



RADIATORS
ITALIAN PREMIUM HEATING

INT
Catalogue

Steel Panels
2017



Production plants

Moimacco

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Udine - Italy

Fossalta di Piave

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Venice - Italy



DL Radiators is a company of the **De Longhi Industrial group** known worldwide as a leading Italian manufacturer of **heating** and **home comfort** products. Passionate high-level **professionalism, investments, organisational skills, advanced technologies, full Italian creativity** and a focus on market expectations are all constituent elements of DL Radiators' thirty-year experience for the manufacturing of **leading edge products**.

Faithful to its mission of favouring innovation, DL Radiators offers **radiators** that combine **functionality** and **accurate finishes**. Our focus is put on the technical details and materials we use, we address refined consumers as well as picky and challenging architects and installers.

Quality radiators

Quality in all products is DL Radiators' key founding value. All customers are offered superior energy efficiency, practicality of connection to existing systems, reliability and ultimate design in all products.

Made in Italy

Durability, little maintenance, efficiency and beauty, these promises are all kept by DL Radiators in all of its products. In order to ensure this is attained, the company has chosen to make the **radiators** in Italy, caring for the most invisible of details such as finishings or welds.

Premium materials

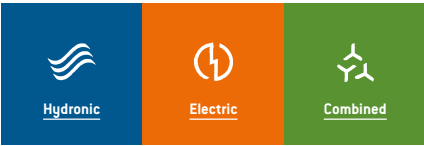
DL Radiators uses only top-quality steel from certified suppliers. Each coil undergoes strict checks to guarantee the technical and style perfection of the **radiator**.

Protecting the environment

A sound production cycle and pioneering products that aim at saving energy and obtaining the ultimate efficiency, DL Radiators protects the environment, making this one of its cornerstone values.

The range

A **wide range** of items is offered in various sizes, colours, heat sources and shapes. Products include hydronic, electric and combined radiators with no limits as to customers' or professionals' choices.



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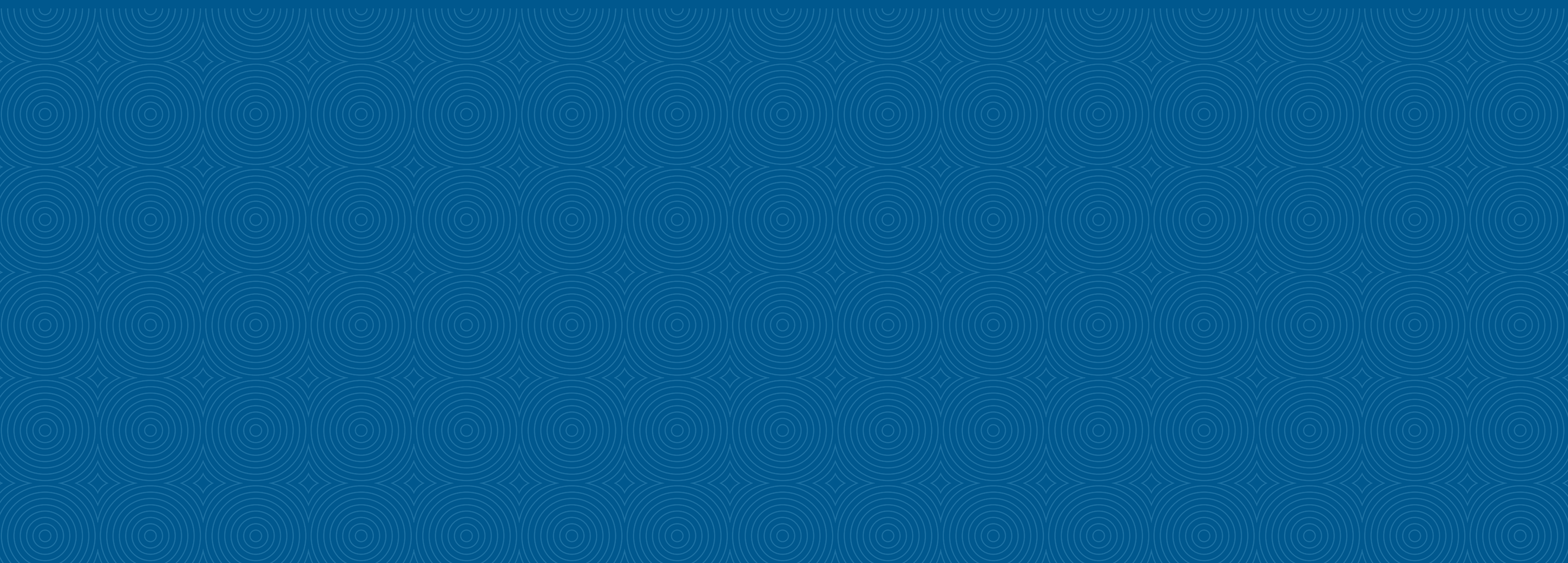
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Hydronic





Profiled Steel Panel

HORIZONTAL AND VERTICAL PROFILED STEEL PANEL



Guaranteed for 5 years

During the many years of production experience, the moulding, welding, assembly and final control of DL Radiators, Plattella panel radiators have reached such a high level of quality and precision that DL Radiators guarantees the line of products for 5 years.

The range

DL Radiators steel panels include the versions:

- Compact with 4 side connections and models 10, 11, 21, 22 and 33;
- PHD 2.0 Panel with valve and 5 connections and models 10, 11, 21, 22, 32,33;
- Steel panel with valve and central connections with the models 11, 21, 22, 33.

PHD 2.0 Panels have a preferential water circulation and the thermostatic valve.

Hygiene panels are included in the product range.

To complete the range there are the Vertical steel panel with 6 connections.

Quality

DL Radiators steel panels are made from top quality 1.25 mm thick steel ideal for deep moulding, with grooves 33.3 mm apart. The heat outputs are determined at Milan Polytechnic according to the EN442 standard.

Packaging

DL Radiators steel panels are packed with plastic corner protection and tough cardboard strips to protect the edges from knocks during transport, then finished with heat shrink tape to protect from damp.

Painting

The top quality painted finish of DL Radiators steel panels is achieved by an industrial process originating in the automotive sector to give each element a glossy long-lasting colour. Plattella radiators are painted using a three-phase system:

- Hot degreasing and basic hot iron phosphatisation
- Electrophoretic dip coating to apply the base colour evenly in the innermost and outermost parts of the panel, followed by baking at 185 °C
- Epoxy powder coating and baking at 170 °C to give the panel a bright glossy finish

The colour is DL Radiators's characteristic RAL9016 white in accordance with DIN 55900.



