

Aquila Trench Convector FMS

Technical Specification



Aquila FMS is the best solution where quiet operation and no electrical connection is preferred. This is achieved by natural convection of the heat exchanger, which has a low volume of water and fast responsive time. Installing trench convector's in front of the glazed windows ensures efficient thermal screen against cold air.

Heat Exchanger Material

- The heat exchanger consists of copper pipes and aluminum fins, coated in RAL 9005 for durability and corrosion resistance
- The pipe diameter is 15.9mm with a wall thickness of 0.4mm
- Each exchanger is equipped with 1/2" connection ends

Water Connections

- Both right and left-side water connections are possible and must be specified upon order
- The connection space is also covered with a protective plate
- Pipes can be connected from either the front or the side, depending on installation needs

Technical Data

- Easy interconnection of two or more convectors
- Maximum operating pressure: 10 bar
- Manual air vent included
- Optional installation into double floors (upon request)
- Tested and certified in accordance with EN 16430

Standard Delivery Accessories

- Height-adjustable feet
- Raised floor height adjustment feet
- Rubber grommets for pre-punched openings
- Flexible stainless steel hoses with seals
- Chipboard cover (protects against dust and debris during construction)
- Structural struts (prevent deformation during concrete pouring)

Material of the Duct



Galvanized Steel
Painted in RAL9005



Stainless Steel

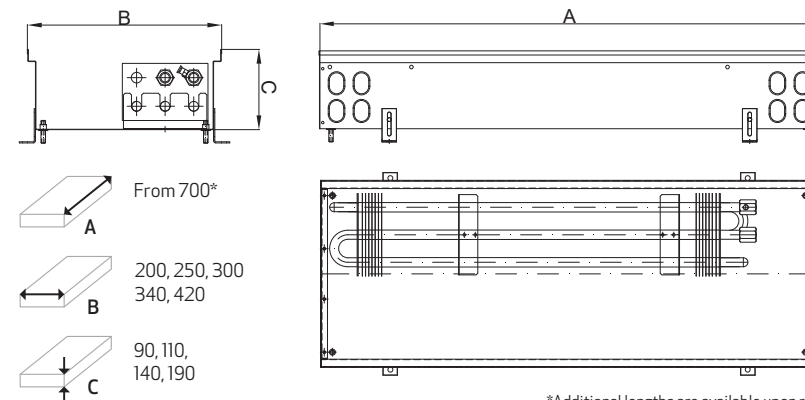
Special stainless steel AISI 316L for pool version upon request.

Heat Outputs [W] 75/65/20°C

Width B (mm)		200				250				300				340				420			
Height C (mm)		90	110	140	190	90	110	140	190	90	110	140	190	90	110	140	190	90	110	140	190
Length A (mm)	700	110	121	134	138	137	161	199	226	176	213	238	300	194	232	276	364	228	278	325	449
	800	134	148	163	169	166	196	242	275	215	260	290	365	237	282	337	444	277	338	395	547
	900	158	174	193	199	196	231	285	325	253	306	341	430	279	332	397	523	327	399	466	645
	1000	182	200	222	229	226	266	328	374	291	353	393	496	321	383	457	602	377	459	537	742
	1100	206	227	251	259	255	301	371	423	330	399	445	561	363	433	517	681	426	520	607	840
	1200	230	253	280	289	285	336	414	472	368	445	496	626	406	483	577	761	476	580	678	937
	1300	254	280	309	319	315	372	458	521	406	492	548	691	448	534	637	840	525	640	748	1035
	1400	278	306	339	349	344	407	501	571	445	538	600	756	490	584	697	919	575	701	819	1133
	1500	302	332	368	379	374	442	544	620	483	584	652	822	532	635	757	998	624	761	890	1230
	1600	326	359	397	409	404	477	587	669	521	631	703	887	575	685	817	1078	674	822	960	1328
	1800	374	411	455	470	463	547	673	767	598	724	807	1017	659	786	938	1236	773	942	1102	1523
	2000	422	464	514	530	523	617	760	866	675	816	910	1148	744	886	1058	1395	872	1063	1243	1719
	2200	470	517	572	590	582	687	846	964	751	909	1014	1278	828	987	1178	1553	971	1184	1384	1914
	2400	518	570	630	650	641	757	932	1062	828	1002	1117	1408	912	1088	1298	1711	1070	1305	1525	2109
	2500	542	596	660	680	671	792	975	1112	866	1048	1169	1474	955	1138	1358	1791	1120	1365	1596	2207
	2600	566	623	689	710	701	827	1019	1161	905	1095	1220	1539	997	1188	1418	1870	1169	1426	1666	2305
	2700	590	649	718	741	730	862	1062	1210	943	1141	1272	1604	1039	1239	1479	1949	1219	1486	1737	2402
	2800	614	675	747	771	760	897	1105	1259	981	1187	1324	1669	1081	1289	1539	2028	1268	1546	1808	2500
	2900	638	702	776	801	790	932	1148	1308	1019	1234	1376	1734	1124	1340	1599	2108	1318	1607	1878	2598
	3000	662	728	805	831	820	967	1191	1357	1058	1280	1427	1800	1166	1390	1659	2187	1367	1667	1949	2695
	3200	710	781	864	891	879	1038	1278	1456	1134	1373	1531	1930	1250	1491	1779	2345	1466	1788	2090	2891
	3400	758	834	922	951	938	1108	1364	1554	1211	1466	1634	2060	1335	1591	1899	2504	1565	1909	2231	3086
	3600	806	886	981	1011	998	1178	1450	1653	1288	1558	1738	2191	1419	1692	2019	2662	1665	2030	2373	3281

