SPLUGA TOP/SIDE

TECHNICAL DATA

INDUSTRIAL AND TERTIARY SECTORS



Utek

indoor air quality and energy saving

UNIT SPECIFICATIONS

SPLUGA TOP and SIDE

High-efficiency double-flow ventilation units for tertiary and industrial applications, designed to ensure excellent indoor air quality, energy savings and maximum reliability.

PERFORMANCE

- Regenerative rotary heat exchanger in aluminium, Eurovent certified
- High-efficiency EC electronic fans
- High energy recovery efficiency
- Optional adsorption version for enhanced humidity recovery
- Available in 5 sizes

STRUCTURE

- Self-supporting structure with 36 mm sandwich panels
- Polyurethane foam insulation
- High-corrosion-resistance zinc-magnesium components
- Easy filter access through opening panels
- Filtration:
  .ePM1 55% (F7) fresh air
  .ePM10 50% (M5) extract air
- Indoor or outdoor installation; SPLUGA TOP for outdoor installation must be installed under a roof or protective cover.

EVO control

Supplied Plug & Play with an EVO remote terminal for managing the main operating functions.

Main functions

- Automatic/manual fan speed control
- CO_2 sensor control (optional)
- Summer/winter thermal integration management
- Automatic frost protection
- Integrated weekly programmable thermostat
- Configurable digital inputs and outputs
- MODBUS RS485 compatibility for building automation system integration

ACCESSORIES

A wide range of accessories and optional configurations is available:

- RH and CO_2 / CO_2-VOC sensors
- Constant pressure or constant airflow kits
- Water or electric heating coils
- Grilles and motorized dampers
- Weatherproof roof for SPLUGA SIDE

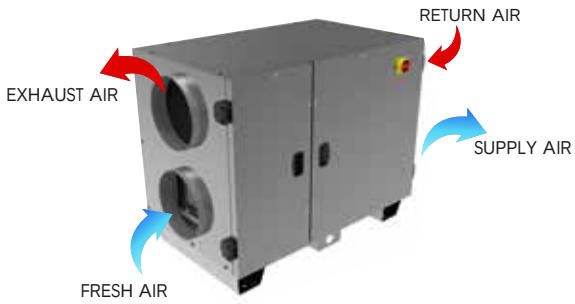
Efficiency and reliability for professional ventilation

SPLUGA TOP and SIDE: maximum efficiency for the new generation of MVHR ventilation systems.

SPLUGA TOP Standard Configuration



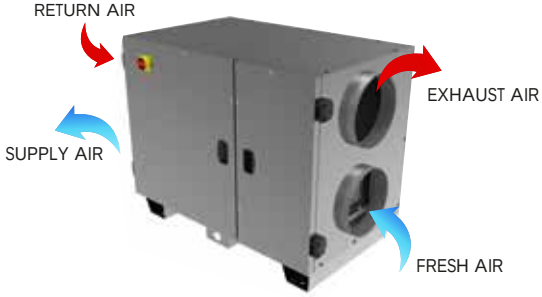
SPLUGA SIDE standard Standard Configuration



