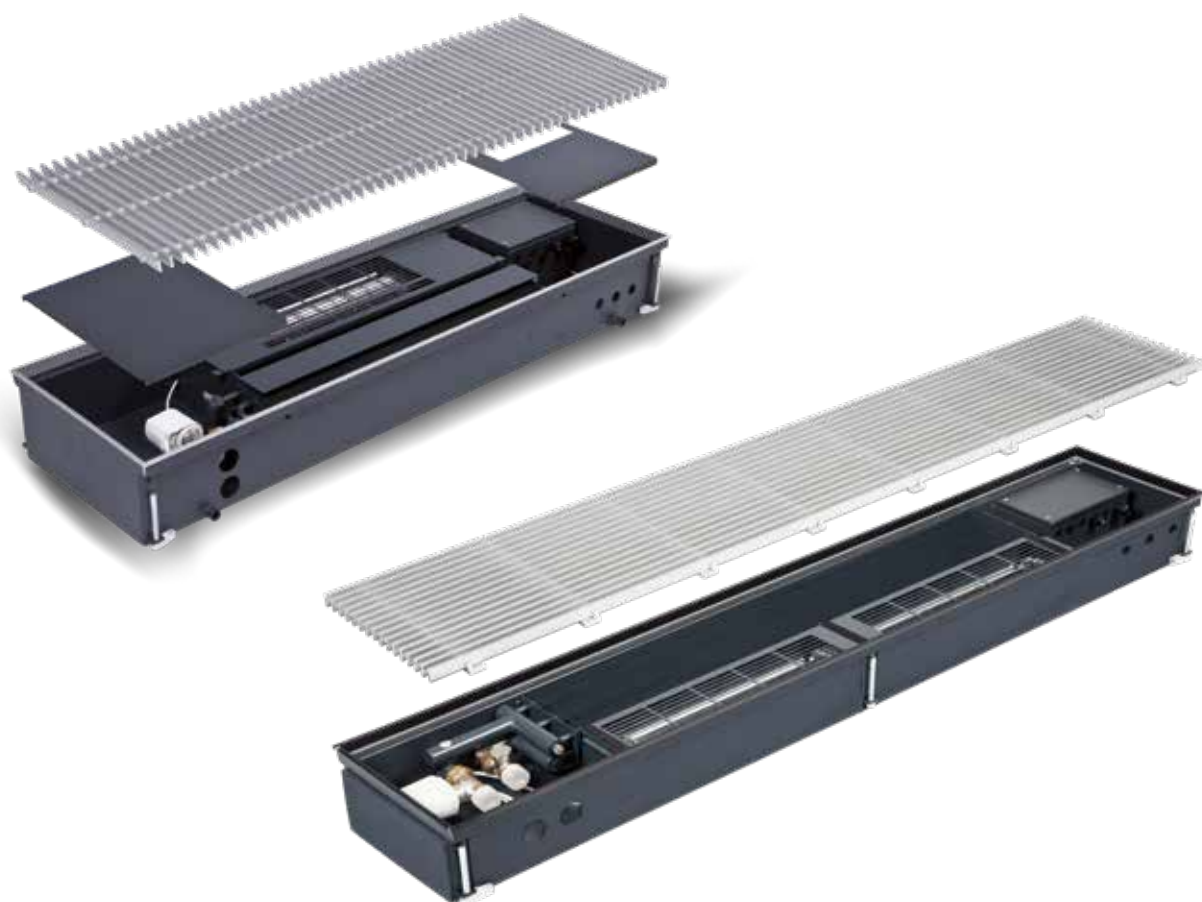




Carisma Floor CFP-ECM, and CRP-ECM

Trench Convector Units

TECHNICAL LEAFLET

Carisma Floor CFP-ECM

Trench Convactor Unit



Cooling and Heating

Carisma Floor CFP-ECM trench convectors represent a combination of innovative aesthetics and functionality in an air conditioning system.

They are designed to **efficiently heat, cool** and **ventilate** buildings with large windows or doors.

The air flow skims the window in such a way that the units can be placed where people leave. In doing so the design flexibility is increased.

The wide range of models includes **solutions which can be customised** depending on architectural requirements with diffusion grids in a variety of materials and colours.

The standard lengths available are 7, in 2 or 4 pipe versions. It is possible to adapt the thermal and sound performances to every design requirements, thanks to the innovative fan coil group modularity.

Several combinations are available: out of standard lengths of 50 mm pitch included

All the units are supplied with low energy consumption electronic motors.

A large variety of control and regulation accessories is available.

Floor trench convectors are used inside **private homes, on verandas, in public offices and buildings and in exhibition and commercial areas.**

CFP-ECM 130-330



CFP-ECM 175-350



Walkable **floor casing**, in galvanised steel sheet, coated with Anthracite grey (RAL 7016) powder paint, with external height adjustable system preassembled with an antivibrating device. Condensate collection tray integrated in floor casing, including two frontal connections along the drain side Ø15 mm.

Coil consisting of copper pipes and aluminium fins, painted Anthracite grey (RAL 7016) and housed, with acoustic decoupling, in transversal galvanised and painted steel frame. Euroconus connection, front or lateral side, with connection nut (int. thread .") and air venting.

Tangential fan, with protective cover, 24V EC motors freely adjustable (0 – 10 V) pre-wired and ready for connection.

Aluminium roll-up grid consisting of stable profiles, anodised in natural colours, with 20 x 6 mm slats. Grid with overall height of 20 mm and free 70% transversal section, inserted in floor casing and acoustically insulated by rubber gaskets. Perimeter listel with finish similar to the cover grid (except for the wooden grids).

Mounting protective wooden cover with a **protective profile** of the perimeter listels to protect the fan coils during installation.

The Carisma CFP-ECM units are supplied without regulation board (accessory available in the "Controls and Accessories" section).

CFP-ECM 2T version

Standard versions

7 Lengths with width: 330 mm and height 130 mm: 900 - 1200 - 1400 - 1700 - 2000 - 2500 - 3000

7 Lengths with width: 350 mm and height 175 mm: 1000 - 1200 - 1400 - 1700 - 2000 - 2500 - 3000

Special lengths on request (50 mm pitch)

Aluminium roll-up grid.

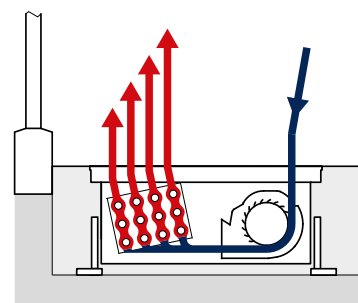
Identifications and models

Dimensions			Model
Casing Length L (mm)	Casing Height H (mm)	Casing Width T (mm)	
900	130	330	CFP-ECM 2T 900-130-330
1000	175	350	CFP-ECM 2T 1000-175-350
1200	130	330	CFP-ECM 2T 1200-130-330
	175	350	CFP-ECM 2T 1200-175-350
1400	130	330	CFP-ECM 2T 1400-130-330
	175	350	CFP-ECM 2T 1400-175-350
1700	130	330	CFP-ECM 2T 1700-130-330
	175	350	CFP-ECM 2T 1700-175-350
2000	130	330	CFP-ECM 2T 2000-130-330
	175	350	CFP-ECM 2T 2000-175-350
2500	130	330	CFP-ECM 2T 2500-130-330
	175	350	CFP-ECM 2T 2500-175-350
3000	130	330	CFP-ECM 2T 3000-130-330
	175	350	CFP-ECM 2T 3000-175-350

Operating principle

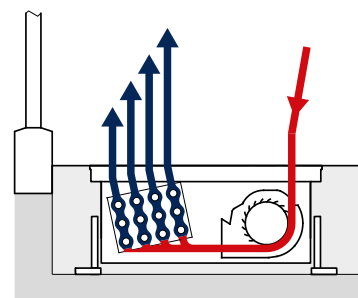
Forced heating convection

The cold air which skims the windows is suctioned and heated by the coil.
The heated air rises, creating a curtain.



