

MCL

Micro air handling units horizontal execution



PRODUCT SPECIFICATIONS

- The MCL micro air handlers are designed to respond to special system requirements where installation space is restricted and low ceiling heights are unavoidable.
- Application in small and medium-sized spaces with special air-conditioning requirements.
- This series uses centrifugal fans coupled to electronically-controlled single-phase motors with constant flow-rate, covering a range of system flow-rates from 1000 m³/h to 6000 m³/h.
- **G4 filter**, synthetic filtering media, weighted average efficiency $\geq 90\%$ with galvanised frame and retaining mesh.
- **Heat exchange coils** suitable for heating/cooling operation, 2/4/6 rows made from 5/8" copper tube with aluminium fins and turbulators. Coils and basin removable from below.
- **Condensate collection basin** made from galvanised sheet metal with drain at bottom and welded hose fitting.
- **Double suction centrifugal fans** with forward curved blades, complete with programmable electronically-controlled 6-pole motor for "sensorless" constant flow-rate control. High efficiency and low noise motor driven by a 16 KHz inverter to eliminate acoustic disturbance. Single-phase power supply, 230 V 50 Hz IP 54. Insulation class F. Programming by potentiometer. Control using 0/5 Volt potentiometric signal (+5 Volt). The correspondence between potentiometric signal and flow-rate is defined when programming each fan and is based on predefined flow-rates.

KEY FEATURES

- **Frame**, made using a modular system of extruded anodised aluminium alloy section bars (in accordance with UNI 9006/1), joined by die-cast aluminium corners.
- **Sandwich panels**, insulated using polyurethane foam, density 40 kg/m³, 18 mm thick. Outside panel made from coated sheet metal, 6/10 thickness with protective film, inside panel made from galvanised sheet metal, 6/10 thickness.

Warning: Maximum operating temperature between -20°C and +40°C with air-cooled motor.

CERTIFICATION

MODEL	MCL	10	20	30	40	50	60
Air flow rate (maximum speed)	m³/h	1000	2000	2800	4000	4800	6000
Static pressure (1)	Pa	452	452	396	452	532	452
Sound pressure level (2)	dB(A)	69	69	70	69	69	69

FAN	MCL	10	20	30	40	50	60
Power input	W	370	2x370	2x370	2x550	3x550	3x550
Max absorbed current	A	4,2	2x4,2	2x4,2	2x6,7	3x6,7	3x6,7
N. of fans	n°	1	2	2	2	3	3
Fan speeds	n°	variable					
Poles	n°	6	6	6	6	6	6
Enclosure protection	IP	54	54	54	54	54	54
Insulation class	B	F	F	F	F	F	F
Electrical supply	V / ph / Hz	230 / 1 / 50					

FILTER	MCL	10	20	30	40	50	60
Efficiency		G4	G4	G4	G4	G4	G4
Crossing speed	m/s	1,63	2,16	2,29	2,60	2,62	3,27
Average pressure drop	Pa	76	88	92	100	100	116

2R hot water coil	MCL	10	20	30	40	50	60
Heating capacity (3)	kW	14,6	28,86	41,59	61,8	68,4	84
Supply air temperature	°C	37,7	37,2	38,4	40,2	36,7	35,9
Water flow	dm³/h	1255	2482	3576	5319	5882	7221
Water pressure drop	kPa	3,2	6,5	13,8	20,2	5,4	8,1
Air pressure drop	Pa	29	36	35	30	38	43
Connection diameter	Gas	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"

4R hot water coil	MCL	10	20	30	40	50	60
Heating capacity (3)	kW						
Supply air temperature	°C						
Water flow	dm³/h						
Water pressure drop	kPa						
Air pressure drop	Pa						
Connection diameter	Gas						

The outlet air temperature is too high with water at 70°/60°C, therefore the water temperature should be 45°

4R cold water coil	MCL	10	20	30	40	50	60
Total cooling capacity (4)	kW	10,4	20,7	29,3	43,2	50	62,2
Supply air temperature	°C	15	15	14,9	14,5	14,9	15,1
Water flow	dm³/h	1784	3552	5039	7429	8597	10696
Water pressure drop	kPa	10,4	12,8	17,7	13,3	17,7	27,5
Air pressure drop	Pa	87	104	103	91	107	122
Connection diameter	Gas	-	-	-	-	-	-

6R cold water coil	MCL	10	20	30	40	50	60
Total cooling capacity (4)	kW	13,02	25,55	35,44	52,51	60,22	75,31
Supply air temperature	°C	11,3	11,6	11,7	11,2	11,9	12
Water flow	dm³/h	2240	4395	6095	9031	10359	12953
Water pressure drop	kPa	19,9	23,5	15,8	23,4	12	18,8
Air pressure drop	Pa	103	123	121	107	127	145
Connection diameter	Gas	-	-	-	-	-	-

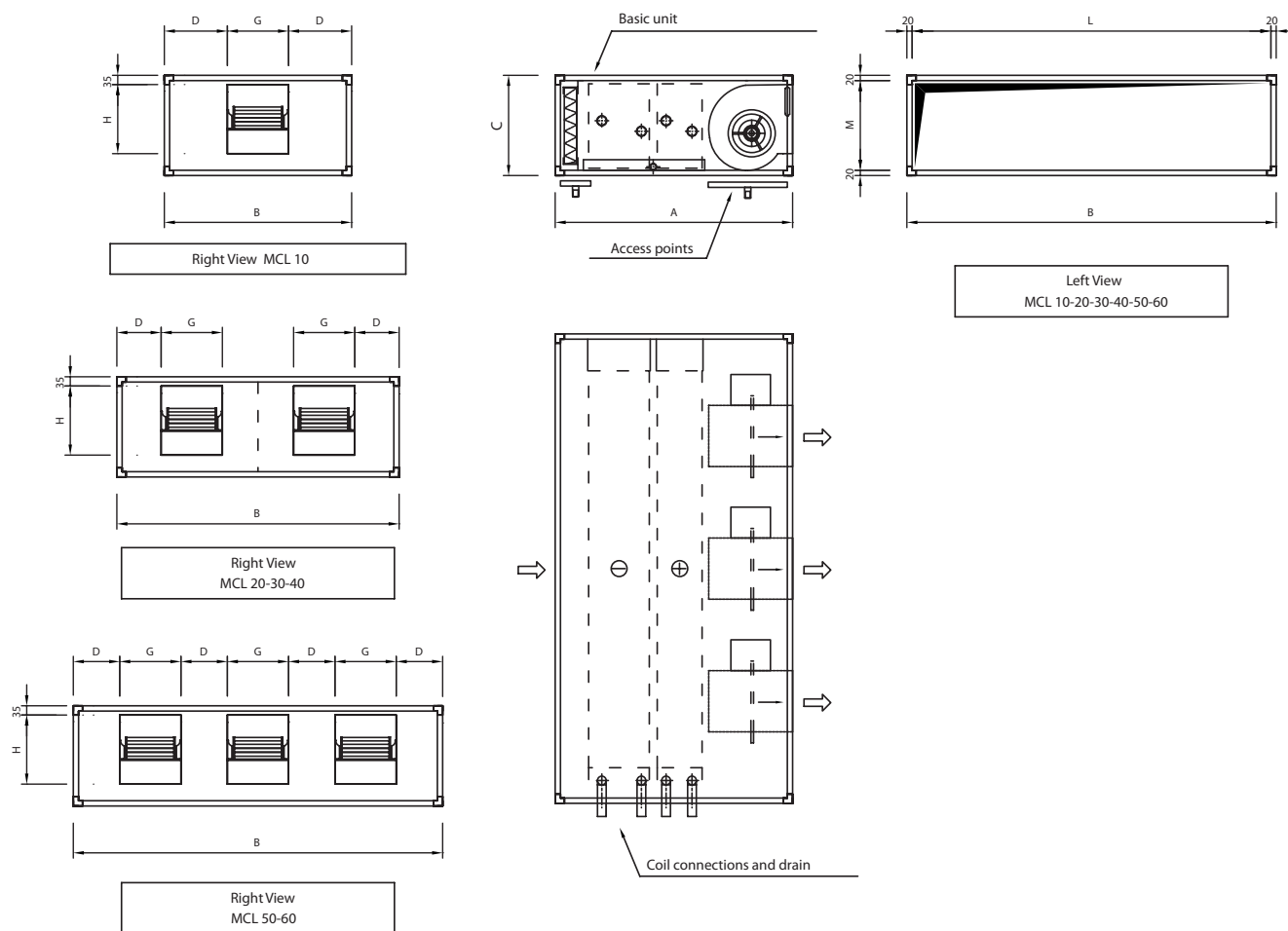
Electric coil	MCL	10	20	30	40	50	60
Heating capacity (3)	kW	3,5	6,5	10	13	16,5	20
Air pressure drop	Pa	14	16	16	17	17	19
Stages	n°	1	1	2	2	2	2
Power consumption	A	8,5	12,8	13,6	25,5	34	34
Electrical supply	V / ph / Hz	400 / 3 / 50					

