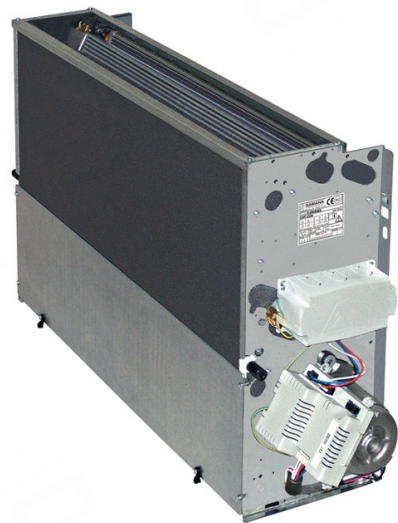


LWT Fan coil



LWT MV Fan coil



LWT IV Fan coil



LWT MO Fan coil



LWT IO Fan coil

Fan Coil Unit with Centrifugal Fan with Asynchronous Motor

Range includes **9 air flow rates** (from 105 to 1500 m³/h) and **5 models** (for wall and ceiling installation, with casing and concealed), each equipped with 3 or 4 row coil and with the possibility to add a 1 or 2 row coil for 4 pipe systems.

It is the most comprehensive range, perfectly suited to meet all of the climate control needs of work environments such as offices, shops, restaurants and hotel rooms featuring ducted installations with available pressure **up to 50 Pa.**

Technical characteristics of the main components:

Outer casing: made with strong synthetic lateral corners and from galvanized and pre-painted front steel panel. The plastic top grid has fixed louvres and is reversible in order to distribute the air in two different directions.

Standard colours:

- Lateral corners and top grid: **Pantone Cool Grey 1C (light grey)**
- Front panel: **RAL 9003 (white)**
- Other colours on request.

Inner casing: made from galvanized steel insulated with polyolefin (PO) foam (class M1).

Filter: polypropylene cellular fabric regenerating filter. The filter frame of galvanized steel is inserted into special plastic sliding guides fastened to the internal structure for easy insertion and removal of the filter. Filter presence is highlighted by a plastic front cover featuring the same colour as the top grid.

Fan assembly: the fans have aluminium or plastic blades directly keyed on the motor with double aspiration and they are dynamically and statically balanced during manufacture in order to have an extremely quiet operation.

Electric motor: the motor is wired for single phase and has six speeds, three of which are connected, with capacitor. The motor is fitted on sealed for life bearings and is secured on anti-vibration and self-lubricating mountings. Internal thermal protection with automatic reset, protection IP 20, class B.

Coil: it is manufactured from drawn copper tube and the aluminium fins are mechanically bonded onto the tube by an expansion process. The coil has two 1/2inch BSP internal connections and 1/8 inch BSP air vent and drain. The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Flow and return pipe connections are situated at the same end on the left side looking at the unit. On request we can deliver the unit with the connections on the right end side. This operation can also be easily carried out on site during installation.

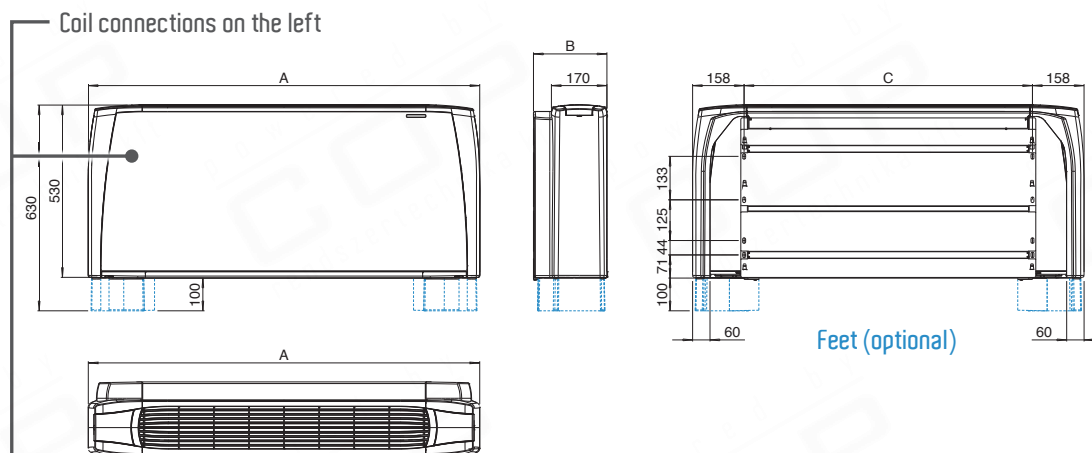
Condensate collection tray: made from plastic with an “L”-shaped plastic fitted on the inner casing; in the MO-MVB and IV-IO model the tray is insulated with polyolefin (PO) foam (class M1).