Forced cooling convection

Installation in front of the window surfaces efficiently contrasts the diffusion of heat due to solar radiation.



Version CFP-ECM 4T

Standard versions

7 Lengths with width: 330 mm and height 130 mm: 900 - 1200 - 1400 - 1700 - 2000 - 2500 - 3000

7 Lengths with width: 350 mm and height 175 mm: 1000 - 1200 - 1400 - 1700 - 2000 - 2500 - 3000

Special lengths on request (50 mm pitch)

Aluminium roll-up grid.

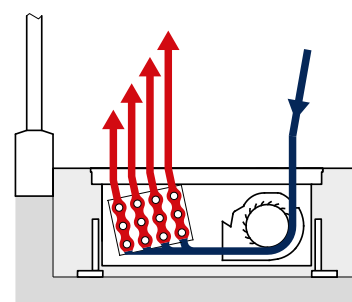
Identifications and models

Dimensions			Model
Casing Length L (mm)	Casing Height H (mm)	Casing Width T (mm)	
900	130	330	CFP-ECM 4T 900-130-330
1000	175	350	CFP-ECM 4T 1000-175-350
1200	130	330	CFP-ECM 4T 1200-130-330
	175	350	CFP-ECM 4T 1200-175-350
1400	130	330	CFP-ECM 4T 1400-130-330
	175	350	CFP-ECM 4T 1400-175-350
1700	130	330	CFP-ECM 4T 1700-130-330
	175	350	CFP-ECM 4T 1700-175-350
2000	130	330	CFP-ECM 4T 2000-130-330
	175	350	CFP-ECM 4T 2000-175-350
2500	130	330	CFP-ECM 4T 2500-130-330
	175	350	CFP-ECM 4T 2500-175-350
3000	130	330	CFP-ECM 4T 3000-130-330
	175	350	CFP-ECM 4T 3000-175-350

Operating principle

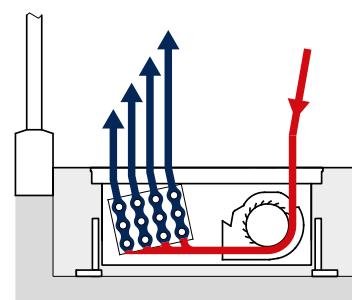
Forced heating convection

The cold air which skims the windows is suctioned and heated by the coil.
The heated air rises, creating a curtain.



Forced cooling convection

Installation in front of the window surfaces efficiently contrasts the diffusion of heat due to solar radiation.



Carisma Floor CFP-ECM | CONSTRUCTION FEATURES

CFP-ECM 2T version

Casing length 900 mm

Casing height 130 mm

2 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 2T 900-130-330			
Casing length L	mm	900			
Casing width T	mm	330			
Fan motor drive signal EC	V	3	5	7	10
Air flow QV	m ³ /h	80	143	193	229
Cooling sensible emission: ΔT_m 17,5 K – 7/12 °C	(Sensible emission) W	199	517	705	830
Cooling sensible emission: ΔT_m 12,5 K – 12/17 °C	(ensible emission) W	164	357	515	651
Cooling sensible emission: ΔT_m 10,0 K – 16/18 °C	(ensible emission) W	145	283	407	507
Sound power L_w	dB(A)	29	36	47	57
Sound pressure L_p (*)	dB(A)	20	27	38	48
Weight M	kg	17,33			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 2T 900-130-330			
Casing length L	mm	900			
Casing width T	mm	330			
Fan motor drive signal EC	V	3	5	7	10
Air flow QV	m ³ /h	80	143	193	229
Heating sensible emission: ΔT_m 50,0 K – 75/65 °C	W	899	1588	2278	3024
Heating sensible emission: ΔT_m 30,0 K – 55/45 °C	W	536	947	1358	1804
Heating sensible emission: ΔT_m 22,5 K – 45/40 °C	W	404	714	1024	1360
Sound power L_w	dB(A)	29	36	47	57
Sound pressure L_p (*)	dB(A)	20	27	38	48
Weight M	kg	17,33			

(*) = 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.

CONSTRUCTION FEATURES

CFP-ECM 2T version

Casing length 1000 mm

Casing height 175 mm

2 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 2T 1000-175-350			
Casing length L	mm	1000			
Casing width T	mm	350			
Fan motor drive signal EC	V	3	5	7	10
Air flow QV	m³/h	204	279	347	455
Cooling sensible emission: ΔT_m 17,5 K – 7/12 °C	(Sensible emission) W	568	842	1057	1510
Cooling sensible emission: ΔT_m 12,5 K – 12/17 °C	(Sensible emission) W	454	621	806	1012
Cooling sensible emission: ΔT_m 10,0 K – 16/18 °C	(Sensible emission) W	404	617	825	1067
Sound power L_w	dB(A)	38	43	49	58
Sound pressure L_p (*)	dB(A)	29	34	40	49
Weight M	kg	21,13			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 2T 1000-175-350			
Casing length L	mm	1000			
Casing width T	mm	350			
Fan motor drive signal EC	V	3	5	7	10
Air flow QV	m³/h	204	279	347	455
Heating sensible emission: ΔT_m 50,0 K – 75/65 °C	W	2322	3165	3988	5187
Heating sensible emission: ΔT_m 30,0 K – 55/45 °C	W	1385	1887	2379	3093
Heating sensible emission: ΔT_m 22,5 K – 45/40 °C	W	1044	1423	1793	2332
Sound power L_w	dB(A)	38	43	49	58
Sound pressure L_p (*)	dB(A)	29	34	40	49
Peso M	kg	21,13			

(*) = 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

Carisma Floor CFP-ECM | CONSTRUCTION FEATURES

CFP-ECM 2T version

Casing length **1200 mm**

Casing height **130 mm / 175 mm**

2 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 2T 1200-130-330				CFP-ECM 2T 1200-175-350			
Casing length L	mm	1200				1200			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m ³ /h	125	231	323	373	264	370	460	607
Cooling sensible emission: ΔTm 17,5 K – 7/12 °C	(Sensible emission) W	309	835	1178	1351	735	1116	1404	2015
Cooling sensible emission: ΔTm 12,5 K – 12/17 °C	(Sensible emission) W	255	576	860	1060	588	823	1071	1350
Cooling sensible emission: ΔTm 10,0 K – 16/18 °C	(Sensible emission) W	226	456	681	826	523	818	1095	1424
Sound power L_w	dB(A)	30	38	49	56	35	41	48	57
Sound pressure L_p (*)	dB(A)	21	29	40	47	26	32	39	48
Weight M	kg	22,18				24,94			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 2T 1200-130-330				CFP-ECM 2T 1200-175-350			
Casing length L	mm	1200				1200			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m ³ /h	125	231	323	373	264	370	460	607
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	1561	2799	4006	4736	3190	4348	5479	7126
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	931	1669	2389	2825	1902	2593	3268	4250
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	702	1259	1801	2130	1434	1955	2464	3204
Sound power L_w	dB(A)	30	38	49	56	35	41	48	57
Sound pressure L_p (*)	dB(A)	21	29	40	47	26	32	39	48
Weight M	kg	22,18				24,94			

(*) = 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.