Brackets included, except for models 10

Blind cap and air vent included, except for models 10

Technical characteristics

- Working pressure 10 bar
- Test pressure 13 bar
- Maximum operating temperature 110 °C
- For NF certification see the website www.marque-nf.com

Standard equipment

- 4 x 1/2" connection, internal thread
- 1 blind cap 1/2" in the package; to be mounted
- 1 air vent 1/2" in the package; to be mounted.
- Superior grid
- Lateral side
- Brackets and supports
 - 2 or 3 GB brackets (depending on the number of welded supports) are provided for the types 11-21-22-33.
 - 4 welded supports up to and including a length of 1600 mm; over this, 6 supports
 - For models 10, the brackets D30 have to be ordered separately

Connection

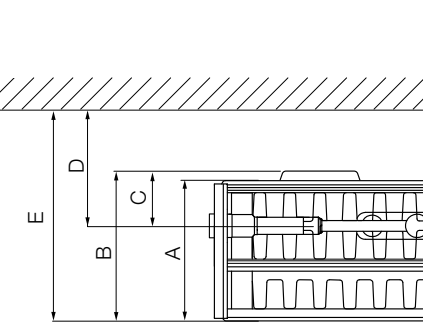
- Compact panel can be connected to a two-pipe installation with high/high same side, high/low opposite side or low/low opposite side connections. The two-pipe connection requires a valve and lockshield (not provided).
- Models 21-22-33 can also be connected to a one-pipe installation with a single connection, using the flow deviator. Models 10 and 11 can be connected to a one-pipe installation, but only with valve with external injection pipe.
- A one-pipe valve is not provided.

Safety

- Compact radiators cannot be inverted around any of the three axes.
- the sides of radiators are fastened with screws, safer than the interlocking system adopted on other panel radiators.

Optional

Brakets and optional accessories are available on dedicated pages.

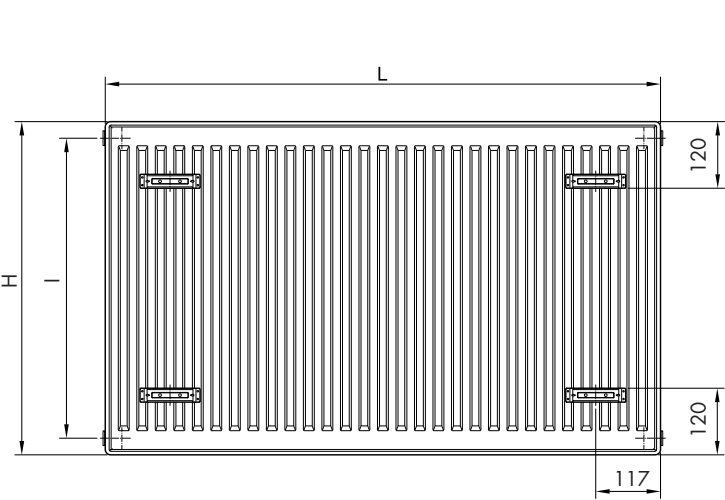


		Dimensions				
		10	11	21	22	33
panel depth excluding back supports	A	63	63	85	100	157
total depth - from the back of the support to the front panel**	B	63	75	94	109	166
distance from the back support to the connection	C	-	40	52	59	59
distance from wall to the centre of the connection (mounting the radiators on the GB brackets provided)*	D	34	54/64	68/76	75/83	75/83
total distance from the wall to the front panel (panel mounted on the GP brackets provided as standard)*	E	69	91/99	110/118	125/133	182/190

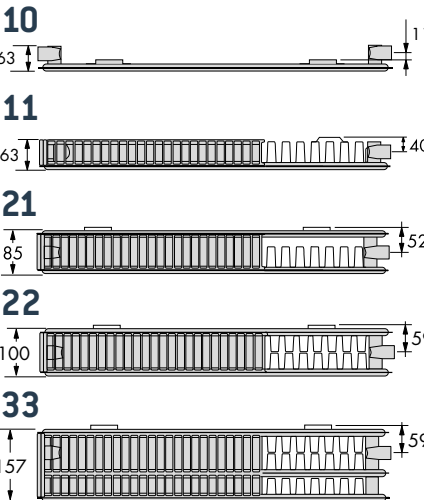
* The total distance varies according to whether the GB bracket is mounted in position A or position B (choice of depth), model 10 mounted on D30 brackets

** Calculating the total size of the panel (from the wall to the front panel) with the chosen wall brackets: the useful length of the chosen bracket must be added to this measurement (see brackets page).

Front view



Top view



Height (H) 300 - Tappings centre (I) 240

		10			11			21			22			33		
Width (mm)		63			63			85			100			157		
Exponent (n)		1,34			1,257			1,260			1,297			1,272		
Lenght (mm)		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	136	110	69	228	186	120	316	257	166	399	324	206	581	472	303
	Code	0181103012			0181243112			0181443112			0181543112			0181743112		
500	Power	170	137	86	285	232	150	395	322	207	499	405	257	726	590	379
	Code	0181103015			0181243115			0181443115			0181543115			0181743115		
600	Power	204	164	103	342	279	180	474	386	249	599	485	308	871	708	455
	Code	0181103018			0181243118			0181443118			0181543118			0181743118		
700	Power	238	192	120	399	325	210	553	450	290	698	566	360	1016	826	531
	Code	0181103021			0181243121			0181443121			0181543121			0181743121		
800	Power	272	219	137	456	372	240	632	515	332	798	647	411	1162	944	606
	Code	0181103024			0181243124			0181443124			0181543124			0181743124		
900	Power	306	246	155	513	418	270	711	579	373	898	728	463	1307	1062	682
	Code	0181103027			0181243127			0181443127			0181543127			0181743127		
1.000	Power	340	274	172	570	464	300	790	643	415	998	809	514	1452	1180	758
	Code	0181103030			0181243130			0181443130			0181543130			0181743130		
1.100	Power	374	301	189	627	511	330	869	708	456	1097	890	565	1597	1298	834
	Code	0181103033			0181243133			0181443133			0181543133			0181743133		
1.200	Power	408	329	206	684	557	360	948	772	498	1197	971	617	1742	1416	910
	Code	0181103036			0181243136			0181443136			0181543136			0181743136		
1.400	Power	476	383	240	798	650	420	1105	901	581	1397	1133	720	2033	1651	1061
	Code	0181103042			0181243142			0181443142			0181543142			0181743142		
1.600	Power	544	438	275	912	743	479	1263	1029	664	1596	1294	822	2323	1887	1213
	Code	0181103048			0181243148			0181443148			0181543148			0181743148		
1.800	Power	612	493	309	1026	836	539	1421	1158	747	1796	1456	925	2614	2123	1364
	Code	0181103054			0181243154			0181443154			0181543154			0181743154		
2.000	Power	680	548	343	1140	929	599	1579	1287	830	1995	1618	1028	2904	2359	1516
	Code	0181103060			0181243160			0181443160			0181543160			0181743160		
2.300	Power	782	630	395	1311	1068	689	1816	1480	954	2294	1861	1182	3340	2713	1743
	Code	0181103069			0181243169			0181443169			0181543169			0181743169		
2.600	Power	884	712	447	1482	1208	779	2053	1673	1079	2594	2104	1336	3775	3067	1971
	Code	0181103078			0181243178			0181443178			0181543178			0181743178		
3.000	Power	1020	822	515	1710	1393	899	2369	1930	1245	2993	2427	1542	4356	3539	2274
	Code	0181103090			0181243190			0181443190			0181543190			0181743190		

