



Carisma Floor CFP-ECM and CSP-ECM

Trench Convactor 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 $\varnothing 15$ 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. 3/4") 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.

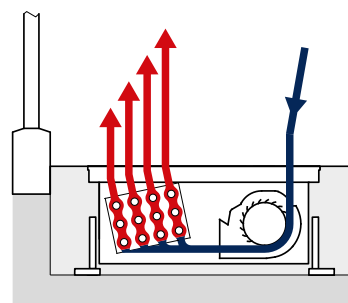
Identifications and models

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

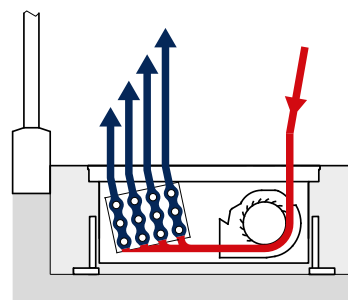
Forced heating convection

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.

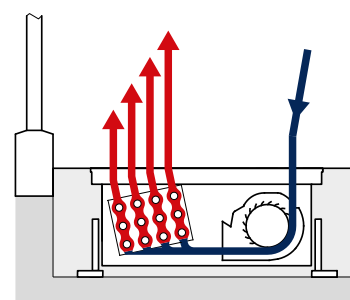
Identifications and models

Casing Length L (mm)	Dimensions		Model
	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

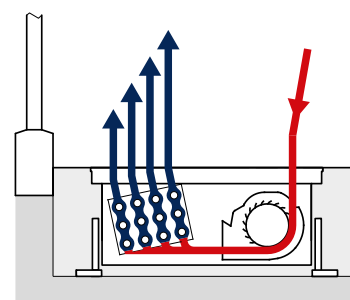
Forced heating convection

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: ΔTm 17,5 K – 7/12 °C	Total emission	W	301	766	1039	1204
	Sensible emission	W	199	517	705	830
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	177	357	515	651
	Sensible emission	W	164	357	515	651
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	145	283	407	507
	Sensible 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: ΔTm 50,0 K – 75/65 °C	W	899	1588	2278	3024
Heating: ΔTm 30,0 K – 55/45 °C	W	536	947	1358	1804
Heating: ΔTm 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.

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	m ³ /h	204	279	347	455	
Cooling: ΔTm 17,5 K – 7/12 °C	Total emission	W	780	1088	1189	1510
	Sensible emission	W	568	842	1057	1510
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	454	621	806	1012
	Sensible emission	W	454	621	806	1012
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	404	617	825	1067
	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	m ³ /h	204	279	347	455
Heating: ΔTm 50,0 K – 75/65 °C	W	2322	3165	3988	5187
Heating: ΔTm 30,0 K – 55/45 °C	W	1385	1887	2379	3093
Heating: ΔTm 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: ΔTm 17,5 K – 7/12 °C	Total emission	W	468	1236	1737	1960	1010	1443	1579	2015
	Sensible emission	W	309	835	1178	1351	735	1116	1404	2015
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	276	576	860	1060	588	823	1071	1350
	Sensible emission	W	255	576	860	1060	588	823	1071	1350
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	226	456	681	826	523	818	1095	1424
	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: ΔTm 50,0 K – 75/65 °C	W	1561	2799	4006	4736	3190	4348	5479	7126
Heating: ΔTm 30,0 K – 55/45 °C	W	931	1669	2389	2825	1902	2593	3268	4250
Heating: 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.