CONSTRUCTION FEATURES

CFP-ECM 2T version

Casing length **1400 mm**

Casing height **130 mm / 175 mm**

2 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 2T 1400-130-330				CFP-ECM 2T 1400-175-350			
Casing length L	mm	1400				1400			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m³/h	158	284	396	432	290	412	513	678
Cooling sensible emission: ΔTm 17,5 K – 7/12 °C	(Sensible emission) W	390	1027	1448	1564	806	1242	1563	2250
Cooling sensible emission: ΔTm 12,5 K – 12/17 °C	(Sensible emission) W	322	708	1058	1227	645	915	1193	1508
Cooling sensible emission: ΔTm 10,0 K – 16/18 °C	(Sensible emission) W	285	561	837	956	573	911	1220	1591
Sound power L_w	dB(A)	32	39	50	56	33	40	47	57
Sound pressure L_p (*)	dB(A)	23	30	41	47	24	31	38	48
Weight M	kg	25,75				28,04			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 2T 1400-130-330				CFP-ECM 2T 1400-175-350			
Casing length L	mm	1400				1400			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m³/h	158	284	396	432	290	412	513	678
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	1968	3529	4985	5655	3624	4939	6225	8095
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	1174	2105	2973	3373	2161	2946	3713	4828
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	885	1587	2241	2543	1629	2221	2799	3640
Sound power L_w	dB(A)	32	39	50	56	33	40	47	57
Sound pressure L_p (*)	dB(A)	23	30	41	47	24	31	38	48
Weight M	kg	25,75				28,04			

(*) = 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.

Carisma Floor CFP-ECM | CONSTRUCTION FEATURES

CFP-ECM 2T version

Casing length 1700 mm

Casing height 130 mm / 175 mm

2 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 2T 1700-130-330				CFP-ECM 2T 1700-175-350			
Casing length L	mm	1700				1700			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m ³ /h	191	353	471	489	382	560	699	930
Cooling sensible emission: ΔTm 17,5 K – 7/12 °C	(Sensible emission) W	474	1276	1719	1770	1062	1689	2131	3086
Cooling sensible emission: ΔTm 12,5 K – 12/17 °C	(Sensible emission) W	391	880	1256	1389	849	1245	1625	2068
Cooling sensible emission: ΔTm 10,0 K – 16/18 °C	(Sensible emission) W	346	697	994	1082	755	1238	1663	2181
Sound power L_w	dB(A)	32	39	50	55	40	46	52	63
Sound pressure L_p (*)	dB(A)	23	30	41	46	31	37	43	54
Weight M	kg	31				35,78			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 2T 1700-130-330				CFP-ECM 2T 1700-175-350			
Casing length L	mm	1700				1700			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m ³ /h	191	353	471	489	382	560	699	930
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	2485	4434	5970	6513	5143	7009	8834	11489
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	1482	2644	3560	3884	3067	4180	5269	6852
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	1117	1994	2684	2929	2312	3152	3972	5166
Sound power L_w	dB(A)	32	39	50	55	40	46	52	63
Sound pressure L_p (*)	dB(A)	23	30	41	46	31	37	43	54
Weight M	kg	31				35,78			

(*) = 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.

CONSTRUCTION FEATURES

CFP-ECM 2T version

Casing length 2000 mm
Casing height 130 mm / 175 mm

2 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 2T 2000-130-330				CFP-ECM 2T 2000-175-350			
Casing length L	mm	2000				2000			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m³/h	232	439	578	660	447	675	845	1130
Cooling sensible emission: ΔTm 17,5 K – 7/12 °C	(Sensible emission) W	575	1588	2110	2388	1242	2036	2575	3749
Cooling sensible emission: ΔTm 12,5 K – 12/17 °C	(Sensible emission) W	474	1096	1541	1874	993	1501	1964	2512
Cooling sensible emission: ΔTm 10,0 K – 16/18 °C	(Sensible emission) W	420	868	1220	1460	883	1493	2009	2650
Sound power L_w	dB(A)	32	40	51	58	38	44	51	61
Sound pressure L_p (*)	dB(A)	23	31	42	49	29	35	42	52
Weight M	kg	36,78				41,48			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 2T 2000-130-330				CFP-ECM 2T 2000-175-350			
Casing length L	mm	2000				2000			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m³/h	232	439	578	660	447	675	845	1130
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	2980	5383	7727	9489	6445	8748	11071	14397
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	1777	3211	4608	5659	3844	5239	6603	8586
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	1340	2421	3474	4267	2898	3950	4978	6474
Sound power L_w	dB(A)	32	40	51	58	38	44	51	61
Sound pressure L_p (*)	dB(A)	23	31	42	49	29	35	42	52
Weight M	kg	36,78				41,48			

(*) = 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.

Carisma Floor CFP-ECM | CONSTRUCTION FEATURES

CFP-ECM 2T version

Casing length **2500 mm**

Casing height **130 mm / 175 mm**

2 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 2T 2500-130-330				CFP-ECM 2T 2500-175-350			
Casing length L	mm	2500				2500			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m ³ /h	305	580	739	770	602	917	1148	1538
Cooling sensible emission: ΔTm 17,5 K – 7/12 °C	(Sensible emission) W	755	2098	2698	2787	1675	2766	3499	5102
Cooling sensible emission: ΔTm 12,5 K – 12/17 °C	(Sensible emission) W	622	1448	1971	2186	1339	2039	2669	3419
Cooling sensible emission: ΔTm 10,0 K – 16/18 °C	(Sensible emission) W	551	1146	1560	1703	1191	2029	2730	3607
Sound power L_w	dB(A)	33	41	52	58	39	45	51	61
Sound pressure L_p (*)	dB(A)	24	32	43	49	30	36	42	52
Weight M	kg	45,63				53,11			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 2T 2500-130-330				CFP-ECM 2T 2500-175-350			
Casing length L	mm	2500				2500			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m ³ /h	305	580	739	770	602	917	1148	1538
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	3910	7075	9859	11237	8832	12037	15171	19729
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	2332	4219	5880	6702	5267	7179	9048	11766
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	1758	3181	4433	5063	3971	5412	6822	8871
Sound power L_w	dB(A)	33	41	52	58	39	45	51	61
Sound pressure L_p (*)	dB(A)	24	32	43	49	30	36	42	52
Weight M	kg	45,63				53,11			

(*) = 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.