The outside diameter of the condensate discharge pipe is 15 mm.

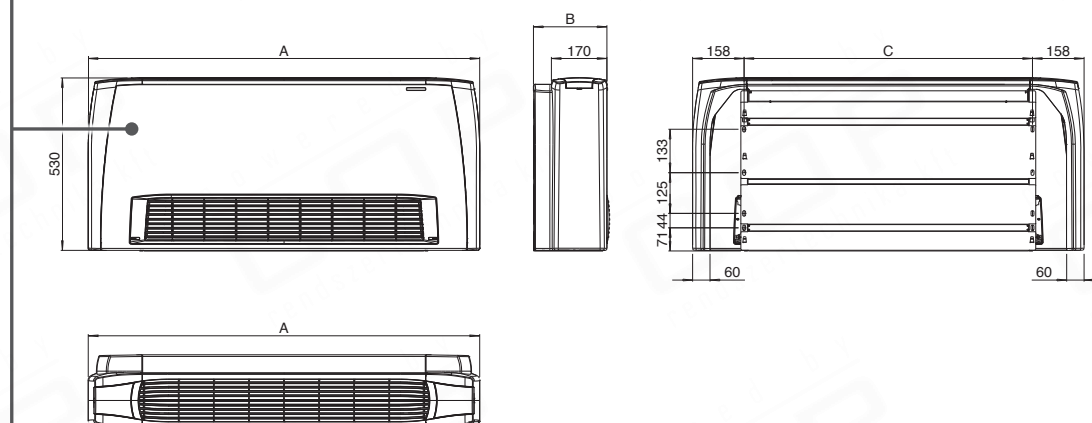


Dimensions, Weight, Water content

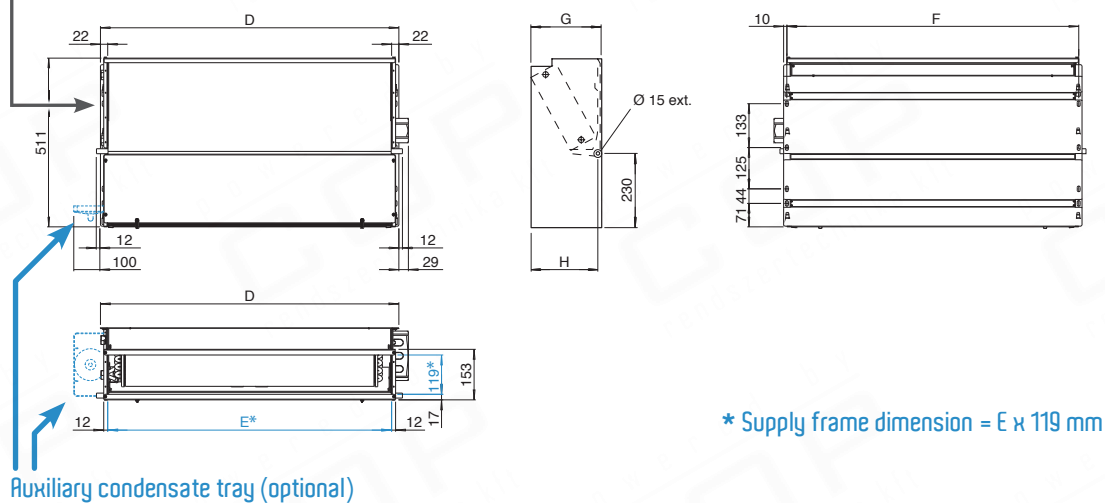
MU model



MO-MUB model



IU-IO model

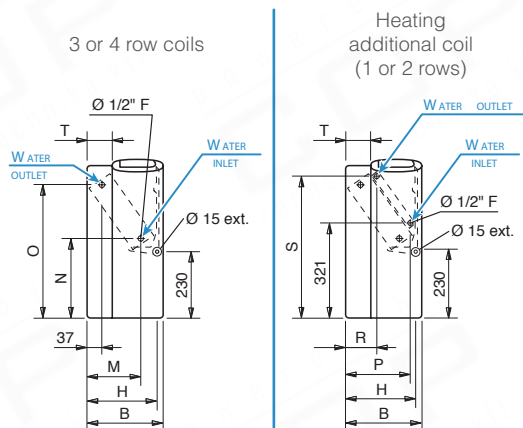


* Supply frame dimension = E x 119 mm

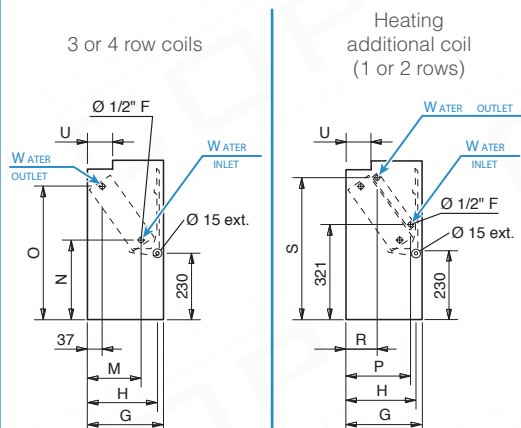
Dimensions, Weight, Water content

Coil connections

MU and MO-MUB model



IU-IO model



Dimension (mm)

MODEL	1	2	3	4	5	6	7	8	9
A	670	770	985	985	1200	1200	1415	1415	1415
B	225	225	225	225	225	225	225	255	255
C	354	454	669	669	884	884	1099	1099	1099
D	374	474	689	689	904	904	1119	1119	1119
E	330	430	645	645	860	860	1075	1075	1075
F	354	454	669	669	884	884	1099	1099	1099
G	218	218	218	218	218	218	218	248	248
H	205	205	205	205	205	205	205	235	235
M	145	145	145	145	145	145	145	170	170
N	260	260	260	260	260	260	260	270	270
O	460	460	460	460	460	460	460	450	450
P	185	185	185	185	185	185	185	210	210
R	105	105	105	105	105	105	105	110	110
S	475	475	475	475	475	475	475	465	465
T	55	55	55	55	55	55	55	85	85
U	65	65	65	65	65	65	65	95	95

Weight (kg)

