

Mini air handling unit



AC fan motor unit for vertical, horizontal and ceiling mounting

Practical installation

The structure is made with galvanized steel, and aluminum profiles for ceiling mounted type. Pre-painted double-shell steel panels (sandwich type) internally insulated with polyurethane material.

Heating coil

The coils are made of seamless tubes expanded into aluminum fins in continuous block. All coils are tested for leakage.

Fan deck

External rotor type centrifugal fan motor for vertical and horizontal units, and belt-drive type for ceiling mounted units, low noise.

The fan decks are composed of double suction centrifugal fans with aluminum impellers and 3-speed fan motors. Each fan motor assembly is dynamically balanced.

Filter

The easily removable filter is made of filtering honeycomb polypropylene fabric and supported by an aluminum frame. Three types pull-out method: up, left and right as request.

Drip tray

The drip trays are made from sheet metal treated with polyester powder coating to ensure total resistance to atmospheric agents.



Electrical connection box

All electric wires are connected to enclosed electrical terminal block.

Optional

Additional heating coil, additional electric heater, wet deck type humidifier, spray type humidifier (air washer), steam humidifier.

Performance data (4 rows, 6 rows, 8 rows)

Model ACU			ACU1.5	ACU2	ACU2.5	ACU3	ACU4	ACU5	ACU6	ACU7	ACU8	ACU9	ACU10	ACU12	ACU14	ACU15	ACU16
Air flow		m³/h	1500	2000	2500	3000	4000	5000	6000	7000	8000	9000	10000	12000	14000	15000	16000
Power supply		/	380V/3N/50Hz														
Cooling capacity	4 rows(Return air)	kW	7.5	10.1	12.5	15.1	20	25	30	34.9	40	44.9	49.8	59.6	69.6	74.7	79.8
	4 rows(Fresh air)	kW	12.5	16.8	20.7	25	33.2	41.4	49.5	57.7	66.2	74.3	82.4	98.6	115.2	123.6	132
	6 rows(Return air)	kW	10.4	13.9	17.1	20.7	27.5	34.3	41.1	47.9	54.9	61.6	68.3	81.8	95.5	102.5	109.5
	6 rows(Fresh air)	kW	17	22.8	28.2	34	45.1	56.3	67.5	78.6	90.1	101.1	112.2	134.3	156.8	168.3	179.7
	8 rows(Return air)	kW	12.1	16.2	20	24.2	32.1	40	47.9	55.8	64	71.8	79.7	95.4	111.4	119.5	127.7
	8 rows(Fresh air)	kW	20.3	27.3	33.6	40.6	53.9	67.2	80.5	93.9	107.6	120.8	133.9	160.3	187.2	200.9	214.6
Heating capacity	4 rows(Return air)	kW	12.7	17	21	25.3	33.6	42.0	50.3	58.6	67.1	75.4	83.6	100.1	116.9	125.4	134
	4 rows(Fresh air)	kW	17.9	24	29.6	35.7	47.5	59.2	70.9	82.6	94.7	106.3	117.9	141.1	164.8	176.9	188.9
	6 rows(Return air)	kW	15.9	21.4	26.3	31.8	42.3	52.7	63.1	73.6	84.3	94.7	105	125.7	146.8	157.5	168.2
	6 rows(Fresh air)	kW	21.9	29.5	36.3	43.8	58.2	72.6	87	101.4	116.2	130.4	144.7	173.2	202.2	217	231.8
	8 rows(Return air)	kW	17.7	23.8	29.3	35.4	47	58.7	70.3	81.9	93.8	105.4	116.9	139.9	163.3	175.3	187.2
	8 rows(Fresh air)	kW	24.4	32.8	40.4	48.8	64.8	80.8	96.8	112.8	129.2	145.1	160.9	192.6	224.9	241.4	257.8
Water flow rate	4 rows(Return air)	m³/h	1.3	1.7	2.1	2.6	3.4	4.3	5.2	6	6.9	7.7	8.6	10.3	12	12.8	13.7
	4 rows(Fresh air)	m³/h	2.1	2.9	3.6	4.3	5.7	7.1	8.5	9.9	11.4	12.8	14.2	17	19.8	21.3	22.7
	6 rows(Return air)	m³/h	1.8	2.4	2.9	3.6	4.7	5.9	7.1	8.2	9.4	10.6	11.7	14.1	16.4	17.6	18.8
	6 rows(Fresh air)	m³/h	2.9	3.9	4.8	5.8	7.8	9.7	11.6	13.5	15.5	17.4	19.3	23.1	27	28.9	30.9
	8 rows(Return air)	m³/h	2.1	2.8	3.4	4.2	5.5	6.9	8.2	9.6	11	12.4	13.7	16.4	19.2	20.6	22
	8 rows(Fresh air)	m³/h	3.5	4.7	5.8	7	9.3	11.6	13.9	16.1	18.5	20.8	23	27.6	32.2	34.6	36.9
Water pressure drop	4 rows(Return air)	kPa	7.1	9.6	14.1	17.1	22.7	28.3	39.5	55.9	27.1	35.5	47.9	57.3	43.6	46.8	50
	4 rows(Fresh air)	kPa	8.5	16.2	20	21.3	26.4	33.0	45.2	59.2	38.4	43.2	50.7	60.7	51.3	55.1	58.9
	6 rows(Return air)	kPa	9.6	12.9	19.1	23.0	30.6	38.2	53.3	62.2	44.5	50	55.4	66.4	59	63.4	67.7
	6 rows(Fresh air)	kPa	16.3	25.8	27.0	38.4	43.4	50.9	61	66.6	50.9	57.1	63.4	71.1	62.7	67.3	71.9
	8 rows(Return air)	kPa	11.6	18.8	23.1	27.9	37.1	46.3	55.4	64.6	47.9	53.8	59.6	69	61.4	64.9	69.3
	8 rows(Fresh air)	kPa	19.8	31.3	32.8	46.5	43.3	54	64.7	75.3	55.9	62.7	69.6	77.3	66.1	71	75.8
Transportation weight	4 rows	kg	80	93	106	119	144	219	251	284	326	356	386	447	493	522	550
	6 rows	kg	86	98	110	124	151	226	260	294	337	368	399	462	510	539	569
	8 rows	kg	87	102	115	129	157	233	268	302	347	379	411	475	525	555	585