(1) Referred to the fan: deduct the pressure drop of the selected components in order to get the external static pressure; 2) Sound pressure level: data referred to 1,5 metres from inlet in free field. The actual operation noise level generally differs from the values shown in the table, depending on operating conditions, reflected noise and surrounding noise; (3) Inlet air Temp. -5°C, U.R. 80%, Water Temp. In/out 70/60°C. Air flow at max speed; (4) Inlet air Temp. 32°C, U.R. 50%, Water Temp. in/out 7/12°C. Air flow at max speed. **Warning, the fans are not suitable for operating temperatures exceeding 40°C**



AIR TREATMENT

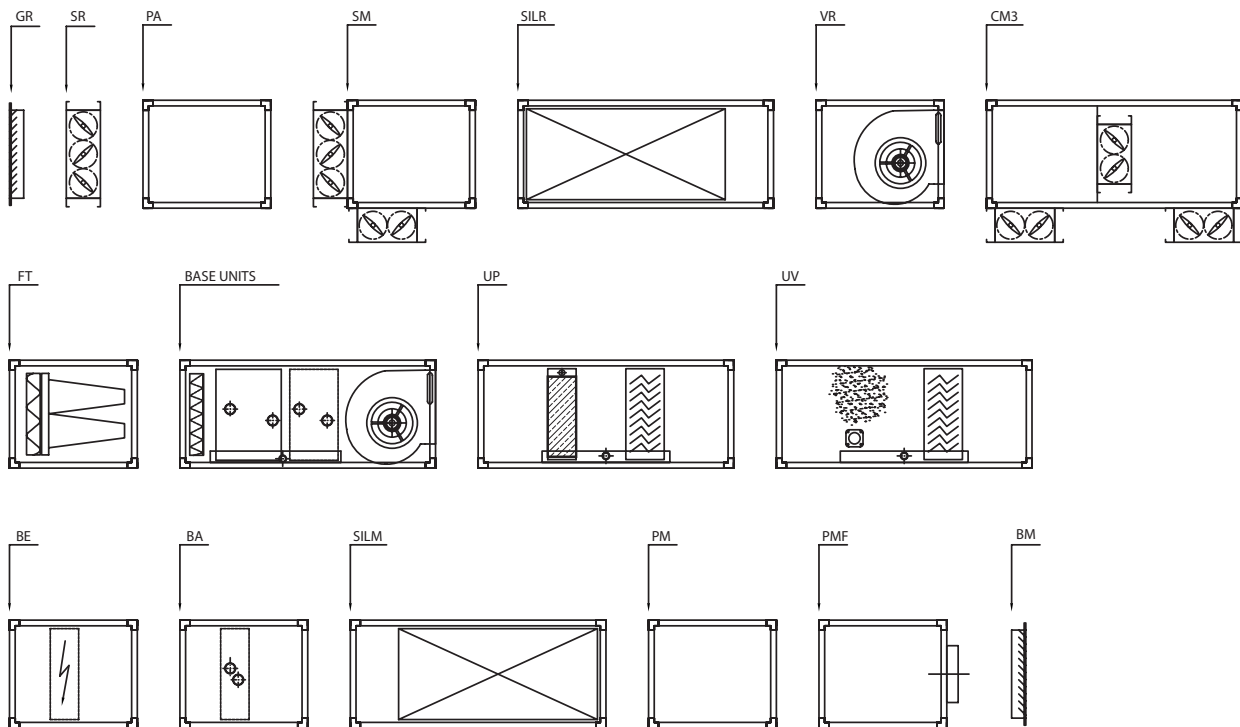
DIMESIONS



MODEL	10	20	30	40	50	60
A	900	900	900	960	960	960
B	710	1070	1400	1680	1900	2000
C	380	380	380	450	450	450
D	239	168	244	308	272	336
G	232	232	232	232	232	232
H	262	262	262	262	262	262
L	670	1030	1360	1640	1740	1960
M	340	340	340	410	410	410

Dimensions (mm)

COMPONENTS



AVAILABLE ACCESSORIES

- GR** Intake grill with fixed aluminium blades
- SR** Control damper with motor drive shaft
- PA** Intake plenum
- SM** Mixing chamber complete with 2 control dampers featuring motor drive shaft
- SILR** Return air silencer
- VR** Return air fan
- CM3** Mixing chamber with 3 dampers featuring motor drive shaft
- FT** Rigid bag filter
- UP** Wetted media humidification compartment
- UV** Steam humidification compartment with nozzles
- BE** Electric coil for post-heating
- BA** Hot water coil for post-heating
- SILM** Outlet air silencer
- PM** Outlet plenum
- PMF** Outlet plenum for circular ducting
- BM** Outlet with two rows of aluminium blades
- MS** Safety microswitch
- CM** Manual damper control
- PR** Differential pressure switch
- MA** Water column differential pressure gauge



EFFICIENCY HEATING COILS

MCL 10

ROWS 2R	Air		Water 80/70°C				Water 70/60°C				Water 45/40°C			
	Volume	T.i.	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W
	m³/h	°C	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa
	1000	-10	43,1	18,2	1561	4,7	36	15,7	1353	3,7	22,4	11,07	1904	6,7
	1000	-5	44,8	17,0	1463	4,2	37,7	14,6	1255	3,2	24,1	9,93	1708	5,6
	1000	0	46,4	15,87	1365	3,7	39,4	13,46	1157	2,8	1513	8,8	1513	4,5
	1000	5	48,1	14,73	1267	3,3	41	12,32	1059	2,4	27,4	7,66	1318	3,5
1000	10	49,8	13,59	1169	2,8	42,7	11,18	962	2	29,1	6,53	1123	2,6	
1000	15	51,4	12,45	1071	2,4	44,4	10,05	864	1,7	30,8	5,4	929	1,9	

ROWS 4R	Air		Water 80/70°C				Water 70/60°C				Water 45/40°C			
	Volume	T.i.	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W
	m³/h	°C	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa
	1000	-10	*	*	*	*	56,2	22,62	1945	9,7	36,1	15,75	2708	17,5
1000	-5	*	*	*	*	*	*	*	*	*	36,6	14,23	2447	14,6
1000	0	*	*	*	*	*	*	*	*	*	37,2	12,71	2185	11,9
1000	5	*	*	*	*	*	*	*	*	*	37,7	11,19	1924	9,5
1000	10	*	*	*	*	*	*	*	*	*	38,3	9,7	1662	7,3
1000	15	*	*	*	*	*	*	*	*	*	38,8	8,14	1400	5,4

MCL 20

ROWS 2R	Air		Water 80/70°C				Water 70/60°C				Water 45/40°C			
	Volume	T.i.	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W
	m³/h	°C	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa
	2000	-10	42,2	35,7	3071	9,6	35,4	31,06	2671	7,5	21,9	21,82	3753	13,7
	2000	-5	44	33,49	2880	8,5	37,2	28,86	2482	6,5	23,7	19,61	3373	11,3
	2000	0	45,8	31,3	2690	7,6	39	26,65	2292	5,7	25,5	17,41	2994	9,1
	2000	5	47,5	29,08	2501	6,6	40,8	24,45	2103	4,9	27,2	15,21	2616	7,2
2000	10	49,3	26,87	2311	5,8	42,5	22,25	1913	4,1	29	13,01	2238	5,4	
2000	15	51,1	24,66	2121	4,9	44,3	20,1	1724	3,4	30,8	10,8	1861	3,9	

ROWS 4R	Air		Water 80/70°C				Water 70/60°C				Water 45/40°C			
	Volume	T.i.	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W
	m³/h	°C	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa
	2000	-10	*	*	*	*	54,9	44,4	3818	11,7	35,2	30,9	5318	21,1
2000	-5	*	*	*	*	*	*	*	*	*	35,9	27,93	4805	17,6
2000	0	*	*	*	*	*	*	*	*	*	36,5	24,95	4291	14,4
2000	5	*	*	*	*	*	*	*	*	*	37,1	21,96	3777	11,5
2000	10	*	*	*	*	*	*	*	*	*	37,7	18,97	3262	8,8
2000	15	*	*	*	*	*	*	*	*	*	38,4	15,97	2748	6,5