CONSTRUCTION FEATURES

CFP-ECM 2T version

Casing length 3000 mm
Casing height 130 mm / 175 mm

2 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 2T 3000-130-330				CFP-ECM 2T 3000-175-350			
Casing length L	mm	3000				3000			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m³/h	365	693	810	855	751	1143	1430	1916
Cooling sensible emission: ΔTm 17,5 K – 7/12 °C	(Sensible emission) W	905	2506	3094	3122	2087	3446	4359	6355
Cooling sensible emission: ΔTm 12,5 K – 12/17 °C	(Sensible emission) W	746	1729	2281	2427	1668	2540	3325	4259
Cooling sensible emission: ΔTm 10,0 K – 16/18 °C	(Sensible emission) W	661	1369	1804	1891	1483	2527	3401	4493
Sound power L_w	dB(A)	33	41	52	57	36	42	49	60
Sound pressure L_p (*)	dB(A)	24	32	43	48	27	33	40	51
Weight M	kg	53,74				62,6			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 2T 3000-130-330				CFP-ECM 2T 3000-175-350			
Casing length L	mm	3000				3000			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m³/h	365	693	810	855	751	1143	1430	1916
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	4553	8242	11158	12190	11002	14995	18898	24577
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	2715	4915	6655	7270	6561	8943	11271	14648
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	2047	3706	5017	5481	4947	6742	8498	11051
Sound power L_w	dB(A)	33	41	52	57	36	42	49	60
Sound pressure L_p (*)	dB(A)	24	32	43	48	27	33	40	51
Weight M	kg	53,74				62,6			

(*) = 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.

Carisma Floor CFP-ECM | CONSTRUCTION FEATURES

CFP-ECM 4T version

Casing length **900 mm**

Casing height **130 mm**

4 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 4T 900-130-330			
Casing length L	mm	900			
Casing width T	mm	330			
Fan motor drive signal EC	V	3	5	7	10
Air flow QV	m ³ /h	68	113	149	171
Cooling sensible emission: ΔTm 17,5 K – 7/12 °C	(Sensible emission) W	169	410	545	620
Cooling sensible emission: ΔTm 12,5 K – 12/17 °C	(Sensible emission) W	139	283	398	487
Cooling sensible emission: ΔTm 10,0 K – 16/18 °C	(Sensible emission) W	123	224	315	379
Sound power L_w	dB(A)	29	36	47	57
Sound pressure L_p (*)	dB(A)	20	27	38	48
Weight M	kg	16,76			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 4T 900-130-330			
Casing length L	mm	900			
Casing width T	mm	330			
Fan motor drive signal EC	V	3	5	7	10
Air flow QV	m ³ /h	68	113	149	171
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	664	1137	1580	1999
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	396	678	942	1192
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	298	511	710	899
Sound power L_w	dB(A)	29	36	47	57
Sound pressure L_p (*)	dB(A)	20	27	38	48
Weight M	kg	16,76			

(*) = 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.

CONSTRUCTION FEATURES

CFP-ECM 4T version

Casing length 1000 mm

Casing height 175 mm

4 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 4T 1000-175-350			
Casing length L	mm	1000			
Casing width T	mm	350			
Fan motor drive signal EC	V	3	5	7	10
Air flow QV	m³/h	161	216	265	342
Cooling sensible emission: ΔTm 17,5 K – 7/12 °C	(Sensible emission) W	449	651	808	1133
Cooling sensible emission: ΔTm 12,5 K – 12/17 °C	(Sensible emission) W	359	480	616	759
Cooling sensible emission: ΔTm 10,0 K – 16/18 °C	(Sensible emission) W	319	477	630	801
Sound power L_w	dB(A)	40	44	50	59
Sound pressure L_p (*)	dB(A)	31	35	41	50
Weight M	kg	20,15			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 4T 1000-175-350			
Lunghezza canale L	mm	1000			
Larghezza canale T	mm	350			
Tensione di comando motore EC	V	3	5	7	10
Portata aria QV	m³/h	161	216	265	342
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	1529	2984	2627	3416
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	912	1243	1567	2037
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	688	937	1181	1536
Sound power L_w	dB(A)	40	44	50	59
Sound pressure L_p (*)	dB(A)	31	35	41	50
Weight M	kg	20,15			

(*) = 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.

Carisma Floor CFP-ECM | CONSTRUCTION FEATURES

CFP-ECM 4T version

Casing length 1200 mm

Casing height 130 mm / 175 mm

4 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 4T 1200-130-330				CFP-ECM 4T 1200-175-350			
Casing length L	mm	1200				1200			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m ³ /h	103	184	250	279	227	311	382	495
Cooling sensible emission: ΔTm 17,5 K – 7/12 °C	(Sensible emission) W	255	667	913	1010	632	937	1166	1642
Cooling sensible emission: ΔTm 12,5 K – 12/17 °C	(Sensible emission) W	210	460	667	792	505	691	889	1101
Cooling sensible emission: ΔTm 10,0 K – 16/18 °C	(Sensible emission) W	186	364	528	617	449	687	910	1161
Sound power L_w	dB(A)	30	38	49	56	37	42	48	58
Sound pressure L_p (*)	dB(A)	21	29	40	47	28	33	39	49
Weight M	kg	21,1				23,96			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 4T 1200-130-330				CFP-ECM 4T 1200-175-350			
Casing length L	mm	1200				1200			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m ³ /h	103	184	250	279	227	311	382	495
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	1131	1974	2761	3355	2232	3042	3834	4987
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	675	1177	1647	2001	1331	1814	2287	2974
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	509	888	1241	1508	1004	1368	1724	2242
Sound power L_w	dB(A)	30	38	49	56	37	42	48	58
Sound pressure L_p (*)	dB(A)	21	29	40	47	28	33	39	49
Weight M	kg	21,1				23,96			

(*) = 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.

CONSTRUCTION FEATURES

CFP-ECM 4T version

Casing length 1400 mm
Casing height 130 mm / 175 mm

4 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 4T 1400-130-330				CFP-ECM 4T 1400-175-350			
Casing length L	mm	1400				1400			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m³/h	132	236	323	362	258	357	440	571
Cooling sensible emission: ΔTm 17,5 K – 7/12 °C	(Sensible emission) W	327	855	1179	1309	717	1077	1341	1894
Cooling sensible emission: ΔTm 12,5 K – 12/17 °C	(Sensible emission) W	269	590	861	1027	573	794	1023	1269
Cooling sensible emission: ΔTm 10,0 K – 16/18 °C	(Sensible emission) W	239	467	681	800	510	790	1046	1339
Sound power L_w	dB(A)	30	38	49	56	35	41	48	57
Sound pressure L_p (*)	dB(A)	21	29	40	47	26	32	39	48
Weight M	kg	24,41				27,05			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 4T 1400-130-330				CFP-ECM 4T 1400-175-350			
Casing length L	mm	1400				1400			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m³/h	132	236	323	362	258	357	440	571
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	1491	2616	3649	4009	2584	3521	4438	5772
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	890	1560	2176	2391	1541	2100	2647	3442
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	671	1176	1641	1803	1162	1583	1996	2595
Sound power L_w	dB(A)	30	38	49	56	35	41	48	57
Sound pressure L_p (*)	dB(A)	21	29	40	47	26	32	39	48
Weight M	kg	24,41				27,05			

(*) = 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.

