Utek

indoor air quality and energy saving

TECHNICAL DATA

HRU-EC INVERTER

HEAT RECOVERY VENTILATION UNITS with INTEGRATED AIR/AIR HEAT PUMP (CLIMATIZATION)

HRU-EC
HRU-EC is an active recovery unit for heating, cooling and air renewal of the environments (medium efficency).

PERFORMANCE
HRU-EC can operate either as a passive recovery and as an active thermodynamic recovery and is particularly suitable for residential premises, commercial or collective residential buildings. The unit is supplied in plug-and-play version for a 'quick and simplified installation

STRUCTURE
The unit is composed of a monobloc inclusive of each component for the correct operation: fans, cooling circuit (with high efficiency INVERTER compressors and electronic expansion valve), air filtration sections and cross-flow heat exchanger (medium efficency). The unit frame is manufactured using a profiled extruded aluminium frame and 36 mm thick sandwich panels, insulated in polyurethane foam. The panels and inner parts are manufactured in Aluzinc® material that ensures high strength against corrosion and oxidation. The isolation of the panels is made with insulating that allow to have low noise and reduced transmittances during the operation of the unit. HRU-EC is equipped with electronic backward blade ventilators (compliant Erp2015).The heat exchanger is made of aluminum cross-flow with a medium efficency (summer and winter operation) and the rotary or scroll compressor (high efficiency) has a thermal protector icorporated. Inside the unit there are two filters with filtration class ePM10 50% (M5) and ePM2,5 70% (F7) easily extractable. The system is managed by an electronic evolved but easy to manage.

MAIN FEATURES

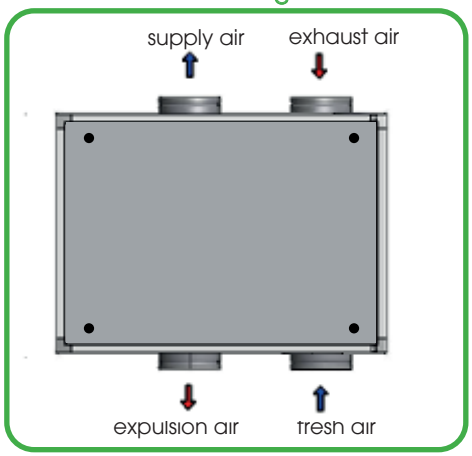
ACTIVE THERMODYNAMIC RECOVERY: lthe unit allows the recovery of active energy of the exhaust air. The thermodynamic recovery allows, thanks to its refrigerant circuit, to provide energy to the environment in higher quantities than the energy subtracted from the ventilation.

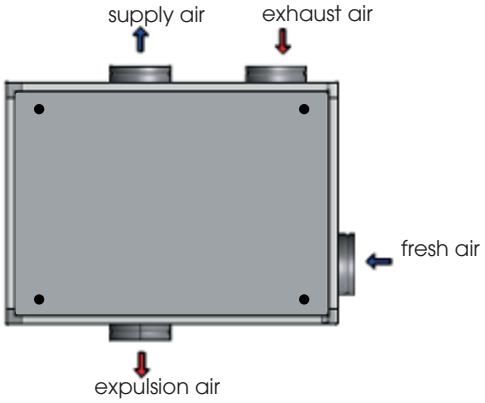
COOLING CIRCUIT: made of copper brazed full of: high efficiency INVERTER compressor, filter drier, finned coils, solenoids, valves, electronic expansion valve, liquid receiver, pressure transducers and safety devices.

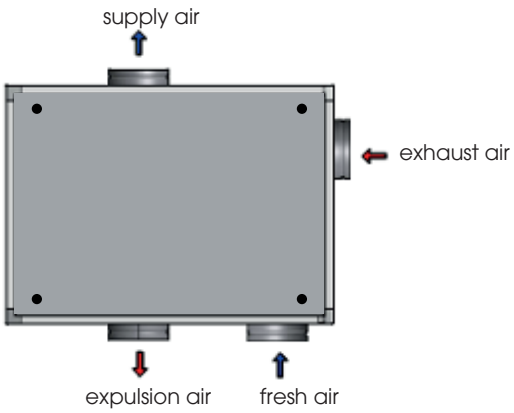
ADJUSTMENT: electric board in the unit with microprocessor and dedicated control which allows to manage:
- the temperature of the air: with room air probe (the supply-air is self-regulating to maintain the T recovery), or air delivery probe
- the fans
- the temperature probes inside the machine
- dirty filters with differential pressure sensors
- management of the defrosting algorithm optimized for operation at low temperatures
- 3-way valve 0-10 Volt for H_2O battery management after cooling / heating

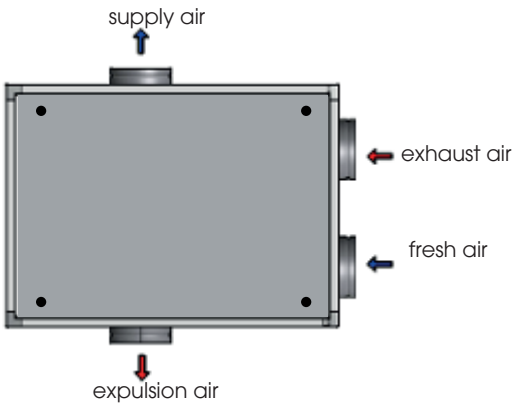
Prepared for MODBUS RTU RS 485.

