	33,8
UTA 4	22000	16,8°C | 18% U.R.	106,1	31,0	55	9213	22,2	1" 1/4	41,1

BATTERIE BA-AF

Aria esterna 34°C 40% - Aria interna 26°C 50%

Acqua 60-50°C

Modello	Portata aria (m³/h)	Aria IN	Potenza (kW)	Temp out (°C)	DP aria (Pa)	Portata acqua (l/h)	DP acqua (kPa)	Ø connessioni	Vol (l)
UTA 1	7000	27,3°C | 59% U.R.	42,2	16,0	51	7404	8,2	1" 1/2	19,3
UTA 1+	10000	27,4°C | 58% U.R.	51,8	17,5	34	8994	13,3	1" 1/2	18,9
UTA 2	12500	27,4°C | 58% U.R.	76,8	15,9	51	13485	34,1	2"	29
UTA 3	16000	27,4°C | 58% U.R.	92,3	16,5	52	16339	25,4	2"	37,5
UTA 4	22000	27,4°C | 58% U.R.	131,9	16,1	71	23205	24,9	2" 1/2	46,7

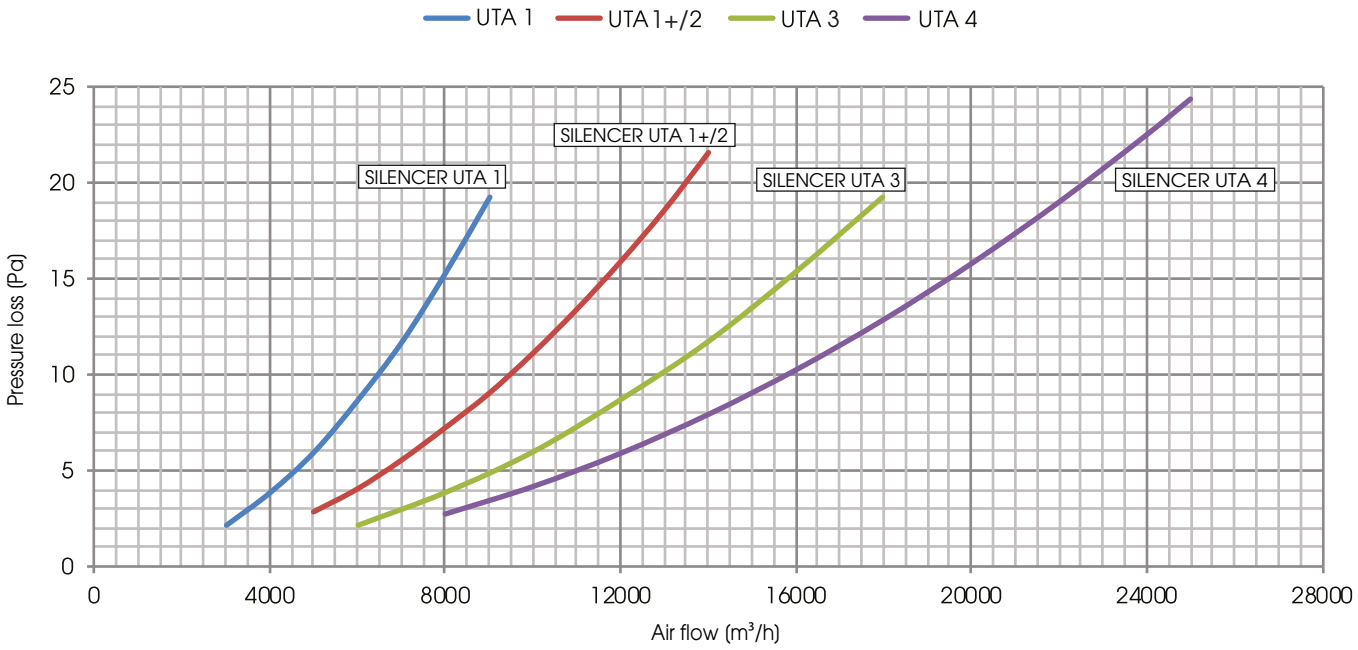
Aria esterna -5°C 80% - Aria interna 20°C 50%