*Additional lengths are available upon request.

Dimensions (mm)



Aquilo Trench Convector F1S

Technical Specification



Aquilo F1S is the most popular type of trench convector, featuring a compact design with a minimum height of just 75mm. When heating is the sole requirement, the F1S is an ideal choice. It operates using forced convection, powered by a 24V tangential fan, making it suitable even for low-temperature systems such as heat pumps.

Electrical Connection

The fans operate on 24V EC technology and are controlled via a 0-10V signal, making them fully compatible with Building Management Systems (BMS). For operation, the convector requires a 24V transformer and a 24V thermostat capable of 0-10V control.

The electrical connection area is neatly concealed under a dedicated cover plate.

In the pool version, all electrical components are enclosed within a water-resistant electrical box, ensuring complete isolation and safety. Electrical and water connections are always separated.

Water Connections

Both right and left-side water connections are possible and must be specified upon order.

The connection space is also covered with a protective plate. Pipes can be connected from either the front or the side, depending on installation needs.

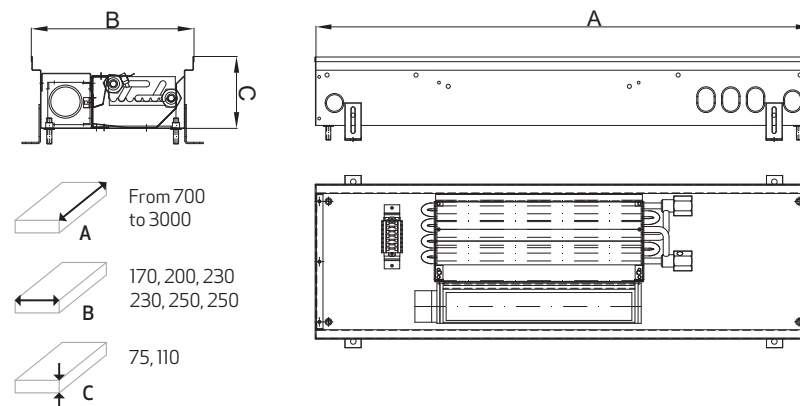
Technical Data

- Easy interconnection of two or more convectors
- Maximum operating pressure: 10 bar
- Manual air vent included
- Optional installation into double floors (upon request)
- Tested and certified in accordance with EN 16430

Standard Delivery Accessories

- Height-adjustable feet
- Raised floor height adjustment feet
- Rubber grommets for pre-punched openings
- Flexible stainless steel hoses with seals
- Chipboard cover (protects against dust and debris during construction)
- Structural struts (prevent deformation during concrete pouring)

Dimensions (mm)



Heat Exchanger Material

The heat exchanger consists of copper pipes and aluminum fins, coated in RAL 9005 for durability and corrosion resistance.