Standard configuration









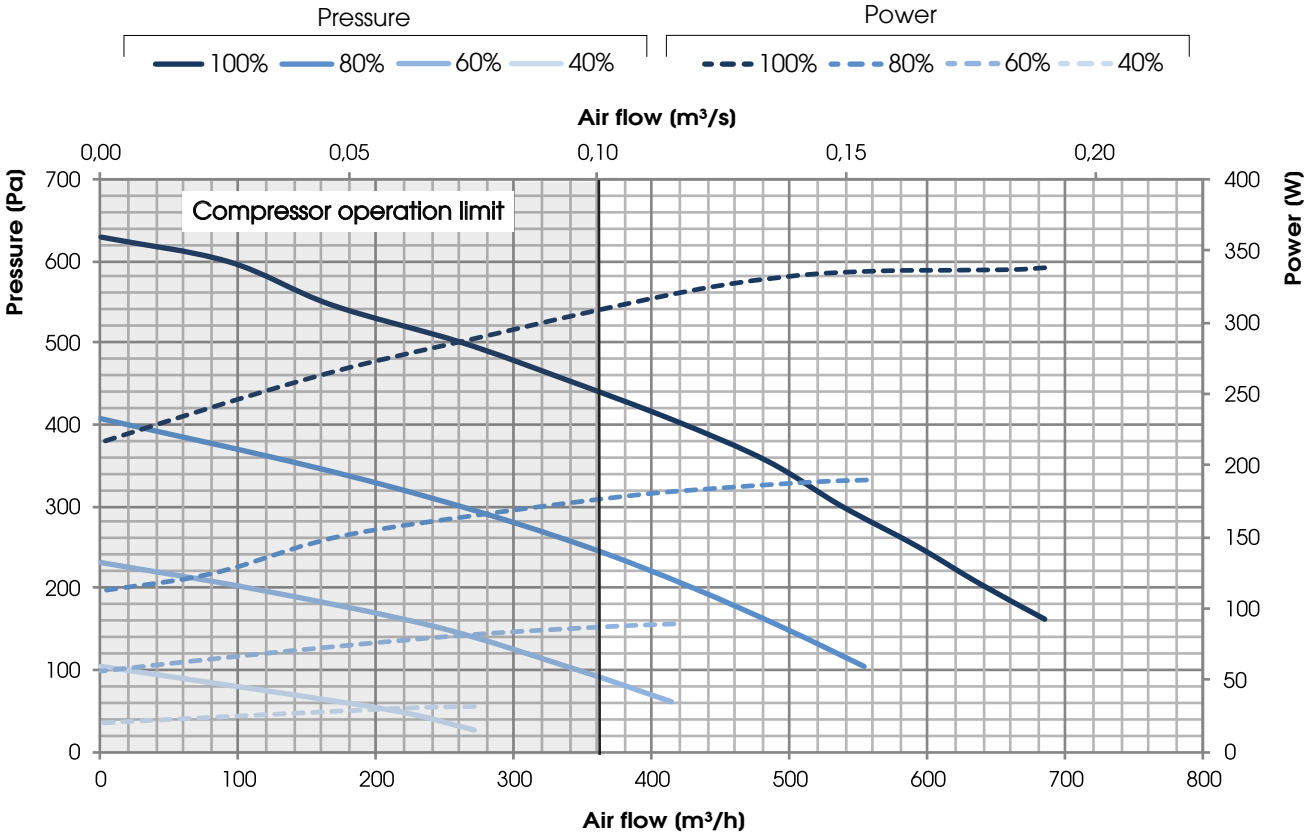
The units are views from above

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

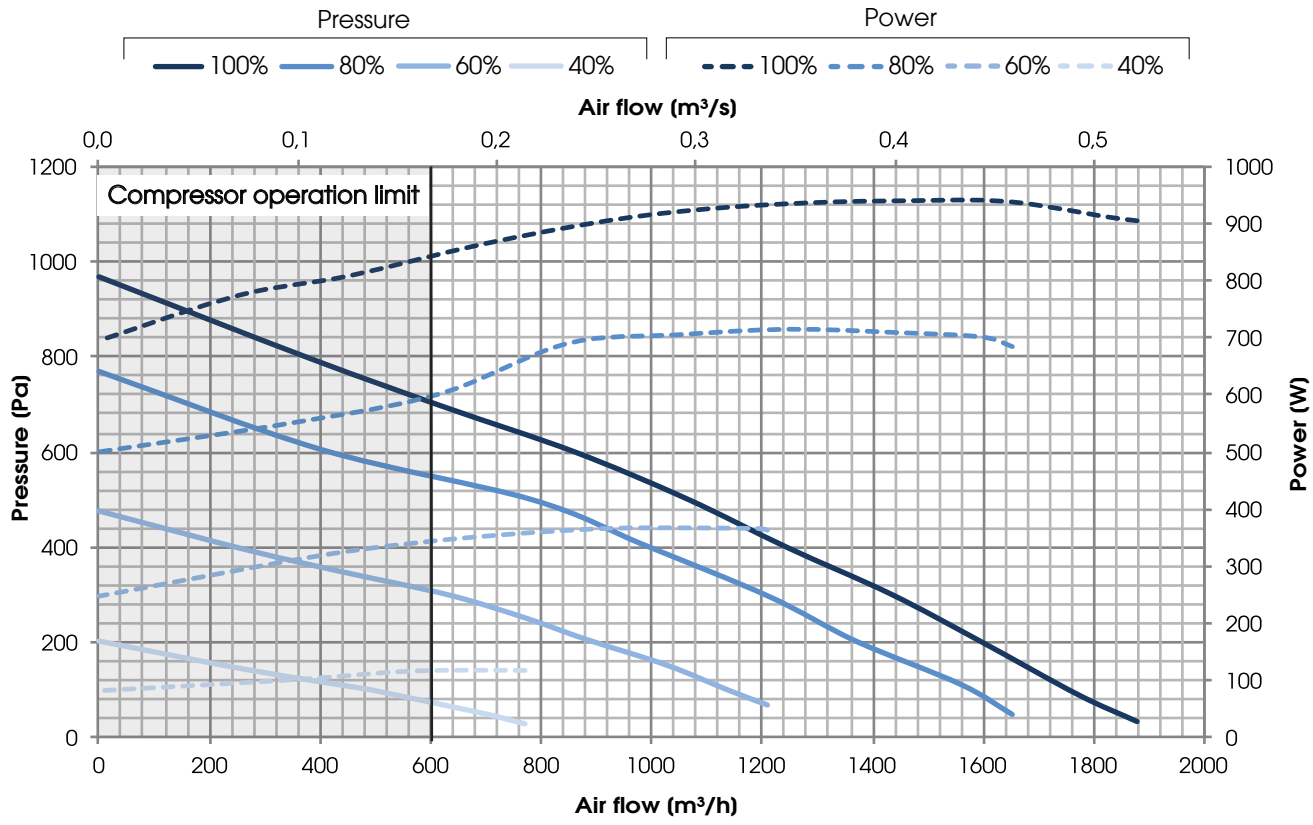
PERFORMANCES

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.