Acqua 45-35°C

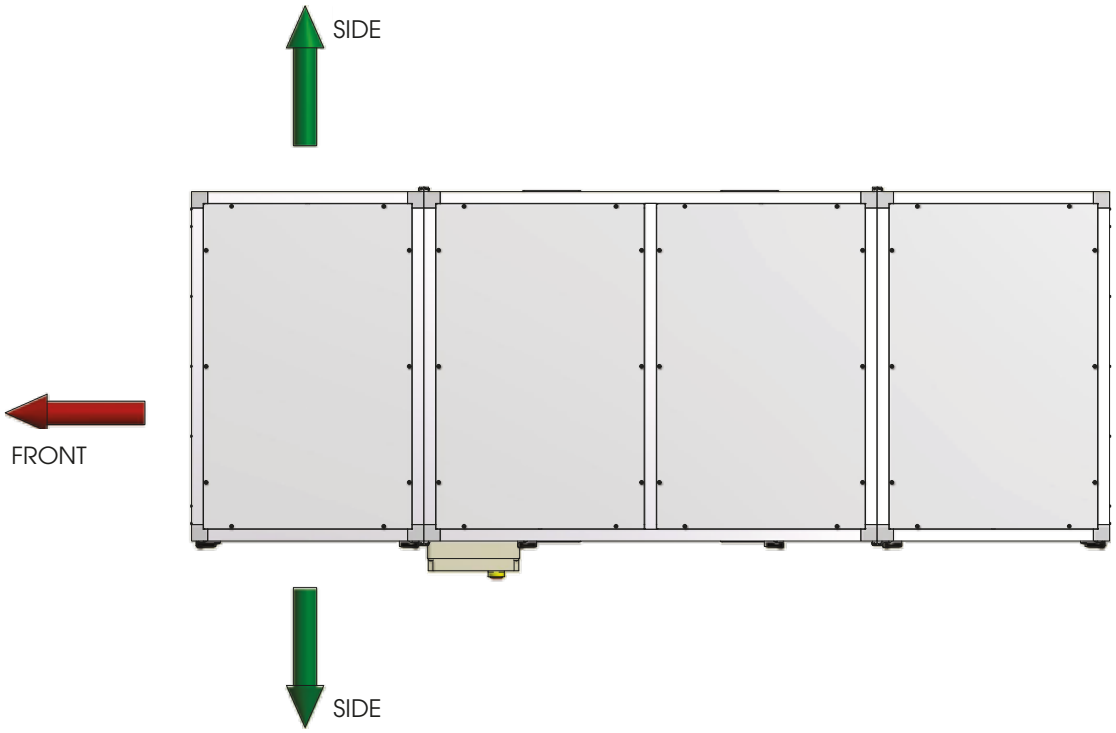
Modello	Portata aria (m³/h)	Aria IN	Potenza (kW)	Temp out (°C)	DP aria (Pa)	Portata acqua (l/h)	DP acqua (kPa)	Ø connessioni	Vol (l)
UTA 1	7000	17,1°C | 17% U.R.	32,5	30,8	40	2821	1,2	1" 1/2	19,3
UTA 1+	10000	17,0°C | 17% U.R.	38,9	28,4	26	3378	1,9	1" 1/2	18,9
UTA 2	12500	16,9°C | 18% U.R.	57,9	30,5	53	5023	4,8	2"	29,0
UTA 3	16000	16,9°C | 18% U.R.	68,7	29,5	41	5962	3,5	2"	37,5
UTA 4	22000	16,8°C | 18% U.R.	99,5	30,1	55	8641	3,5	2" 1/2	46,7