Carisma Floor CFP-ECM | CONSTRUCTION FEATURES

CFP-ECM 4T version

Casing length **1700 mm**

Casing height **130 mm / 175 mm**

4 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 4T 1700-130-330				CFP-ECM 4T 1700-175-350			
Casing length L	mm	1700				1700			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m ³ /h	179	323	432	442	360	515	625	830
Cooling sensible emission: ΔTm 17,5 K – 7/12 °C	(Sensible emission) W	445	1168	1576	1600	1001	1552	1937	2754
Cooling sensible emission: ΔTm 12,5 K – 12/17 °C	(Sensible emission) W	366	806	1151	1256	800	1144	1478	1846
Cooling sensible emission: ΔTm 10,0 K – 16/18 °C	(Sensible emission) W	324	638	911	978	711	1138	1511	1947
Sound power L_w	dB(A)	32	39	50	55	41	47	53	63
Sound pressure L_p (*)	dB(A)	23	30	41	46	32	38	44	54
Weight M	kg	30,46				34,8			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 4T 1700-130-330				CFP-ECM 4T 1700-175-350			
Casing length L	mm	1700				1700			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m ³ /h	179	323	432	442	360	515	625	830
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	2079	3655	4890	5247	3767	5134	6471	8415
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	1240	2180	2917	3129	2247	3062	3859	5019
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	935	1643	2199	2359	1694	2309	2910	3784
Sound power L_w	dB(A)	32	39	50	55	41	47	53	63
Sound pressure L_p (*)	dB(A)	23	30	41	46	32	38	44	54
Weight M	kg	30,46				34,8			

(*) = 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.

CONSTRUCTION FEATURES

CFP-ECM 4T version

Casing length 2000 mm
Casing height 130 mm / 175 mm

4 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 4T 2000-130-330				CFP-ECM 4T 2000-175-350			
Casing length L	mm	2000				2000			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m³/h	211	391	519	613	422	634	793	1050
Cooling sensible emission: ΔTm 17,5 K – 7/12 °C	(Sensible emission) W	523	1416	1897	2218	1174	1913	2418	3482
Cooling sensible emission: ΔTm 12,5 K – 12/17 °C	(Sensible emission) W	431	977	1386	1740	939	1410	1844	2333
Cooling sensible emission: ΔTm 10,0 K – 16/18 °C	(Sensible emission) W	382	773	1096	1355	835	1403	1886	2461
Sound power L_w	dB(A)	32	40	51	59	39	45	51	62
Sound pressure L_p (*)	dB(A)	23	31	42	50	30	36	42	53
Weight M	kg	35,7				40,5			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 4T 2000-130-330				CFP-ECM 4T 2000-175-350			
Casing length L	mm	2000				2000			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m³/h	211	391	519	613	422	634	793	1050
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	2407	4282	6071	7562	4809	6554	8260	10742
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	1435	2554	3621	4510	2868	3909	4926	6407
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	1082	1926	2730	3400	2162	2947	3714	4830
Sound power L_w	dB(A)	32	40	51	59	39	45	51	62
Sound pressure L_p (*)	dB(A)	23	31	42	50	30	36	42	53
Weight M	kg	35,7				40,5			

(*) = 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.

Carisma Floor CFP-ECM | CONSTRUCTION FEATURES

CFP-ECM 4T version

Casing length **2500 mm**

Casing height **130 mm / 175 mm**

4 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 4T 2500-130-330				CFP-ECM 4T 2500-175-350			
Casing length L	mm	2500				2500			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m ³ /h	284	539	697	738	530	806	1009	1351
Cooling sensible emission: ΔTm 17,5 K – 7/12 °C	(Sensible emission) W	704	1950	2545	2670	1475	2431	3075	4482
Cooling sensible emission: ΔTm 12,5 K – 12/17 °C	(Sensible emission) W	580	1346	1859	2094	1179	1792	2346	3003
Cooling sensible emission: ΔTm 10,0 K – 16/18 °C	(Sensible emission) W	514	1065	1471	1631	1048	1783	2399	3168
Sound power L_w	dB(A)	33	41	52	58	35	42	49	60
Sound pressure L_p (*)	dB(A)	24	32	43	49	26	33	40	51
Weight M	kg	44,56				49,04			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 4T 2500-130-330				CFP-ECM 4T 2500-175-350			
Casing length L	mm	2500				2500			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m ³ /h	284	539	697	738	530	806	1009	1351
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	3243	5847	8207	9425	6198	8447	10646	13844
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	1934	3487	4895	5621	3696	5038	6349	8257
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	1458	2629	3690	4238	2787	3798	4787	6225
Sound power L_w	dB(A)	33	41	52	58	35	42	49	60
Sound pressure L_p (*)	dB(A)	24	32	43	49	26	33	40	51
Weight M	kg	44,56				49,04			

(*) = 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.

CONSTRUCTION FEATURES

CFP-ECM 4T version

Casing length 3000 mm
Casing height 130 mm / 175 mm

4 pipe system.

The rated thermal emissions are in conformity with the 16430 Directive and referred to the following operating conditions:

COOLING

Entering air temperature: +27°C d.b.

R.H.: 50 %

Model		CFP-ECM 4T 3000-130-330				CFP-ECM 4T 3000-175-350			
Casing length L	mm	3000				3000			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m³/h	365	693	810	855	721	1098	1373	1840
Cooling sensible emission: ΔTm 17,5 K – 7/12 °C	(Sensible emission) W	905	2506	3094	3122	2004	3310	4187	6104
Cooling sensible emission: ΔTm 12,5 K – 12/17 °C	(Sensible emission) W	746	1729	2281	2427	1602	2440	3194	4091
Cooling sensible emission: ΔTm 10,0 K – 16/18 °C	(Sensible emission) W	661	1369	1804	1891	1425	2427	3266	4315
Sound power L_w	dB(A)	33	41	52	57	36	43	49	60
Sound pressure L_p (*)	dB(A)	24	32	43	48	27	34	40	51
Weight M	kg	53,74				62,6			

HEATING

Entering air temperature: +20°C

Model		CFP-ECM 4T 3000-130-330				CFP-ECM 4T 3000-175-350			
Casing length L	mm	3000				3000			
Casing width T	mm	330				350			
Fan motor drive signal EC	V	3	5	7	10	3	5	7	10
Air flow QV	m³/h	365	693	810	855	721	1098	1373	1840
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	4007	7286	9908	10898	8349	11378	14341	18650
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	2390	4345	5909	6500	4979	6786	8553	11123
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	1802	3276	4455	4900	3754	5116	6448	8386
Sound power L_w	dB(A)	33	41	52	57	36	43	49	60
Sound pressure L_p (*)	dB(A)	24	32	43	48	27	34	40	51
Weight M	kg	53,74				62,6			

(*) = 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.