SPLUGA TOP Mirrored Configuration



SPLUGA SIDE Mirrored Configuration

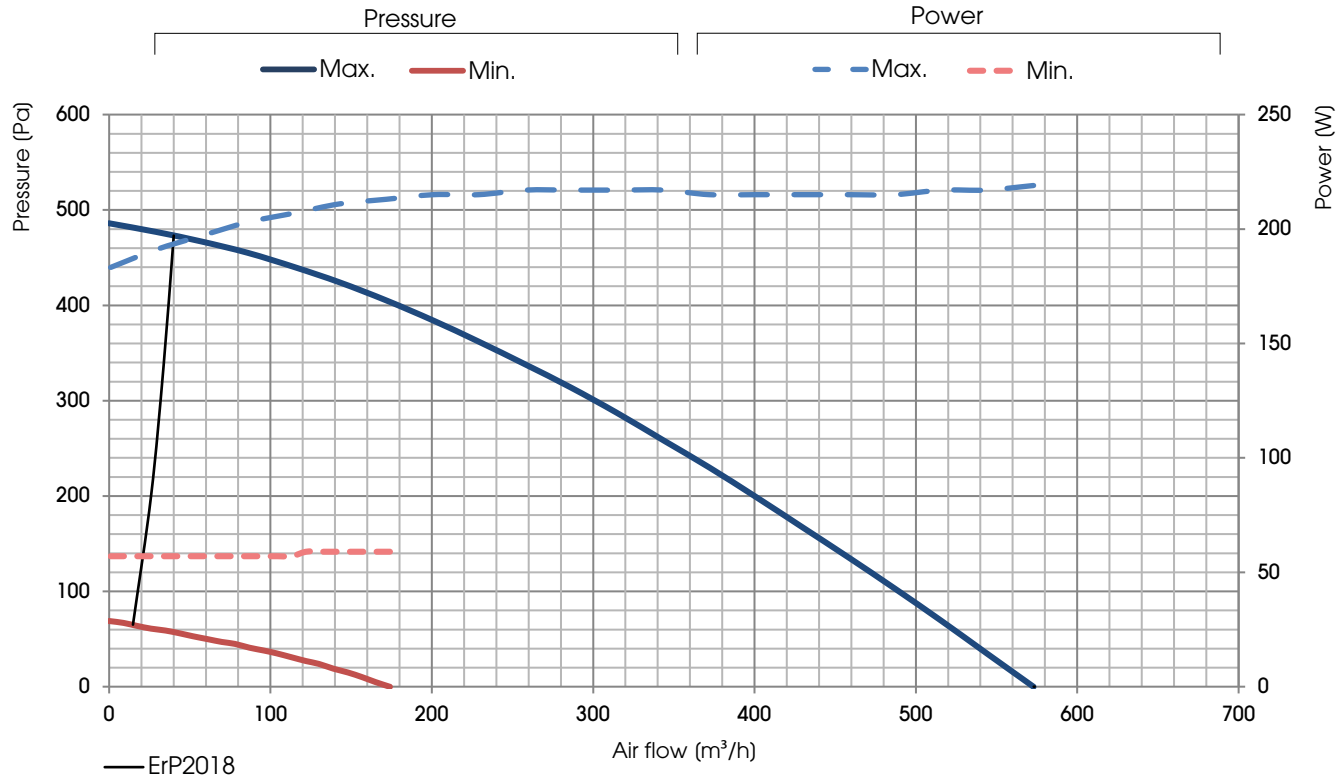


AERAULIC PERFORMANCE ACCORDING TO UNI EN 13141-7

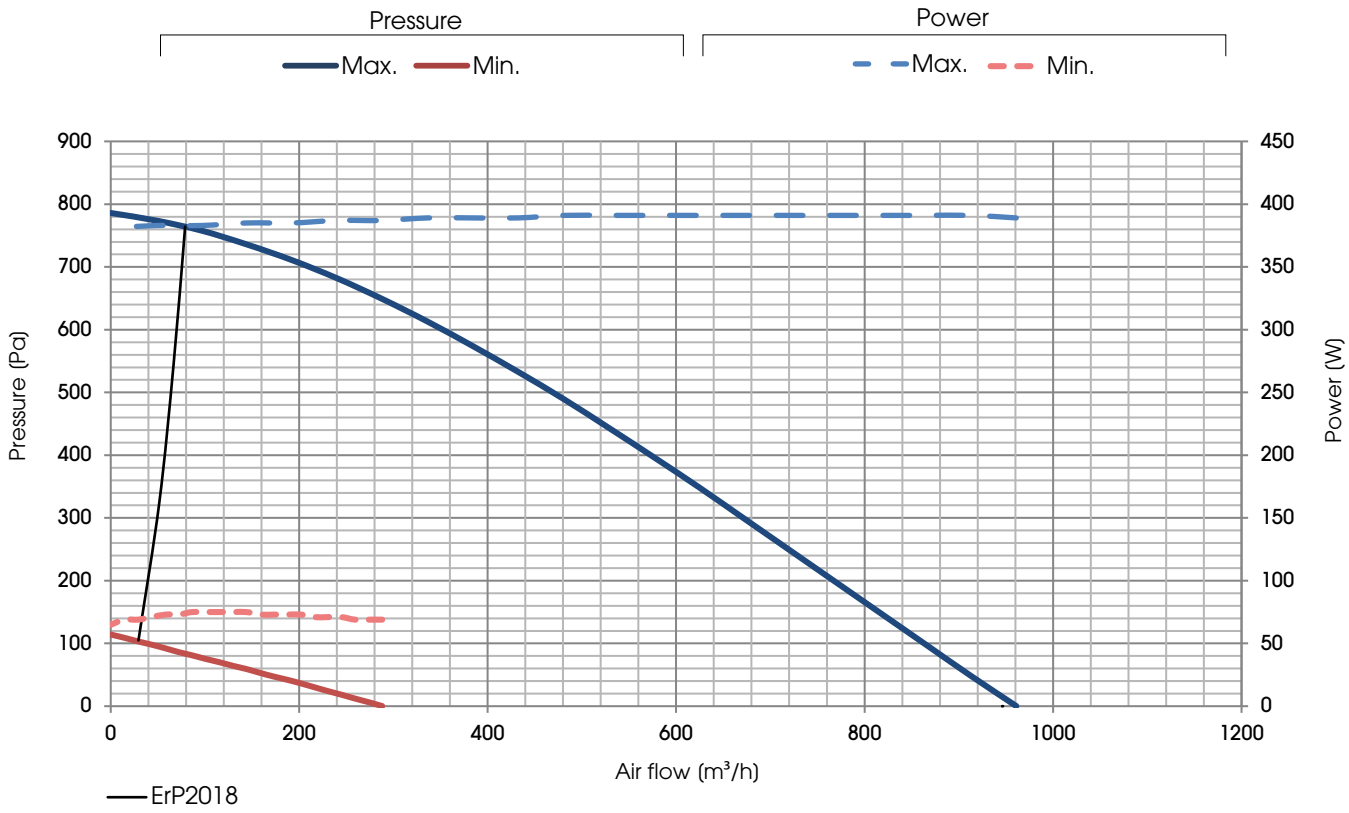
The declared performance data refer to CLEAN filters and are guaranteed EXCLUSIVELY when using original UTEK low-pressure-drop filters.

