

MAIN COMPONENTS

The standard units have the following components: centrifugal fans directly coupled to the low rpm motor; fans alarm; chilled water coil in copper pipes and high efficiency aluminium fins with three-way valve electronically controlled; drip tray for condensing; regenerable air filters standard G4 efficiency; CE compliant electrical panel fitted with magnetothermal main switch, automatic switches, remote switches, overload protection, low tension auxiliary circuits, terminal board and EMIPRO microprocessor.

OPTIONS

H: immersed electrodes steam humidifier with modulating steam production; RE: electric heater provided with armored components and safety thermostat; BC: hot water coil with three-way valve and modulating actuator; B: adjustable base-frame; PL: distribution plenum provided with adjustable fins grid for version U, V, B; PR: new air inlet with filter; 1M-5M: higher available pressure at fans discharge; F8: several degrees of air filtration up to F8; IH: serial interface RS485 for connection to supervisory system; AF: clogged filters alarm; AA: flooding detector; IM: seawood packing.

S-UVE 03/02

QUALITY CERTIFICATION

Emicon has had quality certification since 1994

CERTIFIED QUALITY

UNI EN ISO 9001 - 048

ISO - 9001

CE

The machines are manufactured in compliance with the following standard:

CE 89/392
CE 72/23
CE 89/336

millennium

Precision air conditioning units with chilled water coil



series UV cooling capacity 6÷105 kW

- compactness
- excellent performance and reliability
- wide range



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Series UV precision air conditioning units with chilled water coil

The precision air conditioning units series UV with chilled water coil has been designed for use in technology centers, computer processing centers, in telecom applications and in all those environments requiring special thermo-hygrometric conditions.

COMPACTNESS

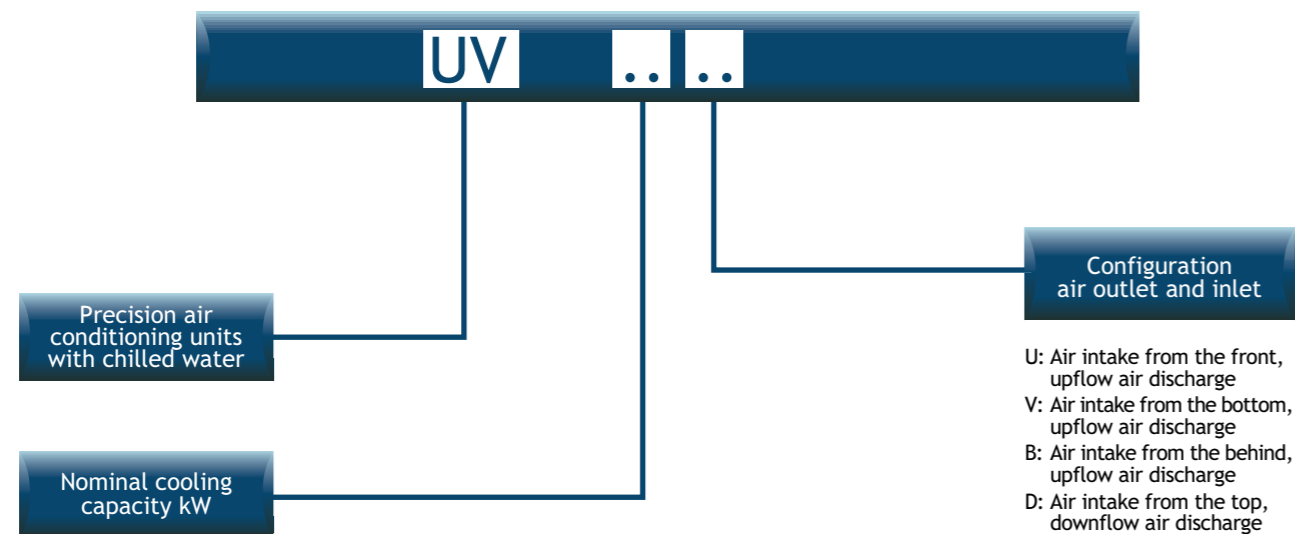
The careful design of these units aimed to reduce their overall dimensions, led to a series of compact, harmonious machines. Besides taking up less space, these units offer an attractive and elegant design with high quality finishes.