The pipe diameter is 9.5mm with a wall thickness of 0.3mm.

Each exchanger is equipped with 1/2" connection ends.

	Heat Outputs [W] 75/65/20°C												
Fan Speed	1	2	3	1	2	3	1	2	3	1	2	3	
B (mm)	170			200			230			Sound Level dB(A)			Consumption [W]
A (mm)	C = 75mm												
700	192	342	427	285	506	633	313	556	695	20	22	30	7.2
1000	397	706	883	588	1046	1307	645	1147	1434	20	23	31	8.4
1300	602	1070	1338	891	1585	1981	978	1739	2174	20	24	32	10.0
1500	714	1269	1586	1057	1878	2348	1160	2062	2578	20	25	32	11.3
1800	875	1555	1944	1296	2303	2879	1422	2528	3160	21	26	33	12.0
2000	987	1754	2193	1461	2598	3247	1604	2851	3564	21	26	33	13.7
2200	1086	1930	2413	1608	2859	3574	1765	3138	3922	21	26	33	13.7
2400	1297	2306	2882	1921	3414	4268	2108	3747	4684	22	27	34	15.4
2600	1409	2504	3130	2086	3708	4635	2290	4070	5088	23	28	35	16.6
2800	1564	2780	3475	2316	4117	5146	2542	4518	5648	23	28	35	17.8

	Heat Outputs [W] 75/65/20°C									
Fan Speed	1	2	3	1	2	3	1	2	3	
B (mm)	230			250			Sound Level dB(A)			Consumption [W]
A (mm)	C = 110mm									
700	397	706	882	541	962	1202	21	26	32	8.4
1000	820	1458	1822	1117	1986	2482	22	28	34	11.3
1300	1242	2209	2761	1693	3010	3763	23	30	36	12.0
1500	1473	2619	3274	2007	3569	4461	24	31	37	13.2
1800	1806	3211	4014	2461	4375	5469	25	33	39	17.8
2000	2037	3621	4526	2775	4934	6167	25	33	39	16.8
2200	2242	3986	4982	3055	5430	6788	25	33	39	18.5
2400	2678	4760	5950	3648	6486	8107	26	35	41	19.2
2600	2908	5170	6462	3962	7044	8805	27	36	42	20.4
2800	3228	5739	7174	4399	7820	9775	27	36	4	21.6

Material of the Duct



Galvanized Steel
Painted in RAL9005

Stainless Steel
Special stainless steel AISI 316L for pool version upon request.

NOTE: More sizes available in catalogue.

Aquila Trench Convector F2C

Technical Specification



Aquila F2C is the right choice when maximum power and minimum noise are required. Its heat exchanger has been designed to be used either for heating or cooling, therefore the whole power of the heat exchanger is used. F2C works using forced convection which is provided by a 24V tangential fan.

Electrical Connection

The fans operate on 24V EC technology and are controlled via a 0-10V signal, making them fully compatible with Building Management Systems (BMS). For operation, the convector requires a 24V transformer and a 24V thermostat capable of 0-10V control.

The electrical connection area is neatly concealed under a dedicated cover plate.

In the pool version, all electrical components are enclosed within a water-resistant electrical box, ensuring complete isolation and safety. Electrical and water connections are always separated.

Water Connections

Both right and left-side water connections are possible and must be specified upon order. The connection space is also covered with a protective plate. Pipes can be connected from either the front or the side, depending on installation needs.

As standard there is bottom drainage for condensate, side drainage is also possible upon request. Standard drainage set included in delivery.

