



### THE PASSIVE HOUSE

The passive house is the most energy-efficient form of construction. Certification of passive houses assures that the strict quality requirements set by a Passive House Standard are satisfied. Not only the buildings must conform to these standards, but also all installed components that are required to construct such a building.

A passive house is characterized by very low energy requirements – without loss of living comfort. This is achieved by a mix of top-quality construction techniques and effective technical systems.



The One in Brussels, Belgium

# Air flow: 14,300 m<sup>3</sup>/h



Etrium in Cologne, Germany

## Air flow: 5,000 m<sup>3</sup>/h



UN Eco House in Podgorica, Montenegro

## Air flow: 51,300 m<sup>3</sup>/h



Lippe Swimming Pool Center in Lünen, Germany

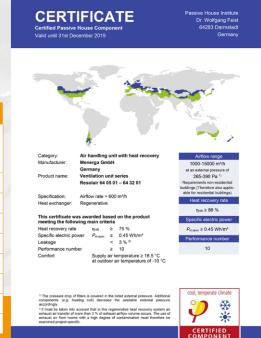
# **MENERGA SOLUTIONS**

An essential factor in the Passive House Concept is air treatment with high-efficiency heat recovery. Since our solutions with Adconair and Resolair heat recovery systems have been certified in all model sizes, they can be installed optimally in passive houses and all other low-energy buildings.

Resolair

### Technical data / Results for the certified model range Maximum Heat recovery Length Application range Power consumption Width Height Unit type available external efficiency Resolair from ... to $(m^3/h)$ (Wh/m<sup>3</sup>)(mm) (mm) (mm) pressure (Pa)\* (%) 1,000 - 3,000 64 05 01 254 86 0.44 4,650 1,110 1,700 64 07 01 1,500 - 4,500 281 86 0.45 4,970 1,110 2,340 64 10 01 2,000 - 6,000 299 86 0.44 5,130 1,430 2,340 64 12 01 3,000 - 7,000 310 86 0.44 5,130 1,750 2,340 87 64 15 01 3,200 - 8,800 325 0.43 5,290 2,070 2,340 64 21 01 5,000 - 11,000 340 88 0.45 5,930 2,070 2,980 64 26 01 7,000 - 13,000 352 87 0.45 6,250 2,070 3,620 64 32 01 9,000 - 15,000 362 87 0.44 6,250 2,390 3,620

\* External pressure less the assumed filter pressure drop.





Adconair

		Technical data / Results for the certified model range						
	Unit type Adconair	Application range from to (m³/h)	Maximum available external pressure (Pa)*	Heat recovery efficiency (%)	Power consumption (Wh/m³)	Length (mm)	Width (mm)	Height (mm)
ı	76 03 01	1,000 - 2,000	228	88	0.45	5,130	790	1,700
ı	76 05 01	1,200 - 2,800	250	89	0.44	5,290	1,110	1,700
۱	76 06 01	1,000 - 3,000	255	91	0.45	5,930	790	2,340
ı	76 10 01	1,500 - 4,500	281	93	0.42	5,930	1,110	2,340
ı	76 13 01	2,000 - 6,000	299	91	0.43	6,090	1,430	2,340
ı	76 16 01	3,000 - 7,000	312	91	0.43	6,090	1,750	2,340
	76 19 01	3,200 - 8,800	326	94	0.43	6,090	2,070	2,340
	76 25 01	6,000 - 10,000	337	94	0.44	6,570	2,070	2,980
	76 29 01	8,500 - 11,500	349	94	0.45	6,570	2,390	2,980
	76 37 01	8.000 - 15.000	363	94	0.45	6.570	3.030	2.980

\* External pressure less the assumed filter pressure drop.



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# **OUR FIELDS OF APPLICATION**