HRU-EC 1



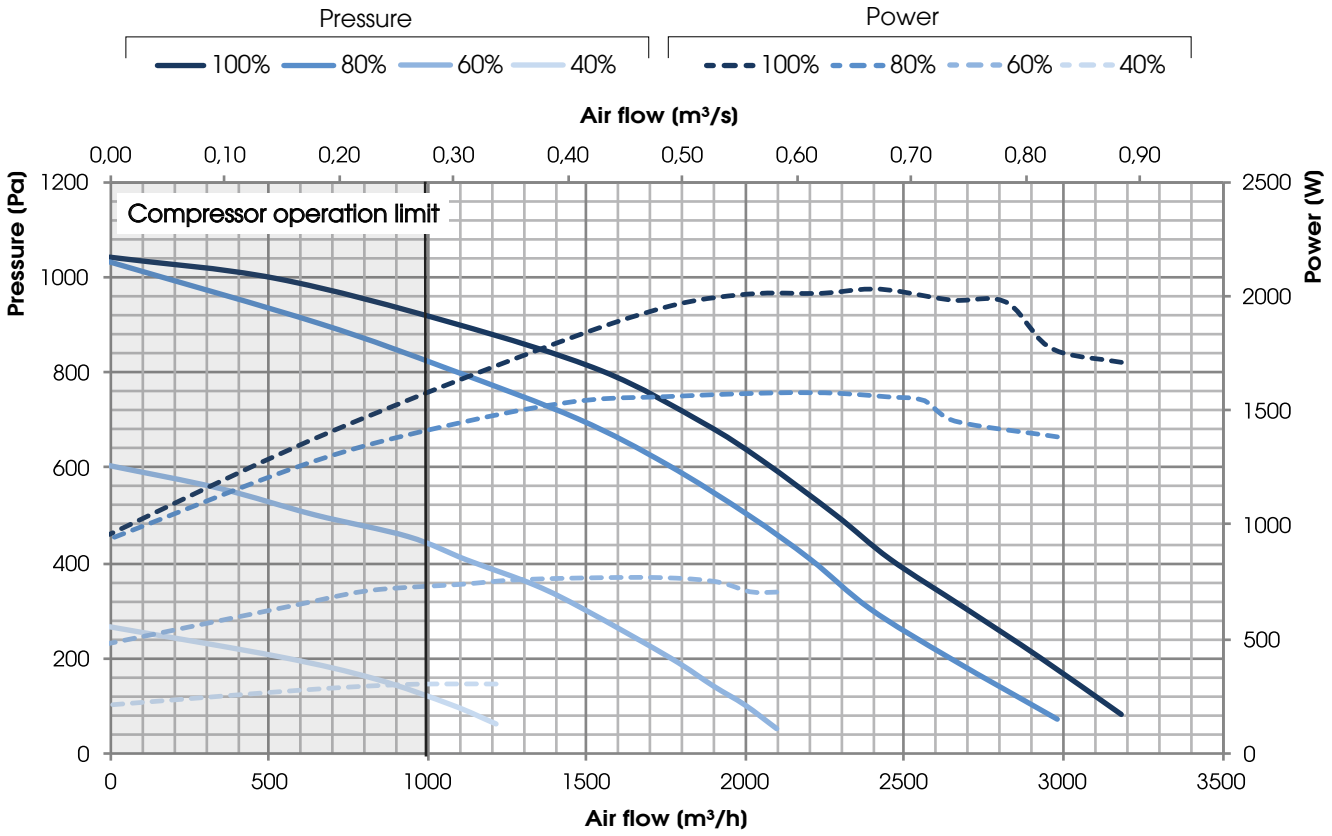
HRU-EC 2



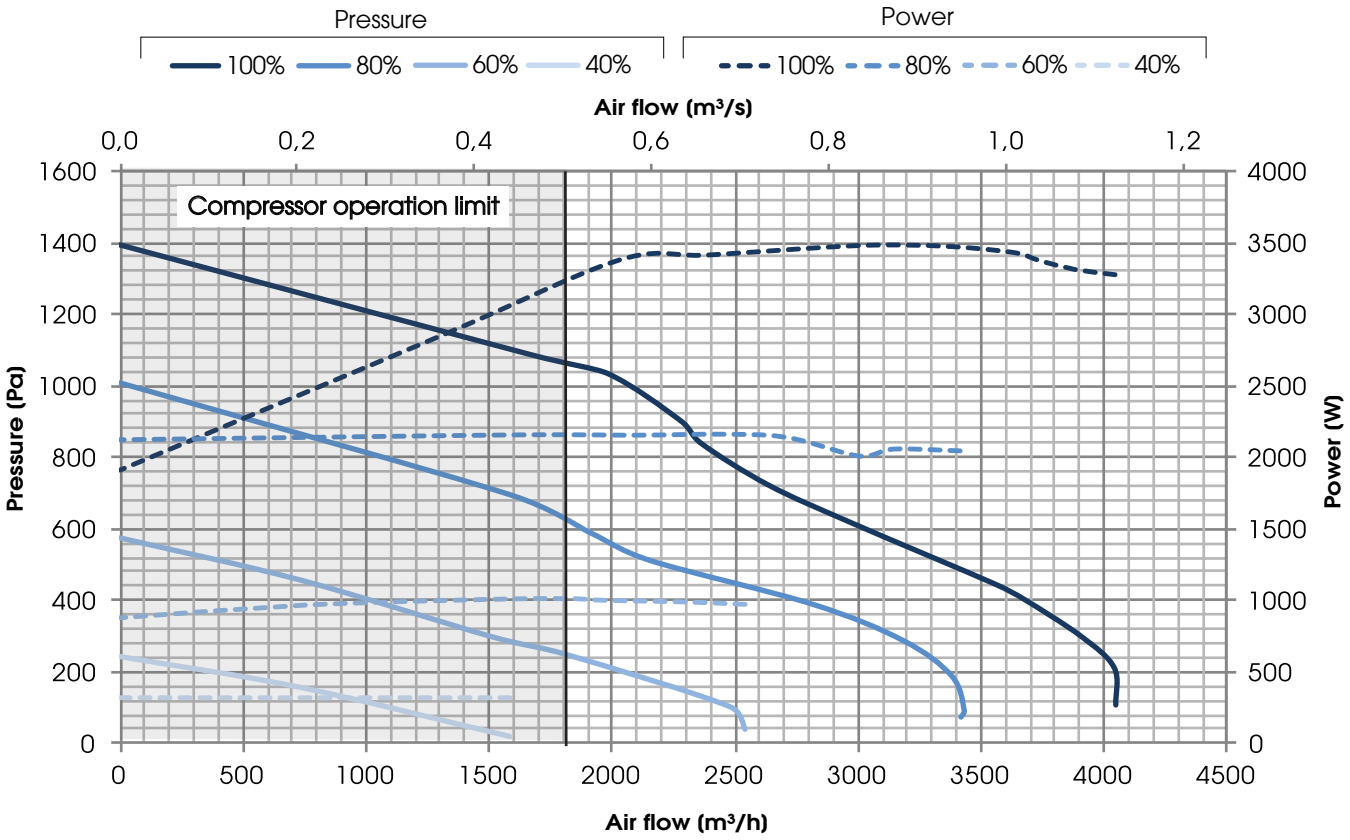
PERFORMANCES

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.