UTA Silencer – Double Module (silences supply and exhaust)

	ATTENUATION (dB)						
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
UTA 1 SILENCER	5	13	18	24	22	13	8
UTA 1+/2 SILENCER	5	15	21	27	25	15	9
UTA 3 SILENCER	5	13	18	24	22	13	8
UTA 4 SILENCER	5	14	20	26	24	14	8

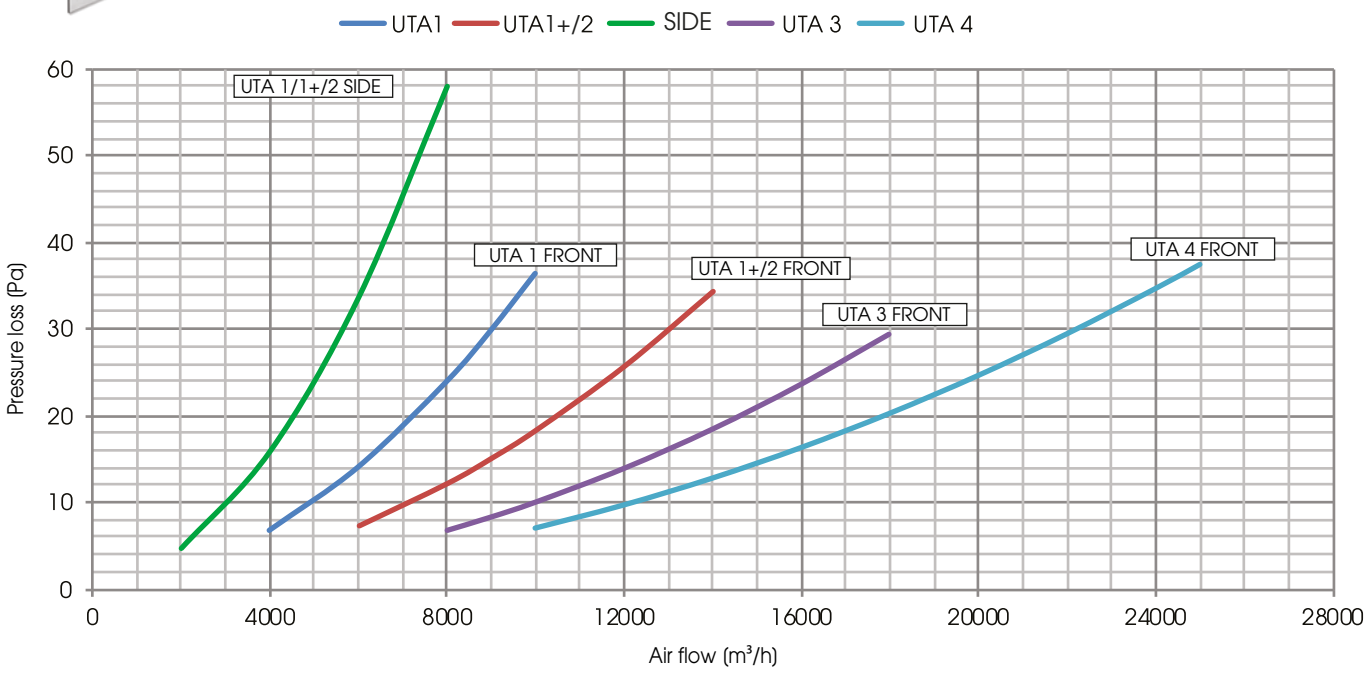


GRILLE AND DAMPER POSITIONING



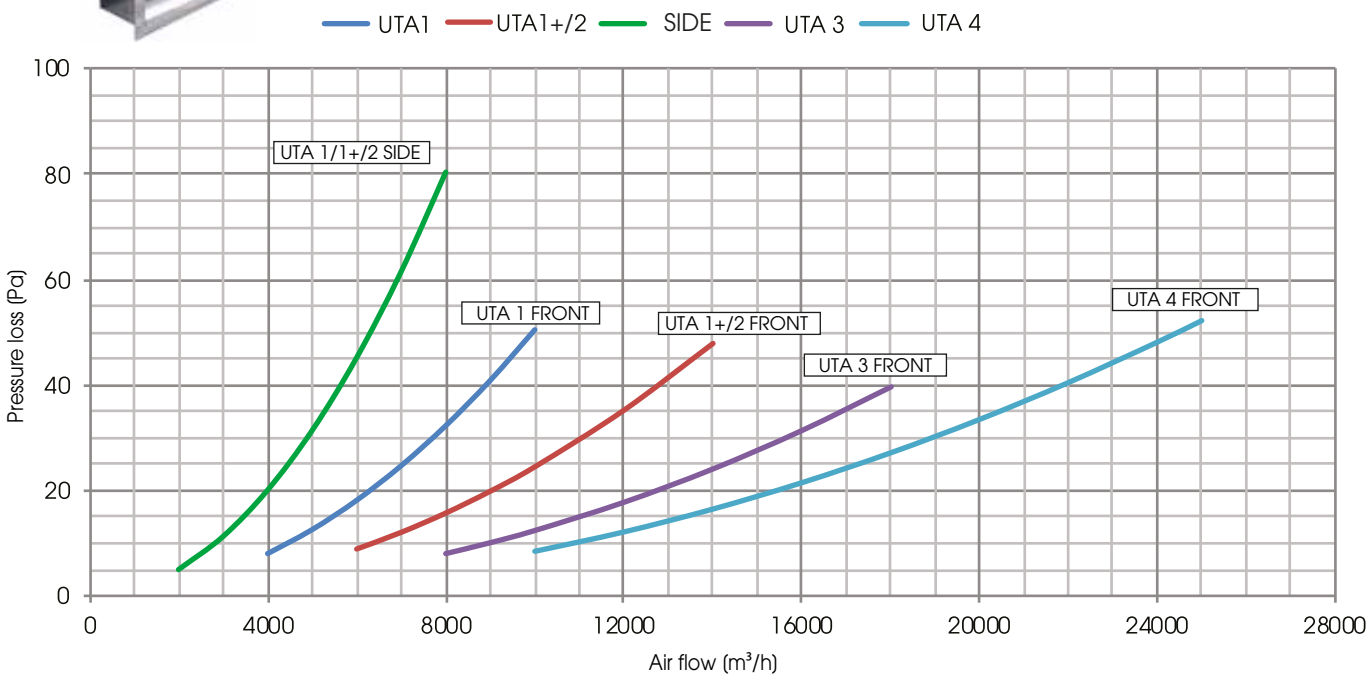
NOTE: SIDE Only 1, 1+ and 2