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	m ³ /h	158	284	396	432	290	412	513	678	
Cooling: ΔTm 17,5 K – 7/12 °C	Total emission	W	591	1520	2135	2268	1108	1605	1758	2250
	Sensible emission	W	390	1027	1448	1564	806	1242	1563	2250
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	348	708	1058	1227	645	915	1193	1508
	Sensible emission	W	322	708	1058	1227	645	915	1193	1508
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	285	561	837	956	573	911	1220	1591
	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	m ³ /h	158	284	396	432	290	412	513	678
Heating: ΔTm 50,0 K – 75/65 °C	W	1968	3529	4985	5655	3624	4939	6225	8095
Heating: ΔTm 30,0 K – 55/45 °C	W	1174	2105	2973	3373	2161	2946	3713	4828
Heating: 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: ΔTm 17,5 K – 7/12 °C	Total emission	W	717	1889	2536	2567	1460	2183	2396	3086
	Sensible emission	W	474	1276	1719	1770	1062	1689	2131	3086
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	423	880	1256	1389	849	1245	1625	2068
	Sensible emission	W	391	880	1256	1389	849	1245	1625	2068
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	346	697	994	1082	755	1238	1663	2181
	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: ΔTm 50,0 K – 75/65 °C	W		2485	4434	5970	6513	5143	7009	8834	11489
Heating: ΔTm 30,0 K – 55/45 °C	W		1482	2644	3560	3884	3067	4180	5269	6852
Heating: 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.

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	m ³ /h	232	439	578	660	447	675	845	1130	
Cooling: ΔTm 17,5 K – 7/12 °C	Total emission	W	871	2352	3112	3464	1707	2633	2896	3749
	Sensible emission	W	575	1588	2110	2388	1242	2036	2575	3749
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	513	1096	1541	1874	993	1501	1964	2512
	Sensible emission	W	474	1096	1541	1874	993	1501	1964	2512
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	420	868	1220	1460	883	1493	2009	2650
	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	m ³ /h	232	439	578	660	447	675	845	1130
Heating: ΔTm 50,0 K – 75/65 °C	W	2980	5383	7727	9489	6445	8748	11071	14397
Heating: ΔTm 30,0 K – 55/45 °C	W	1777	3211	4608	5659	3844	5239	6603	8586
Heating: 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: ΔTm 17,5 K – 7/12 °C	Total emission	W	1142	3107	3979	4042	2302	3576	3935	5102
	Sensible emission	W	755	2098	2698	2787	1675	2766	3499	5102
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	673	1448	1971	2186	1339	2039	2669	3419
	Sensible emission	W	622	1448	1971	2186	1339	2039	2669	3419
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	551	1146	1560	1703	1191	2029	2730	3607
	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: ΔTm 50,0 K – 75/65 °C	W	3910	7075	9859	11237	8832	12037	15171	19729
Heating: ΔTm 30,0 K – 55/45 °C	W	2332	4219	5880	6702	5267	7179	9048	11766
Heating: 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.

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	m ³ /h	365	693	810	855	751	1143	1430	1916	
Cooling: ΔTm 17,5 K – 7/12 °C	Total emission	W	1370	3710	4488	4604	2867	4454	4902	6355
	Sensible emission	W	905	2506	3094	3122	2087	3446	4359	6355
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	807	1729	2281	2427	1668	2540	3325	4259
	Sensible emission	W	746	1729	2281	2427	1668	2540	3325	4259
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	661	1369	1804	1891	1483	2527	3401	4493
	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	m ³ /h	365	693	810	855	751	1143	1430	1916
Heating: ΔTm 50,0 K – 75/65 °C	W	4553	8242	11158	12190	11002	14995	18898	24577
Heating: ΔTm 30,0 K – 55/45 °C	W	2715	4915	6655	7270	6561	8943	11271	14648
Heating: 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: ΔTm 17,5 K – 7/12 °C	Total emission	W	255	607	804	900
	Sensible emission	W	169	410	545	620
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	150	283	398	487
	Sensible emission	W	139	283	398	487
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	123	224	315	379
	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: ΔTm 50,0 K – 75/65 °C	W	664	1137	1580	1999
Heating: ΔTm 30,0 K – 55/45 °C	W	396	678	942	1192
Heating: 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.