WIDE RANGE

The concept of modularity has been applied and the result is a vast number of models able to meet widely differing installation requirements. These units are available with capacities ranging from 6 to 105 kW and there are a total of 16 models covering different configurations depending on air discharge and intake.

- Configuration U: air intake from the front, upflow air discharge
- Configuration V: air intake from the bottom upflow air discharge
- Configuration B: air intake from behind, upflow air discharge
- Configuration D: air intake from the top, downflow air discharge.

EXCELLENT PERFORMANCE AND RELIABILITY
The performance of these units has been enhanced following in-depth study of the internal air circulation and the space dedicated to air flow. An additional feature of these units is the varying degree of air filtration even in areas requiring very high filtration. Accurate selection of the components has reduced noise levels providing reliability and at the same time, safety and long life.



Precision air conditioning unit with chilled water coil upflow air discharge

UV...

MODEL	UV	60	80	120	170	190	240	280	320	380	470	550	640	740	800	870	1000	
Size		L1	L1	L2	L3	M1	M1	M1	M2	M2	M3	M4	M5	M5	M6	M6	M6	
Water 7/12°C	Total (27°C-50%)	kW	8,8	11,2	18,9	25,2	27,1	35,2	41,3	45,1	54,5	68,7	80,7	94,3	109,0	117,0	129,0	154,0
	Sensible (27°C-50%)	kW	6,6	8,4	14,2	18,9	20,3	26,4	31,0	33,9	40,8	51,5	60,5	70,7	81,7	87,8	96,9	120,4
	Total (24°C-50%)	kW	5,9	7,6	12,8	17,0	18,3	23,8	27,9	30,5	36,8	46,4	54,5	63,7	73,6	79,1	87,3	104,0
Water 10/15°C	Total (27°C-50%)	kW	4,6	5,8	9,8	13,1	14,1	18,3	21,5	23,5	28,5	35,7	41,9	49,0	56,6	60,8	67,2	80,2
	Sensible (27°C-50%)	kW	4,5	5,8	9,8	12,9	13,9	18,3	21,2	23,5	28,0	35,7	40,7	49,0	56,0	60,2	66,5	79,4
	Pressure drop 1)	kPa	58	74	58	59	63	52	61	51	84	48	67	44	42	79	95	57
CENTRIFUGAL fans	Air flow rate	l/s	335	335	330	972	1700	1556	1500	2083	2083	2772	3000	4583	4375	5970	6950	6670
	Stand. Available pressure	Pa	85	65	50	40	45	70	75	65	55	100	85	90	85	110	130	130
	Nominal absorbed power	W	446	446	446	908	891	1254	1254	2244	2244	2178	2244	6664	6664	8885	9872	9872
Humidifier	Steam production	kg/h	5	5	5	5	5	5	5	5	13	13	13	13	13	13	13	
	Max absorbed power	kW	3,7	3,7	3,7	3,7	3,7	3,7	3,7	3,7	9,4	9,4	9,4	9,4	9,4	9,4	9,4	
Electric heaters	Capacity	kW	3	3	3	6	9	9	9	9	13,5	13,5	18	18	18	18	18	
	Steps	n.i.	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	
Hot water coil 2)	Capacity	kW	5	5	7	11	15	15	19	19	22	24	25	25	35	35	35	
	Water flow rate	l/s	0,08	0,08	0,15	0,18	0,24	0,24	0,24	0,30	0,30	0,40	0,40	0,41	0,41	0,57	0,57	
Sound pressure level 3)	Version U, B	dB(A)	46	46	47	51	52	52	51	59	59	60	61	61	62	66	65	
	Version V	dB(A)	45	45	46	48	49	49	48	56	56	57	58	58	59	63	62	
Dimensions	Length	mm	490	490	640	940	1230	1230	1230	1530	1530	1730	1990	2390	2390	2950	2950	
	Width	mm	565	565	565	565	665	665	665	665	665	815	815	815	815	815	815	
	Height	mm	1800	1800	1800	1800	1975	1975	1975	1975	1975	1995	1995	1995	1995	1995	1995	
	Weight	kg	155	160	190	198	221	230	241	267	274	290	310	325	332	346	370	