RETURN AIR GRILLE

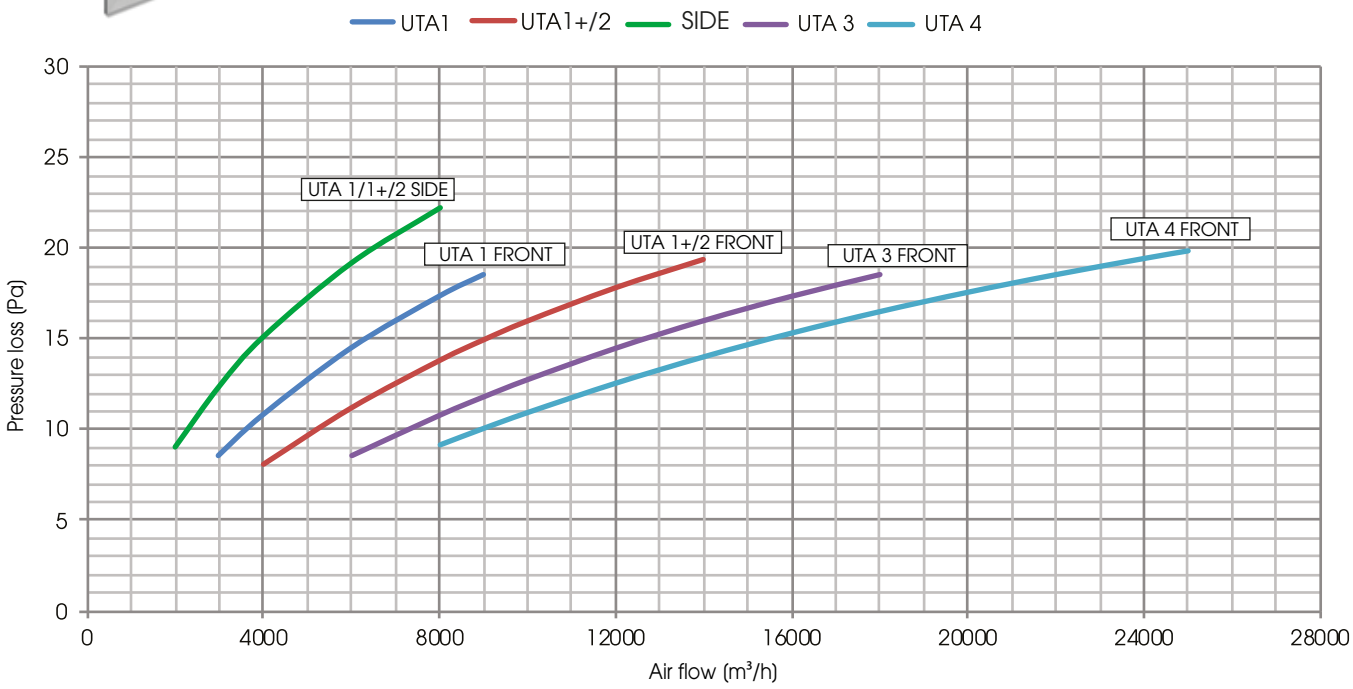


SOUND-ABSORBING GRILLE

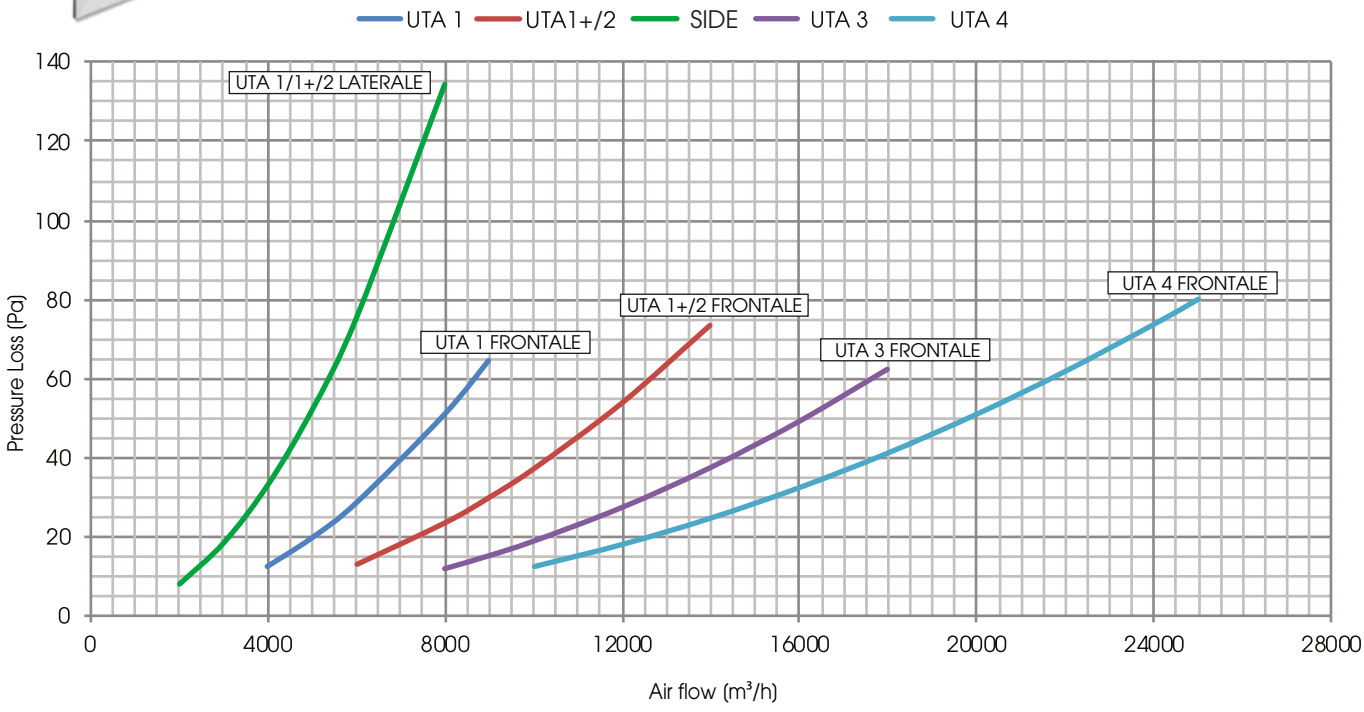
DAMPING (dB)						
125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
6	8	10	14	18	16	15