Height (H) 400 - Tappings centre (I) 340

		10			11			21			22			33		
Width (mm)		63			63			85			100			157		
Exponent (n)		1,319			1,264			1,270			1,302			1,287		
Lenght (mm)		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	177	142	90	283	230	147	400	337	209	498	403	256	720	583	373
	Code	0181104012			0181244112			0181444112			0181544112			0181744112		
500	Power	221	178	112	354	287	184	501	422	262	623	504	320	900	729	466
	Code	0181104015			0181244115			0181444115			0181544115			0181744115		
600	Power	265	214	135	425	345	221	601	506	314	747	605	384	1080	875	559
	Code	0181104018			0181244118			0181444118			0181544118			0181744118		
700	Power	310	249	157	495	402	258	701	590	366	872	706	448	1260	1021	652
	Code	0181104021			0181244121			0181444121			0181544121			0181744121		
800	Power	354	285	180	566	459	294	801	674	419	996	807	512	1440	1167	746
	Code	0181104024			0181244124			0181444124			0181544124			0181744124		
900	Power	398	321	202	637	517	331	901	759	471	1121	908	576	1620	1313	839

Height (H) 500 - Tappings centre (H) 440

		10			11			21			22			33		
Width (mm)		65			63			85			100			157		
Exponent (n)		1,299			1,270			1,280			1,307			1,324		
Lenght (mm)		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	216	175	111	337	274	176	482	402	251	594	480	305	853	748	472
	Code	0181105012			0181245112			0181445112			0181545112			0181745112		
500	Power	270	219	139	421	343	220	602	503	313	742	601	381	1066	935	590
	Code	0181105015			0181245115			0181445115			0181545115			0181745115		
600	Power	324	262	167	505	411	264	723	604	376	891	721	457	1279	1122	707
	Code	0181105018			0181245118			0181445118			0181545118			0181745118		
700	Power	379	306	195	590	480	308	843	704	438	1039	841	533	1492	1310	825
	Code	0181105021			0181245121			0181445121			0181545121			0181745121		
800	Power	433	350	222	674	548	352	964	805	501	1188	961	609	1706	1497	943
	Code	0181105024			0181245124			0181445124			0181545124			0181745124		
900	Power	487	394	250	758	617	396	1084	905	564	1336	1081	686	1919	1684	1061
	Code	0181105027			0181245127			0181445127			0181545127			0181745127		
1.000	Power	541	437	278	842	685	440	1205	1006	626	1485	1201	762	2132	1871	1179
	Code	0181105030			0181245130			0181445130			0181545130			0181745130		
1.100	Power	595	481	306	927	754	484	1325	1107	689	1633	1321	838	2345	2058	1297
	Code	0181105033			0181245133			0181445133			0181545133			0181745133		
1.200	Power	649	525	334	1011	822	528	1446	1207	752	1782	1441	914	2558	2245	1415
	Code	0181105036			0181245136			0181445136			0181545136			0181745136		
1.400	Power	757	612	389	1179	959	616	1686	1408	877	2079	1681	1067	2985	2619	1651
	Code	0181105042			0181245142			0181445142			0181545142			0181745142		
1.600	Power	865	700	445	1348	1096	704	1927	1610	1002	2376	1922	1219	3411	2993	1886
	Code	0181105048			0181245148			0181445148			0181545148			0181745148		
1.800	Power	973	787	501	1516	1233	792	2168	1811	1127	2672	2162	1371	3838	3367	2122
	Code	0181105054			0181245154			0181445154			0181545154			0181745154		
2.000	Power	1082	874	556	1685	1370	880	2409	2012	1253	2969	2402	1524	4264	3742	2358
	Code	0181105060			0181245160			0181445160			0181545160			0181745160		
2.300	Power	1244	1006	640	1937	1576	1012	2771	2314	1440	3415	2762	1752	4904	4303	2712
	Code	0181105069			0181245169			0181445169			0181545169			0181745169		
2.600	Power	1406	1137	723	2190	1781	1144	3132	2616	1628	3860	3123	1981	5543	4864	3065
	Code	0181105078			0181245178			0181445178			0181545178			0181745178		
3.000	Power	1622	1312	834	2527	2056	1320	3614	3018	1879	4454	3603	2285	6396	5612	3537
	Code	0181105090			0181245190			0181445190			0181545190			0181745190		

Height (H) 600 - Tappings centre (H) 540

		10			11			21			22			33		
Width (mm)		63			63			85			100			157		
Exponent (n)		1,279			1,276			1,290			1,312			1,318		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	254	206	132	391	318	204	561	466	290	688	556	352	982	794	501
	Code	0181106012			0181246112			0181446112			0181546112			0181746112		
500	Power	318	258	165	489	397	255	701	583	363	860	695	440	1227	992	626
	Code	0181106015			0181246115			0181446115			0181546115			0181746115		
600	Power	381	310	198	586	477	305	842	700	435	1032	834	528	1472	1191	751
	Code	0181106018			0181246118			0181446118			0181546118			0181746118		
700	Power	445	361	231	684	556	356	982	816	508	1204	973	616	1718	1389	876
	Code	0181106021			0181246121			0181446121			0181546121			0181746121		
800	Power	509	413	265	782	635	407	1122	933	580	1376	1112	704	1963	1587	1002
	Code	0181106024			0181246124			0181446124			0181546124			0181746124		
900	Power	572	465	298	880	715	458	1262	1049	653	1548	1251	792	2209	1786	1127
	Code	0181106027			0181246127			0181446127			0181546127			0181746127		
1.000	Power	636	516	331	977	794	509	1402,5	1166	725	1720	1390	880	2454	1984	1252
	Code	0181106030			0181246130			0181446130			0181546130			0181746130		
1.100	Power	699	568	364	1075	874	560	1543	1283	798	1892	1529	968	2699	2183	1377
	Code	0181106033			0181246133			0181446133			0181546133			0181746133		
1.200	Power	763	619	397	1173	953	611	1683	1399	870	2064	1668	1056	2945	2381	1502
	Code	0181106036			0181246136			0181446136			0181546136			0181746136		
1.400	Power	890	723	463	1368	1112	713	1964	1632	1015	2408	1946	1232	3436	2778	1753
	Code	0181106042			0181246142			0181446142			0181546142			0181746142		
1.600	Power	1017	826	529	1564	1271	815	2244	1866	1161	2752	2223	1408	3926	3175	2003
	Code	0181106048			0181246148			0181446148			0181546148			0181746148		
1.800	Power	1144	929	595	1759	1430	916	2525	2099	1306	3096	2501	1584	4417	3572	2254
	Code	0181106054			0181246154			0181446154			0181546154			0181746154		
2.000	Power	1272	1032	661	1955	1589	1018	2805	2332	1451	3440	2779	1760	4908	3968	2504
	Code	0181106060			0181246160			0181446160			0181546160			0181746160		
2.300	Power	1462	1187	760	2248	1827	1171	3226	2682	1668	3956	3196	2024	5644	4564	2880
	Code	0181106069			0181246169			0181446169			0181546169			0181746169		
2.600	Power	1653	1342	860	2541	2065	1324	3647	3032	1886	4472	3613	2288	6380	5159	3255
	Code	0181106078			0181246178			0181446178			0181546178			0181746178		
3.000	Power	1907	1549	992	2932	2383	1527	4208	3498	2176	5160	4169	2640	7362	5953	3756
	Code	0181106090			0181246190			0181446190			0181546190			0181746190		



PHD Panel are fitted as standard with the kit for energy saving low temperature operation with preferential heat diffusion, and preset thermostatic valve.

