Custom ADV

ADV-DNAIR 1.1-95.1

Features

Designed Around Your Needs
Details That Make the Difference
IAQ at the Core: Technology for Well-being
Maximum Comfort
Dynamic Energy Efficiency
Total Performance Control

Tax incentives*

Custom air handling units.

Range

The ADV-DNAIR units cover an airflow range from 700 to 95,000 m3/h (with an air velocity of 2.2 m/s) and offer virtually unlimited configuration options. Each air handling unit is a fully customized product, designed to meet all air treatment processes and deliver the capacities you need to create the perfect indoor climate.

Casing

Patented casing featuring a hybrid self-supporting frame system.Profiles made of non-metallic material to ensure total thermal bridge interruption, equipped with multiple co-extruded sealing gaskets that guarantee long-term effectiveness against any leakage. Hermetically sealed male-female gasketed coupling between panels and modules. Internal and external casing and sheet metal finishes available according to the application and required corrosion resistance:

Painted galvanized steel RAL 5024 or 7035

Magnelis310

Stainless Steel AISI 304 or 316L

Internal insulation available in eco-friendly injected polyurethane foam.

Certified values in accordance with EN 1886 (MB50P)

Mechanical strength: D1

Thermal bridge factor: TB1

Thermal transmittance: T2

Air leakage: L1

Filter bypass leakage: F9

Energy Performance

The combination of the passive casing, minimal internal and external air leakage, state-of-the-art heat recovery systems featuring advanced free cooling, ultra-high-efficiency motors, and intelligent control systems contributes to achieving an energy efficiency level that not only meets but already exceeds the future requirements of the EU Ecodesign Directive for energy-related products.

Indoor Air Quality

Depending on specific requirements, the unit can be equipped with filtration systems for particulate, gaseous, or biological pollutants, ensuring the removal of a broad range of contaminants. Continuous monitoring of IAQ

(Indoor Air Quality) indicators allows the highest levels of environmental health and occupant comfort to be consistently maintained.

SIZES

A total of 120 sizes are available, with different frontal form factors to optimally adapt to the shapes of the different heat recovery units.

INTEGRATED CONTROL SYSTEM

The unit can be supplied complete with all latest-generation field devices for optimized fluid management, and equipped with an electrical power panel integrating the Rhoss intelligent control system. This ensures optimal performance and indoor comfort while delivering maximum energy efficiency.

Technical data

ADV-DNAIR		1	2	3	4	5	6	7	8
MODEL		1.1	1.2	2.1	2.2	2.3	2.4	2.5	2.6
Air flow at 2 m/s	m³/h	1915	2504	3505	2938	3067	3456	3529	4365
Frontal dimension B	mm	750	790	875	650	650	650	1340	1340
Frontal dimension H	mm	430	520	640	730	760	850	430	520
ADV-DNAIR		41	42	43	44	45	46	47	48
MODEL		9.2	9.3	10.1	10.2	10.3	10.4	11.1	11.2
Air flow at 2 m/s	m³/h	10774	13041	11238	11796	12182	12859	12167	13282
Frontal dimension B	mm	1340	1775	1340	1340	1930	1930	1340	1340
Frontal dimension H	mm	1210	1100	1260	1320	950	1000	1360	1480
ADV-DNAIR		81	82	83	84	85	86	87	88
MODEL		29.1	29.2	31.1	33.1	34.1	34.2	35.1	36.1
Air flow at 2 m/s	m³/h	36030	30766	32367	34323	38240	35746	47961	37880
Frontal dimension B	mm	3120	2520	2520	2520	3120	2520	3710	2520
Dimensione frontale H	mm	1680	1780	1870	1980	1780	2060	1870	2180

ADV-DNAIR		9	10	11	12	13	14	15	16
MODEL		2.7	3.1	3.2	3.3	4.1	4.2	4.3	4.4
Air flow at 2 m/s	m³/h	4032	4529	4536	4788	5144	6362	5018	5090
Frontal dimension B	mm	750	975	750	750	1930	1930	1075	750
Frontal dimension H	mm	850	730	950	1000	430	520	730	1060
ADV-DNAIR		49	50	51	52	53	54	55	56
MODEL		11.3	12.1	12.2	13.1	13.2	13.3	14.1	15.1
Air flow at 2 m/s	m³/h	13839	13671	14213	14890	16119	16013	16068	16379
Frontal dimension B	mm	1340	1930	1930	1930	1980	1650	1340	1930
Frontal dimension H	mm	1540	1060	1100	1150	1210	1440	1780	1260
ADV-DNAIR		89	90	91	92	93	94	95	96
MODEL		36.2	38.1	39.1	39.2	40.1	40.2	41.1	42.1
Air flow at 2 m/s	m³/h	40229	40014	42661	44429	41792	42954	47082	43393
Frontal dimension B	mm	3120	2520	3120	3120	2520	3710	3120	2520
Dimensione frontale H	mm	1870	2300	1980	2060	2400	1680	2180	2490