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

SPLUGA 1



SPLUGA 2

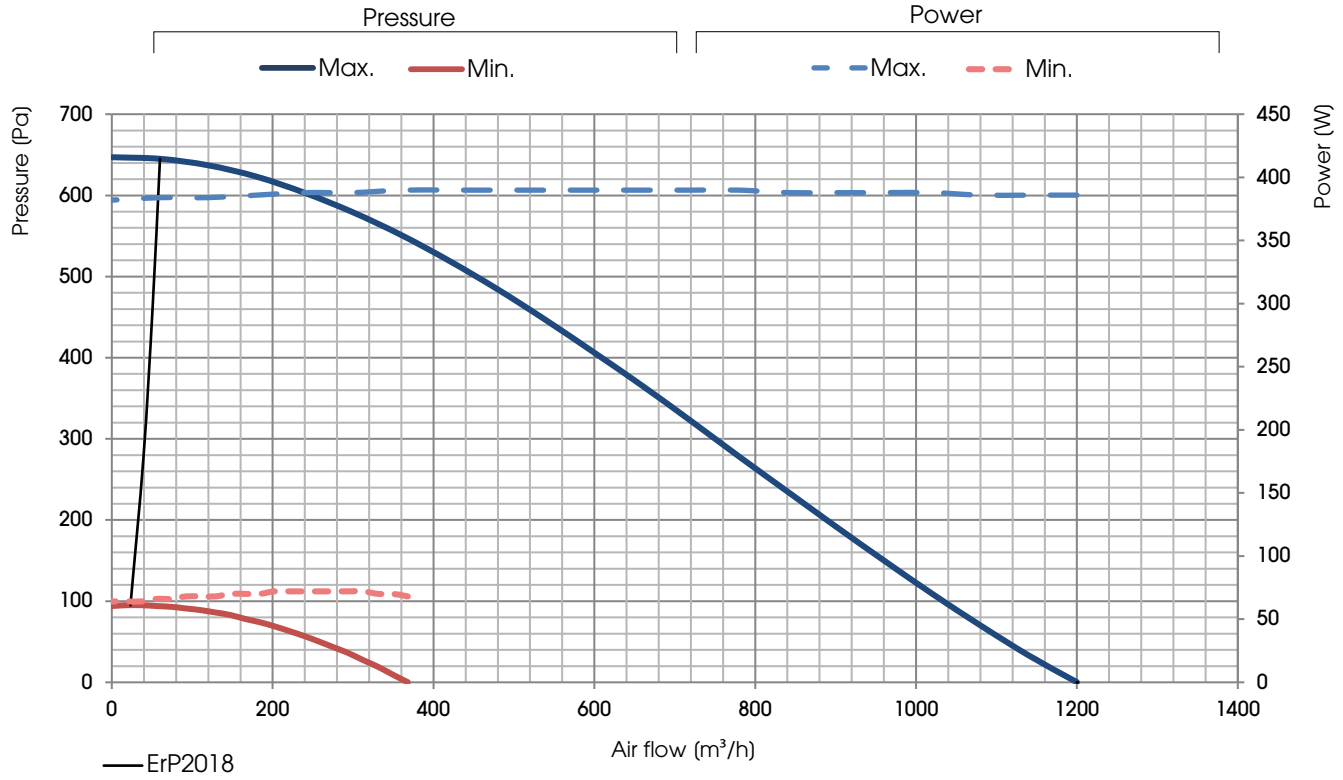


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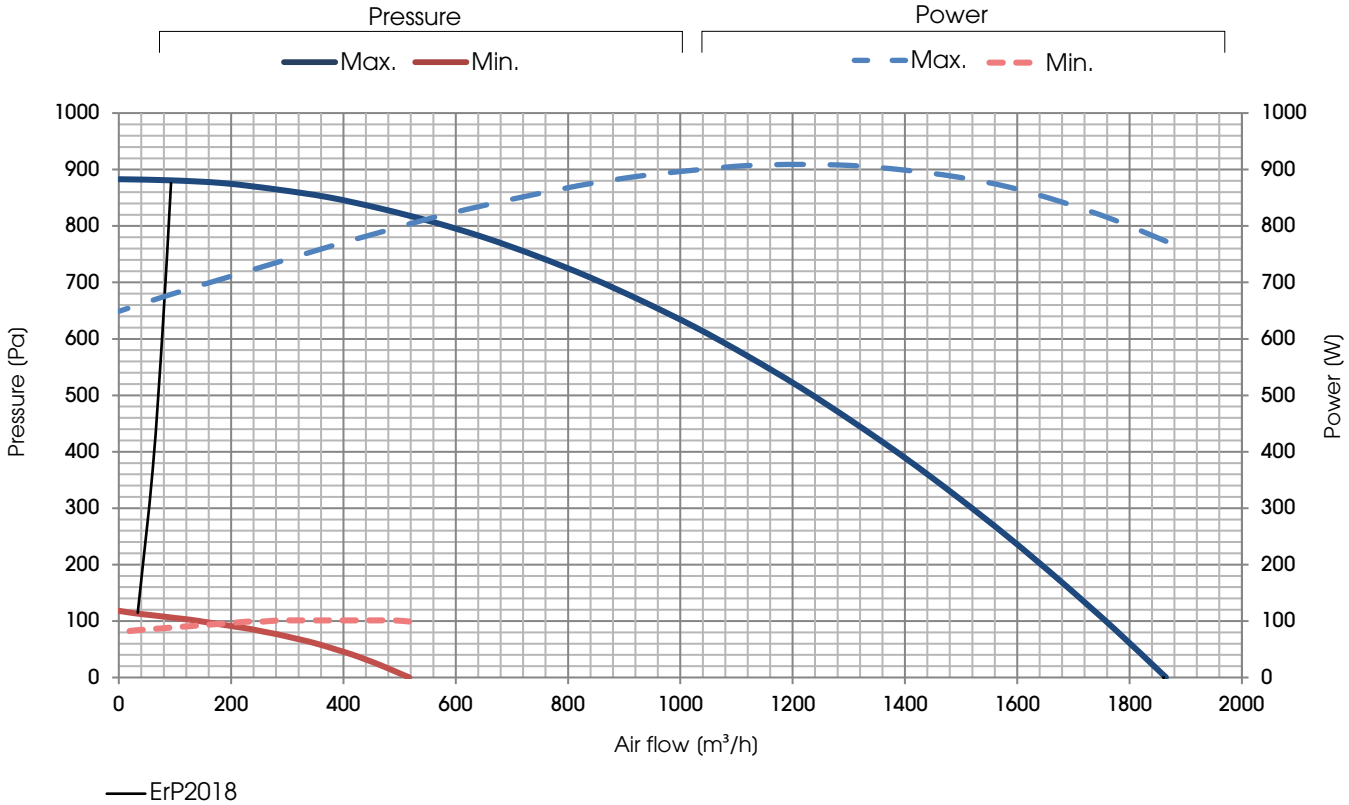
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SPLUGA 3