* See the right positions of the connections.

Technical characteristics

- Working pressure 10 bar
- Test pressure 13 bar
- Maximum operating temperature 110 °C

Standard equipment

- Bottom connector 50 mm tappings centre, 3/4" outside thread
- 2 x 1/2" connections, internal thread on opposite side of the thermostatic insert with:
 - 1 x 1/2" blind cap provided, premounted
 - 1 x 1/2" vent plug provided, premounted
- Superior grid
- Lateral side
- Brackets and supports
 - **Models 21, 22 and 33** are without welded back supports and can therefore be mounted on the wall by means of the **F7** quick-fit brackets provided.
 - For types 21-22-33, all the steel panels that have got a bigger Height H than their Length L have got the divisible (separable) F7 brackets in the packaging: this bracket is functionally equal to normal F7 easy bracket (one piece) but is supplied in 2 pieces in order to be placed into the package; in the building site the upper part of the bracket has to be inserted inside the lower part, so that the entire bracket can be set up.
 - For **models 10 and 11**: 4 welded supports up to and including a length of 1600 mm; over this, 6 supports
 - **Models 10, 11** have welded back supports and can be mounted with brackets provided: **GB** for model 11, **D30** for model 10. Alternatively, floor anchors can be used.
- Supplied with preset thermostatic valve on the right; PHD 2.0 panel can be supplied with the insert on the left side (see order code modification).

Models 21 and 22 are symmetric steel panels. It means that, by rotating the PHD internal diaphragm by using the specific tool, the steel panel can be rotated and installed with the valve on the left hand side. The codes for left hand side valve are not available on models 21 and 22. Models 10, 11 and 32 are not symmetric, there are available codes for right and left hand side valve. The code has to be modified as follow: turn the third last number from 3 to 5. Models 33 can be rotated, as models 21 and 22, but the hydraulic connections change. The thermostatic head must be ordered separately

Connection

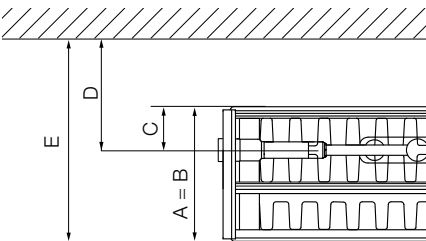
- PHD Panels can be connected to either a one-pipe or two-pipe installation with a distributor with 50 mm tappings centre. The water outlet must always be connected to the inner connection of the connector with 50 mm tappings centre.
- For connection to both two-pipe and one-pipe installations, a distributor is required and must be specifically ordered (see The Plattella Thermostatic Accessories page for the range of distributors available).

Safety

- The sides of DL Radiators panels are fastened with screws, safer than the interlocking system adopted on other panel radiators.

Optional

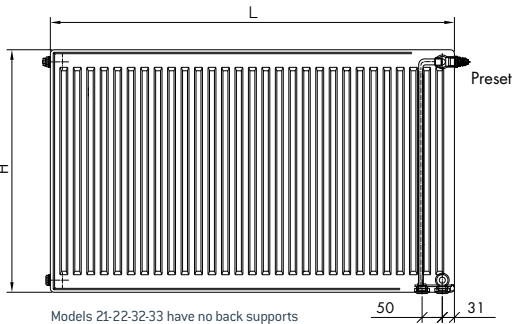
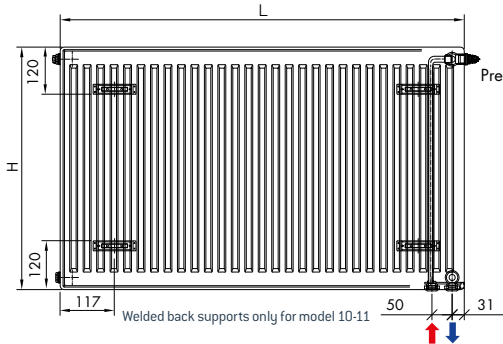
Brakets and optional accessories are available on dedicated pages.



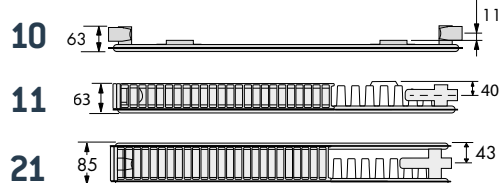
		Dimensions				
		10	11	21	22	33
panel depth excluding back supports	A	63	63	85	100	157
total depth - from the back of the support to the front panel**	B	63	75	85	100	166
distance from the back support to the connection	C	-	40	43	50	50
distance from wall to the centre of the connection (mounting the radiators on correct brackets: F7 for models 21, 22, 33; GB for model 11; D30 for model 10)*	D	34	56/64	73	80	80
total distance from the wall to the front panel (mounting the radiators on correct brackets: F7 for models 21, 22, 33; GB for model 11; D30 for model 10)*	E	69	91/99	115	130	187

* The total distance varies according to whether the GB bracket is mounted in position A or position B (choice of depth), model 10 mounted on D30 brackets
 ** Calculating the total size of the panel (from the wall to the front panel) with the chosen wall brackets: the useful length of the chosen bracket must be added to this measurement (see brackets page)