OVERPRESSURE DAMPER



RETURN AIR GRILLE WITH ADJUSTABLE LOUVERS



For more information, please contact the Technical Department at tecnico@cla-utek.it

A	Manufacturer's name C.L.A. S.r.l.					
B	Manufacturer's model identifier	UTA 1 BP CAV	UTA 1+ BP CAV	UTA 2 BP CAV	UTA 3 BP CAV	UTA 4 BP CAV
C	Declared typology	UVNR / UVB	UVNR / UVB	UVNR / UVB	UVNR / UVB	UVNR / UVB
D	Type of drive installed	Variable speed	Variable speed	Variable speed	Variable speed	Variable speed
E	Type of HRS	other	other	other	other	other
F	Thermal efficiency of heat recovery [%]	82,8	82,4	82,7	83,0	82,6
G	Nominal NRVU flow rate [m³/s]	2,22	3,13	3,38	4,3	5,9
H	Effective electric power input [kW]	5,15	6,69	10,36	12,0	16,4
I	SFPint [W/[m³/s]	1040	1032	1085	1044	1077
J	Face velocity at design flow rate [m/s]	2,14	2,00	2,16	2,07	2,21
K	Nominal external pressure [Pa]	200	200	500	550	500
L	Internal pressure drop of ventilation components [Pa]	694	670	704	748	771
M	Optional: internal pressure drop of non-ventilation components	-		-		
N	Static efficiency of fans used in accordance with Regulation (EU) No 327/2011 [%]	62,8	65,8	68,5	69,0	68,7
O	Declared maximum external leakage rate of the casing of ventilation units [%]	1,9	2,2	2,0	2,3	2,1
	Declared maximum internal leakage rate of bidirectional ventilation units or carry over (for regenerative heat exchangers only) [%]	3,4	3,4	3,1	3,5	3,4
P	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)	ePM1 70% (F7)/ ePM10 50% (M5)	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	The filter alarm is indicated on the Control System display: the flashing message "Dirty Filters" will appear. To maintain the energy efficiency of the UVNR, it is recommended to replace the filters when indicated. The message is located near the filter inspection point.				
R	Casing sound power level (LWA) [dB]	79	78	85	77	85
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.

Made in Italy

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ISO 9001

AZIENDA CON SISTEMA DI GESTIONE AMBIENTALE CERTIFICATO DA DNV
ISO 14001

Dealer

UTA_2020_3_EN

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