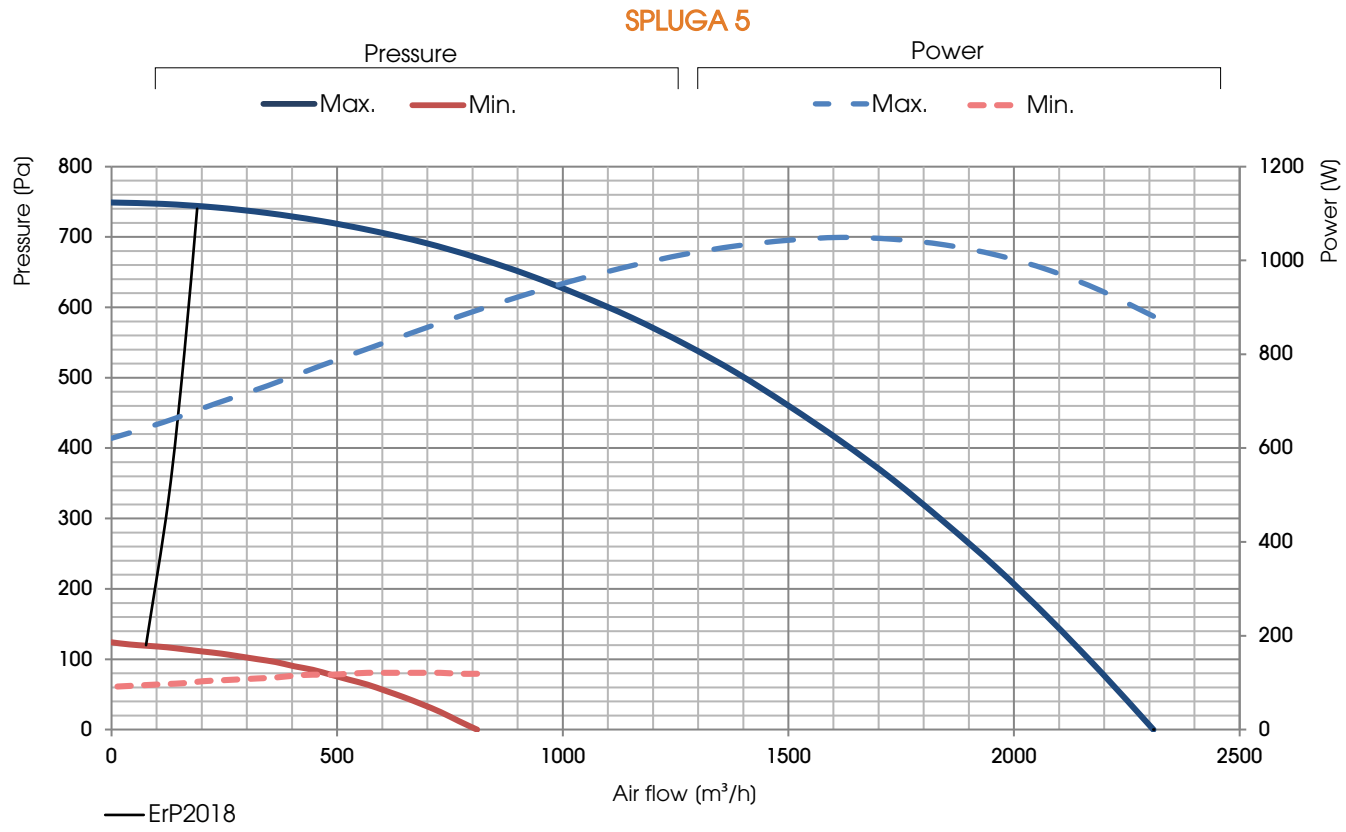
SPLUGA 4



AERAULIC PERFORMANCE ACCORDING TO UNI EN 13141-7

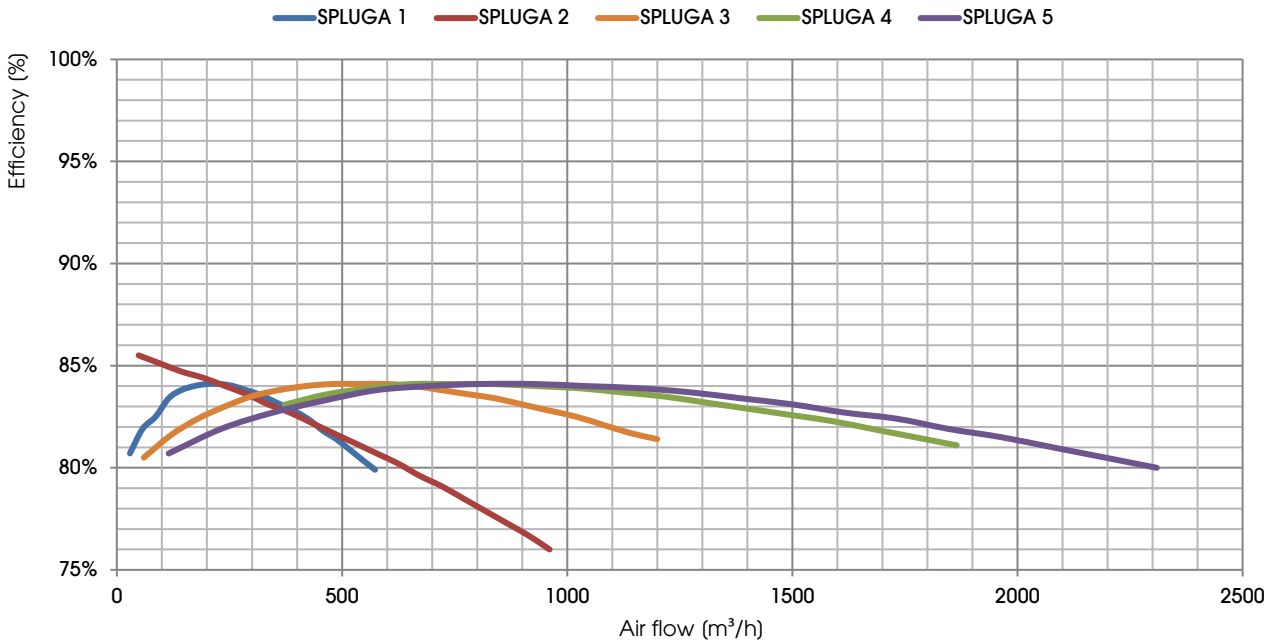
The declared performance data refer to CLEAN filters and are guaranteed EXCLUSIVELY when using original UTEK low-pressure-drop filters.