MCL 30

ROWS 2R	Air		Water 80/70°C				Water 70/60°C				Water 45/40°C			
	Volume	T.i.	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W
	m³/h	°C	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa
	2800	-10	43,4	51,16	4400	19,9	36,7	44,7	3844	15,7	22,7	31,3	5387	28,6
	2800	-5	45,2	48,05	4132	17,8	38,4	41,59	3576	13,8	24,5	28,21	4853	23,7
	2800	0	46,9	44,93	3864	15,8	40,2	38,48	3309	12	26,2	25,11	4319	19,3
2800	5	48,7	41,82	3597	13,9	41,9	35,37	3042	10,3	28	22	3785	15,2	
2800	10	50,4	38,71	3329	12,1	43,7	32,26	2774	8,8	29,7	18,9	3251	11,6	
2800	15	52,2	35,6	3061	10,4	45,5	29,15	2507	7,3	31,5	15,81	2719	8,5	

ROWS 4R	Air		Water 80/70°C				Water 70/60°C				Water 45/40°C			
	Volume	T.i.	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W
	m³/h	°C	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa
	2800	-10	*	*	*	*	55,5	62,67	5389	15,9	35,6	43,61	7502	28,7
2800	-5	*	*	*	*	*	*	*	*	*	36,2	39,42	6781	24
2800	0	*	*	*	*	*	*	*	*	*	36,8	35,23	6060	29,6
2800	5	*	*	*	*	*	*	*	*	*	37,4	31,08	5339	15,7
2800	10	*	*	*	*	*	*	*	*	*	38	26,84	4617	12,1
2800	15	*	*	*	*	*	*	*	*	*	38,7	22,64	3895	8,9

* Warning: the type of the fan installed does not allow operation at temperatures above 40°C

EFFICIENCY HEATING COILS

MCL 40

ROWS 2R	Air		Water 80/70°C				Water 70/60°C				Water 45/40°C			
	Volume	T.i.	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W
	m³/h	°C	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa
	4000	-10	45,5	75,8	6523	29	38,6	66,41	5711	22,9	24	46,47	7993	41,6
	4000	-5	47,1	71,27	6129	26	40,2	61,8	5319	20,2	25,6	41,91	7208	34,6
	4000	0	48,8	66,7	5736	23,1	41,9	57,28	4926	17,6	27,3	37,35	6424	28,2
	4000	5	50,4	62,13	5343	20,3	43,5	52,71	4533	15,2	29	32,79	5640	22,4
	4000	10	52,1	57,56	4950	17,7	45,2	48,15	4141	12,9	30,6	28,23	4856	17,1
	4000	15	53,8	52,99	4557	15,3	46,9	43,58	3748	10,8	32,3	23,68	4072	12,5

ROWS 4R	Air		Water 80/70°C				Water 70/60°C				Water 45/40°C			
	Volume	T.i.	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W
	m³/h	°C	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa
	4000	-10	*	*	*	*	56,3	90,66	7797	11,6	36,1	63,08	10851	20,9
	4000	-5	*	*	*	*	*	*	*	*	36,7	57,02	9808	17,5
	4000	0	*	*	*	*	*	*	*	*	37,3	50,96	8765	14,3
	4000	5	*	*	*	*	*	*	*	*	37,8	44,89	7722	11,4
	4000	10	*	*	*	*	*	*	*	*	38,4	38,8	6678	8,8
	4000	15	*	*	*	*	*	*	*	*	38,9	32,75	5632	6,5

MCL 50

ROWS 2R	Air		Water 80/70°C				Water 70/60°C				Water 45/40°C			
	Volume	T.i.	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W
	m³/h	°C	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa
	4800	-10	41,6	84,7	7288	7,9	34,9	73,66	6334	6,2	21,5	51,76	8903	11,3
	4800	-5	43,4	79,48	6835	7,1	36,7	68,4	5882	5,4	23,3	46,51	7999	9,4
	4800	0	45,2	74,21	6382	6,3	38,5	63,15	5431	4,7	25,1	41,26	7097	7,6
	4800	5	47	68,95	5930	5,5	40,3	57,9	4979	4	27	36,02	6196	5,9
	4800	10	48,8	63,69	5477	4,8	42,1	52,65	4528	3,4	28,8	30,79	5296	4,5
	4800	15	50,6	58,43	5025	4,1	43,9	47,41	4078	2,8	30,6	25,57	4398	3,2

ROWS 4R	Air		Water 80/70°C				Water 70/60°C				Water 45/40°C			
	Volume	T.i.	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W
	m³/h	°C	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa
	4800	-10	*	*	*	*	55,1	106,84	9188	15,9	35,3	74,37	12791	28,7
	4800	-5	*	*	*	*	*	*	*	*	36	67,22	11561	24
	4800	0	*	*	*	*	*	*	*	*	36,6	60,06	10331	19,6
	4800	5	*	*	*	*	*	*	*	*	37,2	52,91	9100	15,7
	4800	10	*	*	*	*	*	*	*	*	37,9	45,8	7869	12,1
	4800	15	*	*	*	*	*	*	*	*	38,5	38,59	6637	8,9

MCL 60

ROWS 2R	Air		Water 80/70°C				Water 70/60°C				Water 45/40°C			
	Volume	T.i.	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W
	m³/h	°C	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa
	6000	-10	40,6	103,8	8928	11,8	34,1	90,36	7771	9,2	20,9	63,46	10916	16,9
	6000	-5	42,5	97,4	8376	10,5	35,9	84,0	7221	8,1	22,8	57,06	9815	14,0
	6000	0	44,4	90,98	7824	9,3	37,8	77,56	6671	7	24,7	50,67	8715	11,3
	6000	5	46,2	84,57	7273	8,2	39,7	71,17	6121	6	26,6	44,29	7617	8,9
	6000	10	48,1	78,17	6722	7,1	41,6	64,78	5571	5,1	28,5	37,91	6521	6,7
	6000	15	50	71,76	6172	6,1	43,5	58,39	5022	4,2	30,4	31,55	5426	4,9

ROWS 4R	Air		Water 80/70°C				Water 70/60°C				Water 45/40°C			
	Volume	T.i.	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W	T.u.	Pot.	Pw.	Dp W
	m³/h	°C	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa	°C	kW	dm³/h	KPa
	6000	-10	*	*	*	*	54,3	131,97	11349	24,5	34,8	91,85	15799	44,1
	6000	-5	*	*	*	*	*	*	*	*	35,5	83,04	14283	36,8
	6000	0	*	*	*	*	*	*	*	*	36,2	74,22	12766	30,2
	6000	5	*	*	*	*	*	*	*	*	36,9	65,4	11250	24,1
	6000	10	*	*	*	*	*	*	*	*	39,6	56,6	9732	18,6
	6000	15	*	*	*	*	*	*	*	*	38,3	47,75	8213	13,8

* Warning: the type of the fan installed does not allow operation at temperatures above 40°C



EFFICIENCY COOLING COILS

MCL 10

ROWS 4R	Air			Water 7/12°C				Water 8/13°			
	Volume m³/h	T.i. °C	U.R. %	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa
	1000	35	60	16,8	14,9	2559	19,7	17,5	14,3	2460	18,4
	1000	32	50	15	10,4	1784	10,4	15,6	9,7	1672	9,3
	1000	28	50	13,8	7,27	1251	5,5	14,4	6,73	1157	4,8
	1000	26	50	13,1	5,98	1028	3,9	13,8	5,45	937	3,3

ROWS 6R	Air			Water 7/12°C				Water 8/13°			
	Volume m³/h	T.i. °C	U.R. %	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa
	1000	35	60	12,6	18,47	3177	37,1	13,5	17,68	3041	34,3
	1000	32	50	11,3	13,02	2240	19,9	12,2	12,31	2118	18
	1000	28	50	10,7	9,46	1626	11,3	11,5	8,81	1516	9,9
	1000	26	50	10,3	7,91	1361	8,2	11,1	7,27	1250	7,0

MCL 20

ROWS 4R	Air			Water 7/12°C				Water 8/13°			
	Volume m³/h	T.i. °C	U.R. %	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa
	2000	35	60	17,2	29,1	5009	23,7	17,9	27,7	4762	21,6
	2000	32	50	15	20,7	3552	12,8	15,8	19,5	3345	11,5
	2000	28	50	13,8	14,73	2553	7	14,4	13,61	2341	6,1
	2000	26	50	13,6	11,32	1946	4,4	14,3	10,2	1755	3,7

ROWS 6R	Air			Water 7/12°C				Water 8/13°			
	Volume m³/h	T.i. °C	U.R. %	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa
	2000	35	60	13,0	36,36	6254	44	13,8	34,8	5986	40,7
	2000	32	50	11,6	25,55	4395	23,5	12,5	24,13	4151	21,2
	2000	28	50	11	18,47	3176	13,2	11,8	17,1	2942	11,5
	2000	26	50	10,7	15,2	2615	9,3	11,6	13,86	2385	7,9