Carisma Floor CRP-ECM

Trench Convector



for Heating only

Carisma Floor CRP-ECM trench convectors represent a combination of innovative aesthetics and functionality in an heating system.

They are designed to efficiently **heat and ventilate** buildings with large windows or doors.

The wide range of models includes **solutions which can be customised** depending on architectural requirements with diffusion grids in a variety of materials and colours.

All the units are supplied with low energy consumption electronic motors.

A large variety of control and regulation accessories is available.

Floor trench convectors are used **inside private homes, on verandas, in public offices and buildings and in exhibition and commercial areas.**

TECHNICAL CHARACTERISTICS

Walkable floor casing, in galvanised steel sheet, coated with Anthracite grey (RAL 7016) powder paint, with external height adjustable system preassembled with an antivibrating device.

Coil consisting of copper pipes and aluminium fins, painted Anthracite grey (RAL 7016) and housed, with acoustic decoupling, in transversal galvanised and painted steel frame. Euroconus connection, front or ambient side, with connection nut (int. thread $\frac{3}{4}$ ") and air venting.



Tangential fan, protective cover, 24V EC motors freely adjustable (0 – 10 V) pre-wired and ready for connection.

Aluminium roll-up grid consisting of stable profiles, anodised in natural colours, with 20 x 6 mm slats. Grid with overall height of 20 mm and free 70% transversal section, inserted in floor casing and acoustically insulated by rubber gaskets. Perimeter listel with finish of cover grid.

Mounting cover with a **protective profile** of the perimeter listels to protect the fan coils during installation.



Standard models

5 Widths: 185, 210, 260, 310 and 360 mm.

1 Height: 110 mm.

12 Lengths: 1250, 1500, 1750, 2000, 2250, 2500, 2750, 3000, 3250, 3500, 3750 and 4000 mm.

Aluminium roll-up grid.

Identifications and models

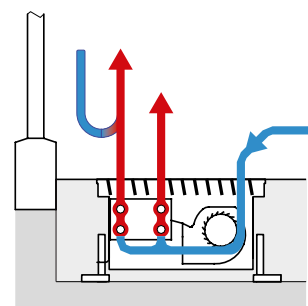
Dimension			Dimension		
Casing Length L (mm)	Casing Height H (mm)	Model	Casing Length L (mm)	Casing Height H (mm)	Model
1250	185	CRP-ECM 1250-110-185	2750	185	CRP-ECM 2750-110-185
	210	CRP-ECM 1250-110-210		210	CRP-ECM 2750-110-210
	260	CRP-ECM 1250-110-260		260	CRP-ECM 2750-110-260
	310	CRP-ECM 1250-110-310		310	CRP-ECM 2750-110-310
	360	CRP-ECM 1250-110-360		360	CRP-ECM 2750-110-360
1500	185	CRP-ECM 1500-110-185	3000	185	CRP-ECM 3000-110-185
	210	CRP-ECM 1500-110-210		210	CRP-ECM 3000-110-210
	260	CRP-ECM 1500-110-260		260	CRP-ECM 3000-110-260
	310	CRP-ECM 1500-110-310		310	CRP-ECM 3000-110-310
	360	CRP-ECM 1500-110-360		360	CRP-ECM 3000-110-360
1750	185	CRP-ECM 1750-110-185	3250	185	CRP-ECM 3250-110-185
	210	CRP-ECM 1750-110-210		210	CRP-ECM 3250-110-210
	260	CRP-ECM 1750-110-260		260	CRP-ECM 3250-110-260
	310	CRP-ECM 1750-110-310		310	CRP-ECM 3250-110-310
	360	CRP-ECM 1750-110-360		360	CRP-ECM 3250-110-360
2000	185	CRP-ECM 2000-110-185	3500	185	CRP-ECM 3500-110-185
	210	CRP-ECM 2000-110-210		210	CRP-ECM 3500-110-210
	260	CRP-ECM 2000-110-260		260	CRP-ECM 3500-110-260
	310	CRP-ECM 2000-110-310		310	CRP-ECM 3500-110-310
	360	CRP-ECM 2000-110-360		360	CRP-ECM 3500-110-360
2250	185	CRP-ECM 2250-110-185	3750	185	CRP-ECM 3750-110-185
	210	CRP-ECM 2250-110-210		210	CRP-ECM 3750-110-210
	260	CRP-ECM 2250-110-260		260	CRP-ECM 3750-110-260
	310	CRP-ECM 2250-110-310		310	CRP-ECM 3750-110-310
	360	CRP-ECM 2250-110-360		360	CRP-ECM 3750-110-360
2500	185	CRP-ECM 2500-110-185	4000	185	CRP-ECM 4000-110-185
	210	CRP-ECM 2500-110-210		210	CRP-ECM 4000-110-210
	260	CRP-ECM 2500-110-260		260	CRP-ECM 4000-110-260
	310	CRP-ECM 2500-110-310		310	CRP-ECM 4000-110-310
	360	CRP-ECM 2500-110-360		360	CRP-ECM 4000-110-360

Note: the 185 dimension is not available for the A3-A4 side connections.

Operating principle

Forced heating convection

The cold air is suctioned from the ambient and heated by the coil. The heated air rises, creating a shield to cold air among the window and the ambient.



CONSTRUCTION FEATURES

Casing lenght **1250 mm**
Casing height **110 mm**

2 pipe system.

The rated thermal emissions are referred to the following operating conditions:

HEATING (winter mode)

Air temperature: +20°C

Model CRP-ECM		1250-110-185					1250-110-210				
Casing lenght L	mm	1250					1250				
Casing width T	mm	185					210				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m³/h	–	57	101	171	252	–	57	101	171	252
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	148	529	725	962	1082	194	572	803	1065	1214
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	54	316	432	574	645	90	341	479	635	724
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	32	238	326	433	486	60	257	361	479	546
Sound power L_w	dB(A)	–	27	30	40	46	–	27	30	40	46
Sound pressure L_p (*)	dB(A)	–	18	21	31	37	–	18	21	31	37
Exponent n	–	1,93	1,00	1,00	1,00	1,00	1,48	1,00	1,00	1,00	1,00
Weight M	kg	12,6					13,5				

Model CRP-ECM		1250-110-260					1250-110-310				
Casing lenght L	mm	1250					1250				
Casing width T	mm	260					310				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m³/h	–	57	101	171	252	–	57	101	171	252
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	264	694	1015	1319	1520	295	827	1094	1542	1722
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	128	414	605	787	906	140	493	653	920	1027
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	86	312	457	593	683	93	372	492	693	774
Sound power L_w	dB(A)	–	27	30	40	46	–	27	30	40	46
Sound pressure L_p (*)	dB(A)	–	18	21	31	37	–	18	21	31	37
Exponent n	–	1,40	1,00	1,00	1,00	1,00	1,41	1,00	1,00	1,00	1,00
Weight M	kg	15,4					11,1				

Model CRP-ECM		1250-110-360				
Casing lenght L	mm	1250				
Casing width T	mm	360				
Fan motor drive signal EC	V	0	3	5	8	10
Air flow QV	m³/h	–	57	101	171	252
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	326	976	1340	1695	1984
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	155	582	799	1011	1183
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	103	439	602	762	892
Sound power L_w	dB(A)	–	27	30	40	46
Sound pressure L_p (*)	dB(A)	–	18	21	31	37
Exponent n	–	1,44	1,00	1,00	1,00	1,00
Weight M	kg	19,6				

(*) = 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.

