



MP3energy LIGHT

Counterflow Enthalpic
Heat Recovery Units

Air flow from 250 to 1300 m³/h

MP3energy

Heat recovery units



FRESH heat recovery units

Horizontal Heat Recovery Unit for residential and light commercial application. The enthalpic heat recovery helps maintaining a correct level of humidity

Construction - galvanized steel panel internally and externally insulated.

Heat recovery - High efficiency counterflow enthalpic heat recovery. Internal membranes are water permeable with good air tightness and excellent tear resistance.

Filters - Fresh air intake: ISO 16890 ePM25 95% (F9 EN779) with COARSE 50% prefilter (G3 EN779). Return air intake: COARSE 50% (G3 EN779)

Fans - EC motors centrifugal fans

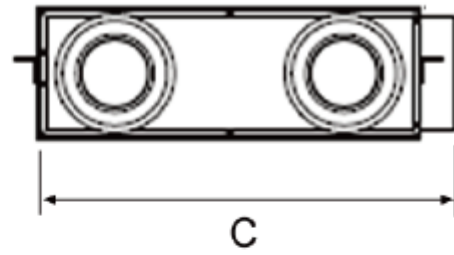
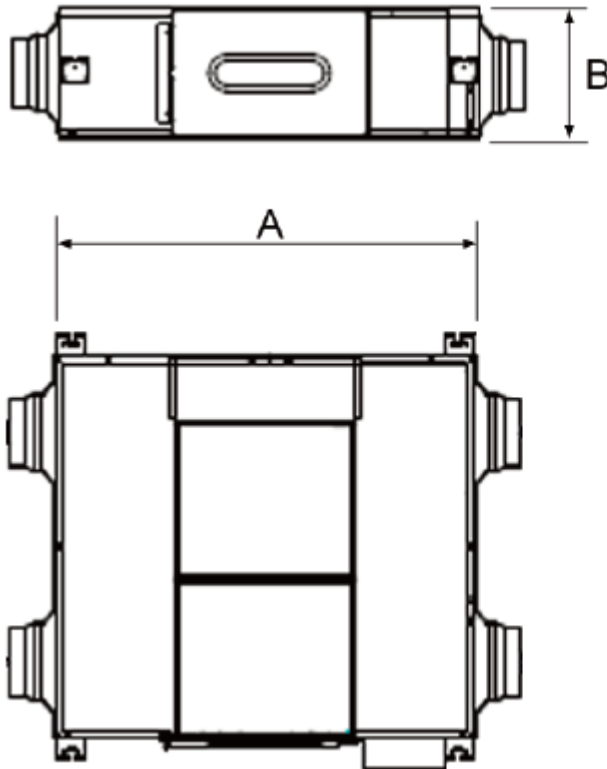
Control - Built-in electric box with PCB. Provided with remotable touch screen, Modbus communication protocol, bypass function. Possibility to manage electric pre and post heaters..

Sanitization - MP3 oXy ionization system available, tested in Padua University and approved by TUV Hessen.

FRESH- a-

a	Size
02	250 m ³ /h
04	350 m ³ /h
05	500 m ³ /h
06	650 m ³ /h
08	800 m ³ /h
10	1000 m ³ /h
12	1300 m ³ /h





SIZE	Dimensions		Weight
	A [mm]	B [mm]	[kg]
02	815	270	30
04	815	270	37
05	895	270	43
06	1185	390	65
08	1185	390	71
10	1200	390	83
12	1200	390	83

MP3 oXy SANITIZATION

MP3 oXy performs a Ionization of the air freeing negative oxygen ions. The oXy system reduces the bacteria of 80 to 85%. This percentage can be brought up to 99% further powering the sanitization system. The technology is based on a special condenser made with a quartz cylinder and a special metallic net, supplied by a low voltage and low power alternate current. The system frees negative oxygen ions and other positive ions; it has a high oxidation power.