MCL 30

ROWS 4R	Air			Water 7/12°C				Water 8/13°			
	Volume m³/h	T.i. °C	U.R. %	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa
	2800	35	60	35	41,9	7210	33,4	17,4	40,1	6900	30,9
	2800	32	50	14,9	29,3	5039	17,7	15,5	27,7	4771	16
	2800	28	50	13,6	20,94	3602	9,7	14,4	19,1	3284	8,3
	2800	26	50	13,2	16,97	2919	6,7	13,9	15,38	2646	5,6

ROWS 6R	Air			Water 7/12°C				Water 8/13°			
	Volume m³/h	T.i. °C	U.R. %	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa
	2800	35	60	13,2	50,44	8675	29,7	13,9	48,39	8322	27,5
	2800	32	50	11,7	35,44	6095	15,8	12,6	33,53	5768	14,3
	2800	28	50	11,1	25,54	4393	8,8	11,9	23,66	4069	7,7
	2800	26	50	10,8	21,21	3647	6,3	11,5	19,46	3347	5,4

EFFICIENCY COOLING COILS

MCL 40

ROWS 4R	Air			Water 7/12°C				Water 8/13°			
	Volume m³/h	T.i. °C	U.R. %	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa
	4000	35	60	16,5	60,4	10396	24,2	17,2	58,1	9985	22,5
	4000	32	50	14,5	43,2	7429	13,3	15,1	40,6	6980	11,9
	4000	28	50	13,3	31,01	5334	7,4	14	28,6	4919	6,4
	4000	26	50	13	24,24	4169	4,8	13,8	21,7	3732	3,9

ROWS 6R	Air			Water 7/12°C				Water 8/13°			
	Volume m³/h	T.i. °C	U.R. %	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa
	4000	35	60	12,4	74,44	12803	43,5	13,2	71,62	12318	40,6
	4000	32	50	11,2	52,51	9031	23,4	12	49,56	8525	21,1
	4000	28	50	10,6	38,09	6552	13,2	11,4	35,35	6080	11,6
	4000	26	50	10,3	31,75	5461	9,6	11,2	29,09	5004	8,2

MCL 50

ROWS 4R	Air			Water 7/12°C				Water 8/13°			
	Volume m³/h	T.i. °C	U.R. %	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa
	4800	35	60	16,9	71,4	12272	33,3	17,6	67,9	11677	30,5
	4800	32	50	14,9	50,0	8597	17,7	15,7	49,9	8069	15,8
	4800	28	50	13,7	35,66	6134	9,7	14,5	32,82	5644	8,4
	4800	26	50	13,2	29,27	5034	6,8	13,8	26,62	4579	5,8

ROWS 6R	Air			Water 7/12°C				Water 8/13°			
	Volume m³/h	T.i. °C	U.R. %	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa
	4800	35	60	13,6	84,56	14545	21,9	14,4	81,03	13937	20,3
	4800	32	50	11,9	60,22	10359	12	12,8	57,1	9821	10,9
	4800	28	50	11,3	43,49	7480	6,7	12	40,63	6988	5,9
	4800	26	50	11,2	34,75	5978	4,5	12	31,46	5411	3,8

MCL 60

ROWS 4R	Air			Water 7/12°C				Water 8/13°			
	Volume m³/h	T.i. °C	U.R. %	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa
	6000	35	60	17	88,3	15189	51,4	17,8	84,1	14469	47,1
	6000	32	50	15,1	62,2	10696	27,5	15,7	58,9	10127	25
	6000	28	50	13,8	44,52	7658	15,2	14,5	41,32	7107	13,3
	6000	26	50	13,2	36,88	6343	10,9	13,9	33,61	5781	9,2

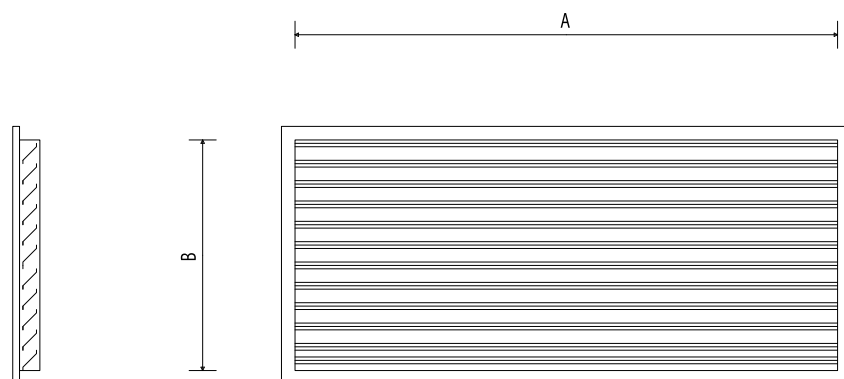
ROWS 6R	Air			Water 7/12°C				Water 8/13°			
	Volume m³/h	T.i. °C	U.R. %	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa	T.u. °C	Pot. kW	Pw. dm³/h	Dp W KPa
	6000	35	60	13,6	105,51	18148	34,3	14,4	101,18	17403	31,8
	6000	32	50	12	75,31	12953	18,8	13,1	70,12	12061	16,6
	6000	28	50	11,4	53,54	9210	10,2	12	51,17	8801	9,4
	6000	26	50	11,3	43,66	7509	7,1	12,1	39,58	6807	6,0

DESCRIPTION OF THE COMPONENTS

GR - Intake grille

The intake grille is made up of an aluminium frame and aluminium fixed fins.

Fin pitch: 25 mm.



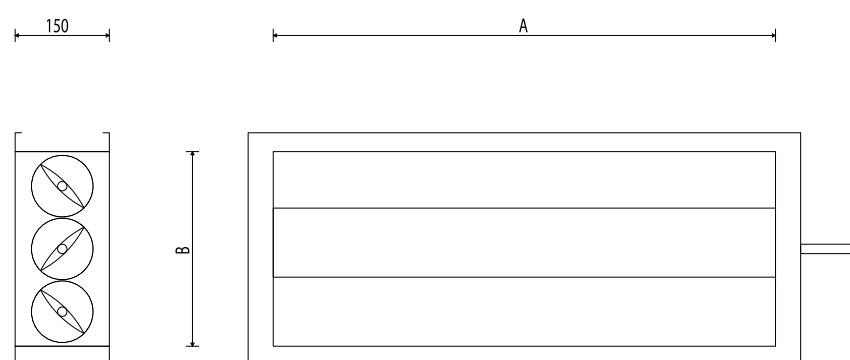
MODEL	10	20	30	40	50	60
A	640	990	1320	1600	1900	1920
B	300	300	300	300	370	370

Dimensions (mm)

SR - E.A.I. damper

This damper is made up of aluminium frame and aluminium fins. Opposite motion reinforced fins, nylon gears.

The reinforced fins are completed of a pin for the application of a manual control or an electric servo-control.



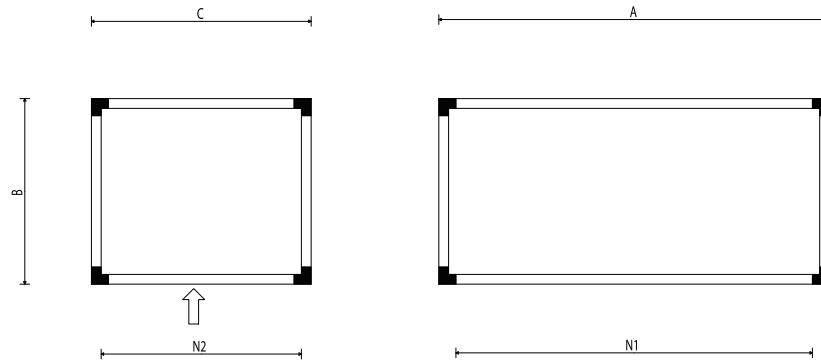
MODEL	10	20	30	40	50	60
A	640	1000	1330	1610	1900	1930
B	210	210	210	310	310	310

Dimensions (mm)

DESCRIPTION OF THE COMPONENTS

PA - Inlet plenum**PM - Outlet plenum**

This plenum is made up of 20 mm thick. Aluminium profile and panels as described before.