HRU-EC 3



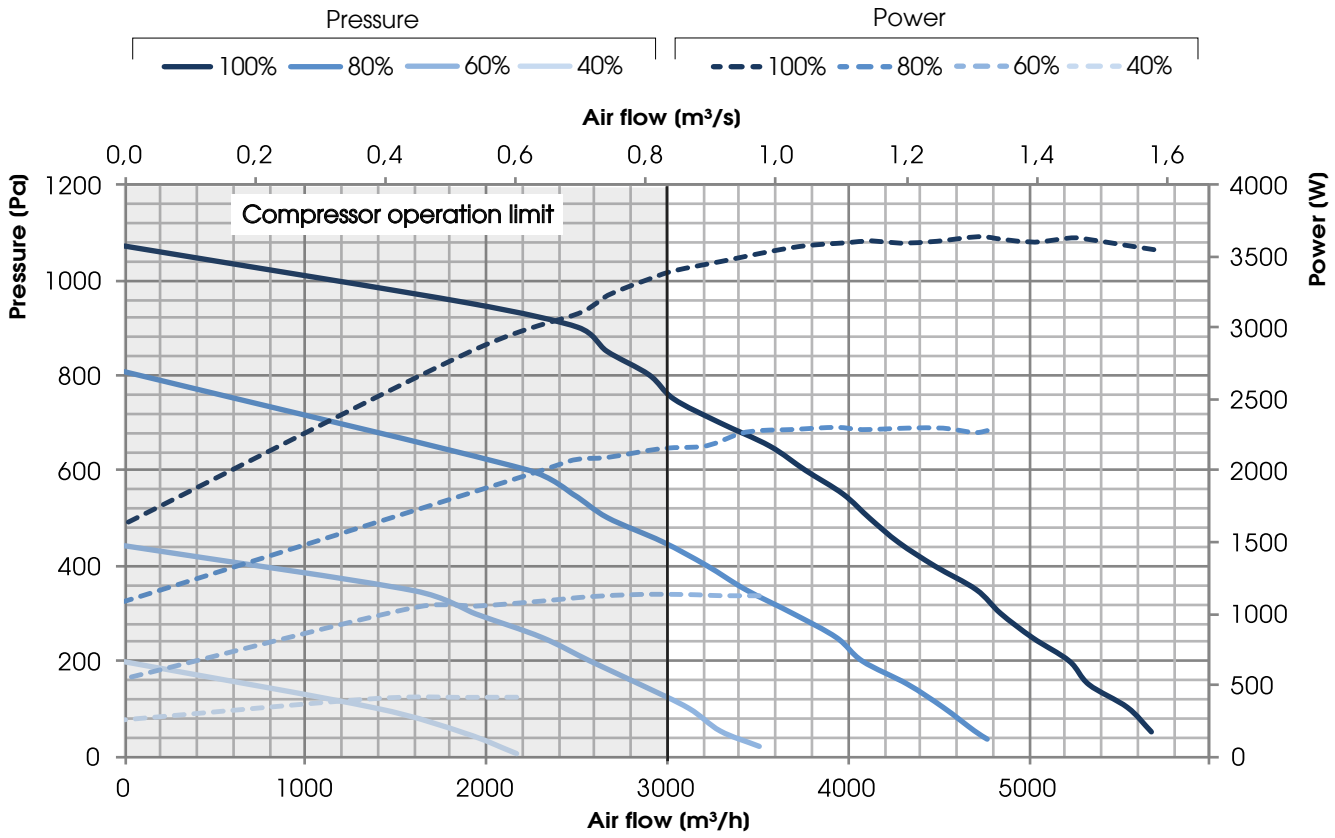
HRU-EC 4



PRESTAZIONI AERAULICHE

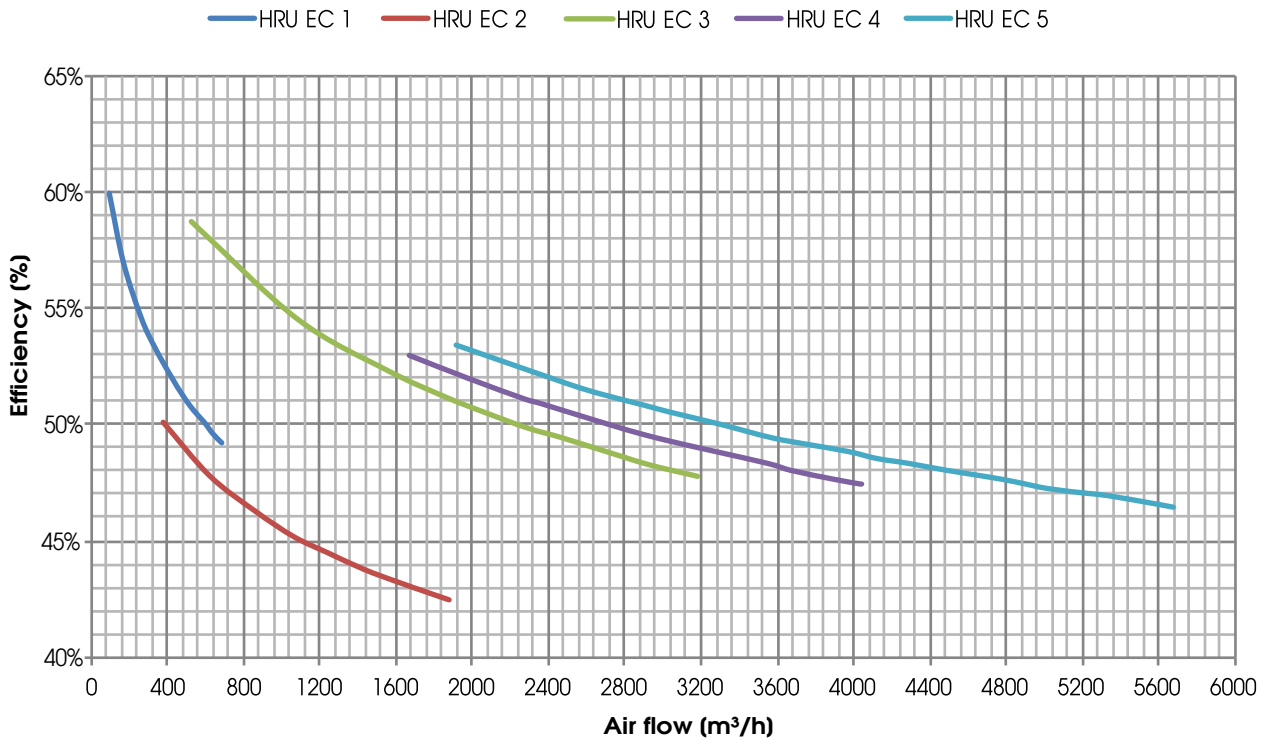
L'unità deve essere canalizzata: se ne autorizza l'utilizzo solo all'interno della curva rappresentata.
Le prestazioni dichiarate sono con filtri PULITI, e garantite ESCLUSIVAMENTE con i filtri originali UTEK a bassa perdita di carico.