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	m ³ /h	161	216	265	342	
Cooling: ΔTm 17,5 K – 7/12 °C	Total emission	W	617	842	909	1133
	Sensible emission	W	449	651	808	1133
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	359	480	616	759
	Sensible emission	W	359	480	616	759
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	319	477	630	801
	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			
Casing length L	mm	1000			
Casing width T	mm	350			
Fan motor drive signal EC	V	3	5	7	10
Air flow QV	m ³ /h	161	216	265	342
Heating: ΔTm 50,0 K – 75/65 °C	W	1529	2984	2627	3416
Heating: ΔTm 30,0 K – 55/45 °C	W	912	1243	1567	2037
Heating: 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: ΔTm 17,5 K – 7/12 °C	Total emission	W	386	987	1346	1465	868	1212	1311	1642
	Sensible emission	W	255	667	913	1010	632	937	1166	1642
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	228	460	667	792	505	691	889	1101
	Sensible emission	W	210	460	667	792	505	691	889	1101
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	186	364	528	617	449	687	910	1161
	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: ΔTm 50,0 K – 75/65 °C	W		1131	1974	2761	3355	2232	3042	3834	4987
Heating: ΔTm 30,0 K – 55/45 °C	W		675	1177	1647	2001	1331	1814	2287	2974
Heating: 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.

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	m ³ /h	132	236	323	362	258	357	440	571	
Cooling: ΔTm 17,5 K – 7/12 °C	Total emission	W	495	1266	1739	1898	985	1392	1508	1894
	Sensible emission	W	327	855	1179	1309	717	1077	1341	1894
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	291	590	861	1027	573	794	1023	1269
	Sensible emission	W	269	590	861	1027	573	794	1023	1269
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	239	467	681	800	510	790	1046	1339
	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	m ³ /h	132	236	323	362	258	357	440	571
Heating: ΔTm 50,0 K – 75/65 °C	W	1491	2616	3649	4009	2584	3521	4438	5772
Heating: ΔTm 30,0 K – 55/45 °C	W	890	1560	2176	2391	1541	2100	2647	3442
Heating: 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: ΔTm 17,5 K – 7/12 °C	Total emission	W	673	1729	2324	2321	1375	2007	2178	2754
	Sensible emission	W	445	1168	1576	1600	1001	1552	1937	2754
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	396	806	1151	1256	800	1144	1478	1846
	Sensible emission	W	366	806	1151	1256	800	1144	1478	1846
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	324	638	911	978	711	1138	1511	1947
	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: ΔTm 50,0 K – 75/65 °C	W	2079	3655	4890	5247	3767	5134	6471	8415
Heating: ΔTm 30,0 K – 55/45 °C	W	1240	2180	2917	3129	2247	3062	3859	5019
Heating: 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.

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	m ³ /h	211	391	519	613	422	634	793	1050	
Cooling: ΔTm 17,5 K – 7/12 °C	Total emission	W	792	2096	2797	3217	1613	2473	2719	3482
	Sensible emission	W	523	1416	1897	2218	1174	1913	2418	3482
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	467	977	1386	1740	939	1410	1844	2333
	Sensible emission	W	431	977	1386	1740	939	1410	1844	2333
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	382	773	1096	1355	835	1403	1886	2461
	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	m ³ /h	211	391	519	613	422	634	793	1050
Heating: ΔTm 50,0 K – 75/65 °C	W	2407	4282	6071	7562	4809	6554	8260	10742
Heating: ΔTm 30,0 K – 55/45 °C	W	1435	2554	3621	4510	2868	3909	4926	6407
Heating: 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: ΔTm 17,5 K – 7/12 °C	Total emission	W	1065	2888	3753	3872	2027	3143	3458	4482
	Sensible emission	W	704	1950	2545	2670	1475	2431	3075	4482
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	628	1346	1859	2094	1179	1792	2346	3003
	Sensible emission	W	580	1346	1859	2094	1179	1792	2346	3003
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	514	1065	1471	1631	1048	1783	2399	3168
	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: ΔTm 50,0 K – 75/65 °C	W	3243	5847	8207	9425	6198	8447	10646	13844
Heating: ΔTm 30,0 K – 55/45 °C	W	1934	3487	4895	5621	3696	5038	6349	8257
Heating: 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.