Precision air conditioning unit with chilled water coil downflow air discharge

UV...D

MODEL	UV	60D	80D	120D	170D	190D	240D	280D	320D	380D	470D	550D	640D	740D	800D	870D	1000D	
Size		L 1	L 1	L2	L3	M1	M1	M1	M2	M2	M3	M4	M5	M5	M6	M6	M6	
Water 7/12°C	Total (27°C-50%)	kW	8,6	12,0	16,9	25,8	27,1	35,2	41,3	45,1	54,5	68,7	80,7	94,3	109,0	117,0	129,0	154,0
	Sensible (27°C-50%)	kW	6,5	9,0	12,7	19,3	20,3	26,4	31,0	33,9	40,8	51,5	60,5	70,7	81,7	87,8	96,9	116,0
	Total (24°C-50%)	kW	5,8	8,1	11,4	17,4	18,3	23,8	27,9	30,5	36,8	46,4	54,5	63,7	73,6	79,1	87,3	104,3
Water 10/15°C	Total (27°C-50%)	kW	4,5	6,3	8,8	13,4	14,1	18,3	21,5	23,5	28,5	35,7	41,9	49,0	56,6	60,8	67,2	80,2
	Sensible (27°C-50%)	kW	4,4	6,2	8,8	13,3	13,9	18,3	21,2	23,5	28,0	35,7	40,7	49,0	56,0	60,2	66,5	79,4
	Pressure drop 1)	kPa	58	70	64	69	63	52	61	51	84	48	67	44	42	79	95	57
CENTRIFUGAL fans	Air flow rate	l/s	388	445	625	890	1700	1556	1500	2083	2083	2772	3000	4583	4375	5970	6950	6670
	Stand. Available pressure	Pa	45	45	45	50	80	115	120	75	60	60	30	45	70	40	55	75
	Nominal absorbed power	W	446	446	446	908	1518	1518	1518	2277	2277	2178	2244	6664	6664	6664	9872	9872
Humidifier	Steam production	kg/h	5	5	5	5	5	5	5	5	13	13	13	13	13	13	13	
	Max absorbed power	kW	3,7	3,7	3,7	3,7	3,7	3,7	3,7	3,7	9,4	9,4	9,4	9,4	9,4	9,4	9,4	
Electric heaters	Capacity	kW	3	3	3	6	9	9	9	9	13,5	13,5	18	18	18	18	18	
	Steps	n.i.	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	
Hot water coil 2)	Capacity	kW	5	5	7	11	15	15	19	19	22	24	25	25	35	35	35	
	Water flow rate	l/s	0,08	0,08	0,15	0,18	0,24	0,24	0,24	0,30	0,30	0,40	0,40	0,41	0,41	0,57	0,57	
Sound pressure level 3)	Version D	dB(A)	45	45	46	48	49	49	48	56	56	57	58	58	59	63	62	
Dimensions	Length	mm	490	490	640	940	1230	1230	1230	1530	1530	1730	1990	2390	2390	2950	2950	
	Width	mm	565	565	565	565	665	665	665	665	665	815	815	815	815	815	815	
	Height	mm	1800	1800	1800	1800	1975	1975	1975	1975	1975	1995	1995	1995	1995	1995	1995	
	Weight	kg	155	160	190	198	221	230	241	267	274	290	310	325	332	346	370	

1) Pressure drop on coil and 3-way valve referred to ambient temperature 24°C
 2) Air 20°C - Water 80/65°C
 3) Sound pressure level at 2 m in free field with ducted air discharge
 Power supply 400V-50Hz-3F+T+N
 Data supplied in this catalogue can be amended without prior notice