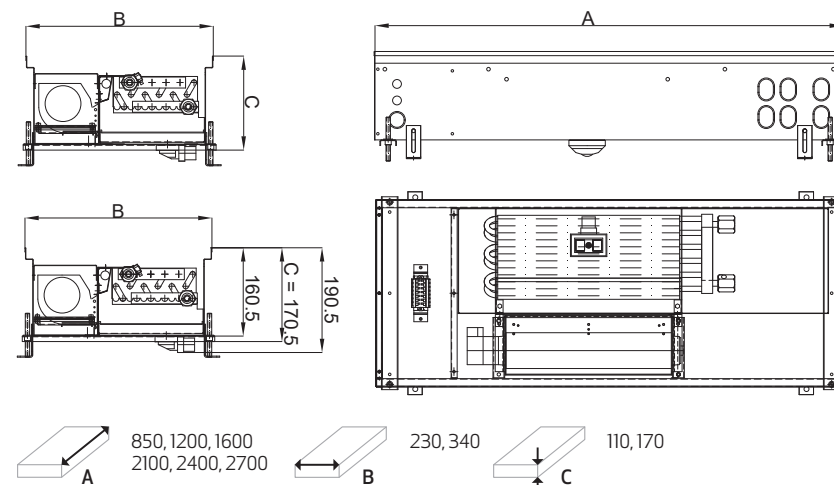
Technical Data

- Easy interconnection of two or more convectors
- Maximum operating pressure: 10 bar
- Manual air vent included
- Optional installation into double floors (upon request)
- Air inlets for external source of air can be added (upon request)
- Tested and certified in accordance with EN 16430

Standard Delivery Accessories

- Height-adjustable feet
- Raised floor height adjustment feet
- Rubber grommets for pre-punched openings
- Flexible stainless steel hoses with seals
- Chipboard cover (protects against dust and debris during construction)
- Structural struts (prevent deformation during concrete pouring)

Dimensions (mm)



Heat Exchanger Material

The heat exchanger consists of copper pipes and aluminum fins, coated in RAL 9005 for durability and corrosion resistance.

The pipe diameter is 9.5mm with a wall thickness of 0.3mm.

Each exchanger is equipped with 1/2" connection ends.

Fan Speed	Heat Outputs [W] 75/65/20°C			Cooling Outputs [W] 16/18/27°C						Consumption [W]
	1	2	3	1	2	3	1	2	3	
A (mm)	B = 230mm C = 110mm						Sound Level dB(A)			Consumption [W]
850	501	890	1113	76	135	168	21	26	32	9
1200	1001	1780	2225	151	269	336	22	28	34	13
1600	1487	2644	3305	225	400	499	23	30	36	19
2100	2120	3770	4712	320	570	712	25	33	39	21
2400	2592	4607	5759	392	696	870	26	35	41	27
2700	3107	5524	690	470	835	1043	27	36	42	33

Fan Speed	Heat Outputs [W] 75/65/20°C			Cooling Outputs [W] 16/18/27°C						Consumption [W]
	1	2	3	1	2	3	1	2	3	
A (mm)	B = 340mm C = 170mm						Sound Level dB(A)			Consumption [W]
850	776	1380	1725	117	209	261	21	27	33	19
1200	1553	2760	3450	235	418	522	22	29	34	20
1600	2306	4099	5124	349	620	775	23	31	37	22
2100	3288	5845	7306	497	884	1105	25	34	40	35
2400	4018	7143	8929	608	1080	1350	26	35	42	37
2700	4817	8564	10705	729	1295	1619	27	37	43	39

Material of the Duct



Galvanized Steel
Painted in RAL9005



Stainless Steel

Special stainless steel AISI 316L for pool version upon request.
Duct from galvanized steel has condensate tray from stainless steel.

Aquila Trench Convector F2V

Technical Specification

Aquila F2V is the most powerful trench convector which we offer. Its heat exchanger has been designed to be used either for heating or cooling, therefore the whole power of the heat exchanger can be used. F2V works using forced convection which is provided by a 230V tangential fan.

Electrical Connection

The fans operate on 230V EC technology and are controlled via a 0-10V signal, making them fully compatible with Building Management Systems (BMS). For operation, the convector requires a 230V thermostat capable of 0-10V control.

The electrical connection area is neatly concealed under a dedicated cover plate.

Electrical and water connections are always separated.

Water Connections

Both right and left-side water connections are possible and must be specified upon order. The connection space is also covered with a protective plate. Pipes can be connected from either the front or the side, depending on installation needs.

As standard there is bottom drainage for condensate, side drainage is also possible upon request. Standard drainage set included in delivery.