MODEL	10	20	30	40	50	60
A	710	1070	1400	1680	1900	2000
B	380	380	380	450	450	450
C	460	460	460	460	460	460
N1	670	1030	1360	1640	1740	1960
N2	420	420	420	420	420	420

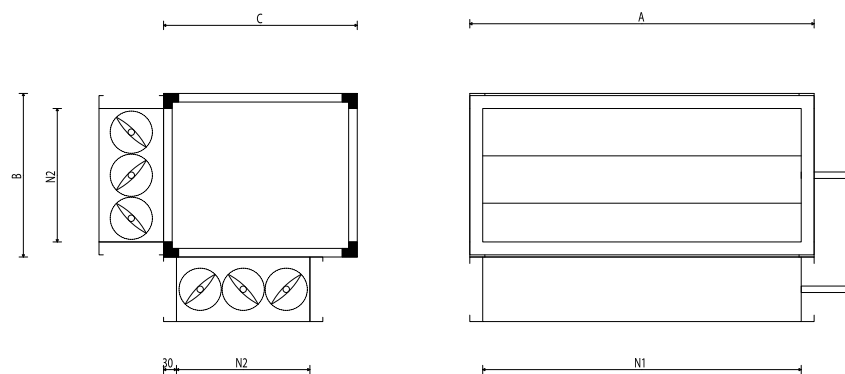
Dimensions (mm)

SM - Mix chamber with 2 dampers

The mix chamber is completed of 2 dampers (e.a.i. and room intake) that are made up of galvanised sheet frame and

aluminium

pins. The reinforced fins are completed of a pin for the application of a manual control or an electric servo-control.



MODEL	10	20	30	40	50	60
A	710	1070	1400	1680	1900	2000
B	380	380	380	450	450	450
D	460	460	460	460	460	460
N1	640	1000	1330	1610	1710	1930
N2	210	210	210	310	310	310

Dimensions (mm)

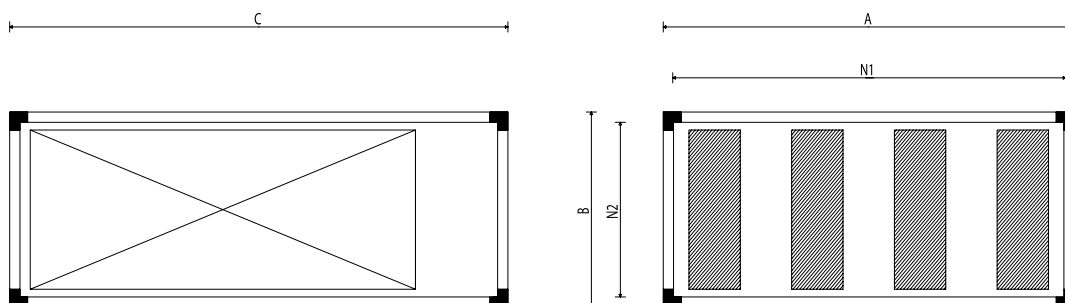
DESCRIPTION OF THE COMPONENTS

SILR - Inlet silencer

SILM - Outlet silencer

They are made up of an external shell with aluminium frame and 18 mm thick. Double panel. These silencers have in their internal side more than one 100 mm thick.

Sound absorbing baffles, which are made up of multiple layers of mineral fibres that are enclosed in a perforated galvanized steel sheet (L 700 mm).



MODEL	10	20	30	40	50	60
A	710	1070	1400	1680	1900	2000
B	380	380	380	450	450	450
C	900	900	900	960	960	960
N1	670	1030	1360	1640	1740	1960
N2	340	340	340	410	410	410

Dimensions (mm)

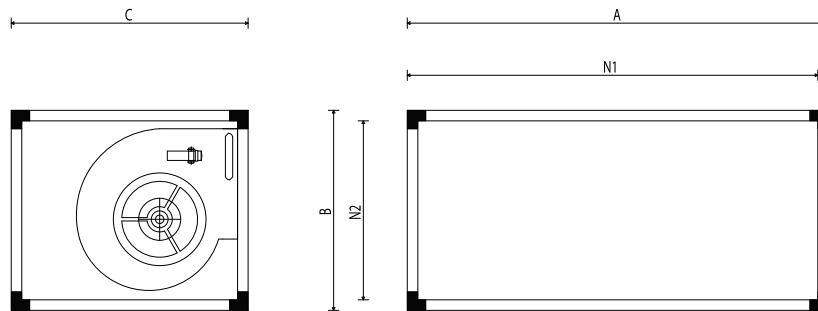
Acoustic attenuation

	Frequency Hz						
	63	125	250	500	1000	2000	4000
Attenuation	5	9	16	30	39	39	31

DESCRIPTION OF THE COMPONENTS

VR - Inlet fan

Plenum with inlet fan in a 18 mm thick. Double panel and fan as indicted in the basic unit.



MODEL	10	20	30	40	50	60
A	710	1070	1400	1680	1900	2000
B	380	380	380	450	450	450
C	460	460	460	460	460	460
N1	670	1030	1360	1640	1740	1960
N2	420	420	420	420	420	420

Dimensions (mm)

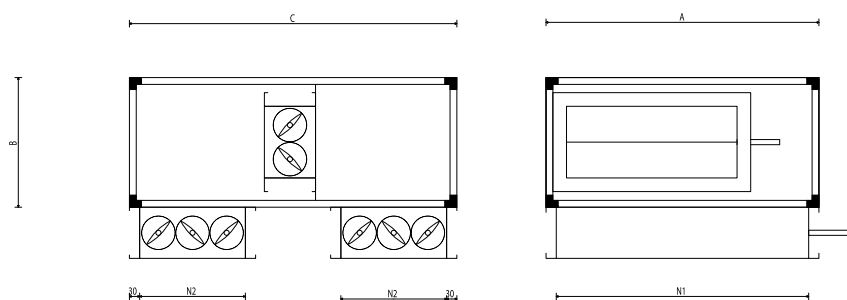
MODEL	10	20	30	40	50	60
Air flow - m³/h	1000	2000	2800	4000	4800	6000
Power at axle - W	370	740	740	1110	1110	1650
N. of fans - n.	1	2	2	2	3	3
Poles - n.	6	6	6	6	6	6
Max. sound pressure - dB(A)	69,3	69,3	70,3	69,1	69,1	69,1
Max. absorbed current - A	4,2	8,4	8,4	12	18	18
Engine speed	variable	variable	variable	variable	variable	variable
Protection grade - IP	54	54	54	54	54	54
Insulation class	F	F	F	F	F	F
Electric stoking - V/Ph/Hz	240/1/50	240/1/50	240/1/50	240/1/50	240/1/50	240/1/50

DESCRIPTION OF THE COMPONENTS

CM3 - Mix chamber with 3 dampers

This mix chamber is completed of n. 3 dampers (e.a.i. + by-pass + expulsion) which are made up of a galvanised sheet frame and aluminium fins. The opposite motion reinforced fins, nylon gears,

are completed of a pin for the application of a manual control or an electric servo-control.



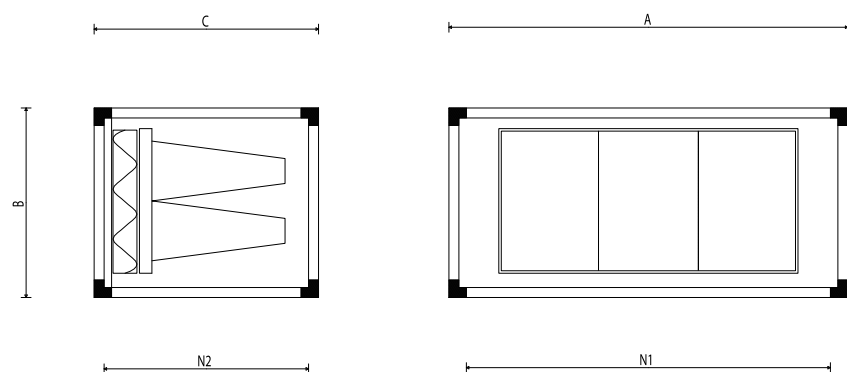
MODEL	10	20	30	40	50	60
A	710	1070	1400	1680	1900	2000
B	380	380	380	450	450	450
C	900	900	900	960	960	960
N1	640	1000	1330	1610	1710	1930
N2	210	210	210	310	310	310

Dimensions (mm)

FT - Bag filter

This section has been realised as first filtering stage, with corrugated filtering cells which are made up of polyester fibre, class G4 (min. Eff. 90% ponderal), of a metal frame and of an

electro welded control net. The second filtering stage includes hard bags filters, high efficiency, class F7 (medium eff. EN779 60%) which are made up of glass microfibre paper and plastic frame.



MODEL	10	20	30	40	50	60
A	710	1070	1400	1680	1900	2000
B	380	380	380	450	450	450
C	500	500	500	500	500	500
N1	670	1030	1360	1640	1740	1960
N2	390	390	390	460	460	460

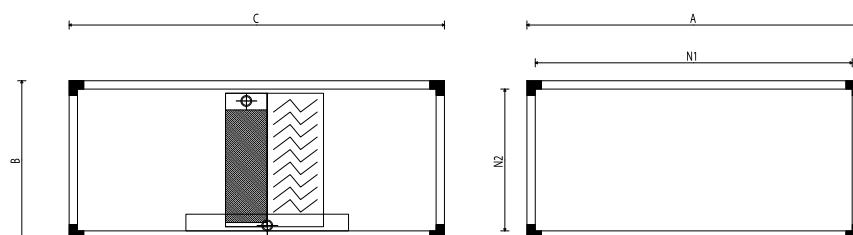
Dimensions (mm)

DESCRIPTION OF THE COMPONENTS

UP - Honeycombing pack humidifier

Humidification with not-returnable water and evaporating pack which is made up of cellulose that is impregnated with 10 mm

thick, phenolic resins. This section is completed of a 2 folds PVC drops separator and a galvanized steel sheet collection tank.