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



SENSIBLE HEAT RECOVERY EFFICIENCY

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



ECODESIGN, UNI EN 1886:2008, TEST LEAKAGE

ECODESIGN

Unit	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(%)
SPLUGA 1	81	0,14	100	0,22	824	1610	1330	1,07	460	59,8	-	1,0
SPLUGA 2	77	0,24	100	0,36	939	1474	1194	1,74	485	54,4	-	0,9
SPLUGA 3	82	0,29	100	0,33	679	1619	1339	1,69	423	57,1	-	1,0
SPLUGA 4	82	0,49	100	0,78	989	1564	1284	1,95	437	49,5	-	0,3
SPLUGA 5	81	0,60	100	0,95	988	1518	1238	1,88	507	54,8	-	0,6

* Percentage of nominal airflow rate

VALUES ACCORDING TO UNI EN 1886:2008

Unit	CASING DEFORMATION	LEAKAGE CASING	FILTERS CLASS	THERMAL TRANSMITTANCE	THERMAL BRIDGING
SPLUGA 1	D1 (M)	L2 (M)	F9 (M)	T3 (M)	TB4 (M)
SPLUGA 2	D1 (M)	L2 (M)	F9 (M)	T3 (M)	TB4 (M)
SPLUGA 3	D1 (M)	L2 (M)	F9 (M)	T3 (M)	TB4 (M)
SPLUGA 4	D1 (M)	L2 (M)	F9 (M)	T3 (M)	TB4 (M)
SPLUGA 5	D1 (M)	L2 (M)	F9 (M)	T3 (M)	TB4 (M)

TEST LEAKAGE (UNI EN 13141-7)

		LEAKAGE CLASSIFICATION				
LEAKAGE	TEST CONDITIONS	SPLUGA 1	SPLUGA 2	SPLUGA 3	SPLUGA 4	SPLUGA 5
EXTERNAL	Positive pressure 400 Pa	A2	A2	A1	A1	A1
ESTERNO	Negative pressure 400 Pa	A1	A1	A1	A1	A1

NOISE ACCORDING TO UNI EN ISO 3747 – CLASS 3

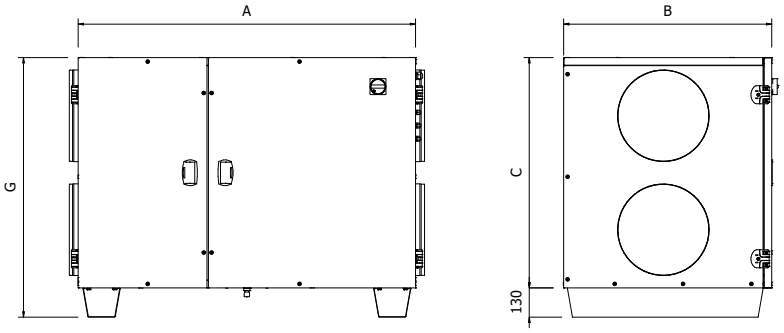
	CASING NOISE (dB)							
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
SPLUGA 1	56,3	60,6	54,1	42,3	41,2	29,7	26,9	55,2
SPLUGA 2	60,2	63,9	64,0	53,5	50,9	38,8	36,2	62,9
SPLUGA 3	62,1	66,6	60,6	59,9	55,6	46,1	47,6	64,5
SPLUGA 4	64,9	69,0	64,4	57,2	53,2	40,5	38,7	65,2
SPLUGA 5	68,5	73,5	64,4	58,2	49,5	44,9	39,7	67,4

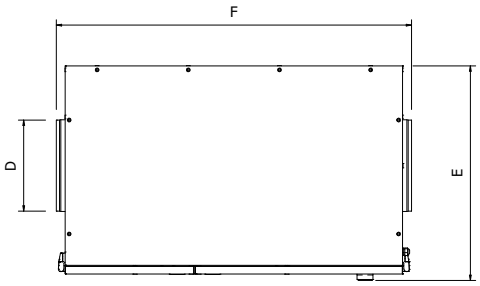
	DUCT NOISE (dB)							
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
SPLUGA 1	58,6	61,3	62,6	52,1	51,2	51,4	47,4	62,1
SPLUGA 2	65,0	67,7	69,7	63,3	61,5	60,8	60,0	70,7
SPLUGA 3	64,0	70,9	69,3	67,6	63,3	61,2	63,7	72,5
SPLUGA 4	68,0	74,6	72,4	68,1	64,0	62,8	63,2	74,2
SPLUGA 5	70,0	77,2	71,0	67,2	61,8	59,4	58,8	73,5

ELECTRICAL DATA

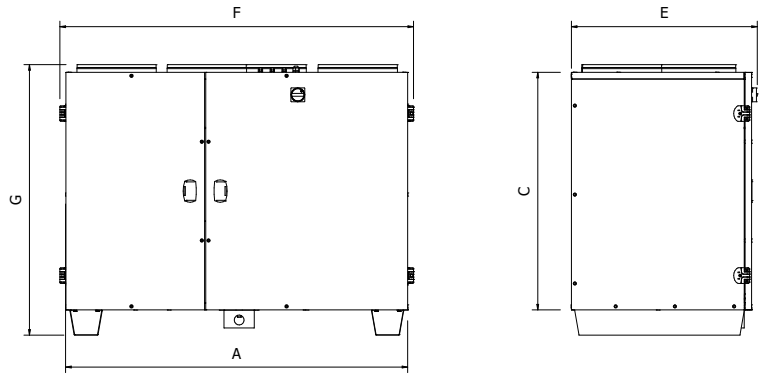
Unit	FAN				UNIT SPLUGA		
	Power (W)	Supply	Max Current (A)	Insulation class	Supply	Max Current (A)	Insulation class
SPLUGA 1	85	230 V, 50 Hz, 1 F	0,7	B	230 V, 50 Hz, 1 F	0,9	IP20
SPLUGA 2	170	230 V, 50 Hz, 1 F	1,4	B	230 V, 50 Hz, 1 F	1,6	IP20
SPLUGA 3	170	230 V, 50 Hz, 1 F	1,4	B	230 V, 50 Hz, 1 F	1,5	IP20
SPLUGA 4	450	230 V, 50 Hz, 1 F	3	F	230 V, 50 Hz, 1 F	3,4	IP20
SPLUGA 5	550	230 V, 50 Hz, 1 F	3,5	F	230 V, 50 Hz, 1 F	3,9	IP20