		WEIGHT WITH PACKAGING									WEIGHT WITHOUT PACKAGING										
		MODEL	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	
MU	MO-MUB	ROWS	3	15,5	17,2	21,4	22,5	26,9	27,7	32,1	35,7	35,9	13,9	15,4	19,1	20,2	24,1	24,9	28,8	32,0	32,2
		3+1	16,2	18,0	22,6	23,7	28,4	29,2	33,9	37,5	37,7	14,6	16,2	20,3	21,4	25,6	26,4	30,6	33,8	34,0	
		3+2	16,7	18,6	23,3	24,4	29,3	30,1	35,0	38,6	38,8	15,1	16,8	21,0	22,1	26,5	27,3	31,7	34,9	35,1	
		4	16,0	18,0	22,4	23,5	28,1	29,0	33,6	37,2	37,4	14,4	16,2	20,1	21,2	25,3	26,2	30,3	33,5	33,7	
		4+1	16,7	18,8	23,6	24,7	29,6	30,5	35,4	39,0	39,2	15,1	17,0	21,3	22,4	26,8	27,7	32,1	35,3	35,5	
IU-IO	ROWS	3	12,2	13,6	17,1	18,1	21,9	22,8	27,0	30,2	30,4	10,6	11,8	15,3	16,3	19,6	20,5	24,2	27,1	27,3	
		3+1	12,9	14,4	18,3	19,3	23,4	24,3	28,8	32,0	32,2	11,3	12,6	16,5	17,5	21,1	22,0	26,0	28,9	29,1	
		3+2	13,4	15,0	19,0	20,0	24,3	25,2	29,9	33,1	33,3	11,8	13,2	17,2	18,2	22,0	22,9	27,1	30,0	30,2	
		4	12,7	14,4	18,1	19,1	23,1	24,1	28,5	31,7	31,9	11,1	12,6	16,3	17,3	20,8	21,8	25,7	28,6	28,8	
		4+1	13,4	15,2	19,3	20,3	24,6	25,6	30,3	33,5	33,7	11,8	13,4	17,5	18,5	22,3	23,3	27,5	30,4	30,6	

Water content (litres)

MODEL		1	2	3	4	5	6	7	8	9
ROWS	3	0,5	0,6	0,9	0,9	1,3	1,6	1,7	1,9	1,9
	4	0,7	0,8	1,3	1,3	1,7	2,2	2,4	2,8	2,8
	+1	0,2	0,2	0,3	0,3	0,4	0,5	0,5	0,6	0,6
	+2	0,4	0,4	0,6	0,6	0,8	1,0	1,0	1,2	1,2



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Certification

Units with 3 row coil

2 pipe units. The following standard rating conditions are used:

COOLING (summer mode)

Entering air temperature: +27°C d.b. +19°C w.b.
Water temperature: + 7°C E.W.T. +12°C L.W.T.

HEATING (winter mode)

Entering air temperature: +20°C
Entering water temperature: +50°C

Water flow rate as for the cooling conditions

MODEL		LWT 13						LWT 23						LWT 33						
Speed		1 (E)	2	3	4 (E)	5	6 (E)	1 (E)	2	3 (E)	4	5 (E)	6	1	2 (E)	3 (E)	4	5 (E)	6	
		MIN	MED			MAX			MIN	MED			MAX			MIN			MED	MAX
Air flow	m³/h	105	125	150	175	195	220	145	170	220	250	295	340	185	235	270	325	385	440	
Cooling total emission (E)	kW	0,59	0,68	0,77	0,86	0,94	1,03	0,91	1,01	1,25	1,38	1,56	1,74	1,28	1,57	1,78	2,07	2,39	2,66	
Cooling sensible emission (E)	kW	0,47	0,54	0,62	0,71	0,78	0,86	0,69	0,77	0,97	1,08	1,24	1,40	0,94	1,15	1,32	1,55	1,80	2,02	
Heating (E)	kW	0,76	0,90	1,02	1,15	1,26	1,39	1,12	1,27	1,59	1,77	2,02	2,28	1,52	1,87	2,15	2,52	2,92	3,27	
Heating - Water 70-60°C	kW	1,31	1,53	1,75	1,99	2,18	2,42	1,90	2,14	2,70	3,00	3,44	3,89	2,54	3,14	3,61	4,24	4,92	5,52	
Dp Cooling (E)	kPa	0,9	1,1	1,4	1,7	2,0	2,3	2,5	3,0	4,4	5,3	6,5	7,9	6,6	9,4	11,8	15,4	19,7	23,8	
Dp Heating (E)	kPa	0,8	0,9	1,2	1,4	1,7	2,0	2,1	2,6	3,7	4,5	5,5	6,7	5,6	8,0	10,0	13,1	16,7	20,2	
Fan (E)	W	16	19	21	25	29	33	14	16	22	26	32	40	15	20	25	32	41	49	
Sound power (E)	dB(A)	32	34	36	39	42	45	30	33	40	43	47	51	31	36	40	45	49	52	
Sound pressure (★)	dB(A)	23	25	27	30	33	36	21	24	31	34	38	42	22	27	31	36	40	43	
1 row heating additional coil (Water 70/60°C)	Heating (E) kW	0,63	0,71	0,79	0,89	0,96	1,04	0,94	1,04	1,25	1,36	1,52	1,68	1,35	1,59	1,77	2,00	2,26	2,48	
	Dp Heat. (E) kPa	0,7	0,9	1,0	1,3	1,5	1,7	1,7	2,0	2,8	3,3	4,0	4,8	3,9	5,2	6,3	7,8	9,7	11,4	