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	m ³ /h	365	693	810	855	721	1098	1373	1840	
Cooling: ΔTm 17,5 K – 7/12 °C	Total emission	W	1370	3710	4488	4604	2754	4279	4708	6104
	Sensible emission	W	905	2506	3094	3122	2004	3310	4187	6104
Cooling: ΔTm 12,5 K – 12/17 °C	Total emission	W	807	1729	2281	2427	1602	2440	3194	4091
	Sensible emission	W	746	1729	2281	2427	1602	2440	3194	4091
Cooling: ΔTm 10,0 K – 16/18 °C	Total emission	W	661	1369	1804	1891	1425	2427	3266	4315
	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	m ³ /h	365	693	810	855	721	1098	1373	1840
Heating: ΔTm 50,0 K – 75/65 °C	W	4007	7286	9908	10898	8349	11378	14341	18650
Heating: ΔTm 30,0 K – 55/45 °C	W	2390	4345	5909	6500	4979	6786	8553	11123
Heating: 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 CSP-ECM

Trench Convector



for Heating only

Carisma Floor CSP-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.**

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. Frontal Euroconus connection 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 black plastic **protective profile** of the perimeter listels to protect the fan coils during installation.



Standard models

2 models: 110 x 192 mm and 130 x 217 mm (Height H x Width T)
 11 Lengths L: 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800 and 3000 mm.
 Aluminium roll-up grid.

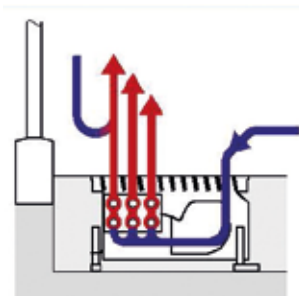
Identifications and models

Casing Length L (mm)	Casing Height H (mm) x Casing Width T (mm)	
	110 x 192	130 x 217
1000	CSP-ECM 1000-110-192	CSP-ECM 1000-130-217
1200	CSP-ECM 1200-110-192	CSP-ECM 1200-130-217
1400	CSP-ECM 1400-110-192	CSP-ECM 1400-130-217
1600	CSP-ECM 1600-110-192	CSP-ECM 1600-130-217
1800	CSP-ECM 1800-110-192	CSP-ECM 1800-130-217
2000	CSP-ECM 2000-110-192	CSP-ECM 2000-130-217
2200	CSP-ECM 2200-110-192	CSP-ECM 2200-130-217
2400	CSP-ECM 2400-110-192	CSP-ECM 2400-130-217
2600	CSP-ECM 2600-110-192	CSP-ECM 2600-130-217
2800	CSP-ECM 2800-110-192	CSP-ECM 2800-130-217
3000	CSP-ECM 3000-110-192	CSP-ECM 3000-130-217

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.



2 pipe system. The rated thermal emissions are referred to the following operating conditions:

HEATING (winter mode)

Air temperature: +20°C

Casing length 1000 mm

Model		CSP-ECM 1000-110-192					CSP-ECM 1000-130-217				
Casing length L	mm	110					130				
Casing width T	mm	192					217				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m ³ /h	-	79	129	180	220	-	113	185	258	315
Heating: ΔTm 50,0 K – 75/65 °C	W	125	477	786	1065	1441	144	811	1195	1559	2049
Heating: ΔTm 30,0 K – 55/45 °C	W	59	284	469	635	859	68	484	713	930	1222
Heating: ΔTm 25,0 K – 50/40°C	W	45	236	389	527	713	52	401	591	772	1014
Sound power L_w	dB(A)	-	< 28	29	38	50	-	< 28	33	44	53
Sound pressure L_p (*)	dB(A)	-	< 19	20	29	41	-	< 19	24	35	44
Weight M	kg	14,78					16,67				

Casing length 1200 mm

Model		CSP-ECM 1200-110-192					CSP-ECM 1200-130-217				
Casing length L	mm	110					130				
Casing width T	mm	192					217				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m ³ /h	-	105	174	242	295	-	138	226	316	385
Heating: ΔTm 50,0 K – 75/65 °C	W	162	625	1035	1395	1889	186	1132	1668	2145	2678
Heating: ΔTm 30,0 K – 55/45 °C	W	77	373	617	832	1127	88	675	995	1279	1597
Heating: ΔTm 25,0 K – 50/40°C	W	58	309	512	690	935	67	560	826	1062	1325
Sound power L_w	dB(A)	-	< 28	32	40	52	-	< 28	35	46	55
Sound pressure L_p (*)	dB(A)	-	< 19	23	31	43	-	< 19	26	37	46
Weight M	kg	17,24					19,40				