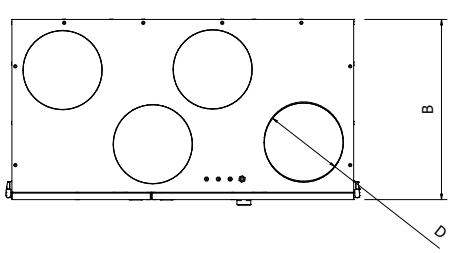
DIMENSIONS AND WEIGHTS





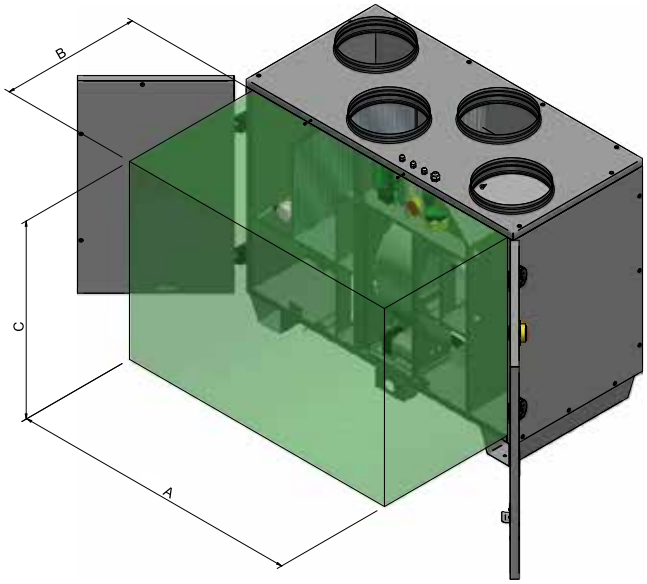
UNIT	Dimensions (mm)							
	A	B	C	D	E	F	G	Weight (kg)
SPLUGA SIDE 1	1070	574	735	200	602	1149	863	81
SPLUGA SIDE 2	1070	724	810	250	752	1149	938	107
SPLUGA SIDE 3	1170	740	850	315	770	1250	970	121
SPLUGA SIDE 4	1380	873	970	355	901	1459	1098	171
SPLUGA SIDE 5	1480	913	1010	400	941	1559	1138	189



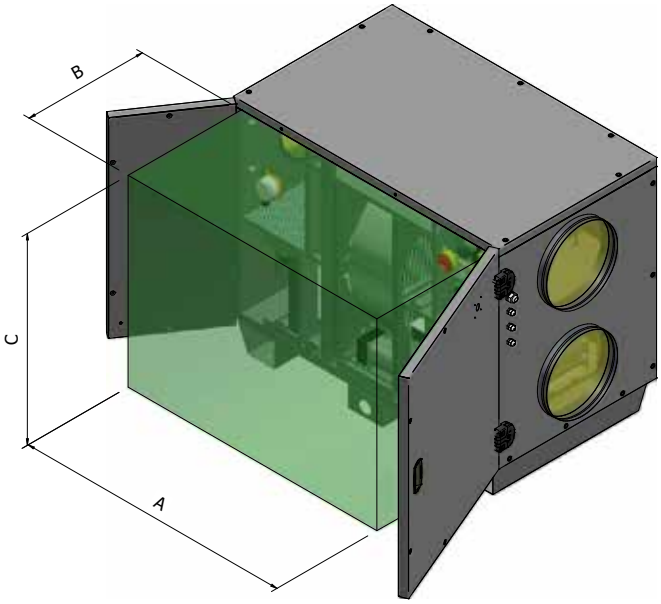


UNIT	Dimensions (mm)							
	A	B	C	D	E	F	G	Weight (kg)
SPLUGA TOP 1	1090	571	840	200	600	1150	1008	91
SPLUGA TOP 2	1140	722	990	250	802	1200	1158	126
SPLUGA TOP 3	1448	737	998	315	766	1508	1164	146
SPLUGA TOP 4	1590	870	1112	355	899	1650	1280	216
SPLUGA TOP 5	1730	910	1202	400	939	1790	1370	287

INSTALLATION AND MINIMUM CLEARANCES



UNIT	A	B	C
SPLUGA TOP 1	1090	745	1008
SPLUGA TOP 2	1140	760	1158
SPLUGA TOP 3	1448	870	1164
SPLUGA TOP 4	1590	960	1280
SPLUGA TOP 5	1730	1030	1370



UNIT	A	B	C
SPLUGA SIDE 1	1070	752	863
SPLUGA SIDE 2	1070	752	938
SPLUGA SIDE 3	1170	755	970
SPLUGA SIDE 4	1380	857	1098
SPLUGA SIDE 5	1480	907	1138

COILS

ELECTRIC PREHEATING COILS

UNIT	Supply	Power [kW]	Current [A]
SPLUGA SIDE/TOP 1	230V, 50Hz, 1F	1	4,3
SPLUGA SIDE/TOP 2	230V, 50Hz, 1F	2	8,7
SPLUGA SIDE/TOP 3	230V, 50Hz, 1F	2	8,7
SPLUGA SIDE/TOP 4	230V, 50Hz, 1F	3	13
SPLUGA SIDE/TOP 5	400V, 50Hz, 3F	4	5,8