MODEL		LWT 43						LWT 53						LWT 63					
Speed		1	2 (E)	3 (E)	4	5 (E)	6	1	2 (E)	3	4 (E)	5 (E)	6	1 (E)	2	3 (E)	4	5 (E)	6
		MIN	MED		MAX			MIN	MED		MAX		MIN	MED		MAX			
Air flow	m³/h	185	265	335	400	485	570	250	315	420	495	545	650	415	505	590	680	760	830
Cooling total emission (E)	kW	1,27	1,73	2,14	2,46	2,87	3,24	1,68	2,03	2,58	2,94	3,18	3,64	2,54	2,99	3,37	3,77	4,09	4,35
Cooling sensible emission (E)	kW	0,93	1,28	1,60	1,86	2,19	2,51	1,24	1,51	1,94	2,23	2,43	2,82	1,91	2,27	2,59	2,93	3,20	3,44
Heating (E)	kW	1,50	2,09	2,61	3,02	3,56	4,06	1,98	2,42	3,13	3,59	3,89	4,50	3,07	3,66	4,13	4,68	5,09	5,45
Heating - Water 70-60°C	kW	2,51	3,51	4,36	5,08	6,00	6,87	3,32	4,07	5,26	6,04	6,54	7,57	5,17	6,15	6,96	7,87	8,61	9,22
Dp Cooling (E)	kPa	6,5	11,2	16,2	20,8	27,2	33,8	4,1	5,8	8,8	11,1	12,7	16,2	8,6	11,4	14,1	17,2	19,8	22,1
Dp Heating (E)	kPa	5,5	9,5	13,8	17,7	23,1	28,7	3,5	4,9	7,5	9,4	10,8	13,8	7,3	9,7	12,0	14,6	16,8	18,8
Fan (E)	W	14	21	28	34	44	57	18	22	32	39	46	61	37	46	55	67	78	88
Sound power (E)	dB(A)	27	33	39	43	47	52	26	31	37	41	43	48	37	42	46	49	52	54
Sound pressure (★)	dB(A)	18	24	30	34	38	43	17	22	28	32	34	39	28	33	37	40	43	45
1 row heating additional coil (Water 70/60°C)	Heating (E) kW	1,34	1,73	2,06	2,32	2,65	2,88	1,77	2,07	2,53	2,83	3,03	3,42	2,50	2,87	3,19	3,54	3,81	4,04
	Dp Heat. (E) kPa	3,9	6,0	8,2	10,1	12,8	14,8	1,2	1,6	2,3	2,8	3,2	3,9	3,2	4,1	4,9	5,8	6,7	7,4