Casing length 1400 mm

Model		CSP-ECM 1400-110-192					CSP-ECM 1400-130-217				
Casing length L	mm	110					130				
Casing width T	mm	192					217				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m ³ /h	-	130	215	299	365	-	155	256	357	435
Heating: ΔTm 50,0 K – 75/65 °C	W	200	848	1391	1901	2574	230	1456	2148	2798	3119
Heating: ΔTm 30,0 K – 55/45 °C	W	95	506	830	1134	1535	109	868	1281	1669	1860
Heating: ΔTm 25,0 K – 50/40°C	W	72	420	688	941	1274	83	721	1063	1385	1544
Sound power L_w	dB(A)	-	< 28	32	41	53	-	< 28	36	46	55
Sound pressure L_p (*)	dB(A)	-	< 19	23	32	44	-	< 19	27	37	46
Weight M	kg	20,08					22,61				

(*) = 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 CSP-ECM | CONSTRUCTION FEATURES

2 pipe system. The rated thermal emissions are referred to the following operating conditions:

HEATING (winter mode)

Air temperature: +20°C

Casing length 1600 mm

Model		CSP-ECM 1600-110-192					CSP-ECM 1600-130-217				
Casing length L	mm	110					130				
Casing width T	mm	192					217				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m ³ /h	-	154	253	352	430	-	173	285	398	485
Heating: ΔTm 50,0 K – 75/65 °C	W	237	979	1597	2217	2935	273	1794	2647	3398	3761
Heating: ΔTm 30,0 K – 55/45 °C	W	112	584	952	1322	1750	129	1070	1579	2027	2243
Heating: ΔTm 25,0 K – 50/40 °C	W	85	485	790	1097	1453	98	888	1310	1682	1861
Sound power L_w	dB(A)	-	< 28	33	42	53	-	< 28	37	47	55
Sound pressure L_p (*)	dB(A)	-	< 19	24	33	44	-	< 19	28	38	46
Weight M	kg	22,71					25,62				

Casing length 1800 mm

Model		CSP-ECM 1800-110-192					CSP-ECM 1800-130-217				
Casing length L	mm	110					130				
Casing width T	mm	192					217				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m ³ /h	-	184	303	422	515	-	254	418	582	710
Heating: ΔTm 50,0 K – 75/65 °C	W	260	1198	1941	2627	3557	299	2045	3047	3961	5094
Heating: ΔTm 30,0 K – 55/45 °C	W	123	714	1158	1567	2121	141	1220	1817	2362	3038
Heating: ΔTm 25,0 K – 50/40 °C	W	94	593	961	1300	1760	108	1012	1508	1960	2521
Sound power L_w	dB(A)	-	< 28	34	44	54	-	< 28	37	48	56
Sound pressure L_p (*)	dB(A)	-	< 19	25	35	45	-	< 19	28	39	47
Weight M	kg	25,88					29,18				

Casing length 2000 mm

Model		CSP-ECM 2000-110-192					CSP-ECM 2000-130-217				
Casing length L	mm	110					130				
Casing width T	mm	192					217				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m ³ /h	-	211	347	484	590	-	275	453	631	770
Heating: ΔTm 50,0 K – 75/65 °C	W	290	1327	2159	2909	3941	334	2332	3475	4486	5619
Heating: ΔTm 30,0 K – 55/45 °C	W	137	791	1288	1735	2350	158	1391	2072	2675	3351
Heating: ΔTm 25,0 K – 50/40 °C	W	105	657	1069	1440	1950	120	1154	1720	2220	2781
Sound power L_w	dB(A)	-	< 28	34	44	55	-	< 28	38	49	56
Sound pressure L_p (*)	dB(A)	-	< 19	25	35	46	-	< 19	29	40	47
Weight M	kg	28,33					32,00				

(*) = 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.