Casing lenght **2000 mm**
Casing height **110 mm**

2 pipe system.

The rated thermal emissions are referred to the following operating conditions:

HEATING (winter mode)

Air temperature: +20°C

Model CRP-ECM		2000-110-185					2000-110-210				
Casing lenght L	mm	2000					2000				
Casing width T	mm	185					210				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m³/h	–	114	202	342	504	–	57	101	171	252
Heating sensible emission: ΔT_m 50,0 K – 75/65 °C	W	290	1053	1443	1918	2156	382	1136	1598	2121	2418
Heating sensible emission: ΔT_m 30,0 K – 55/45 °C	W	107	628	861	1144	1286	178	677	953	1265	1442
Heating sensible emission: ΔT_m 22,5 K – 45/40 °C	W	62	473	649	862	969	117	511	719	954	1087
Sound power L_w	dB(A)	–	29	33	43	49	–	29	33	43	49
Sound pressure L_p (*)	dB(A)	–	20	24	34	40	–	20	24	34	40
Exponent n	–	1,93	1,00	1,00	1,00	1,00	1,48	1,00	1,00	1,00	1,00
Weight M	kg	20,1					21,7				

Model CRP-ECM		2000-110-260					2000-110-310				
Casing lenght L	mm	2000					2000				
Casing width T	mm	260					310				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m³/h	–	114	202	342	504	–	114	202	342	504
Heating sensible emission: ΔT_m 50,0 K – 75/65 °C	W	519	1378	2020	2627	3027	580	1643	2177	3072	3431
Heating sensible emission: ΔT_m 30,0 K – 55/45 °C	W	252	822	1205	1567	1805	274	980	1299	1832	2046
Heating sensible emission: ΔT_m 22,5 K – 45/40 °C	W	170	619	908	1181	1361	182	739	979	1381	1543
Sound power L_w	dB(A)	–	29	33	43	49	–	29	33	43	49
Sound pressure L_p (*)	dB(A)	–	20	24	34	40	–	20	24	34	40
Exponent n	–	1,40	1,00	1,00	1,00	1,00	1,41	1,00	1,00	1,00	1,00
Weight M	kg	24,6					27,7				

Model CRP-ECM		2000-110-360				
Casing lenght L	mm	2000				
Casing width T	mm	360				
Fan motor drive signal EC	V	0	3	5	8	10
Air flow QV	m³/h	–	114	202	342	504
Heating sensible emission: ΔT_m 50,0 K – 75/65 °C	W	641	1941	2667	3376	3953
Heating sensible emission: ΔT_m 30,0 K – 55/45 °C	W	305	1157	1591	2014	2358
Heating sensible emission: ΔT_m 22,5 K – 45/40 °C	W	203	873	1199	1516	1778
Sound power L_w	dB(A)	–	29	33	43	49
Sound pressure L_p (*)	dB(A)	–	20	24	34	40
Exponent n	–	1,44	1,00	1,00	1,00	1,00
Weight M	kg	31,2				

(*) = 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.

CONSTRUCTION FEATURES

Casing lenght **2750 mm**
Casing height **110 mm**

2 pipe system.

The rated thermal emissions are referred to the following operating conditions:

HEATING (winter mode)

Air temperature: +20°C

Model CRP-ECM		2750-110-185					2750-110-210				
Casing lenght L	mm	2750					2750				
Casing width T	mm	185					210				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m³/h	–	171	303	513	756	–	171	303	513	756
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	433	1576	2162	2873	3230	569	1700	2393	3177	3623
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	160	940	1289	1714	1926	265	1014	1427	1895	2161
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	93	709	972	1292	1452	174	764	1076	1428	1629
Sound power L_w	dB(A)	–	31	35	45	51	–	31	35	45	51
Sound pressure L_p (*)	dB(A)	–	22	26	36	42	–	22	26	36	42
Exponent n	–	1,93	1,00	1,00	1,00	1,00	1,48	1,00	1,00	1,00	1,00
Weight M	kg	27,7					29,9				

Modello CRP-ECM		2750-110-260					2750-110-310				
Casing lenght L	mm	2750					2750				
Casing width T	mm	260					310				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m³/h	–	171	303	513	756	–	171	303	513	756
Heating sensible emission: ΔTm 50,0 K – 75/65 °C	W	774	2062	3025	3935	4535	865	2459	3260	4602	5139
Heating sensible emission: ΔTm 30,0 K – 55/45 °C	W	375	1230	1804	2347	2704	409	1466	1944	2745	3065
Heating sensible emission: ΔTm 22,5 K – 45/40 °C	W	253	927	1360	1769	2039	272	1106	1466	2069	2311
Sound power L_w	dB(A)	–	31	35	45	51	–	31	35	45	51
Sound pressure L_p (*)	dB(A)	–	22	26	36	42	–	22	26	36	42
Exponent n	–	1,40	1,00	1,00	1,00	1,00	1,41	1,00	1,00	1,00	1,00
Weight M	kg	33,8					38,1				

Model CRP-ECM		2750-110-360				
Lunghezza canale L	mm	2750				
Larghezza canale T	mm	360				
Tensione di comando motore EC	V	0	3	5	8	10
Portata aria QV	m³/h	–	171	303	513	756
Riscaldamento: ΔTm 50,0 K – 75/65 °C	W	956	2905	3995	5058	5923
Riscaldamento: ΔTm 30,0 K – 55/45 °C	W	454	1733	2382	3016	3532
Riscaldamento: ΔTm 22,5 K – 45/40 °C	W	303	1306	1796	2274	2663
Potenza sonora L_w	dB(A)	–	31	35	45	51
Pressione sonora L_p (*)	dB(A)	–	22	26	36	42
Exponent n	–	1,44	1,00	1,00	1,00	1,00
Peso M	kg	42,9				

(*) = 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.

NOTE: for lenghts that are different from 1250, 2000 and 2750 mm, please see the Technical Guide.

VM/VS **Front connections valve kit (CFP-ECM only)**

Consisting of:

- Lower valve body with k_v factory preset:
 - DN 15 external thread with euroconus $\frac{3}{4}$ "
 - M30 x 1,5
 - Galvanised, protective cap.
- Adjustable return lockshield:
 - DN 15 external thread with euroconus $\frac{3}{4}$ "
 - Galvanised.



VM/VS **Side connection valve kit**

Consisting of:

- Lower valve body with k_v factory preset:
 - DN 15 external thread with euroconus $\frac{3}{4}$ "
 - M30 x 1,5
 - Galvanised, protective cap.
- Adjustable return lockshield:
 - DN 15 external thread with euroconus $\frac{3}{4}$ "
 - Galvanised.