MODEL		LWT 73						LWT 83						LWT 93					
Speed		1	2 (E)	3	4 (E)	5	6 (E)	1	2 (E)	3	4 (E)	5	6 (E)	1	2 (E)	3	4 (E)	5	6 (E)
		MIN		MED		MAX		MIN		MED		MAX		MIN		MED		MAX	
Air flow	m³/h	445	535	630	735	840	925	510	655	815	1020	1100	1200	735	830	980	1210	1365	1500
Cooling total emission (E)	kW	2,87	3,34	3,80	4,29	4,76	5,11	3,06	3,74	4,41	5,19	5,47	5,82	4,08	4,47	5,06	5,87	6,36	6,74
Cooling sensible emission (E)	kW	2,13	2,50	2,87	3,27	3,66	3,95	2,32	2,88	3,44	4,12	4,37	4,68	3,16	3,49	4,00	4,73	5,19	5,55
Heating (E)	kW	3,41	4,01	4,60	5,19	5,80	6,27	3,84	4,80	5,61	6,74	7,15	7,66	5,21	5,71	6,54	7,72	8,47	9,06
Heating - Water 70-60°C	kW	5,71	6,72	7,67	8,73	9,76	10,55	6,49	8,11	9,67	11,63	12,36	13,25	8,87	9,82	11,29	13,39	14,70	15,74
Dp Cooling (E)	kPa	12,3	16,2	20,3	25,1	30,1	34,2	7,3	10,3	13,8	18,4	20,2	22,5	11,9	13,8	17,3	22,4	25,9	28,6
Dp Heating (E)	kPa	10,5	13,8	17,3	21,3	25,6	29,1	6,2	8,8	11,8	15,6	17,3	19,2	10,2	12,0	14,9	19,1	22,5	24,6
Fan (E)	W	44	54	66	79	92	103	47	62	81	105	116	130	78	92	108	134	152	176
Sound power (E)	dB(A)	38	42	47	51	54	56	39	45	50	56	58	60	47	50	54	58	62	64
Sound pressure (★)	dB(A)	29	33	38	42	45	47	30	36	41	47	49	51	38	41	45	49	53	55
1 row heating additional coil (Water 70/60°C)	Heating (E) kW	2,89	3,29	3,68	4,09	4,49	4,79	3,03	3,60	4,17	4,86	5,11	5,41	3,89	4,22	4,74	5,46	5,90	6,23
	Dp Heat. (E) kPa	3,4	4,3	5,2	6,3	7,4	8,3	3,7	5,0	6,5	8,5	9,3	10,3	5,8	6,7	8,2	10,5	12,0	13,2

(E) = Eurovent certified performance.

MIN-MED-MAX = Standard connected speeds.

(★) = The sound pressure levels are 9 dB(A) lower than the sound power levels and apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.



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Certification

Units with 4 row coil

2 pipe units. The following standard rating conditions are used:

COOLING (summer mode)

Entering air temperature: +27°C d.b. +19°C w.b.
Water temperature: + 7°C E.W.T. +12°C L.W.T.

HEATING (winter mode)

Entering air temperature: +20°C
Entering water temperature: +50°C

Water flow rate as for the cooling conditions

MODEL		LWT 14						LWT 24						LWT 34					
Speed		1 (E)	2	3	4 (E)	5	6 (E)	1 (E)	2	3 (E)	4	5 (E)	6	1	2 (E)	3 (E)	4	5 (E)	6
		MIN			MED		MAX	MIN		MED		MAX		MIN	MED		MAX		
Air flow	m³/h	105	125	150	175	195	220	145	170	220	250	295	340	185	235	270	325	385	440
Cooling total emission (E)	kW	0,67	0,78	0,89	1,02	1,11	1,23	1,01	1,13	1,43	1,59	1,81	2,04	1,34	1,65	1,89	2,21	2,57	2,88
Cooling sensible emission (E)	kW	0,51	0,60	0,68	0,79	0,87	0,97	0,74	0,83	1,07	1,19	1,38	1,57	0,96	1,20	1,38	1,62	1,90	2,14
Heating (E)	kW	0,82	0,96	1,10	1,27	1,39	1,55	1,18	1,34	1,72	1,92	2,20	2,50	1,56	1,94	2,23	2,63	3,07	3,46
Heating - Water 70-60°C	kW	1,38	1,62	1,86	2,15	2,36	2,63	1,98	2,24	2,88	3,22	3,69	4,19	2,60	3,23	3,73	4,40	5,14	5,80
Dp Cooling (E)	kPa	1,9	2,5	3,2	4,0	4,7	5,6	4,9	6,1	9,2	11,0	13,9	17,2	3,7	5,3	6,7	8,9	11,5	14,1
Dp Heating (E)	kPa	1,5	2,0	2,6	3,3	3,9	4,7	3,9	4,9	7,5	9,2	11,6	14,6	2,9	4,2	5,4	7,0	9,2	11,3
Fan (E)	W	16	19	21	25	29	33	14	16	22	26	32	40	15	20	25	32	41	49
Sound power (E)	dB(A)	32	34	36	39	42	45	30	33	40	43	47	51	31	36	40	45	49	52
Sound pressure (★)	dB(A)	23	25	27	30	33	36	21	24	31	34	38	42	22	27	31	36	40	43
1 row heating additional coil (Water 70/60°C)	Heating (E) kW	0,63	0,71	0,79	0,89	0,96	1,04	0,94	1,04	1,25	1,36	1,52	1,68	1,35	1,59	1,77	2,00	2,26	2,48
	Dp Heat. (E) kPa	0,7	0,9	1,0	1,3	1,5	1,7	1,7	2,0	2,8	3,3	4,0	4,8	3,9	5,2	6,3	7,8	9,7	11,4