Front view



Upper view



		10			11			21			22			33		
Width (mm)		63			63			85			100			157		
Exponent (n)		1,34			1,257			1,260			1,297			1,272		
Lenght (mm)		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	136	110	69	228	186	120	316	257	166	399	324	206	581	472	303
	Code	0181103312			0181113312			0H81213312			0H81223312			0H81333312		
500	Power	170	137	86	285	232	150	395	322	207	499	405	257	726	590	379
	Code	0181103315			0181113315			0H81213315			0H81223315			0H81333315		
600	Power	204	164	103	342	279	180	474	386	249	599	485	308	871	708	455
	Code	0181103318			0181113318			0H81213318			0H81223318			0H81333318		
700	Power	238	192	120	399	325	210	553	450	290	698	566	360	1016	826	531
	Code	0181103321			0181113321			0H81213321			0H81223321			0H81333321		
800	Power	272	219	137	456	372	240	632	515	332	798	647	411	1162	944	606
	Code	0181103324			0181113324			0H81213324			0H81223324			0H81333324		
900	Power	306	246	155	513	418	270	711	579	373	898	728	463	1307	1062	682
	Code	0181103327			0181113327			0H81213327			0H81223327			0H81333327		
1.000	Power	340	274	172	570	464	300	790	643	415	998	809	514	1452	1180	758
	Code	0181103330			0181113330			0H81213330			0H81223330			0H81333330		
1.100	Power	374	301	189	627	511	330	869	708	456	1097	890	565	1597	1298	834
	Code	0181103333			0181113333			0H81213333			0H81223333			0H81333333		
1.200	Power	408	329	206	684	557	360	948	772	498	1197	971	617	1742	1416	910
	Code	0181103336			0181113336			0H81213336			0H81223336			0H81333336		
1.400	Power	476	383	240	798	650	420	1105	901	581	1397	1133	720	2033	1651	1061
	Code	0181103342			0181113342			0H81213342			0H81223342			0H81333342		
1.600	Power	544	438	275	912	743	479	1263	1029	664	1294	822	1.239	2323	1887	1213
	Code	0181103348			0181113348			0H81213348			0H81223348			0H81333348		
1.800	Power	612	493	309	1026	836	539	1421	1158	747	1796	1456	925	2614	2123	1364
	Code	0181103354			0181113354			0H81213354			0H81223354			0H81333354		
2.000	Power	680	548	343	1140	929	599	1579	1287	830	1995	1618	1028	2904	2359	1516
	Code	0181103360			0181113360			0H81213360			0H81223360			0H81333360		
2.300	Power	782	630	395	1311	1068	689	1816	1480	954	2294	1861	1182	3340	2713	1743
	Code	0181103369			0181113369			0H81213369			0H81223369			0H81333369		
2.600	Power	884	712	447	1482	1208	779	2053	1673	1079	2594	2104	1336	3775	3067	1971
	Code	0181103378			0181113378			0H81213378			0H81223378			0H81333378		
3.000	Power	1020	822	515	1710	1393	899	2369	1930	1245	2993	2427	1542	4356	3539	2274
	Code	0181103390			0181113390			0H81213390			0H81223390			0H81333390		

For the valve on the left side, you have to turn the third-last number from 3 to 5 (for type 10, 11, 32, 33).

Height (H) 400

		10			11			21			22			33		
Width (mm)		63			63			85			100			157		
Exponent (n)		1,319			1,264			1,270			1,302			1,287		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	177	142	90	283	230	147	400	337	209	498	403	256	720	583	373
	Code	0181104312			0181114312			0H81214312			0H81224312			0H81334312		
500	Power	221	178	112	354	287	184	501	422	262	623	504	320	900	729	466
	Code	0181104315			0181114315			0H81214315			0H81224315			0H81334315		
600	Power	265	214	135	425	345	221	601	506	314	747	605	384	1080	875	559
	Code	0181104318			0181114318			0H81214318			0H81224318			0H81334318		
700	Power	310	249	157	495	402	258	701	590	366	872	706	448	1260	1021	652
	Code	0181104321			0181114321			0H81214321			0H81224321			0H81334321		
800	Power	354	285	180	566	459	294	801	674	419	996	807	512	1440	1167	746
	Code	0181104324			0181114324			0H81214324			0H81224324			0H81334324		
900	Power	398	321	202	637	517	331	901	759	471	1121	908	576	1620	1313	839
	Code	0181104327			0181114327			0H81214327			0H81224327			0H81334327		
1.000	Power	442	356	225	708	574	368	1001	843	523	1245	1008	640	1800	1459	932
	Code	0181104330			0181114330			0H81214330			0H81224330			0H81334330		
1.100	Power	487	392	247	778	632	405	1101	927	576	1370	1109	704	1980	1604	1025
	Code	0181104333			0181114333			0H81214333			0H81224333			0H81334333		
1.200	Power	531	427	270	849	689	441	1201	1012	628	1494	1210	768	2160	1750	1118
	Code	0181104336			0181114336			0H81214336			0H81224336			0H81334336		
1.400	Power	619	499	315	991	804	515	1402	1180	732	1743	1412	896	2520	2042	1305
	Code	0181104342			0181114342			0H81214342			0H81224342			0H81334342		
1.600	Power	708	570	360	1132	919	589	1602	1349	837	1992	1614	1024	2880	2334	1491
	Code	0181104348			0181114348			0H81214348			0H81224348			0H81334348		
1.800	Power	796	641	405	1274	1034	662	1802	1517	942	2241	1815	1152	3240	2625	1678
	Code	0181104354			0181114354			0H81214354			0H81224354			0H81334354		
2.000	Power	885	712	450	1415	1148	736	2002	1686	1046	2490	2017	1280	3600	2917	1864
	Code	0181104360			0181114360			0H81214360			0H81224360			0H81334360		
2.300	Power	1017	819	517	1628	1321	846	2303	1939	1203	2864	2319	1472	4140	3355	2144
	Code	0181104369			0181114369			0H81214369			0H81224369			0H81334369		
2.600	Power	1150	926	585	1840	1493	957	2603	2192	1360	3237	2622	1664	4680	3792	2423
	Code	0181104378			0181114378			0H81214378			0H81224378			0H81334378		
3.000	Power	1327	1068	675	2123	1723	1104	3003	2529	1570	3735	3025	1920	5400	4376	2796
	Code	0181104390			0181114390			0H81214390			0H81224390			0H81334390		