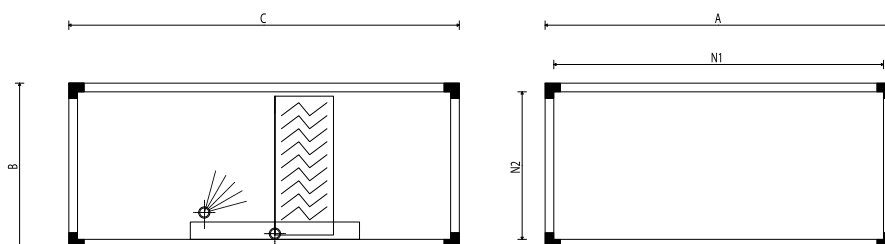
MODEL	10	20	30	40	50	60
A	710	1070	1400	1680	1900	2000
B	380	380	380	450	450	450
C	900	900	900	960	960	960
N1	670	1030	1360	1640	1740	1960
N2	340	340	340	410	410	410

Dimensions (mm)

UV - Steam humidification

This section is prearranged for steam humidification; this predisposition consists of the supplying of a stainless steel distribution lance ($\varnothing$ 30; suitable lenght) for each unit.

This section is completed of a 2 folds PVC drops separator and a galvanized steel sheet collection tank.

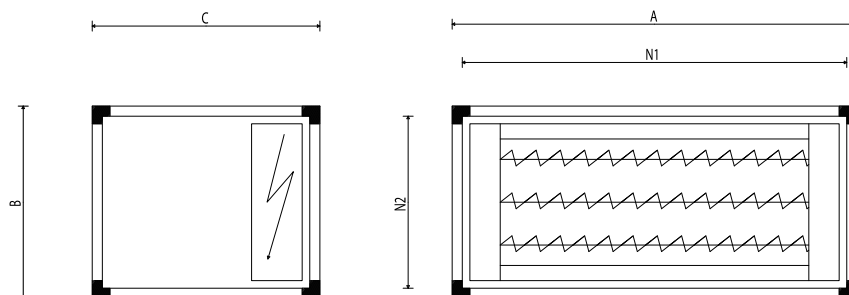


MODEL	10	20	30	40	50	60
A	710	1070	1400	1680	1900	2000
B	380	380	380	450	450	450
C	900	900	900	960	960	960
N1	670	1030	1360	1640	1740	1960
N2	340	340	340	410	410	410

Dimensions (mm)

DESCRIPTION OF THE COMPONENTS

BE - Electric after-heating



MODEL	10	20	30	40	50	60
A	710	1070	1400	1680	1900	2000
B	380	380	380	450	450	450
C	450	450	450	450	450	450
N1	670	1030	1360	1640	1740	1960
N2	340	340	340	410	410	410

Dimensions (mm)

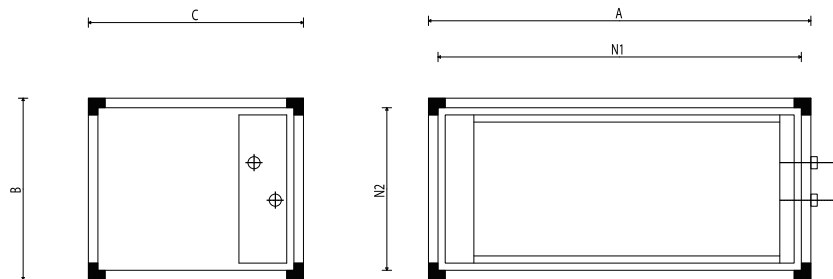
Coil data

The electric coil are constructed with armoured resistances, with galvanised sheet frame, connection board and safety thermostat.

MODEL	10	20	30	40	50	60
Nominal power - kW	3,5	6,5	10	13	16,5	20
Phases	1	1	2	2	2	2
Elec. stoking - V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Leaving air temperature	25	25	25	25	25	25

It is calculated with entering air temperature = 15°C

DESCRIPTION OF THE COMPONENTS

BA - Water after-heating

MODEL	10	20	30	40	50	60
A	710	1070	1400	1680	1900	2000
B	380	380	380	450	450	450
C	450	450	450	450	450	450
N1	670	1030	1360	1640	1740	1960
N2	340	340	340	410	410	410

Dimensions (mm)

Coil data

The Copper - Aluminium extractable water heating coil is mechanically expanded. Its frame is made up of galvanised steel sheet and its manifolds are made of steel with threaded connections. This coil is tested in water with dry air at a 30 Ate pressure.

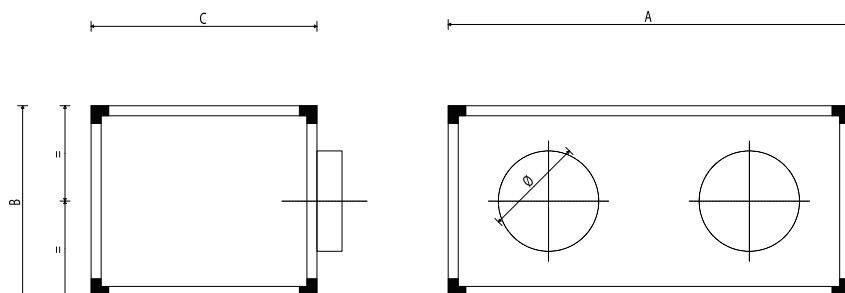
MODEL	10	20	30	40	50	60
Water flow - m ³ /h	1000	2000	2800	4000	4800	6000
Rows	2 2	2 2	2 2	2 2	2 2	2 2
In/out water temp. - °C	70/60 45/40	70/60 45/40	70/60 45/40	70/60 45/40	70/60 45/40	70/60 45/40
Entering air temp. = 15°C						
Out air temp. °C	43,7 30,4	43,8 30,6	43,4 30,4	45,6 31,6	42,1 29,6	42,6 29,9
Water flow l/h	810 869	1602 1728	2586 2802	3674 3991	4107 4425	4799 5180
Power kW	9,4 5,04	18,6 10,0	30,0 16,3	42,6 23,1	47,6 25,7	55,7 30,0

DESCRIPTION OF THE COMPONENTS

PMV/PMF - Outlet plenum for flexible ducts

It is made up of a 20 mm thick aluminium frame and panel as indicated before.

The plenum is completed of galvanised sheet collars for the connection to flexible ducts Ø 200 mm.



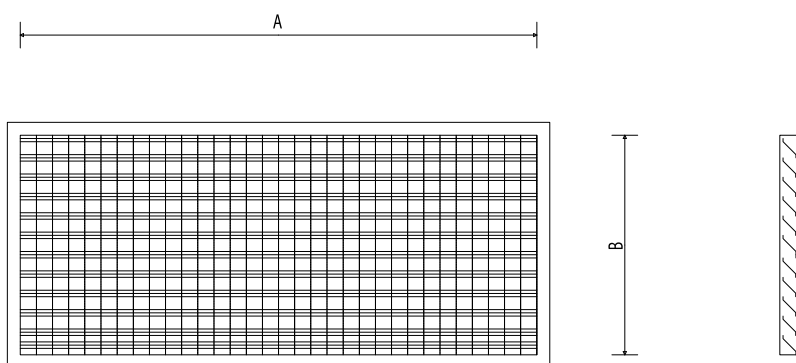
MODEL	10	20	30	40	50	60
A	710	1070	1400	1680	1900	2000
B	380	380	380	450	450	450
C	450	450	450	450	450	450
N. of collars	2	3	3	4	5	6
Diametre	200	200	200	200	200	200

Dimensions (mm)

BM - Outlet small opening

The outlet small opening is composed of an aluminium frame and aluminium double row fins.