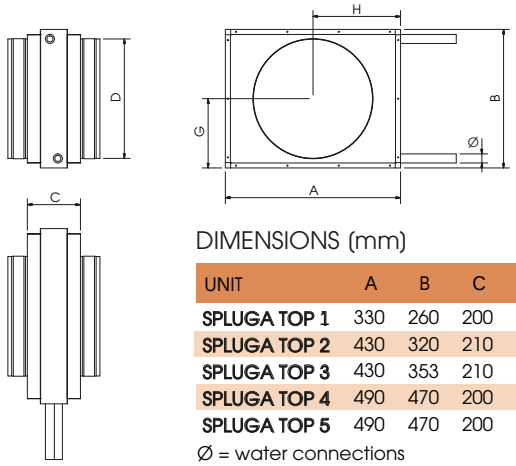
ELECTRIC POSTHEATING COILS

UNIT	Supply	Power [kW]	Current [A]
SPLUGA SIDE/TOP 1	230V, 50Hz, 1F	1	4,3
SPLUGA SIDE/TOP 2	230V, 50Hz, 1F	2	8,7
SPLUGA SIDE/TOP 3	230V, 50Hz, 1F	3	13
SPLUGA SIDE/TOP 4	400V, 50Hz, 3F	4	5,8
SPLUGA SIDE/TOP 5	400V, 50Hz, 3F	6	8,7

SPLUGA TOP BA-AC COILS - Outdoor air -5°C/80% - Indoor air 20°C/50%

Hot water 45°C-40°C

UNIT	Air flow [m³/h]	Air IN	Power [kW]	Temp out [°C]	Δp air [Pa]	Water flow [l/h]	Δp water [kPa]	Ø conn.	Vol [l]
SPLUGA TOP 1	400	14,7°C | 41,8%	1,8	28	78	312	3,9	1/2"	0,5
SPLUGA TOP 2	700	13,9°C | 42,6%	2,85	26	51	495	3,3	1/2"	1,1
SPLUGA TOP 3	1000	14,7°C | 41,8%	3,36	25	93	583	4,5	1/2"	1,1
SPLUGA TOP 4	1500	14,7°C | 41,8%	5,47	26	66	950	9,3	3/4"	2,1
SPLUGA TOP 5	2000	14,4°C | 42,1%	6,47	24	107	1124	12,8	3/4"	2,1



DIMENSIONS (mm)

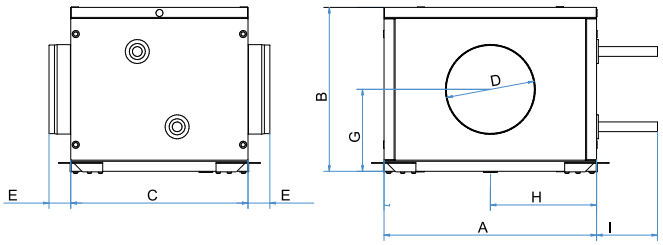
UNIT	A	B	C	D	G	H	Ø	Weight [Kg]
SPLUGA TOP 1	330	260	200	200	130	165	1/2"	8,0
SPLUGA TOP 2	430	320	210	250	160	215	1/2"	11,0
SPLUGA TOP 3	430	353	210	315	176	215	3/4"	15,0
SPLUGA TOP 4	490	470	200	355	235	245	3/4"	20,0
SPLUGA TOP 5	490	470	200	400	235	245	3/4"	20,0

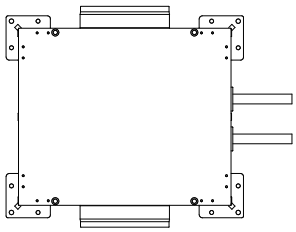
Ø = water connections

SPLUGA SIDE BA-AC COILS - Outdoor air -5°C/80% - Indoor air 20°C/50%

Hot water 45°C-40°C

UNIT	Air flow [m³/h]	Air IN	Power [kW]	Temp out [°C]	Δp air [Pa]	Water flow [l/h]	Δp water [kPa]	Ø Connections	Vol [l]
SPLUGA SIDE 1	400	14,7°C | 41,8%	1,8	28	78	312	3,9	1/2"	0,5
SPLUGA SIDE 2	700	13,9°C | 42,6%	2,85	26	51	495	3,3	1/2"	1,1
SPLUGA SIDE 3	1000	14,7°C | 41,8%	3,36	25	93	583	4,5	1/2"	1,1
SPLUGA SIDE 4	1500	14,7°C | 41,8%	5,47	26	66	950	9,3	3/4"	2,1
SPLUGA SIDE 5	2000	14,4°C | 42,1%	6,47	24	107	1124	12,8	3/4"	2,1



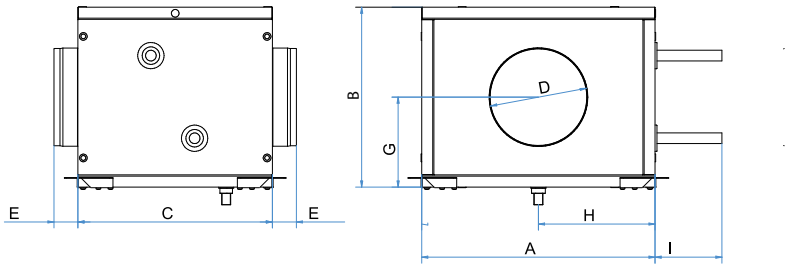


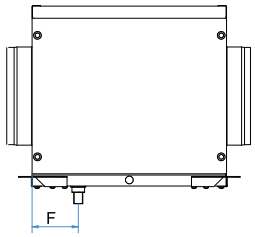
DIMENSIONS (mm)

UNIT	A	B	C	D	E	G	H	I	Weight [Kg]
SPLUGA SIDE 1	480	370	400	200	49,3	185	240	75	15
SPLUGA SIDE 2	580	430	400	250	49,3	215	290	75	21
SPLUGA SIDE 3	580	430	400	315	49	215	290	75	29
SPLUGA SIDE 4	700	555	400	355	49	278	350	60	38
SPLUGA SIDE 5	700	555	400	400	49	278	350	60	38

SPLUGA SIDE/TOP BA-AF/AC COILS - Outdoor air -5°C/80% - Indoor air 20°C/50% — Cold water 7°C-12°C

