



ADV Next Air

Air Handling Units

The air treatment
evolution





A new comfort level

The special high sealing filters frame and the bactericidal filtration system developed by Labiotest in collaboration and exclusive for Rhoss, **Air'suite® Filter**, are a guarantee for the well-being of the occupants.



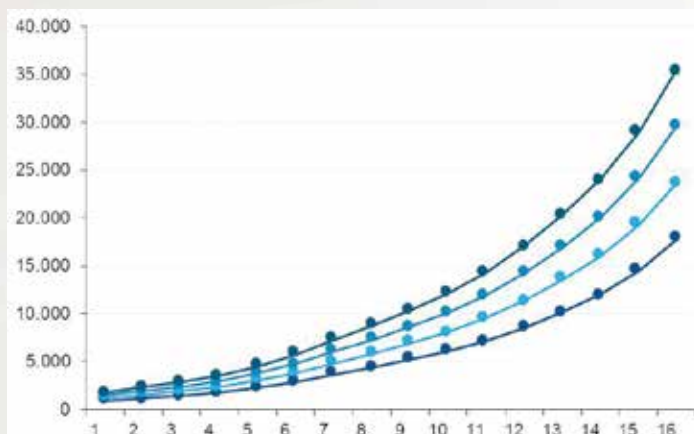
ADV Next Air

Air Handling Units

In 2016 comes to life Next Air, take place the new idea of Rhoss air treatment.

When ideas meet technology, innovation is born. From here, and from our thirty years of experience in the AHU business, is born a new innovative line of air handling units looking to the future of the air conditioning.

The strength of this product is the use of creative and innovative engineering solutions, while preserving the qualitative excellence and the characteristics of reliability for which Rhoss is known.



The complete modularity and the wide configurability create, in the Next Air range, the perfect balance between customization and standardization, flexibility and industrialization.

Perfect in any weather conditions

Thanks to the careful study of materials and the extreme attention payed to the thermal decoupling of the structure we can guarantee the absence of condensation in a very wide area of operating temperature and humidity both in summer and winter season.

Thermal bridge factor Class TB2.

Our units installed outdoors excellently resist both to the rain that UV guaranteeing performance unchanged over time.



No Waist

The perfect fit of the panels, the valuable seals and the Rhoss monocoque structure are the best guarantee against air leakage and the related energy waste.

Air Leakage class L1.

The new generation plastic profiles with very low thermal conductivity and the highly insulating panels of are the unique solutions that we give to our customers in order to eliminate energy waste.

Thermal transmittance Class T2.

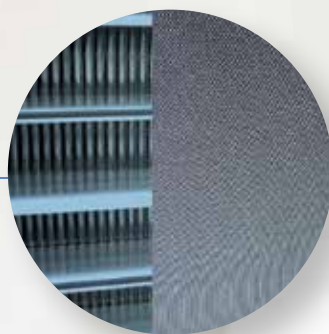


Built-in intelligence

The integrated Rhoss control system ensures the best energy performance, fast connectivity, ease of use and management, full integration to supervisory systems of buildings.

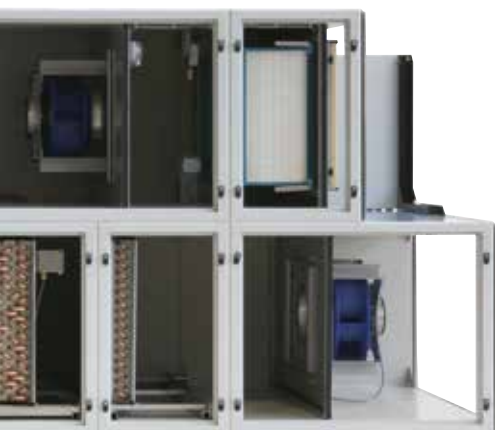
Best efficiency in minimum space

The entire range meets the **2018 step of Erp Directive** for NRVU ensuring a sustainable energy savings. The energy efficiency is guaranteed with low operating costs.