Remarks:

Return air conditions - Cooling: air intake temperature: DB 27 °C WB 19.5 °C, water inlet /outlet temperature: 7/12 °C.

Heating: air intake temperature: DB 21 °C, water inlet temperature: 60 °C.

Fresh air conditions - Cooling: air intake temperature: DB 35 °C WB 28 °C, water inlet /outlet temperature: 7/12 °C.

Heating: air intake temperature: DB 7 °C, water inlet temperature: 60 °C.

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Performance data (continuous)

Model	Air flow m ³ /h	External static pressure (Pa)			Fan Quantity Set	Fan motor power kW	Sound pressure level dB(A)
		4 rows	6 rows	8 rows			
ACU1.5	1500	140	100	80	1	0.32	56
		190	150	130		0.32	56
		260	220	200		0.3	57
		340	300	280		0.45	58
ACU2	2000	140	100	80	1	0.32	56
		190	150	130		0.32	56
		260	220	200		0.45	57
		340	300	280		0.45	58
ACU2.5	2500	140	100	80	1	0.32	56
		190	150	130		0.37	56
		260	220	200		0.45	57
		340	300	280		0.55	58
ACU3	3000	140	100	80	1	0.32	56
		190	150	130		0.45	56
		260	220	200		0.45	57
		340	300	280		0.55	58
ACU4	4000	140	100	80	1	0.55	57
		190	150	130		0.55	57
		260	220	200		0.75	59
		340	300	280		0.65	60
ACU5	5000	140	100	80	2	0.32x2	59
		190	150	130		0.37x2	59
		260	220	200		0.45x2	61
		340	300	280		0.55x2	62
ACU6	6000	140	100	80	2	0.32x2	59
		190	150	130		0.45x2	59
		260	220	200		0.45x2	61
		340	300	280		0.55x2	62
ACU7	7000	140	100	80	2	0.45x2	61
		190	150	130		0.55x2	61
		260	220	200		0.55x2	63
		340	300	280		0.75x2	64
ACU8	8000	140	100	80	2	0.55x2	60
		190	150	130		0.55x2	60
		260	220	200		0.75x2	62
		340	300	280		0.75x2	64
ACU9	9000	140	100	80	2	0.55x2	62
		190	150	130		0.55x2	62
		260	220	200		0.75x2	64
		340	300	280		0.75x2	66
ACU10	10000	140	100	80	2	0.75x2	62
		190	150	130		0.75x2	62
		260	220	200		0.75x2	64
		340	300	280		1.1x2	66
ACU12	12000	190	150	130	2	1.5x2	64
		260	220	200		1.1x2	64
		340	300	280		1.5x2	66
		440	400	380		1.5x2	68
ACU14	14000	260	220	200	2	1.5x2	64
		340	300	280		1.5x2	64
		440	400	380		1.5x2	66
		540	500	480		1.5x2	68
ACU15	15000	260	220	200	2	1.5x2	66
		340	300	280		2.2x2	66
		440	400	380		1.5x2	68
		540	500	480		1.5x2	70
ACU16	16000	260	220	200	2	1.5x2	66
		340	300	280		1.8x2	66
		440	400	380		1.5x2	68
		540	500	480		1.8x2	70