Technical Data

- Easy interconnection of two or more convectors
- Maximum operating pressure: 10 bar
- Manual air vent included
- Optional installation into double floors (upon request)
- Air inlets for external source of air can be added (upon request)
- Tested and certified in accordance with EN 16430

Standard Delivery Accessories

- Height-adjustable feet
- Raised floor height adjustment feet
- Rubber grommets for pre-punched openings
- Flexible stainless steel hoses with seals
- Chipboard cover (protects against dust and debris during construction)
- Structural struts (prevent deformation during concrete pouring)

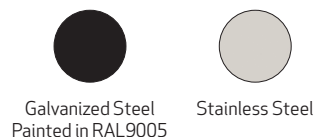
Heat Exchanger Material

The heat exchanger consists of copper pipes and aluminum fins, coated in RAL 9005 for durability and corrosion resistance.

The pipe diameter is 9.5mm with a wall thickness of 0.3mm.

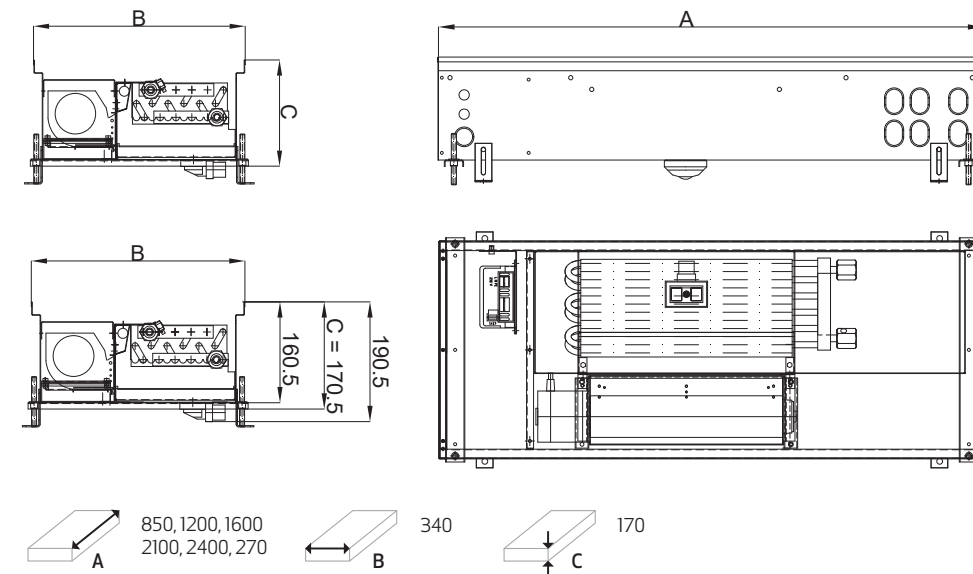
Each exchanger is equipped with 1/2" connection ends.

Material of the Duct



Special stainless steel AISI 316L for pool version upon request.
Duct from galvanized steel has condensate tray from stainless steel.

Dimensions (mm)



		Heat Outputs [W] 75/65/20°C			Cooling Outputs [W] 16/18/27°C			Sound Level dB(A)			Consumption [W]
Fan Speed		1	2	3	1	2	3	1	2	3	
Length A (mm)	850	942	1675	2094	174	309	386	22	30	41	20
	1200	1885	3351	4189	347	618	772	23	31	41	25
	1600	2800	4978	6222	516	918	1147	25	33	42	43
	2100	3992	7096	8870	736	1308	1635	25	35	45	45
	2400	4879	8674	10842	900	1599	1999	27	35	45	63
	2700	5849	10398	12998	1078	1917	2397	28	36	46	81

Aquilo Trench Convector F4C

Technical Specification



Aquilo F4C is the most advanced type of trench convector which we offer. Its heat exchanger has been designed for heating and cooling. This is possible thanks to our four pipe system, two pipes for heating and two pipes for cooling. F4C works using forced convection which is provided by a 24V tangential fan.

Electrical Connection

The fans operate on 24V EC technology and are controlled via a 0-10V signal, making them fully compatible with Building Management Systems (BMS). For operation, the convector requires a 24V transformer and a 24V thermostat capable of 0-10V control.

The electrical connection area is neatly concealed under a dedicated cover plate.

In the pool version, all electrical components are enclosed within a water-resistant electrical box, ensuring complete isolation and safety. Electrical and water connections are always separated.