ADV-DNAIR		17	18	19	20	21	22	23	24
MODEL		4.5	4.6	4.7	4.8	4.9	5.1	5.2	5.3
Air flow at 2 m/s	m³/h	5292	5480	5751	5544	5846	7056	6098	6401
Frontal dimension B	mm	750	1340	1175	750	750	1275	750	750
Frontal dimension H	mm	1100	640	760	1150	1210	850	1260	1320
ADV-DNAIR		57	58	59	60	61	62	63	64
MODEL		15.2	16.1	17.1	17.2	18.1	18.2	19.1	20.1
Air flow at 2 m/s	m³/h	18608	17732	19356	20169	19562	20629	22268	21519
Frontal dimension B	mm	2085	1930	1930	1930	2520	2520	2275	2520
Frontal dimension H	mm	1320	1360	1480	1540	1150	1210	1440	1260
ADV-DNAIR		97	98	99	100	101	102	103	104
MODEL		44.1	45.1	47.1	47.2	48.1	49.1	50.1	53.1
Air flow at 2 m/s	m³/h	45171	49734	50859	52968	51944	56130	53934	56144
Frontal dimension B	mm	2520	3120	3710	3710	3120	3710	3120	3120
Dimensione frontale H	mm	2590	2300	1980	2060	2400	2180	2490	2590

ADV-DNAIR		25	26	27	28	29	30	31	32
MODEL		5.4	5.5	5.6	5.7	6.1	6.2	6.3	6.4
Air flow at 2 m/s	m³/h	7632	6602	6854	7207	7986	7834	8077	9101
Frontal dimension B	mm	1375	750	1450	750	1930	1650	1630	1630
Frontal dimension H	mm	850	1360	730	1480	640	730	760	850
ADV-DNAIR		65	66	67	68	69	70	71	72
MODEL		20.2	20.3	22.1	22.2	22.3	23.1	23.2	23.3
Air flow at 2 m/s	m³/h	22586	22064	23417	23297	24870	24636	25431	26498
Frontal dimension B	mm	2520	1930	1930	2520	2535	1930	2520	2520
Frontal dimension H	mm	1320	1680	1780	1360	1440	1870	1480	1540
ADV-DNAIR		105	106	107	108	109	110	111	112

MODEL		53.2	54.1	55.1	58.1	58.2	60.1	63.1	64.1
Air flow at 2 m/s	m³/h	45589	61506	59292	61927	65178	64299	66934	68850
Frontal dimension B	mm	3710	4300	3710	3710	4300	3710	3710	4300
Dimensione frontale H	mm	1780	2060	2300	2400	2180	2490	2590	2300

ADV-DNAIR		33	34	35	36	37	38	39	40
MODEL		7.1	7.2	7.3	8.1	8.2	8.3	8.4	9.1
Air flow at 2 m/s	m³/h	9266	10431	10426	9381	9752	9526	10108	10217
Frontal dimension B	mm	1480	1575	1860	1340	1340	1060	1060	1340
Frontal dimension H	mm	950	1000	850	1060	1100	1360	1440	1150
ADV-DNAIR		73	74	75	76	77	78	79	80
MODEL		24.1	24.2	25.1	25.2	27.1	27.2	27.3	27.4
Air flow at 2 m/s	m³/h	27922	26124	30725	27207	28832	30690	31609	32935
Frontal dimension B	mm	2840	1930	3120	1930	1930	2665	3120	3120
Frontal dimension H	mm	1440	1980	1440	2060	2180	1680	1480	1540
ADV-DNAIR		113	114	115	116	117	118	119	120
MODEL		67.1	71.1	73.1	74.1	77.1	81.1	85.1	95.1
Air flow at 2 m/s	m³/h	71910	74664	78408	77724	81893	85029	88514	99304
Frontal dimension B	mm	4300	4300	4890	4300	4890	4890	4890	5480
Dimensione frontale H	mm	2400	2490	2300	2590	2400	2490	2590	2590

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