HRU-EC 5



HEAT RECOVERY PERFORMANCE (sensible efficiency)

Values refered to the following conditions (UNI EN 13141-7): Tbs external air 5°C; U.R. esternal 72%; Tbs enviorment 25°C; U.R. enviorm ent 28%



TECHNICAL DATA HRU-EC 1

EXTERN	INTERN 20°C/60%												
	RECOVERY	FREQUENCY COMPRESSOR 30 Hz				FREQUENCY COMPRESSOR 60Hz				FREQUENCY COMPRESSOR 90Hz			
	Thermal Power recovery	Thermal Power	Abs. power	COP	Immision	Thermal Power	Abs. power	COP	Immision	Thermal Power	Abs. power	COP	Immision
-5°C/ 98%	3,0 kW	1,31 kW	0,22 kW	5,84	16,9 °C	2,55 kW	0,45 kW	5,61	22,2 °C	3,64 kW	0,85 kW	4,27	27,3 °C
7°C/ 94%	1,3 kW	1,47 kW	0,23 kW	6,36	21,0 °C	2,90 kW	0,50 kW	5,79	27,9 °C	4,16 kW	1,01 kW	4,11	33,6 °C
15°C/ 88%	0,5 kW	1,53 kW	0,24 kW	6,37	25,2 °C	3,04 kW	0,59 kW	5,11	32,7 °C	4,20 kW	1,14 kW	3,68	38,5 °C

EXTERN	INTERN 27°C/ 62%												
	RECOVERY	FREQUENCY COMPRESSOR 30Hz				FREQUENCY COMPRESSOR 60Hz				FREQUENCY COMPRESSOR 90Hz			
	Thermal Power recovery	Cooling power	Abs. power	EER	Immision	Cooling power	Abs. power	EER	Immision	Cooling power	Abs. power	EER	Immision
25°C/ 60%	0,2 kW	1,46 kW	0,27 kW	5,25	19,3/81%	2,51 kW	0,62 kW	3,99	17,3/80%	3,55 kW	1,12 kW	3,16	15,5/79,4%
35°C/ 53%	1,0 kW	1,68 kW	0,31 kW	5,33	21,8/72%	2,56 kW	0,71 kW	3,60	19,7/74%	3,40 kW	1,30 kW	2,61	18,2/73%
38°C/ 40%	1,3 kW	1,70 kW	0,32 kW	5,23	22,5/68%	2,48 kW	0,71 kW	3,46	20,8/72%	3,16 kW	1,41 kW	2,24	19,5/71%

TECHNICAL DATA HRU-EC 2

EXTERN	INTERN 20°C/60%												
	RECOVERY	FREQUENCY COMPRESSOR 30Hz				FREQUENCY COMPRESSOR 60Hz				FREQUENCY COMPRESSOR 90Hz			
	Thermal Power recovery	Thermal Power	Abs. power	COP	Immision	Thermal Power	Abs. power	COP	Immision	Thermal Power	Abs. power	COP	Immision
-5°C/ 98%	4,6 kW	3,74 kW	0,58 kW	6,44	18,3 °C	5,09 kW	0,85 kW	5,98	23,2 °C	6,90 kW	1,35 kW	5,11	28,1 °C
7°C/ 94%	2,0 kW	4,07 kW	0,62 kW	6,51	24,7 °C	5,57 kW	0,95 kW	5,86	29,5 °C	6,74 kW	1,40 kW	4,81	33,1 °C
15°C/ 88%	0,8 kW	4,24 kW	0,63 kW	6,73	29,7 °C	5,82 kW	1,07 kW	5,43	34,6 °C	7,02 kW	1,62 kW	4,33	38,6 °C

ESTERNO	INTERN 27°C/ 62%												
	RECOVERY	FREQUENCY COMPRESSOR 30Hz				FREQUENCY COMPRESSOR 60Hz				FREQUENCY COMPRESSOR 90Hz			
	Thermal Power recovery	Cooling power	Abs. power	EER	Immision	Cooling power	Abs. power	EER	Immision	Cooling power	Abs. power	EER	Immision
25°C/ 60%	0,3 kW	3,98 kW	0,70 kW	5,66	17,2/84%	5,52 kW	1,12 kW	4,92	15,8/83%	5,99 kW	1,71 kW	3,50	14,9/83%
35°C/ 53%	1,2 kW	4,81 kW	0,79 kW	6,05	23,5/88%	6,21 kW	1,30 kW	4,77	22,1/88%	7,10 kW	2,12 kW	3,34	21,3/87,9%
38°C/ 40%	1,7 kW	4,50 kW	0,82 kW	5,46	23,6/84%	6,15 kW	1,42 kW	4,33	22,4/84%	6,81 kW	2,18 kW	3,12	21,6/83%

TECHNICAL DATA HRU-EC 3

EXTERN	INTERN 20°C/60%												
	RECOVERY	FREQUENCY COMPRESSOR 30Hz				FREQUENCY COMPRESSOR 60Hz				FREQUENCY COMPRESSOR 90Hz			
	Thermal Power recovery	Thermal Power	Abs. power	COP	Immision	Thermal Power	Abs. power	COP	Immision	Thermal Power	Abs. power	COP	Immision
-5°C/ 98%	9,9 kW	5,97 kW	0,87 kW	6,86	18,2 °C	8,85 kW	1,61 kW	5,49	22,6 °C	12,0 kW	2,40 kW	5,0	27,2 °C
7°C/ 94%	4,5 kW	6,14 kW	0,89 kW	6,87	22,8 °C	10,1 kW	1,69 kW	5,97	28,8 °C	13,14 kW	2,71 kW	4,84	33,0 °C
15°C/ 88%	1,7 kW	6,32 kW	0,91 kW	6,94	26,9 °C	10,23 kW	1,73 kW	5,91	33,1 °C	13,52 kW	2,92 kW	4,63	37,2 °C