Water Connections

Both right and left-side water connections are possible and must be specified upon order. The connection space is also covered with a protective plate. Pipes can be connected from either the front or the side, depending on installation needs.

As standard there is bottom drainage for condensate, side drainage is also possible upon request. Standard drainage set included in delivery.

Technical Data

- Easy interconnection of two or more convectors
- Maximum operating pressure: 10 bar
- Manual air vent included
- Optional installation into double floors (upon request)
- Air inlets for external source of air can be added (upon requested)
- Tested and certified in accordance with EN 16430

Standard Delivery Accessories

- Height-adjustable feet
- Raised floor height adjustment feet
- Rubber grommets for pre-punched openings
- Flexible stainless steel hoses with seals
- Chipboard cover (protects against dust and debris during construction)
- Structural struts (prevent deformation during concrete pouring)

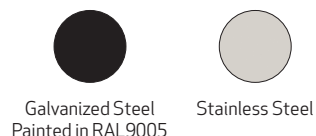
Heat Exchanger Material

The heat exchanger consists of copper pipes and aluminum fins, coated in RAL 9005 for durability and corrosion resistance.

The pipe diameter is 9.5mm with a wall thickness of 0.3mm.

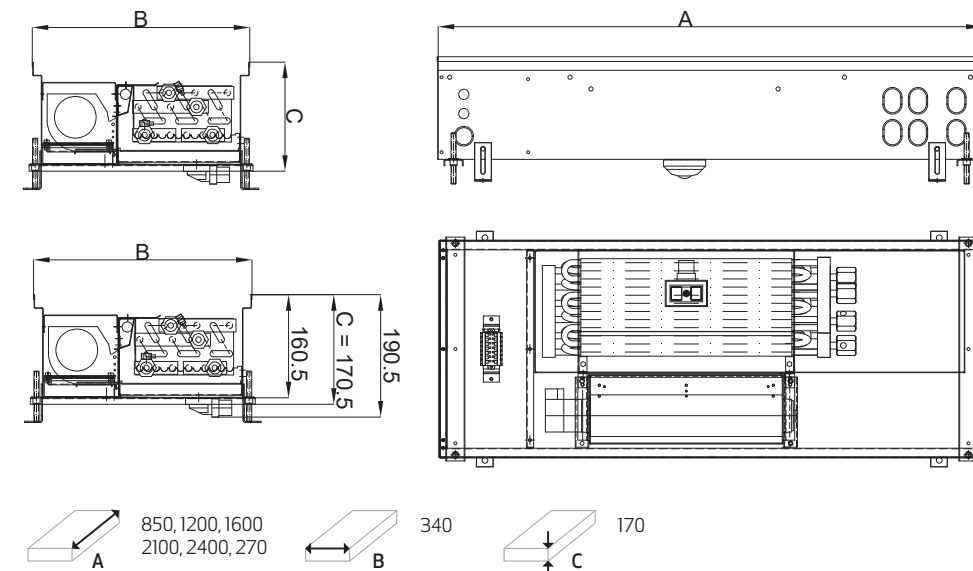
Each exchanger is equipped with 1/2" connection ends.

Material of the Duct



Special stainless steel AISI 316L for pool version upon request.
Duct from galvanized steel has condensate tray from stainless steel.

Dimensions (mm)



		Heat Outputs [W] 75/65/20°C			Cooling Outputs [W] 16/18/27°C			Sound Level dB(A)			Consumption [W]
Fan Speed		1	2	3	1	2	3	1	2	3	
Length A (mm)	850	524	932	1165	117	209	261	21	26	32	24
	1200	1049	1865	2331	235	418	522	22	28	34	25
	1600	1558	2770	3462	349	620	775	23	30	36	27
	2100	2221	3949	4936	497	884	1105	25	33	39	40
	2400	2715	4826	6033	608	1080	1350	26	35	41	42
	2700	3255	5786	7233	729	1295	1619	27	36	42	44

Aquilo Trench Convector F4V

Technical Specification



Aquilo F4V fits the best where maximum power and comfort is needed. Its heat exchanger has been designed for heating and cooling. This is possible thanks to our four pipe system, two pipes for heating and two pipes for cooling. F4V works using forced convection which is provided by a 230V tangencial fan.