MODEL		LWT 44						LWT 54						LWT 64					
Speed		1	2 (E)	3 (E)	4	5 (E)	6	1	2 (E)	3	4 (E)	5 (E)	6	1 (E)	2	3 (E)	4	5 (E)	6
		MIN			MED		MAX	MIN		MED		MAX		MIN		MED		MAX	
Air flow	m³/h	185	265	335	400	485	570	250	315	420	495	545	650	415	505	590	680	760	830
Cooling total emission (E)	kW	1,32	1,83	2,28	2,65	3,12	3,56	1,79	2,19	2,83	3,25	3,54	4,09	2,83	3,38	3,86	4,38	4,79	5,13
Cooling sensible emission (E)	kW	0,95	1,34	1,68	1,97	2,34	2,69	1,30	1,60	2,08	2,40	2,63	3,07	2,07	2,49	2,86	3,27	3,60	3,87
Heating (E)	kW	1,54	2,16	2,72	3,17	3,76	4,34	2,06	2,53	3,30	3,81	4,17	4,83	3,39	4,07	4,69	5,35	5,88	6,35
Heating - Water 70-60°C	kW	2,57	3,62	4,56	5,32	6,33	7,30	3,44	4,23	5,51	6,37	6,97	8,07	5,66	6,81	7,85	8,98	9,90	10,68
Dp Cooling (E)	kPa	3,4	6,1	9,0	11,7	15,5	19,6	7,3	10,4	16,3	20,8	24,2	31,3	14,4	19,7	24,8	30,9	36,2	40,9
Dp Heating (E)	kPa	2,5	4,6	6,9	9,0	12,2	15,6	5,7	8,3	13,1	17,0	19,9	25,7	11,0	15,2	19,5	24,7	29,3	33,5
Fan (E)	W	14	21	28	34	44	57	18	22	32	39	46	61	37	46	55	67	78	88
Sound power (E)	dB(A)	27	33	39	43	47	52	26	31	37	41	43	48	37	42	46	49	52	54
Sound pressure (★)	dB(A)	18	24	30	34	38	43	17	22	28	32	34	39	28	33	37	40	43	45
1 row heating additional coil (Water 70/60°C)	Heating (E) kW	1,34	1,73	2,06	2,32	2,65	2,88	1,77	2,07	2,53	2,83	3,03	3,42	2,50	2,87	3,19	3,54	3,81	4,04
	Dp Heat. (E) kPa	3,9	6,0	8,2	10,1	12,8	14,8	1,2	1,6	2,3	2,8	3,2	3,9	3,2	4,1	4,9	5,8	6,7	7,4