Height (H) 500

		10			11			21			22			33		
Width (mm)		63			63			85			100			157		
Exponent (n)		1,299			1,270			1,280			1,307			1,324		
Lenght (mm)		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	216	175	111	337	274	176	482	402	251	594	480	305	853	748	472
	Code	0181105312			0181115312			0H81215312			0H81225312			0H81335312		
500	Power	270	219	139	421	343	220	602	503	313	742	601	381	1066	935	590
	Code	0181105315			0181115315			0H81215315			0H81225315			0H81335315		
600	Power	324	262	167	505	411	264	723	604	376	891	721	457	1279	1122	707
	Code	0181105318			0181115318			0H81215318			0H81225318			0H81335318		
700	Power	379	306	195	590	480	308	843	704	438	1039	841	533	1492	1310	825
	Code	0181105321			0181115321			0H81215321			0H81225321			0H81335321		
800	Power	433	350	222	674	548	352	964	805	501	1188	961	609	1706	1497	943
	Code	0181105324			0181115324			0H81215324			0H81225324			0H81335324		
900	Power	487	394	250	758	617	396	1084	905	564	1336	1081	686	1919	1684	1061
	Code	0181105327			0181115327			0H81215327			0H81225327			0H81335327		
1.000	Power	437	278	409	842	685	440	1205	1006	626	1485	1201	762	2132	1871	1179
	Code	0181105330			0181115330			0H81215330			0H81225330			0H81335330		
1.100	Power	595	481	306	927	754	484	1325	1107	689	1633	1321	838	2345	2058	1297
	Code	0181105333			0181115333			0H81215333			0H81225333			0H81335333		
1.200	Power	649	525	334	1011	822	528	1446	1207	752	1782	1441	914	2558	2245	1415
	Code	0181105336			0181115336			0H81215336			0H81225336			0H81335336		
1.400	Power	757	612	389	1179	959	616	1686	1408	877	2079	1681	1067	2985	2619	1651
	Code	0181105342			0181115342			0H81215342			0H81225342			0H81335342		
1.600	Power	865	700	445	1348	1096	704	1927	1610	1002	2376	1922	1219	3411	2993	1886
	Code	0181105348			0181115348			0H81215348			0H81225348			0H81335348		
1.800	Power	973	787	501	1516	1233	792	2168	1811	1127	2672	2162	1371	3838	3367	2122
	Code	0181105354			0181115354			0H81215354			0H81225354			0H81335354		
2.000	Power	1082	874	556	1685	1370	880	2409	2012	1253	2969	2402	1524	4264	3742	2358
	Code	0181105360			0181115360			0H81215360			0H81225360			0H81335360		
2.300	Power	1244	1006	640	1937	1576	1012	2771	2314	1440	3415	2762	1752	4904	4303	2712
	Code	0181105369			0181115369			0H81215369			0H81225369			0H81335369		
2.600	Power	1406	1137	723	2190	1781	1144	3132	2616	1628	3860	3123	1981	5543	4864	3065
	Code	0181105378			0181115378			0H81215378			0H81225378			0H81335378		
3.000	Power	1622	1312	834	2527	2056	1320	3614	3018	1879	4454	3603	2285	6396	5612	3537
	Code	0181105390			0181115390			0H81215390			0H81225390			0H81335390		

For the valve on the left side, you have to turn the third-last number from 3 to 5 [for type 10, 11, 32, 33].

Height (H) 600

		10			11			21			22			33		
Width (mm)		63			63			85			100			157		
Exponent (n)		1,279			1,276			1,290			1,312			1,318		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	254	206	132	391	318	204	561	466	290	691	594	557	982	794	501
	Code	0181106312			0181116312			0H81216312			0H81226312			0H81336312		
500	Power	318	258	165	489	397	255	701	583	363	860	695	440	1227	992	626
	Code	0181106315			0181116315			0H81216315			0H81226315			0H81336315		
600	Power	381	310	198	586	477	305	842	700	435	1032	834	528	1472	1191	751
	Code	0181106318			0181116318			0H81216318			0H81226318			0H81336318		
700	Power	445	361	231	684	556	356	982	816	508	1204	973	616	1718	1389	876
	Code	0181106321			0181116321			0H81216321			0H81226321			0H81336321		
800	Power	509	413	265	782	635	407	1122	933	580	1376	1112	704	1963	1587	1002
	Code	0181106324			0181116324			0H81216324			0H81226324			0H81336324		
900	Power	572	465	298	880	715	458	1262	1049	653	1548	1251	792	2209	1786	1127
	Code	0181106327			0181116327			0H81216327			0H81226327			0H81336327		
1.000	Power	636	516	331	977	794	509	1402,5	1166	725	1720	1390	880	2454	1984	1252
	Code	0181106330			0181116330			0H81216330			0H81226330			0H81336330		
1.100	Power	699	568	364	1075	874	560	1543	1283	798	1892	1529	968	2699	2183	1377
	Code	0181106333			0181116333			0H81216333			0H81226333			0H81336333		
1.200	Power	763	619	397	1173	953	611	1683	1399	870	2064	1668	1056	2945	2381	1502
	Code	0181106336			0181116336			0H81216336			0H81226336			0H81336336		
1.400	Power	890	723	463	1368	1112	713	1964	1632	1015	2408	1946	1232	3436	2778	1753
	Code	0181106342			0181116342			0H81216342			0H81226342			0H81336342		
1.600	Power	1017	826	529	1564	1271	815	2244	1866	1161	2752	2223	1408	3926	3175	2003
	Code	0181106348			0181116348			0H81216348			0H81226348			0H81336348		
1.800	Power	1144	929	595	1759	1430	916	2525	2099	1306	3096	2501	1584	4417	3572	2254
	Code	0181106354			0181116354			0H81216354			0H81226354			0H81336354		
2.000	Power	1272	1032	661	1955	1589	1018	2805	2332	1451	3440	2779	1760	4908	3968	2504
	Code	0181106360			0181116360			0H81216360			0H81226360			0H81336360		
2.300	Power	1462	1187	760	2248	1827	1171	3226	2682	1668	3956	3196	2024	5644	4564	2880
	Code	0181106369			0181116369			0H81216369			0H81226369			0H81336369		
2.600	Power	1653	1342	860	2541	2065	1324	3647	3032	1886	4472	3613	2288	6380	5159	3255
	Code	0181106378			0181116378			0H81216378			0H81226378			0H81336378		
3.000	Power	1907	1549	992	2932	2383	1527	4208	3498	2176	5160	4169	2640	7362	5953	3756
	Code	0181106390			0181116390			0H81216390			0H81226390			0H81336390		

PHD 2.0 Panel with central connection and valve



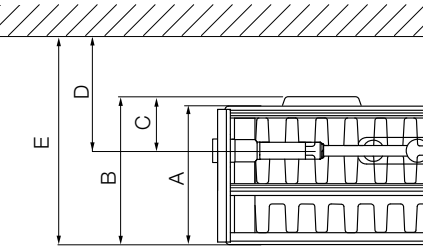
New Product

Blind cap and air vent included

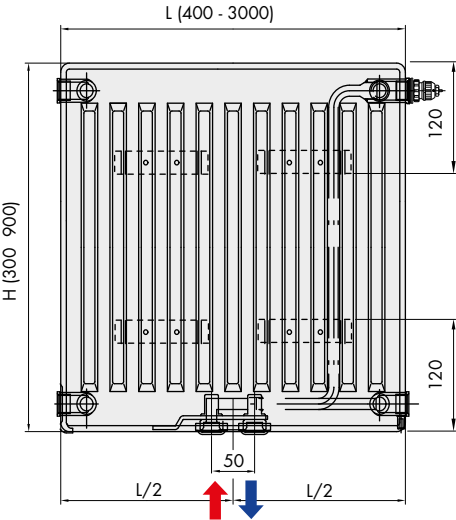
Presetted valve included

PHD Panel are fitted as standard with the kit for energy saving low temperature operation with preferential heat diffusion, and preset thermostatic valve.

Panels with central connection are fitted with preset thermostatic valve.