The constant use of MP3 oXy with Bioxygen technology guarantees a big improvement of the internal air quality, acting particularly on:

- ✓ Chemical composition
- ✓ Bacteria activity
- ✓ Electrostatic balance
- ✓ High reduction of fine dust
- ✓ High reduction of smells and odours

Improving the health of the people through:

- ✓ Reduction of infection risk caused by bacteria proliferation
- ✓ Improvement of the respiratory system and consequent reduction of diseases
- ✓ Reduction of anxiety and stress

The system brings benefits also to the room with:

- ✓ Elimination of moulds avoiding damages to the ceiling and walls
- ✓ Elimination of smells and odours without the need of using chemical products that affect the integrity of items and the health of the occupants
- ✓ High reduction of mites
- ✓ Elimination of electrostatic charge

Before Prima	Decrease in microbial contents with Bioxygen® Abbattimento del contenuto microbico con Bioxygen®		After Dopo
	Staphylococcus aureus	decrease % abbattimento %	
	in 3 hours' time / tempo 3 ore	- 70,90	
	in 8 hours' time / tempo 8 ore	- 97,02	
	in 24 hours' time / tempo 24 ore	- 98,80	
	Escherichia coli	decrease % abbattimento %	
	in 3 hours' time / tempo 3 ore	- 84,07	
	in 8 hours' time / tempo 8 ore	- 89,77	
	in 24 hours' time / tempo 24 ore	- 99,53	
	Saccaromices cerevisiae	decrease % abbattimento %	
	in 3 hours' time / tempo 3 ore	- 97,71	
	in 8 hours' time / tempo 8 ore	- 98,14	
	in 24 hours' time / tempo 24 ore	- 99,05	
	Legionella	UFC / 0,1 ml	
	negative control / controllo negativo	0	
	positive control / controllo positivo	191	
	after 5 / dopo 5'	180	
	after 15 / dopo 15'	3	
	after 30 / dopo 30'	0	
	after 60 / dopo 60'	0	

PERFORMANCES

		AVAILABLE SIZES						
		02	04	05	06	08	10	12
Nominal airflow	m3/h	250	350	500	650	800	1000	1300
Static pressure at nominal airflow	Pa	90	140	110	100	140	140	135
Power supply	V/ph/Hz	230/1/50-60						
Full load current	A	0,5	0,6	0,6	1,2	1,4	2,1	2,7
Fan motor		EC	EC	EC	EC	EC	EC	EC
Number of speeds available		10	10	10	10	10	10	10
Fans control type		Manual or modulating by air quality or air humidity sensor						
SFP int	W/(m3/s)	812	670	547	846	865	881	873
Fans power	kW	0,08	0,13	0,15	0,23	0,32	0,39	0,49
Irradiated sound pressure	dB(A)	34	37	39	40	42	43	44
Winter thermal efficiency	%	73%	74%	76%	74%	76%	76%	74,20%
Winter enthalpic efficiency	%	65%	65%	67%	65%	65%	62%	59%
Summer thermal efficiency	%	73%	74%	76%	74%	76%	76%	74%
Summer enthalpic efficiency	%	62%	62%	63%	60%	63%	60%	58%
EN308 efficiency	%	73%	74%	76%	74%	76%	76%	74%

Winter efficiency parameters: outside air -5°C@80% RH – room air 20°C@50% RH

Summer efficiency parameters: outside air 32°C@50% RH – room air 26°C@50% RH

ANCILLARIES

	Code	Size
Unit control panel	LPTS0212	size from 02 to 12
Wall mount CO2 sensor	LTCW0212	size from 02 to 12
Wall mount humidity sensor	LHUW0212	size from 02 to 12
Electric pre-heating section	LAER0204	size from 02 to 04
Electric pre-heating section	LAER0505	size 05
Electric pre-heating section	LAER0612	size from 06 to 12
Electric post-heating section	LZER0204	size from 02 to 04
Electric post-heating section	LZER0505	size 05
Electric post-heating section	LZER0612	size from 06 to 12
Circular duct sound attenuator	LDSA0204	size from 02 to 04
Circular duct sound attenuator	LDSA0505	size 05
Circular duct sound attenuator	LDSA0612	size from 06 to 12
Sanitization system MP3 oXy	LOXG0204	size from 02 to 04
Sanitization system MP3 oXy	LOXG0505	size 05
Sanitization system MP3 oXy	LOXG0612	size from 06 to 12