UNIT	Air flow [m³/h]	Air IN	Power [kW]	Temp out [°C]	Δp air [Pa]	Water flow [l/h]	Δp water [kPa]	Vol [l]
SPLUGA SIDE/TOP 1	400	27,4°C | 58,4%	2,64	15,2	33	461	4	1,4
SPLUGA SIDE/TOP 2	700	27,6°C | 57,6%	3,97	16,8	56	700	5,6	2,3
SPLUGA SIDE/TOP 3	1000	27,4°C | 58,4%	6,18	19	101	1078	12,7	2,3
SPLUGA SIDE/TOP 4	1500	27,4°C | 58,4%	12,18	17	52	2134	13,8	5,1
SPLUGA SIDE/TOP 5	2000	27,5°C | 58%	14,58	18	84	2579	19,8	5,1





DIMENSIONS (mm)

UNIT	A	B	C	D	E	F	G	H	I	Weight [Kg]
SPLUGA SIDE/TOP 1	480	370	400	200	49,3	95	185	240	137,5	20
SPLUGA SIDE/TOP 2	580	430	400	250	49,3	95	215	290	85,6	25
SPLUGA SIDE/TOP 3	580	430	400	315	49	95	215	290	85	36
SPLUGA SIDE/TOP 4	700	555	400	355	49	95	278	350	120	45
SPLUGA SIDE/TOP 5	700	555	400	400	49	95	278	350	120	45

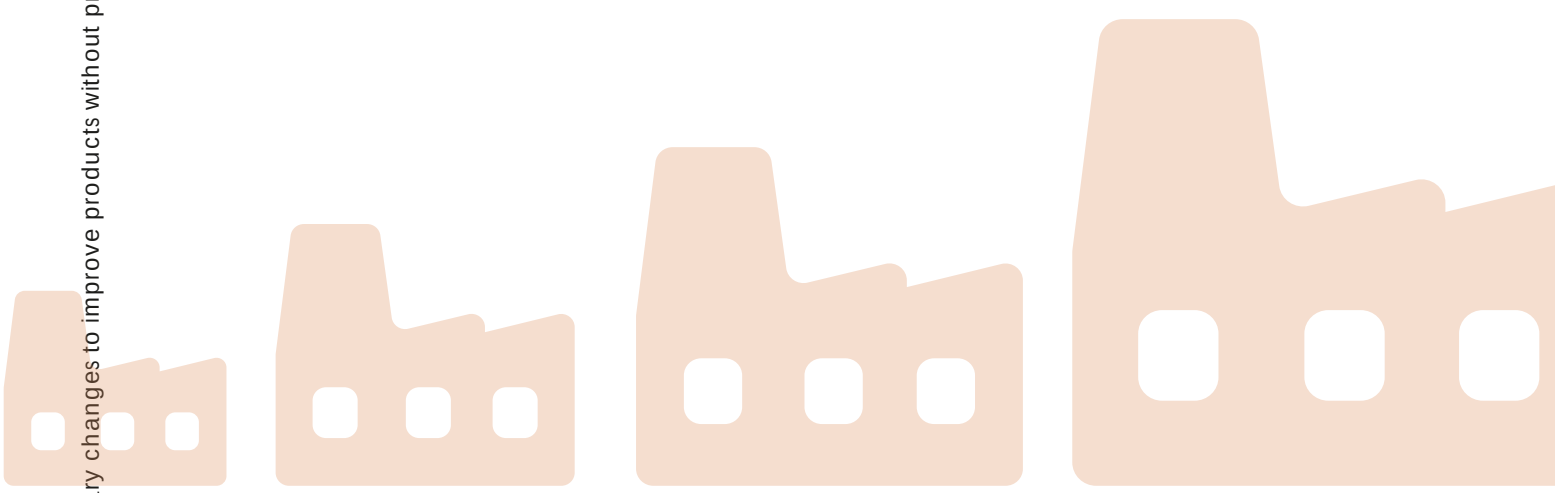
A	Manufacturer's name C.L.A. S.r.l.					
B	Manufacturer's model identifier	SPLUGA SIDE 1 SPLUGA TOP 1	SPLUGA SIDE 2 SPLUGA TOP 2	SPLUGA SIDE 3 SPLUGA TOP 3	SPLUGA SIDE 4 SPLUGA TOP 4	SPLUGA SIDE 5 SPLUGA TOP 5
C	Declared typology	UVNR / UVB	UVNR / UVB	UVNR / UVB	UVNR / UVB	UVNR / UVB
D	Type of drive 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 [%]	81,4	77,3	82,4	81,6	80,6
G	Nominal NRVU flow rate [m³/s]	0,136	0,2397	0,2872	0,4881	0,6015
H	Effective electric power input [kW]	0,19	0,36	0,33	0,78	0,92
I	SFPint [W/[m³/s]	824	939	679	989	988
J	Face velocity at design flow rate [m/s]	1,07	1,74	1,69	1,95	1,88
K	Nominal external pressure [Pa]	100	100	100	100	100
L	Internal pressure drop of ventilation components [Pa]	460	485	423	437	507
M	Optional: internal pressure drop of non-ventilation components	-	-	-	-	-
N	Static efficiency of fans used in accordance with Regulation (EU) No 327/2011 [%]	57,3	54,4	57,1	49,5	54,8
O	Declared maximum external leakage rate of the casing of ventilation units [%]	1,0	0,9	1,0	0,3	0,6
	Declared maximum internal leakage rate of bidirectional ventilation units or carry over (for regenerative heat exchangers only) [%]	-	-	-	-	-
P	Energy performance, preferably energy classification, of the filters (declared information about the calculated annual energy consumption	ePM1 55% (F7) ePM10 50% (M5)	ePM1 55% (F7) ePM10 50% (M5)	ePM1 55% (F7) ePM10 50% (M5)	ePM1 55% (F7) ePM10 50% (M5)	ePM1 55% (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]	55,2	62,9	64,5	65,2	67,4
S	Internet address for pre-/dis-assembly instructions	utek-air.it				

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

AZIENDA CON SISTEMA DI GESTIONE AMBIENTALE CERTIFICATO DA DNV
ISO 14001

Made in Italy

CLA & UTEK reserves the right to at any time the necessary changes to improve products without prior notice .



Dealer

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