Fin pitch: 25 mm



MODEL	10	20	30	40	50	60
A	640	990	1320	1600	1700	1920
B	300	300	300	300	370	370

Dimensions (mm)

DESCRIPTION OF THE COMPONENTS

MCL 10

PERFORMANCE CURVES		A	B	C	D	E	F (2)	G (2)	H (2)
Air flow rate	m³/h	650	750	850	950	1000	1200	1400	1600
Static pressure (1)	Pa	620	567	526	517	491	469	431	392
Signal to inverter	Volt	0,28	1,4	1,9	2,5	3	3,6	4,2	4,8
Sound pressure level (2)	dB(A)	69	69	70	69	69	70	69	69

LOAD DROP		A	B	C	D	E	F	G	H
Basic Unit 2R	Pa	74	82	90	99	106	124	144	165
Basic Unit 4R	Pa	89	100	113	126	134	164	195	228
Basic Unit 6R	Pa	103	122	142	150	161	200	243	288
Basic Unit 2R+4R	Pa	103	118	135	153	164	204	247	293
Basic Unit 2R+6R	Pa	117	136	156	177	191	240	295	353
Basic Unit 4R+6R	Pa	132	154	179	204	219	280	346	n.d.
GR Grid	Pa	10	10	12	12	15	17	25	35
SR Damper	Pa	10	10	12	12	15	17	25	35
SM Mixing box 2 dampers	Pa	11	11	13	13	16	18	26	37
SILR/SILM Sound attenuator	Pa	10	14	18	22	24	32	40	48
CM3 Mixing box 3 dampers	Pa	12	12	14	14	17	20	29	40
FT Bag Filter	Pa	20	30	35	40	45	55	65	75
UP Honeycomb pack humidifier	Pa	14	14	21	28	35	47	60	82
UV Steam humidification	Pa	4	4	6	8	10	12	15	27
BE Re-heating electric coil	Pa	10	11	12	13	14	15	16	17
BA Re-heating water coil	Pa	14	18	22	27	30	40	52	65
PMF Supply plenum	Pa	10	10	11	11	11	12	13	14
BM Supply small opening	Pa	11	11	13	13	16	18	26	37

MCL 20

PERFORMANCE CURVES		A	B	C	D	E	F (2)	G (2)	H (2)
Air flow rate	m³/h	1300	1500	1700	1900	2000	2400	2800	3200
Static pressure (1)	Pa	569	522	482	475	452	430	396	360
Signal to inverter	Volt	0,28	1,4	1,9	2,5	3	3,6	4,2	4,8
Sound pressure level (2)	dB(A)	69	69	70	69	69	70	69	69

LOAD DROP		A	B	C	D	E	F	G	H
Basic Unit 2R	Pa	85	98	107	121	124	149	175	199
Basic Unit 4R	Pa	122	144	162	184	192	236	284	330
Basic Unit 6R	Pa	132	155	176	202	211	263	324	388
Basic Unit 2R+4R	Pa	139	166	189	217	228	285	347	409
Basic Unit 2R+6R	Pa	149	177	203	235	247	312	387	n.d.
Basic Unit 4R+6R	Pa	186	223	258	298	315	399	n.d.	n.d.
GR Grid	Pa	10	12	15	20	20	30	40	50
SR Damper	Pa	10	12	15	20	20	30	40	50
SM Mixing box 2 dampers	Pa	11	13	16	21	21	32	42	53
SILR/SILM Sound attenuator	Pa	12	16	20	24	26	34	42	52
CM3 Mixing box 3 dampers	Pa	12	14	17	23	23	35	46	58
FT Bag Filter	Pa	35	40	50	55	60	70	85	100
UP Honeycomb pack humidifier	Pa	21	28	35	42	49	63	92	110
UV Steam humidification	Pa	6	8	10	12	14	18	27	30
BE Re-heating electric coil	Pa	12	14	15	15	16	17	18	20
BA Re-heating water coil	Pa	17	22	27	33	36	49	63	79
PMF Supply plenum	Pa	13	14	15	15	16	17	19	20
BM Supply small opening	Pa	11	13	16	21	21	32	42	53

(1) The external static pressure will be determined subtracting to the total static pressure, the pressure drops of the various components;

(2) Don't use this airflow on units with cooling coil



LOAD DROP

MCL 30

PERFORMANCE CURVES	A	B	C	D	E	F	G	H (2)	
Air flow rate	m³/h	1300	1500	1700	1900	2000	2400	2800	3200
Static pressure (1)	Pa	569	522	482	475	452	430	396	360
Signal to inverter	Volt	0,28	1,4	1,9	2,5	3	3,6	4,2	4,8
Sound pressure level (2)	dB(A)	69	69	70	69	69	70	70	69

LOAD DROP	A	B	C	D	E	F	G	H	
Basic Unit 2R	Pa	70	76	83	91	96	112	128	145
Basic Unit 4R	Pa	91	103	115	129	138	166	195	225
Basic Unit 6R	Pa	98	111	125	139	149	180	213	249
Basic Unit 2R+4R	Pa	101	115	130	148	158	194	231	270
Basic Unit 2R+6R	Pa	108	123	140	158	169	208	249	294
Basic Unit 4R+6R	Pa	129	150	172	196	211	262	316	n.d.
GR Grid	Pa	10	10	10	12	12	17	25	30
SR Damper	Pa	10	10	10	12	12	17	25	30
SM Mixing box 2 dampers	Pa	11	11	11	13	13	18	26	32
SILR/SILM Sound attenuator	Pa	10	16	20	24	26	34	42	50
CM3 Mixing box 3 dampers	Pa	12	12	12	14	14	20	29	35
FT Bag Filter	Pa	20	30	35	40	45	55	65	75
UP Honeycomb pack humidifier	Pa	14	21	28	35	42	55	71	102
UV Steam humidification	Pa	4	6	8	10	12	15	21	27
BE Re-heating electric coil	Pa	10	11	12	13	14	15	16	17
BA Re-heating water coil	Pa	10	12	15	19	20	28	36	45
PMF Supply plenum	Pa	10	10	10	11	11	12	13	14
BM Supply small opening	Pa	11	11	11	13	13	18	26	32

MCL 40

PERFORMANCE CURVES	A	B	C	D	E	F (2)	G (2)	H (2)	
Air flow rate	m³/h	1600	2600	3200	3600	4200	4600	4900	5200
Static pressure (1)	Pa	604	588	580	570	452	411	350	335
Signal to inverter	Volt	0,28	1,4	1,9	2,5	3	3,6	4,2	4,8
Sound pressure level (2)	dB(A)	67	67	68	68	69	70	69	72

LOAD DROP	Ai	B	C	D	E	F	G	H	
Basic Unit 2R	Pa	67	91	110	119	132	152	161	170
Basic Unit 4R	Pa	81	122	153	169	191	224	239	254
Basic Unit 6R	Pa	87	132	164	183	207	244	261	280
Basic Unit 2R+4R	Pa	88	137	175	196	223	264	284	304
Basic Unit 2R+6R	Pa	94	147	186	210	239	284	306	n.d.
Basic Unit 4R+6R	Pa	108	178	229	260	298	356	n.d.	n.d.
GR Grid	Pa	10	10	12	15	15	20	20	25
SR Damper	Pa	10	10	12	15	15	20	20	25
SM Mixing box 2 dampers	Pa	11	11	13	16	16	21	21	26
SILR/SILM Sound attenuator	Pa	10	12	20	24	28	34	38	42
CM3 Mixing box 3 dampers	Pa	12	12	14	17	17	23	23	29
FT Bag Filter	Pa	20	45	55	65	70	85	92	100
UP Honeycomb pack humidifier	Pa	14	21	33	42	49	60	68	82
UV Steam humidification	Pa	4	6	8	12	14	15	18	27
BE Re-heating electric coil	Pa	10	14	15	16	17	18	19	19
BA Re-heating water coil	Pa	7	15	22	27	32	40	45	50
PMF Supply plenum	Pa	10	11	13	13	13	14	14	15
BM Supply small opening	Pa	11	11	13	16	16	21	21	26

(1) The external static pressure will be determined subtracting to the total static pressure, the pressure drops of the various components

(2) Don't use this airflow on units with cooling coil

LOAD DROP

MCL 50

PERFORMANCE CURVES		A	B	C	D	E	F (2)	G (2)	H (2)
Air flow rate	m³/h	2400	3900	4800	5400	6200	6900	7350	7800
Static pressure (1)	Pa	555	540	532	523	452	378	321	308
Signal to inverter	Volt	0,28	1,4	1,9	2,5	3	3,6	4,2	4,8
Sound pressure level (2)	dB(A)	67	67	69	68	69	70	70	72