EXTERN	INTERN 27°C/ 62%												
	RECOVERY	FREQUENCY COMPRESSOR 30Hz				FREQUENCY COMPRESSOR 60Hz				FREQUENCY COMPRESSOR 90Hz			
	Thermal Power recovery	Cooling power	Abs. power	EER	Immision	Cooling power	Abs. power	EER	Immision	Cooling power	Abs. power	EER	Immision
25°C/ 60%	0,7 kW	5,40 kW	0,92 kW	5,86	18,7/83%	9,43 kW	1,98 kW	4,76	16,7/83%	11,41 kW	3,26 kW	3,50	15,5/82%
35°C/ 53%	2,7 kW	6,08 kW	1,01 kW	6,01	23,5/88%	10,38 kW	2,31 kW	4,49	22,8/88,5%	12,8 kW	3,72 kW	3,44	21,9/88,2%
38°C/ 40%	3,8 kW	6,17 kW	1,08 kW	5,71	24,6/83%	10,31 kW	2,35 kW	4,38	22,9/82%	12,0 kW	3,98 kW	3,01	22,3/82%

TECHNICAL DATA HRU-EC 4

EXTERN	INTERN 20°C/60%												
	RECOVERY	FREQUENCY COMPRESSOR 30Hz				FREQUENCY COMPRESSOR 60Hz				FREQUENCY COMPRESSOR 90Hz			
	Thermal Power recovery	Thermal Power	Abs. power	COP	Immision	Thermal Power	Abs. power	COP	Immision	Thermal Power	Abs. power	COP	Immision
-5°C/ 98%	14,5 kW	10,21 kW	1,61 kW	6,34	19,4 °C	15,93 kW	3,15 kW	5,05	24,2 °C	21,62 kW	5,65 kW	3,82	30,2 °C
7°C/ 94%	6,6 kW	10,25 kW	1,55 kW	6,61	23,3 °C	17,73 kW	3,25 kW	5,45	30,3 °C	23,78 kW	6,60 kW	3,60	35,6 °C
15°C/ 88%	2,5 kW	10,27 kW	1,47 kW	6,98	27,8 °C	17,91 kW	3,31 kW	5,41	34,1 °C	25,05 kW	7,10 kW	3,52	41,5 °C

EXTERN	INTERN 27°C/ 62%												
	RECOVERY	FREQUENCY COMPRESSOR 30Hz				FREQUENCY COMPRESSOR 60Hz				FREQUENCY COMPRESSOR 90Hz			
	Thermal Power recovery	Cooling power	Abs. power	EER	Immision	Cooling power	Abs. power	EER	Immision	Cooling power	Abs. power	EER	Immision
25°C/ 60%	1,0 kW	8,97 kW	1,67 kW	5,37	19,1/77%	14,5 kW	3,38 kW	4,28	17,1/79%	18,62 kW	7,05 kW	2,64	15,5/78%
35°C/ 53%	4,0 kW	10,3 kW	1,82 kW	5,65	24,8/85%	17,7 kW	4,23 kW	4,18	22,8/85%	21,40 kW	8,15 kW	2,62	21,4/84,5%
38°C/ 40%	5,5 kW	10,6 kW	1,98 kW	5,35	24,5/78%	17,2 kW	4,51 kW	3,81	22,7/78%	19,85 kW	8,61 kW	2,30	21,6/83%

TECHNICAL DATA HRU-EC 5

EXTERN	INTERN 20°C/60%												
	RECOVERY	FREQUENCY COMPRESSOR 30Hz				FREQUENCY COMPRESSOR 60Hz				FREQUENCY COMPRESSOR 90Hz			
	Thermal Power recovery	Thermal Power	Abs. power	COP	Immision	Thermal Power	Abs. power	COP	Immision	Thermal Power	Abs. power	COP	Immision
-5°C/ 98%	21,3 kW	13,61 kW	2,11 kW	6,45	18,0 °C	22,18 kW	3,98 kW	5,57	23,8 °C	32,1 kW	7,9 kW	4,06	29,4 °C
7°C/ 94%	9,7 kW	13,80 kW	2,11 kW	6,57	22,7 °C	26,91 kW	4,51 kW	5,96	29,9 °C	33,2 kW	8,3 kW	4,00	35,3 °C
15°C/ 88%	3,7 kW	15,32 kW	2,22 kW	6,90	28,0 °C	25,88 kW	5,03 kW	5,14	34,7 °C	34,9 kW	9,3 kW	3,75	39,8 °C

EXTERN	INTERN 27°C / 62%												
	RECOVERY	FREQUENCY COMPRESSOR 30Hz				FREQUENCY COMPRESSOR 60Hz				FREQUENCY COMPRESSOR 90Hz			
	Thermal Power recovery	Cooling power	Abs. power	EER	Immision	Cooling power	Abs. power	EER	Immision	Cooling power	Abs. power	EER	Immision
25°C/ 60%	1,5 kW	13,4 kW	2,40 kW	5,58	17,2/84%	23,1 kW	5,35 kW	4,31	16,8/80%	29,6 kW	9,71 kW	3,04	14,9/80%
35°C/ 53%	5,9 kW	15,9 kW	2,81 kW	5,65	24,8/86%	25,8 kW	6,28 kW	4,10	22,8/85%	32,5 kW	11,8 kW	2,75	21,5/86,0%
38°C/ 40%	8,1 kW	16,6 kW	2,98 kW	5,57	24,2/81%	25,0 kW	6,55 kW	3,81	22,7/82%	29,6 kW	11,8 kW	2,50	21,7/80%

GENERAL TECHNICAL DATA

	HRU-EC 1	HRU-EC 2	HRU-EC 3	HRU-EC 4	HRU-EC 5
Fan type	Electronic reverse blades fans				
Number of fans			2		
Nominal air flow (m²/h)	500	1500	2500	3500	5000
Useful pressure, renewal side (Pa)	338	569	389	464	310
Pressure useful expulsion side (Pa)	358	575	475	466	258
Compressor type	Rotary high efficiency		High-efficiency Scroll		
Refrigerant gas (R410A)	1,75	2,70	3,20	3,70	5,30
Passive heat recovery	Aluminum plates crossflow				
minimum recovery efficiency (%) (1)	55	50,5	53,7	52,6	51,3
Filters	ePM10 50% (ex M5)/ePM1 70% (ex F7)				
Max power absorbed fans (kW)	0,17	0,44	1,00	1,65	1,85
Max current absorbed fans (A)	1,4	2,8	1,6	2,5	2,9
Max power absorbed compressors (kW)	1,06	1,83	5,04	7,23	9,39
Max current absorbed compressors (A)	4,75	8,57	8,6	12,2	15,9
Supply voltage (V/ph/Hz)	220/1/50	220/1/50	400/3/50	400/3/50	400/3/50
Total max power absorbed (kW)	1,23	2,27	6,04	8,88	11,24
Total max current absorbed (A)	6,15	11,3	10,2	14,7	18,8
Degree of protection (IP)	20	20	20	20	20