Electrical Connection

The fans operate on 230V EC technology and are controlled via a 0-10V signal, making them fully compatible with Building Management Systems (BMS). For operation, the convector requires a 230V thermostat capable of 0-10V control.

The electrical connection area is neatly concealed under a dedicated cover plate.

Electrical and water connections are always separated.

Water Connections

Both right and left-side water connections are possible and must be specified upon order. The connection space is also covered with a protective plate. Pipes can be connected from either the front or the side, depending on installation needs.

As standard there is bottom drainage for condensate, side drainage is also possible upon request. Standard drainage set included in delivery.

Technical Data

- Easy interconnection of two or more convectors
- Maximum operating pressure: 10 bar
- Manual air vent included
- Optional installation into double floors (upon request)
- Air inlets for external source of air can be added (upon request)
- Tested and certified in accordance with EN 16430

Standard Delivery Accessories

- Height-adjustable feet
- Raised floor height adjustment feet
- Rubber grommets for pre-punched openings
- Flexible stainless steel hoses with seals
- Chipboard cover (protects against dust and debris during construction)
- Structural struts (prevent deformation during concrete pouring)

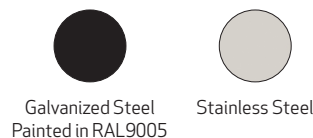
Heat Exchanger Material

The heat exchanger consists of copper pipes and aluminum fins, coated in RAL 9005 for durability and corrosion resistance.

The pipe diameter is 9.5mm with a wall thickness of 0.3mm.

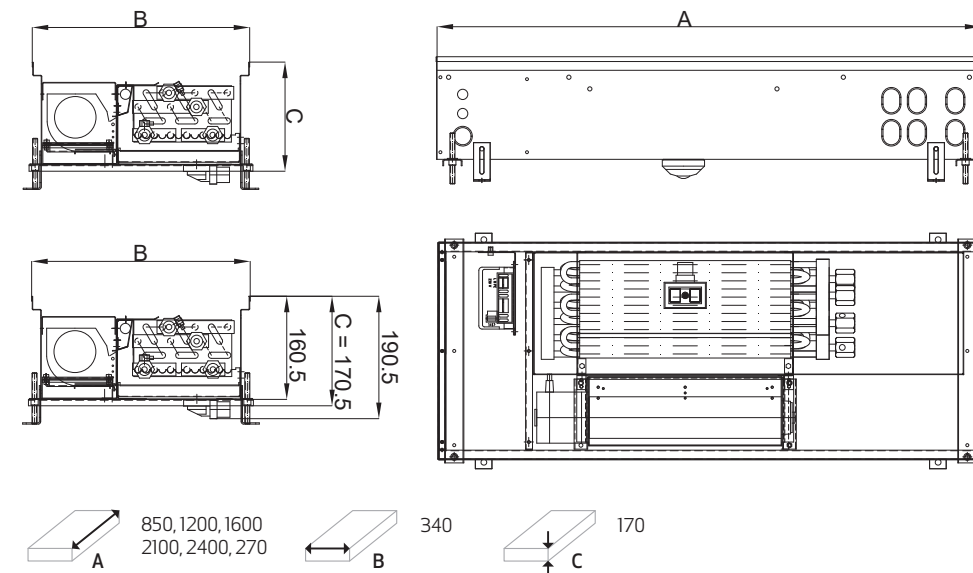
Each exchanger is equipped with 1/2" connection ends.

Material of the Duct



Special stainless steel AISI 316L for pool version upon request.
Duct from galvanized steel has condensate tray from stainless steel.

Dimensions (mm)



		Heat Outputs [W] 75/65/20°C			Cooling Outputs [W] 16/18/27°C			Sound Level dB(A)			Consumption [W]
Fan Speed		1	2	3	1	2	3	1	2	3	
Length A (mm)	850	637	1132	1415	174	309	386	22	30	41	25
	1200	1274	2264	2830	347	618	772	23	31	41	30
	1600	1892	3363	4204	516	918	1147	25	33	42	48
	2100	2697	4795	5994	736	1308	1635	25	35	45	50
	2400	3296	5860	7325	900	1599	1999	27	35	45	68
	2700	3952	7026	8782	1078	1917	2397	28	36	46	86