LOAD DROP		A	B	C	D	E	F	G	H
Basic Unit 2R	Pa	80	115	139	155	172	194	202	210
Basic Unit 4R	Pa	104	167	207	236	266	309	n.d.	n.d.
Basic Unit 6R	Pa	112	180	227	260	296	354	n.d.	n.d.
Basic Unit 2R+4R	Pa	116	194	246	283	322	n.d.	n.d.	n.d.
Basic Unit 2R+6R	Pa	124	207	266	307	352	n.d.	n.d.	n.d.
Basic Unit 4R+6R	Pa	148	259	334	388	446	n.d.	n.d.	n.d.
GR Grid	Pa	10	12	17	25	30	40	45	45
SR Damper	Pa	10	12	17	25	30	40	45	45
SM Mixing box 2 dampers	Pa	11	13	18	26	32	42	47	47
SILR/SILM Sound attenuator	Pa	10	26	34	42	48	58	62	66
CM3 Mixing box 3 dampers	Pa	12	14	20	29	35	46	52	52
FT Bag Filter	Pa	35	60	75	85	100	130	130	145
UP Honeycomb pack humidifier	Pa	14	42	55	68	92	110	118	129
UV Steam humidification	Pa	4	12	15	18	27	30	33	39
BE Re-heating electric coil	Pa	12	15	17	18	19	20	21	22
BA Re-heating water coil	Pa	12	27	39	47	56	70	78	86
PMF Supply plenum	Pa	11	13	14	14	15	15	16	16
BM Supply small opening	Pa	11	13	18	26	32	42	47	47

MCL 60

PERFORMANCE CURVES		A	B	C	D	E	F (2)	G (2)	H (2)
Air flow rate	m³/h	2400	3900	4800	5400	6000	6900	7350	7800
Static pressure (1)	Pa	555	540	532	523	452	378	321	308
Signal to inverter	Volt	0,28	1,4	1,9	2,5	3	3,6	4,2	4,8
Sound pressure level (2)	dB(A)	67	67	68	68	69	70	70	72

LOAD DROP		A	B	C	D	E	F	G	H
Basic Unit 2R	Pa	77	110	131	145	161	180	186	193
Basic Unit 4R	Pa	97	152	188	213	238	274	290	305
Basic Unit 6R	Pa	104	163	203	231	261	305	n.d.	n.d.
Basic Unit 2R+4R	Pa	106	174	219	250	283	330	n.d.	n.d.
Basic Unit 2R+6R	Pa	113	185	234	268	306	361	n.d.	n.d.
Basic Unit 4R+6R	Pa	133	227	291	336	383	n.d.	n.d.	n.d.
GR Grid	Pa	10	12	15	20	25	30	35	40
SR Damper	Pa	10	12	15	20	25	30	35	40
SM Mixing box 2 dampers	Pa	11	13	16	21	26	32	37	42
SILR/SILM Sound attenuator	Pa	10	22	30	36	42	50	54	60
CM3 Mixing box 3 dampers	Pa	12	14	17	23	29	35	40	46
FT Bag Filter	Pa	35	60	75	85	100	130	130	145
UP Honeycomb pack humidifier	Pa	14	35	49	55	68	92	105	118
UV Steam humidification	Pa	4	10	14	15	18	27	30	33
BE Re-heating electric coil	Pa	12	15	17	18	19	20	21	22
BA Re-heating water coil	Pa	9	22	31	37	45	56	62	69
PMF Supply plenum	Pa	11	13	14	14	15	15	16	16
BM Supply small opening	Pa	11	13	16	21	26	32	37	42

(1) The external static pressure will be determined subtracting to the total static pressure, the pressure drops of the various components

(2) Don't use this airflow on units with cooling coil

ELECTRIC CONNECTIONS

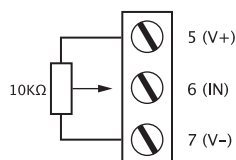
Fan with directly coupled engine constant air flow

The electronic motor is equipped with inverter programmed to maintain a constant flow selectable between 8 preset values depending on the model.

Controls

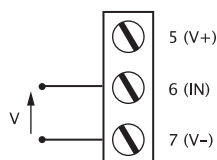
- Standard Control through the signal +5 volts this on the engine modulated through the potentiometer supplied as standard with which it is possible to select the range between the 8 available.
- At the request in the send order phase, possibility of control through signal 0-10 Volts or 4-20 mA supplied by thermoregulation Score, with which manage the automatic flow between the 8 available.

Connection outline of control signal



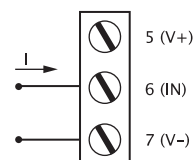
Dip 1 = ON; Dip 2 = OFF; Dip 3 = OFF

Fig. 1



Dip 1 = OFF; Dip 2 = ON; Dip 3 = OFF

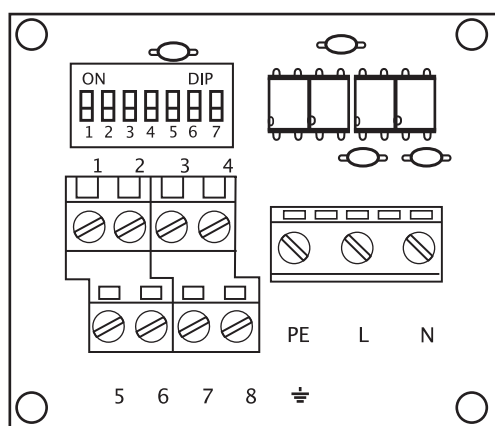
Fig. 2



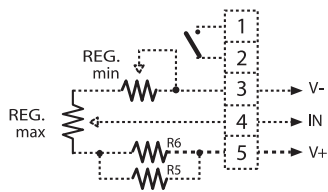
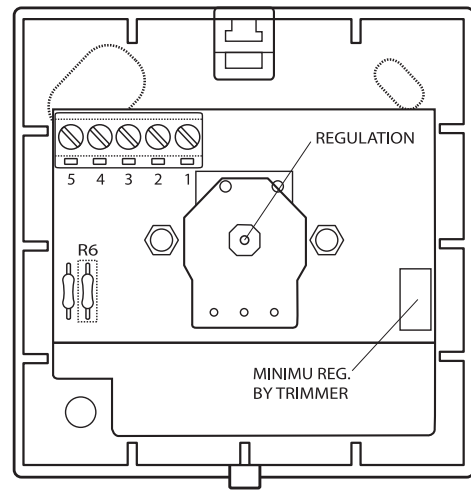
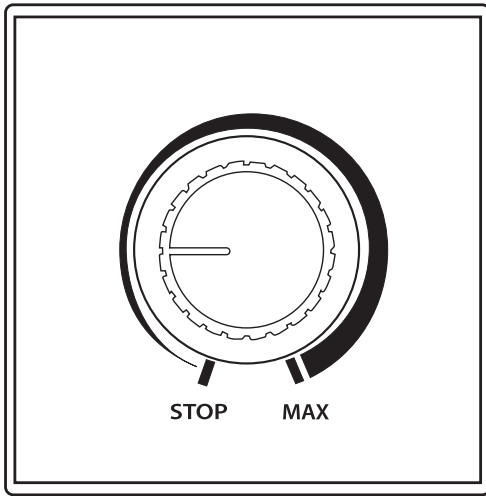
Dip 1 = OFF; Dip 2 = OFF; Dip 3 = ON

Fig. 3

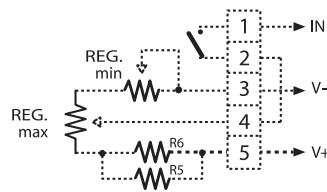
Electric connections schedule



CONNECTION OUTLINE WITH POTENTIOMETER



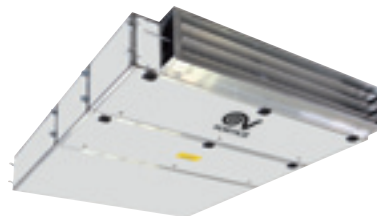
WITHOUT STOP FUNCTION



WITH STOP FUNCTION

CONTROL	CONTROL	STATE OF R6
SUPPLY	V+ 10V max	
MINIMUM	Vmin 0 + 0.5 V+	CONNECT
REGULATOR	IN Vmin + V+	
MAXIMUM	Vmax 0.5 V+	OPEN
REGULATOR	IN 0 + Vmax	

- IN and V+ are referred to V-
- Impedance between IN and V- must be bigger than 50 Kohn



MCL Quotation Table

Air volume [m³/h]

T.S.P. [Pa]

INDICATE CONFIGURATION:

Connections side:

SELECT COMPONENTS AND ACCESSORIES:

Pressure drops
[Pa]

Price List
[€]

[BAC] Heating coil

Rows

[BAF] Cooling coil

Rows

[GR] Grid

[SR] Damper

[SM] Mixing box with 2 dampers

[SILR] Return sound attenuator

[SILM] Supply sound attenuator

[CM3] Mixing box with 3 dampers

[FT] Bag filter

[UP] Honeycomb pack humidifier

[UV] Steam humidification

[BE] Re-heating electric coil

[BA] Re-heating water coil

[PMF] Supply plenum

[BM] Supply small opening

[CM] Manual control for damper

[n° pieces]

EXTERNAL STATIC PRESSURE (*): Pa

TOTAL PRICE LIST: €

(*) The external static pressure is determined subtracting to the total static pressure, the pressure drops of the various components