(1) outside Air -5°C/80%UR - inside Air 20°C/50%UR - Nominal air flow

VALUES ACCORDING UNI EN 1886: 2008

MOD.	DEFORMATION CASE	LEAKAGE CASE	FILTERS CLASS	THERMAL TRANSMITTANCE	THERMAL BRIDGE
HRU-EC 1	D1 (M)	L3 (M)	F7 (M)	T4 (M)	TB3 (M)
HRU-EC 2	D1 (M)	L3 (M)	F7 (M)	T4 (M)	TB3 (M)
HRU-EC 3	D1 (M)	L3 (M)	F7 (M)	T4 (M)	TB3 (M)
HRU-EC 4	D1 (M)	L3 (M)	F7 (M)	T4 (M)	TB3 (M)
HRU-EC 5	D1 (M)	L3 (M)	F7 (M)	T4 (M)	TB3 (M)

TEST LEAKAGE (UNI EN 13141-7)

		LEAKAGE CLASSIFICATION				
LEAKAGE	TEST CONDITIONS	HRU-EC 1	HRU-EC 2	HRU-EC 3	HRU-EC 4	HRU-EC 5
EXTERN	Positive pressure 400 Pa	A2	A2	A2	A1	A1
EXTERN	Negative pressure 400 Pa	A2	A2	A2	A1	A1
INTERN	Pressure Difference 250 Pa	A3	A2	A2	A2	A2

NOISE LEVEL

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

HRU-EC 1	Compressors	NOISE FROM THE CASE (dB)							
100%		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
	OFF	59,1	67,0	60,0	51,0	47,7	35,2	42,0	61,5
80%	ON	59,8	68,6	58,9	50,4	47,9	35,7	42,5	62,0
	OFF	56,1	67,2	54,0	45,9	43,4	31,8	41,2	59,7
	ON	58,8	67,9	55,5	48,0	44,3	37,3	43,3	60,7

HRU-EC 2	Compressors	NOISE FROM THE CASE (dB)							
100%		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
	OFF	66,3	73,5	65,5	52,1	49,8	41,3	44,0	67,2
80%	ON	68,6	75,7	67,0	53,0	50,2	41,7	44,6	69,1
	OFF	64,5	70,3	59,3	49,1	47,3	39,4	39,9	63,2
	ON	64,9	71,7	60,0	49,8	47,6	39,7	40,3	64,4

HRU-EC 3	Compressors	NOISE FROM THE CASE (dB)							
100%		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
	OFF	71,3	75,3	73,7	64,5	59,1	51,5	53,6	73,1
80%	ON	71,3	75,5	74,3	65,2	59,2	51,9	53,8	73,6
	OFF	69,4	76,5	69,3	62,9	56,7	49,6	51,0	71,2
	ON	69,9	76,8	69,3	62,7	57,1	49,6	51,6	71,4

HRU-EC 4	Compressors	NOISE FROM THE CASE (dB)							
100%		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
	OFF	79,3	79,8	71,6	64,3	60,3	50,4	51,3	74,2
80%	ON	79,9	81,3	71,8	63,8	59,7	50,4	50,6	75,0
	OFF	76,1	77,6	62,8	59,5	56,3	45,8	46,1	70,6
	ON	76,2	77,6	63,5	59,7	56,3	45,7	45,2	70,7

HRU-EC 5	Compressors	NOISE FROM THE CASE (dB)							
100%		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
	OFF	77,3	83,0	70,5	61,7	57,0	53,6	54,5	75,7
80%	ON	73,3	84,9	67,9	57,8	52,7	49,3	49,1	76,8
	OFF	73,4	83,6	65,4	57,5	53,0	48,8	48,7	75,4
	ON	77,9	83,0	70,8	61,9	57,1	53,7	54,6	75,8

HRU-EC 1	Compressors	NOISE IN THE DUCTS (Hz)							
100%		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
	OFF	65,5	82,0	67,8	58,2	61,4	59,0	63,3	74,8
80%	ON	66,9	83,1	67,8	57,4	62,3	58,5	63,0	75,6
	OFF	62,5	75,6	63,2	52,9	57,9	52,8	55,7	68,8
	ON	61,9	77,1	64,6	53,9	56,8	53,7	56,5	70,0

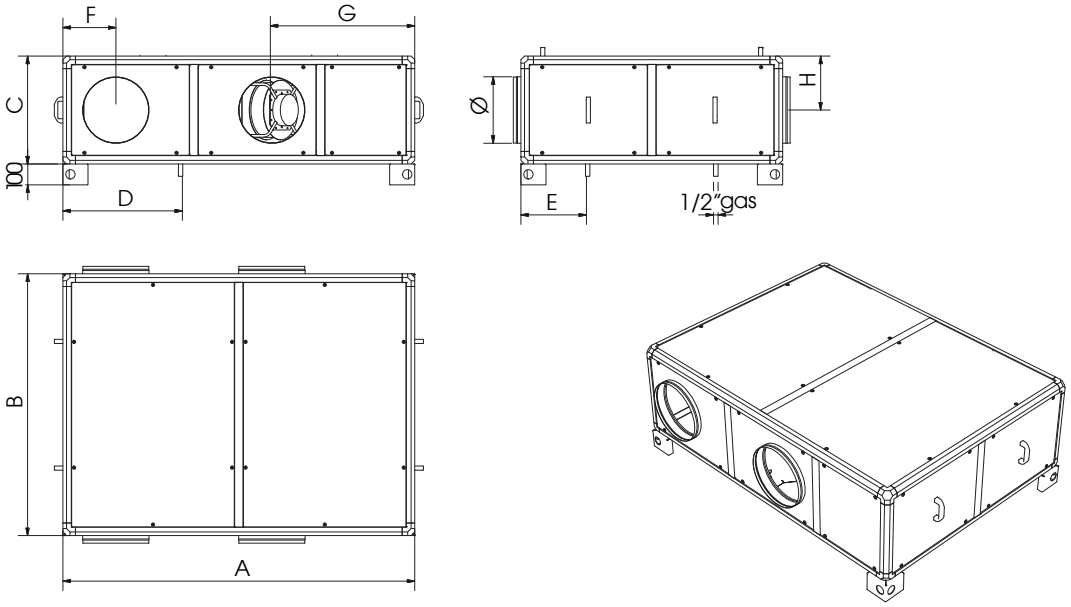
HRU-EC 2	Compressors	NOISE IN THE DUCTS (Hz)							
100%		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
	OFF	71,3	96,4	86,8	72,3	72,3	68,8	72,4	89,5
80%	ON	73,4	97,7	87,6	72,8	72,5	69,1	72,7	90,6
	OFF	68,9	96,8	77,9	69,8	69,8	66,5	69,7	88,6
	ON	70,0	97,8	79,2	70,4	70,4	67,0	70,2	89,6