2 pipe system. The rated thermal emissions are referred to the following operating conditions:

HEATING (winter mode)

Air temperature: +20°C

Casing length 2200 mm

Model		CSP-ECM 2200-110-192					CSP-ECM 2200-130-217				
Casing length L	mm	110					130				
Casing width T	mm	192					217				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m ³ /h	-	236	388	541	660	-	293	482	672	820
Heating: ΔTm 50,0 K – 75/65 °C	W	318	1544	2567	3462	4679	366	2579	3834	4984	5966
Heating: ΔTm 30,0 K – 55/45 °C	W	150	921	1531	2065	2791	173	1538	2287	2972	3558
Heating: ΔTm 25,0 K – 50/40°C	W	115	764	1270	1713	2316	132	1276	1898	2467	2953
Sound power L_w	dB(A)	-	< 28	35	44	55	-	28	38	49	56
Sound pressure L_p (*)	dB(A)	-	< 19	26	35	46	-	19	29	40	47
Weight M	kg	31,25					35,30				

Casing length 2400 mm

Model		CSP-ECM 2400-110-192					CSP-ECM 2400-130-217				
Casing length L	mm	110					130				
Casing width T	mm	192					217				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m ³ /h	-	261	429	598	730	-	316	521	725	885
Heating: ΔTm 50,0 K – 75/65 °C	W	342	1669	2771	3743	5030	393	2802	4165	5375	6365
Heating: ΔTm 30,0 K – 55/45 °C	W	162	995	1653	2232	3000	186	1671	2484	3206	3796
Heating: ΔTm 25,0 K – 50/40°C	W	123	826	1371	1852	2489	142	1387	2061	2660	3150
Sound power L_w	dB(A)	-	< 28	35	44	55	-	28	38	49	57
Sound pressure L_p (*)	dB(A)	-	< 19	26	35	46	-	19	29	40	48
Weight M	kg	33,75					38,17				

Casing length 2600 mm

Model		CSP-ECM 2600-110-192					CSP-ECM 2600-130-217				
Casing length L	mm	110					130				
Casing width T	mm	192					217				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m ³ /h	-	284	468	652	795	-	329	541	754	920
Heating: ΔTm 50,0 K – 75/65 °C	W	363	1877	3072	4177	5530	417	3016	4462	5771	6447
Heating: ΔTm 30,0 K – 55/45 °C	W	172	1119	1832	2491	3298	197	1799	2661	3442	3845
Heating: ΔTm 25,0 K – 50/40°C	W	131	929	1520	2067	2737	150	1493	2208	2856	3191
Sound power L_w	dB(A)	-	28	36	45	56	-	28	39	49	57
Sound pressure L_p (*)	dB(A)	-	19	27	36	47	-	19	30	40	48
Weight M	kg	36,55					41,34				

(*) = 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 CSP-ECM | CONSTRUCTION FEATURES

2 pipe system. The rated thermal emissions are referred to the following operating conditions:

HEATING (winter mode)

Air temperature: +20°C

Casing length 2800 mm

Model		CSP-ECM 2800-110-192					CSP-ECM 2800-130-217				
Casing length L	mm	110					130				
Casing width T	mm	192					217				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m ³ /h	-	305	503	701	855	-	345	568	791	965
Heating: ΔTm 50,0 K – 75/65 °C	W	378	1978	3226	4444	5788	435	3209	4747	6095	6784
Heating: ΔTm 30,0 K – 55/45 °C	W	179	1180	1924	2650	3452	206	1914	2831	3635	4046
Heating: ΔTm 25,0 K – 50/40 °C	W	136	979	1597	2199	2865	157	1588	2349	3017	3358
Sound power L_w	dB(A)	-	28	37	45	56	-	29	39	50	57
Sound pressure L_p (*)	dB(A)	-	19	28	36	47	-	20	30	41	48
Weight M	kg	39,06					44,22				

Casing length 3000 mm

Model		CSP-ECM 3000-110-192					CSP-ECM 3000-130-217				
Casing length L	mm	110					130				
Casing width T	mm	192					217				
Fan motor drive signal EC	V	0	3	5	8	10	0	3	5	8	10
Air flow QV	m ³ /h	-	320	526	734	895	-	355	585	816	995
Heating: ΔTm 50,0 K – 75/65 °C	W	387	2051	3346	4586	5936	445	3328	4923	6320	7008
Heating: ΔTm 30,0 K – 55/45 °C	W	183	1223	1996	2735	3540	210	1985	2936	3769	4180
Heating: ΔTm 25,0 K – 50/40 °C	W	140	1015	1656	2270	2938	160	1647	2436	3128	3468
Sound power L_w	dB(A)	-	28	37	46	56	-	29	39	50	57
Sound pressure L_p (*)	dB(A)	-	19	28	37	47	-	20	30	41	48
Weight M	kg	41,37					47,87				

(*) = 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.