Front view



Technical characteristics

- Working pressure 10 bar
- Test pressure 13 bar
- Maximum operating temperature 110° C
- For NF certification see the website www.marque-nf.com

Standard equipment

- bottom connector 50mm tappings centre, 3/4" outside thread
- 3 x 1/2" connections, inside thread, on two sides;
- 2 x 1/2" blind caps provided, to be mounted
- 1 x 1/2" vent plug provided, to be mounted
- Superior grid
- Lateral side
- Supports
 - all models are supplied with welded back supports;
 - 4 welded supports up to and including a length of 1600 mm; over this, 6 supports
- supplied with thermostatic insert on the right side; DL Radiators Panel radiators can be supplied with the insert on the left side (see order code modification)

- the thermostatic head must be ordered separately

Connection

- DL Radiators panel with central connection can be connected to either a one-pipe or two-pipe installation with a 50mm tappings centre distributor. The water outlet must always be connected to the right connection of the connection with 50 mm tappings centre.
- For connection to both two-pipe and one-pipe installations, a distributor is required and must be specifically ordered (see the Plattella with central connection accessories page for the range of distributors available).

Safety

- Radiators with thermostatic valve and central connection cannot be inverted around any of the three axes.
- The sides panels with central connection are fastened with screws, safer than the interlocking system adopted on other panel radiators; both sides have two openings for the connections.

Optional

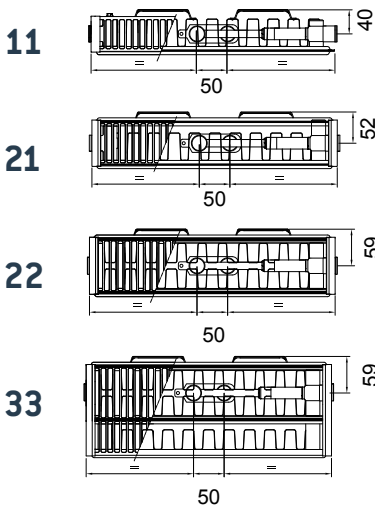
Brackets and optional accessories are available on dedicated pages.

		Dimensions			
		11	21	22	33
panel depth - excluding back supports	A	63	85	100	157
total depth - from the back of the support to the front panel**	B	75	94	109	166
distance from the back support to the connection	C	40	52	59	59
distance from wall to the centre of the connection (mounting the radiators on the GB brackets provided)*	D	54/64	68/76	75/83	75/83
total distance from the wall to the front panel (panel mounted on the GP brackets provided as standard)*	E	91/99	110/118	125/133	182/190

* The total distance varies according to whether the GB bracket is mounted in position A or position B (choice of depth)

** Calculating the total size of the panel (from the wall to the front panel) with the chosen wall brackets: the useful length of the chosen bracket must be added to this measurement (see brackets page)

Upper view



		11			21			22			33		
Width (mm)		63			85			100			157		
Exponent (n)		1,257			1,260			1,297			1,272		
Lenght (mm)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
		W	W	W	W	W	W	W	W	W	W	W	W
400	Power	228	186	120	316	257	166	399	324	206	581	472	303
	Code	0H10253112			0H10453112			0H10553112			0H10753112		
500	Power	285	232	150	395	322	207	499	405	257	726	590	379
	Code	0H10253115			0H10453115			0H10553115			0H10753115		
600	Power	342	279	180	474	386	249	599	485	308	871	708	455
	Code	0H10253118			0H10453118			0H10553118			0H10753118		
700	Power	399	325	210	553	450	290	698	566	360	1016	826	531
	Code	0H10253121			0H10453121			0H10553121			0H10753121		
800	Power	456	372	240	632	515	332	798	647	411	1162	944	606
	Code	0H10253124			0H10453124			0H10553124			0H10753124		
900	Power	513	418	270	711	579	373	898	728	463	1307	1062	682
	Code	0H10253127			0H10453127			0H10553127			0H10753127		
1.000	Power	570	464	300	790	643	415	998	809	514	1452	1180	758
	Code	0H10253130			0H10453130			0H10553130			0H10753130		
1.100	Power	627	511	330	869	708	456	1097	890	565	1597	1298	834
	Code	0H10253133			0H10453133			0H10553133			0H10753133		
1.200	Power	684	557	360	948	772	498	1197	971	617	1742	1416	910
	Code	0H10253136			0H10453136			0H10553136			0H10753136		
1.400	Power	798	650	420	1105	901	581	1397	1133	720	2033	1651	1061
	Code	0H10253142			0H10453142			0H10553142			0H10753142		
1.600	Power	912	743	479	1263	1029	664	1596	1294	822	2323	1887	1213
	Code	0H10253148			0H10453148			0H10553148			0H10753148		
1.800	Power	1026	836	539	1421	1158	747	1796	1456	925	2614	2123	1364
	Code	0H10253154			0H10453154			0H10553154			0H10753154		
2.000	Power	1140	929	599	1579	1287	830	1995	1618	1028	2904	2359	1516
	Code	0H10253160			0H10453160			0H10553160			0H10753160		
2.300	Power	1311	1068	689	1816	1480	954	2294	1861	1182	3340	2713	1743
	Code	0H10253169			0H10453169			0H10553169			0H10753169		
2.600	Power	1482	1208	779	2053	1673	1079	2594	2104	1336	3775	3067	1971
	Code	0H10253178			0H10453178			0H10553178			0H10753178		
3.000	Power	1710	1393	899	2369	1930	1245	2993	2427	1542	4356	3539	2274
	Code	0H10253190			0H10453190			0H10553190			0H10753190		

For the valve on the left side, you have to turn the third-last number from 1 to 3.

		11			21			22			33		
Width (mm)		63			85			100			157		
Exponent (n)		1,264			1,270			1,302			1,287		
Lenght (mm)		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
		W	W	W	W	W	W	W	W	W	W	W	W
400	Power	283	230	147	400	337	209	498	403	256	720	583	373
	Code	0H10254112			0H10454112			0H10554112			0H10754112		
500	Power	354	287	184	501	422	262	623	504	320	900	729	466
	Code	0H10254115			0H10454115			0H10554115			0H10754115		
600	Power	425	345	221	601	506	314	747	605	384	1080	875	559
	Code	0H10254118			0H10454118			0H10554118			0H10754118		
700	Power	495	402	258	701	590	366	872	706	448	1260	1021	652
	Code	0H10254121			0H10454121			0H10554121			0H10754121		
800	Power	566	459	294	801	674	419	996	807	512	1440	1167	746
	Code	0H10254124			0H10454124			0H10554124			0H10754124		
900	Power	637	517	331	901	759	471	1121	908	576	1620	1313	839
	Code	0H10254127			0H10454127			0H10554127			0H10754127		
1.000	Power	708	574	368	1001	843	523	1245	1008	640	1800	1459	932
	Code	0H10254130			0H10454130			0H10554130			0H10754130		
1.100	Power	778	632	405	1101	927	576	1370	1109	704	1980	1604	1025
	Code	0H10254133			0H10454133			0H10554133			0H10754133		
1.200	Power	849	689	441	1201	1012	628	1494	1210	768	2160	1750	1118
	Code	0H10254136			0H10454136			0H10554136			0H10754136		
1.400	Power	991	804	515	1402	1180	732	1743	1412	896	2520	2042	1305
	Code	0H10254142			0H10454142			0H10554142			0H10754142		
1.600	Power	1132	919	589	1602	1349	837	1992	1614	1024	2880	2334	1491
	Code	0H10254148			0H10454148			0H10554148			0H10754148		
1.800	Power	1274	1034	662	1802	1517	942	2241	1815	1152	3240	2625	1678
	Code	0H10254154			0H10454154			0H10554154			0H10754154		
2.000	Power	1415	1148	736	2002	1686	1046	2490	2017	1280	3600	2917	1864
	Code	0H10254160			0H10454160			0H10554160			0H10754160		
2.300	Power	1628	1321	846	2303	1939	1203	2864	2319	1472	4140	3355	2144
	Code	0H10254169			0H10454169			0H10554169			0H10754169		
2.600	Power	1840	1493	957	2603	2192	1360	3237	2622	1664	4680	3792	2423
	Code	0H10254178			0H10456178			0H10554178			0H10754178		
3.000	Power	2123	1723	1104	3003	2529	1570	3735	3025	1920	5400	4376	2796
	Code	0H10254190			0H10454190			0H10554190			0H10754190		