VS-A1-A2-OF **ON-OFF valve (for CFP-ECM only)**

ON-OFF 2-way valve not fitted, with actuator 230V (to be used with MB board only), frontal connections A1-A2



VS-A3-A4-OF **ON-OFF valve (for CFP-ECM only)**

ON-OFF 2-way valve not fitted, with actuator 230V (to be used with MB board only), side connections A3-A4



ATT-24V **Thermoelectric actuator**

Power supply: 24 V DC.
 Control signal: 0-10V DC.
 Absorption: 2 W.
 Absorbed current: 80 mA.
 Max inrush current: 350 mA (max. 2 min).
 Protection rating: IP 54.
 Adjustment stroke: 4mm.
 Including VA80 valve adaptor and 5 m connection cable.
 Normally closed in absence of current.



CVSG **Empty casing**

The range and minimum and special lengths of the casings vary for the different models.

Dimensions:

- Heights: 110, 130, 155 mm
- Widths: 185, 210, 260, 310, 330, 360 mm
- Variable lengths: 200–3000 mm

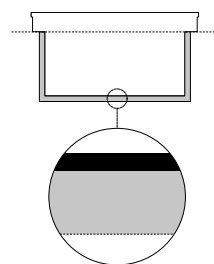
Material: galvanised steel painted Anthracite grey (RAL 7016 opaque) with natural anodised aluminium casing.



TS

Casing sound absorption lining

4 mm sound absorption lining installed in the factory on the outer surface of the casing.



FVM

Air intake filter

Intake filter PPI 30 dark 3 mm thick.



Top Grills

They are attractively shaped, solid and robust. There are practically no limits to how they can be integrated into the architectural design of the room. It is possible to choose between various profile forms, materials, colours and surface finishings. The grills can be easily removed for cleaning and then returned to their original positions.

GAA

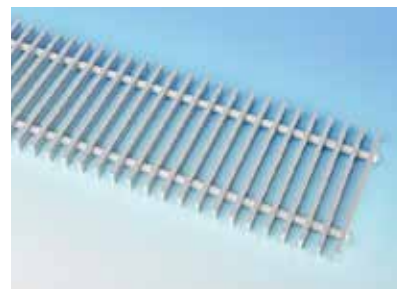
Flexible aluminium roll-up grille

Dimension:

- Length up to 3000 mm
- Height: 20 mm
- Bar width: 6 mm
- Bar spacing: 14 mm
- Open cross-section: 70%

Anodised in natural or colour, powder-coated in RAL colours (Bronze, Dark Silver, Brass, Black).

Cut surfaces in aluminium colour if linear grille is in two pieces. Aluminium profiles.



GAI

Stainless steel roll-up grille

Dimension:

- Length up to 3000 mm
- Height: 20 mm
- Bar width: 10 mm
- Bar spacing: 16 mm
- Open cross-section: 60%



GLE

Wooden roll-up grille

Dimension:

- Length up to 3000 mm
- Height: 20 mm
- Bar width: 12 mm
- Bar spacing: 16 mm
- Open cross-section: 55%

Light oak, ash and beech oiled versions.



GLA

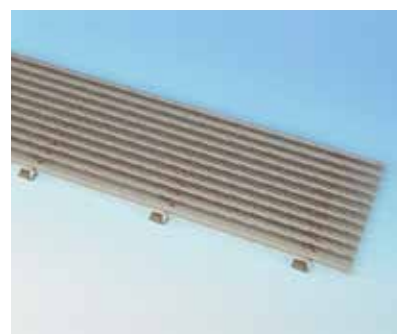
Aluminium linear grille

Dimension:

- Length up to 3000 mm
- Height: 20 mm
- Bar width: 6 mm
- Bar spacing: 10 mm
- Open cross-section: 60%

Anodised in natural or colour, powder-coated in RAL colours (Bronze, Dark Silver, Brass, Black).

Longitudinal profile bars are fixedly connected to aluminium angle profiles by means of a pressure process every 200-300 mm. Aluminium profiles.



Management system with TAD digital ambient thermostat

TAD

Digital ambient thermostat

Programmable ambient thermostat, including fan control.
With large LCD display to control up to 6 trench convectors.
Energy-saving backlighting.
Configurable timing program.
Heating/cooling control.
Power supply via BUS cable.
Colour similar to RAL 9010.



SRM

SRM regulation and control board, fitted on the unit (for CFP-ECM only)

It must be coupled to TAD digital ambient thermostat.



KNX

KNX board

To be integrated in a Sabiana control card for KNX network connection.
1 single board necessary for integrated group of trench convectors (up to 6).



STAR

Air temperature sensor

NTC 10 K ambient temperature sensor with plastic cap, including 3 m cable + installation material.



STAC-2

Minimum probe

To detect supply temperature, including 2 m cable + installation material.



STAC-5

Minimum probe

To detect supply temperature, including 5 m cable + installation material.



LPR

Dew point detector (for CFP-ECM only)

24 V DC power supply.
Max absorbed current 3 mA.
Application range: from 10% to 100% R.H.
Including cable gland and board connector.



LCF

Contact detector for windows

(must be coupled to transmission receiver)

Power supply: 13 V lithium battery type CR2032.
• Transmission type: X2D protocol.
• Transmission frequency 868 MHz.
• Signal coverage up to 300 m (in open field).
• Protection rating IP 40



Management system with TAD digital ambient thermostat

SPR

Presence sensor

(must be coupled to transmission receiver)

230 V power supply with phase and neutral.

Transmission frequency 868 MHz.

1 - 2 channels depending on function.

3 pre-installed cables to connect switches, ON/OFF buttons.

1 wired phase inlet for detector or button.

Up to 16 two-way receivers and an optional number of one-way receivers.

Operating temperature: from -5 °C to 40 °C.



RTR

Transmission receiver

For window contact detectors and presence sensors.

Power supply by control card.

Up to 2x20 recordable emitters.

Signal coverage up to 100m (open field).



LPV- 100-24

Power supply

24VDC 4.2A (190x52x37 mm)



Management system with MB board

MB-CFP Regulation and control board, not fitted on the unit (for CFP-ECM only)

It must be coupled to TAD digital ambient thermostat.



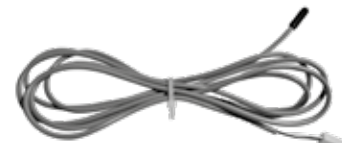
T-MB Wall control (to be used with MB-CFP board only)



PSM-DI Multifunction control panel (to be used with MB-CFP board only)



T2 T2 accessory for units with MB-CFP board, without valves NTC probe (to be used as Change-over) to be coupled to MB-CFP board and to be placed on the water supply pipe.



Sabianet Sabianet management system For MB version only.



Router-S Router for Sabianet (default) or for BMS systems not provided by Sabiana.



SIOS 8 Relay output board for Sabianet



Further special models

Angle models

Available with all models and all casing sizes.
The α angle can vary from 50° to 320° .
When placing the order, you must supply a detailed drawing or a shape.
Feasibility only after technical inspection.
The trench convector must be transportable.



Curved models

Minimum curvature radius R: 1000 mm.
When placing the order, you must supply a detailed drawing or a shape.
Feasibility only after technical inspection.
The trench convector must be transportable.



Models with column

Available with all models and all casing sizes.
When placing the order, you must supply a detailed drawing or a shape.
Feasibility only after technical inspection.
The trench convector must be transportable.





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