HRU-EC 3	Compressors	NOISE IN THE DUCTS (Hz)							
100%		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
	OFF	77,6	85,6	78,0	79,2	75,5	74,1	80,3	85,2
80%	ON	78,1	85,7	78,2	79,4	75,6	74,3	80,3	85,3
	OFF	76,6	85,7	71,9	77,6	73,3	72,8	78,1	83,4
	ON	76,9	87,3	73,0	77,3	73,1	72,0	77,6	83,6

HRU-EC 4	Compressors	NOISE IN THE DUCTS (Hz)							
100%		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
	OFF	84,1	87,6	83,9	83,5	76,6	75,2	79,1	87,7
80%	ON	84,1	87,7	82,9	84,0	77,3	76,0	79,7	88,0
	OFF	79,0	84,7	76,1	79,1	73,4	71,6	75,7	83,4
	ON	78,4	85,6	76,0	79,3	73,2	71,9	75,6	83,6

HRU-EC 5	Compressors	NOISE IN THE DUCTS (Hz)							
100%		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L_w dB(A)
	OFF	75,9	86,7	78,9	82,0	75,2	71,5	76,2	85,5
80%	ON	77,3	87,9	78,9	82,1	75,2	71,5	75,7	85,8
	OFF	73,1	91,8	75,3	77,8	70,1	67,3	72,1	85,0
	ON	72,3	92,7	74,1	76,7	70,0	67,2	71,9	85,4

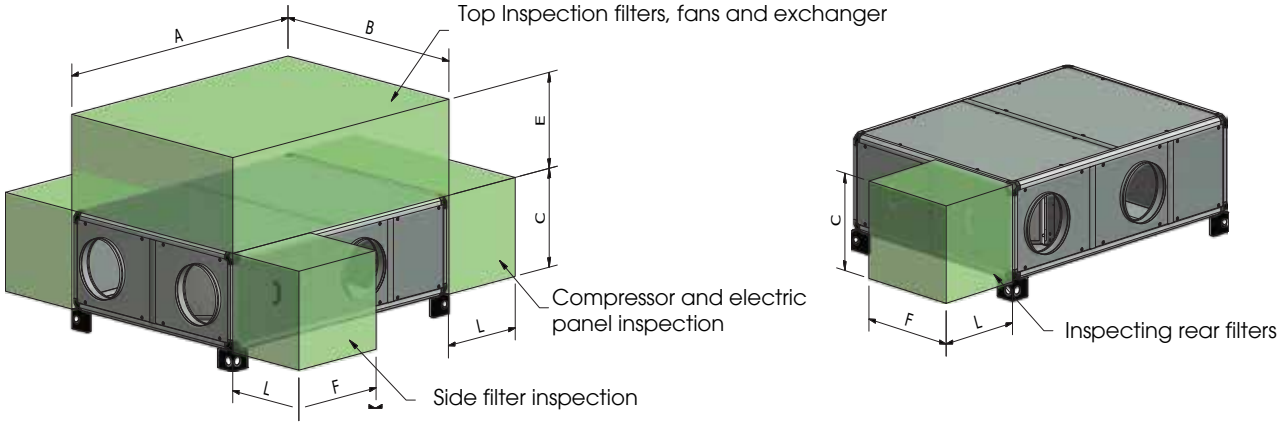
DIMENSIONS (mm) and WEIGHT (kg)



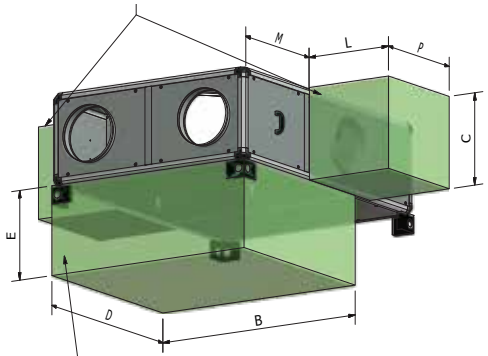
MODELL	A	B	C	Ø	D	E	F	G	H	Weight (kg)
HRU-EC 1	1400	925	415	200	495	295	245	470	208	140
HRU-EC 2	1680	1250	515	315	560	320	250	685	260	230
HRU-EC 3	1960	1430	620	355	645	390	285	615	260	325
HRU-EC 4	1960	1430	720	400	645	390	285	615	360	382
HRU-EC 5	2238	1612	922	500	722	372	335	660	461	570

HRU-EC INSTALLATION

Minimum required space for maintenance (mm)



Replacing fans



MODEL	A	B	C	D	E	F	L	M	P
HRU-EC 1	1400	925	415	1400	400	460	500	480	600
HRU-EC 2	1680	1250	515	1100	500	620	500	640	560
HRU-EC 3	1960	1430	620	530	600	530	500	1000	490
HRU-EC 4	1960	1430	720	530	700	530	500	1000	490
HRU-EC 5	2240	1610	920	625	500	620	500	1290	590

Sizes 1-2 ispection of the filters and exchanger from below
Sizes 3-4-5 ispection of the filters from below

OPERATION LIMITS

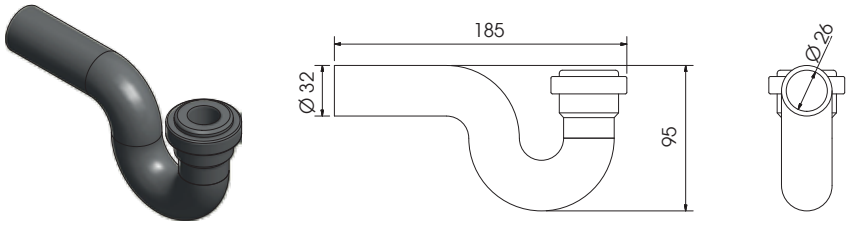
	INTERNAL AIR				
	HRU-EC 1	HRU-EC 2	HRU-EC 3	HRU-EC 4	HRU-EC 5
HEATING (°C)			15/25		
COOLING (°C)			18/28		

	EXTERNAL AIR				
	HRU-EC 1	HRU-EC 2	HRU-EC 3	HRU-EC 4	HRU-EC 5
HEATING (°C)			-20/20		
COOLING (°C)			15/40		

NOTE: the operating limits refer to the operation of the unit and the components installed.

With outside temperatures below 0 ° C, we recommend to provided a electric pre-heating to avoid the continuous evaporator defrost sequences

STANDARD SIPHON (mm)



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

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL
ISO 9001

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

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il Concessionario

HRU-EC_2017_EN