MODEL		LWT 74						LWT 84						LWT 94					
Speed		1	2 (E)	3	4 (E)	5	6 (E)	1	2 (E)	3	4 (E)	5	6 (E)	1	2 (E)	3	4 (E)	5	6 (E)
		MIN			MED		MAX	MIN		MED		MAX		MIN		MED		MAX	
Air flow	m³/h	445	535	630	735	840	925	510	655	815	1020	1100	1200	735	830	980	1210	1365	1500
Cooling total emission (E)	kW	3,03	3,56	4,08	4,64	5,17	5,58	3,27	4,03	4,80	5,73	6,06	6,47	4,42	4,88	5,57	6,54	7,13	7,60
Cooling sensible emission (E)	kW	2,22	2,62	3,03	3,47	3,89	4,23	2,43	3,04	3,66	4,43	4,71	5,06	3,36	3,72	4,29	5,11	5,63	6,05
Heating (E)	kW	3,55	4,20	4,86	5,55	6,19	6,71	4,03	5,06	6,11	7,36	7,84	8,43	5,59	6,22	7,14	8,53	9,38	10,08
Heating - Water 70-60°C	kW	5,93	7,02	8,12	9,30	10,38	11,26	6,78	8,55	10,37	12,52	13,34	14,36	9,47	10,55	12,13	14,52	16,02	17,23
Dp Cooling (E)	kPa	9,5	12,5	15,9	20,0	24,2	27,7	5,2	7,6	10,3	14,1	15,6	17,5	9,0	10,6	13,4	17,8	20,7	23,2
Dp Heating (E)	kPa	7,7	10,3	13,3	16,9	20,5	23,7	4,1	6,2	8,4	11,4	12,7	14,5	7,2	8,7	11,1	14,8	17,0	19,3
Fan (E)	W	44	54	66	79	92	103	47	62	81	105	116	130	78	92	108	134	152	176
Sound power (E)	dB(A)	38	42	47	51	54	56	39	45	50	56	58	60	47	50	54	58	62	64
Sound pressure (★)	dB(A)	29	33	38	42	45	47	30	36	41	47	49	51	38	41	45	49	53	55
1 row heating additional coil (Water 70/60°C)	Heating (E) kW	2,89	3,29	3,68	4,09	4,49	4,79	3,03	3,60	4,17	4,86	5,11	5,41	3,89	4,22	4,74	5,46	5,90	6,23
	Dp Heat. (E) kPa	3,4	4,3	5,2	6,3	7,4	8,3	3,7	5,0	6,5	8,5	9,3	10,3	5,8	6,7	8,2	10,5	12,0	13,2

(E) = Eurovent certified performance.

MIN-MED-MAX = Standard connected speeds.

(★) = The sound pressure levels are 9 dB(A) lower than the sound power levels and apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

IAQ accessory (only for LWT MV version)



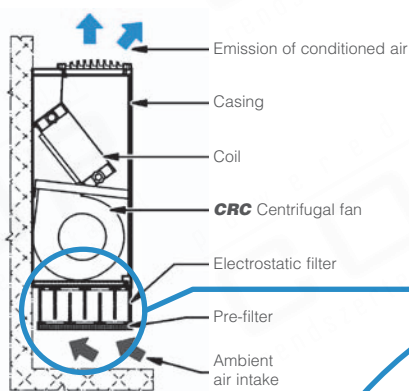
Crystall

The Crystall electrostatic filter matches the need for better air conditioning with the concepts of space and design.

With this filter the various stages of air treatment are combined in one appliance.

Thanks to this new patented filter (efficiency compliant with new Standard UNI 11254), air pollutants such as cigarette smoke, dust (PM10, PM2.5), pollen and most biological organisms **are eliminated**.

In addition, as fresh air is not being introduced to obtain the best climatic conditions, there are consequential energy savings.



Operating principle of the Crystall electronic filter

The air is sucked in and first passes a mechanical pre-filter, which stops away particles of more than $50\text{ }\mu\text{m}$ (dust, insects, etc.) **(PHASE 1)**.

Then the smallest particles ($50\div 0.01\text{ }\mu\text{m}$) are exposed to an intensive ionic field and are polarized **(PHASE 2)**.

The charged particles passing through the second filter section, are pushed back by the anode and attracted by the collection surfaces by a strong, induced magnetic field **(PHASE 3)**.

The air which leaves the unit is free from polluting particles.