Size		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Air flow																	
Air flow at 1,5 m/s	[m³/h]	890	1.160	1.430	1.770	2.250	2.860	3.610	4.360	5.180	6.070	7.160	8.520	10.160	12.000	14.450	17.730
Air flow at 2 m/s	[m³/h]	1.180	1.550	1.910	2.360	3.000	3.820	4.820	5.820	6.910	8.090	9.550	11.360	13.550	16.000	19.270	23.640
Air flow at 2,5 m/s	[m³/h]	1.480	1.930	2.390	2.950	3.750	4.770	6.020	7.270	8.640	10.110	11.930	14.200	16.930	20.000	24.090	29.550
Air flow at 3 m/s	[m³/h]	1.770	2.320	2.860	3.550	4.500	5.730	7.230	8.730	10.360	12.140	14.320	17.050	20.320	24.000	28.910	35.450
Air flow at 3,5 m/s	[m³/h]	2.070	2.700	3.340	4.140	5.250	6.680	8.430	10.180	12.090	14.160	16.700	19.890	23.700	28.000	33.730	41.360
Outside frontal dimensions																	
Base	[mm]	790	875	975	1.075	1.175	1.275	1.375	1.480	1.575	1.775	1.925	1.980	2.085	2.275	2.535	2.665
Height	[mm]	520	640	720	720	760	840	840	950	1.000	1.100	1.100	1.200	1.320	1.500	1.500	1.680
Crossed flow heat recovery																	
Total air flow heat recovery																	
HR nominal air flow	[m³/h]	1.300	1.700	2.100	2.600	3.300	4.200	5.300	6.400	7.600	8.900	10.500	12.500	14.900	17.600	21.200	24.700
Min. air flow	[m³/h]	600	800	1.000	1.300	1.600	2.100	2.600	3.200	3.800	4.400	5.200	5.800	6.900	8.300	10.000	11.300
Max. air flow	[m³/h]	1.700	2.200	3.000	3.700	4.900	5.500	6.900	8.800	10.500	12.300	14.500	17.600	21.000	24.800	29.600	32.000
Dry efficiency at balanced air flow	[%]	73,5	73,2	73,7	69,8	73,4	75,1	75,1	74,9	74,9	74,9	74,9	73,4	73,4	73,4	73,4	73,0
EN 308 efficiency	[%]	80,5	80,4	79,3	77,3	79,0	80,8	80,8	80,6	80,6	80,6	80,6	79,0	79,0	79,0	79,0	78,6
Partial air flow heat recovery																	
HR nominal air flow	[m³/h]	650	850	1.050	1.300	1.650	2.100	2.600	3.200	3.800	4.200	5.300	6.400	7.600	8.900	10.500	12.800
Min. air flow	[m³/h]	300	400	500	600	800	1.000	1.300	1.600	1.900	2.100	2.500	2.700	3.000	3.600	4.200	5.100
Max. air flow	[m³/h]	850	1.100	1.350	1.700	2.200	3.000	3.700	4.900	5.500	5.500	6.900	8.800	10.500	12.300	14.500	17.600
Dry efficiency at balanced air flow	[%]	73,5	73,5	73,5	73,5	73,6	73,7	69,8	73,3	73,3	75,1	75,1	74,9	74,9	74,9	74,9	74,9
EN 308 efficiency	[%]	80,6	80,5	80,5	80,5	80,5	79,3	77,3	78,9	78,9	80,8	80,8	80,6	80,6	80,6	80,6	80,6
Rotary heat wheel																	
Total air flow heat recovery																	
Sensible heat recovery																	
HR nominal air flow	[m³/h]	1.150	1.650	2.100	2.600	3.300	4.200	5.250	6.300	7.500	8.900	10.500	12.500	14.800	17.600	21.200	25.900
Dry efficiency at balanced air flow	[%]	73,0	73,1	74,4	74,9	74,9	74,5	73,0	73,1	73,0	75,2	74,7	73,9	73,0	73,0	73,3	73,0
Latent heat recovery																	
HR nominal air flow	[m³/h]	1.200	1.700	2.100	2.600	3.300	4.200	5.300	6.400	7.600	8.900	10.500	12.500	14.900	17.600	21.200	26.000
Dry efficiency at balanced air flow	[%]	73,3	73,7	75,1	75,4	75,5	75,2	73,9	73,8	73,8	75,7	75,3	74,7	73,9	74,0	74,2	73,8
Partial air flow heat recovery																	
Sensible heat recovery																	
HR nominal air flow	[m³/h]	1.150	1.150	1.150	1.650	1.650	2.250	2.900	3.700	4.600	5.250	5.250	6.300	7.500	10.150	11.600	14.800
Dry efficiency at balanced air flow	[%]	73,0	73,0	73,0	73,1	73,1	73,2	73,0	73,0	73,0	73,0	73,0	73,1	73,0	73,0	73,0	73,0
Latent heat recovery																	
HR nominal air flow	[m³/h]	1.200	1.200	1.200	1.750	1.750	2.400	3.100	3.950	4.900	5.500	5.500	6.750	8.050	10.850	12.400	15.800
Dry efficiency at balanced air flow	[%]	73,3	73,3	73,3	73,2	73,2	73,2	73,0	73,0	73,0	73,3	73,3	73,1	73,0	73,0	73,0	73,0

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