<p>VS-A1-A2-OF</p>	<p>2 way ON-OFF valve ON-OFF 2-way valve not fitted, with actuator 230V (to be used with KNX-CFP-ECM-B20 kit and MB board), frontal connections A1-A2</p>	
<p>VS-A3-A4-OF</p>	<p>2 way ON-OFF valve (for CFP-ECM only) ON-OFF 2-way valve not fitted, with actuator 230V (to be used with KNX-CFP-ECM-B20 kit and MB board), side connections A3-A4</p>	
<p>CVSG</p>	<p>Empty casing The range and minimum and special lengths of the casings vary for the different models. Dimensions: • Heights: 110, 130 mm • Widths: 192, 217, 330, 350 mm • Variable lengths: 200–3000 mm Material: galvanised steel painted Anthracite grey (RAL 7016 opaque) with natural anodised aluminium casing.</p>	
<p>TS</p>	<p>Casing sound absorption lining 4 mm sound absorption lining installed in the factory on the outer surface of the casing.</p>	
<p>FVM</p>	<p>Air intake filter Intake filter PPI 30 dark 3 mm thick.</p>	
<p>PC-FL</p>	<p>Condensate pump (CFP-ECM only) (fitted on the unit)</p>	
<p>ST-FL</p>	<p>Central soil stand bracket (CFP-ECM only)</p>	
<p>CST-FL</p>	<p>Lateral soil stand brackets (CFP-ECM only) (the couple)</p>	

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.

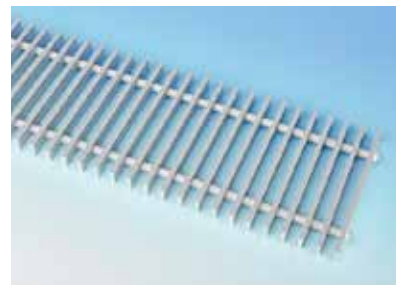
GAA

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.



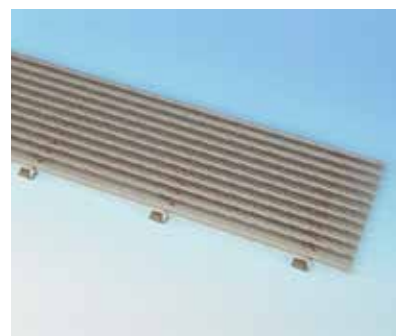
GLA

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 MB board

MB-CFP-ECM-B20 **Regulation and control board, not fitted on the unit**



T-MB2 **Wall control with LCD color display and WiFi**
(to be used with MB-CFP-ECM-B20 board only)



PSM-DI **Multifunction control panel**
(to be used with MB-CFP-ECM-B20 board only)



T-DI **Touch screen multifunction control panel**
(to be used with MB-CFP-ECM-B20 board only)



SabWeb **Web gateway for Sabiana Cloud**
(to be used with MB-CFP-ECM-B20 board only)



T2 **T2 accessory for units with MB-CFP-ECM-B20 board, without valves**
NTC probe (to be used as Change-over) to be coupled to MB-CFP-ECM-B20 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



Controls for KNX systems

KNX systems	
WM-KNX	Wall control with electronic thermostat and summer/winter switch (to be used with KNX-CFP-ECM-B20 and PL mounting plate only)
KNX-CFP-ECM-B20	KNX-CFP-ECM-B20 power unit supplied with separate packaging
PL-503-B	Mounting plate for rectangular box
PL-QUA-B	Mounting plate for rectangular box

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.



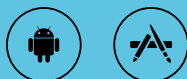


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