Height (H) 500

		11			21			22			33		
Width (mm)		63			85			100			157		
Exponent (n)		1,270			1,280			1,307			1,324		
Lenght (mm)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
400	Power	337	274	176	482	402	251	594	480	305	853	748	472
	Code	OH10255112			OH10455112			OH10555112			OH10755112		
500	Power	421	343	220	602	503	313	742	601	381	1066	935	590
	Code	OH10255115			OH10455115			OH10555115			OH10755115		
600	Power	505	411	264	723	604	376	891	721	457	1279	1122	707
	Code	OH10255118			OH10455118			OH10555118			OH10755118		
700	Power	590	480	308	843	704	438	1039	841	533	1492	1310	825
	Code	OH10255121			OH10455121			OH10555121			OH10755121		
800	Power	674	548	352	964	805	501	1188	961	609	1706	1497	943
	Code	OH10255124			OH10455124			OH10555124			OH10755124		
900	Power	758	617	396	1084	905	564	1336	1081	686	1919	1684	1061
	Code	OH10255127			OH10455127			OH10555127			OH10755127		
1.000	Power	842	685	440	1205	1006	626	1485	1201	762	2132	1871	1179
	Code	OH10255130			OH10455130			OH10555130			OH10755130		
1.100	Power	927	754	484	1325	1107	689	1633	1321	838	2345	2058	1297
	Code	OH10255133			OH10455133			OH10555133			OH10755133		
1.200	Power	1011	822	528	1446	1207	752	1782	1441	914	2558	2245	1415
	Code	OH10255136			OH10455136			OH10555136			OH10755136		
1.400	Power	1179	959	616	1686	1408	877	2079	1681	1067	2985	2619	1651
	Code	OH10255142			OH10455142			OH10555142			OH10755142		
1.600	Power	1348	1096	704	1927	1610	1002	2376	1922	1219	3411	2993	1886
	Code	OH10255148			OH10455148			OH10555148			OH10755148		
1.800	Power	1516	1233	792	2168	1811	1127	2672	2162	1371	3838	3367	2122
	Code	OH10255154			OH10455154			OH10555154			OH10755154		
2.000	Power	1685	1370	880	2409	2012	1253	2969	2402	1524	4264	3742	2358
	Code	OH10255160			OH10455160			OH10555160			OH10755160		
2.300	Power	1937	1576	1012	2771	2314	1440	3415	2762	1752	4904	4303	2712
	Code	OH10255169			OH10455169			OH10555169			OH10755169		
2.600	Power	2190	1781	1144	3132	2616	1628	3860	3123	1981	5543	4864	3065
	Code	OH10255178			OH10455178			OH10555178			OH10755178		
3.000	Power	2527	2056	1320	3614	3018	1879	4454	3603	2285	6396	5612	3537
	Code	OH10255190			OH10455190			OH10555190			OH10755190		

For the valve on the left side, you have to turn the third-last number from 1 to 3.

Height (H) 600

		11			21			22			33		
Width (mm)		63			85			100			157		
Exponent (n)		1,276			1,290			1,312			1,318		
Lenght (mm)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
400	Power	391	318	204	561	466	290	688	556	352	982	794	501
	Code	OH10256112			OH10456112			OH10556112			OH10756112		
500	Power	489	397	255	701	583	363	860	695	440	1227	992	626
	Code	OH10256115			OH10456115			OH10556115			OH10756115		
600	Power	586	477	305	842	700	435	1032	834	528	1472	1191	751
	Code	OH10256118			OH10456118			OH10556118			OH10756118		
700	Power	684	556	356	982	816	508	1204	973	616	1718	1389	876
	Code	OH102561121			OH10456121			OH10556121			OH10756121		
800	Power	782	635	407	1122	933	580	1376	1112	704	1963	1587	1002
	Code	OH10256124			OH10456124			OH10556124			OH10756124		
900	Power	880	715	458	1262	1049	653	1548	1251	792	2209	1786	1127
	Code	OH10256127			OH10456127			OH10556127			OH10756127		
1.000	Power	977	794	509	1402,5	1166	725	1720	1390	880	2454	1984	1252
	Code	OH10256130			OH10456130			OH10556130			OH10756130		
1.100	Power	1075	874	560	1543	1283	798	1892	1529	968	2699	2183	1377
	Code	OH10256133			OH10456133			OH10556133			OH10756133		
1.200	Power	1173	953	611	1683	1399	870	2064	1668	1056	2945	2381	1502
	Code	OH10256136			OH10456136			OH10556136			OH10756136		
1.400	Power	1368	1112	713	1964	1632	1015	2408	1946	1232	3436	2778	1753
	Code	OH10256142			OH10456142			OH10556142			OH10756142		
1.600	Power	1564	1271	815	2244	1866	1161	2752	2223	1408	3926	3175	2003
	Code	OH10256148			OH10456148			OH10556148			OH10756148		
1.800	Power	1759	1430	916	2525	2099	1306	3096	2501	1584	4417	3572	2254
	Code	OH10256154			OH10456154			OH10556154			OH10756154		
2.000	Power	1955	1589	1018	2805	2332	1451	3440	2779	1760	4908	3968	2504
	Code	OH10256160			OH10456160			OH10556160			OH10756160		
2.300	Power	2248	1827	1171	3226	2682	1668	3956	3196	2024	5644	4564	2880
	Code	OH10256169			OH10456169			OH10556169			OH10756169		
2.600	Power	2541	2065	1324	3647	3032	1886	4472	3613	2288	6380	5159	3255
	Code	OH10256178			OH10456178			OH10556178			OH10756178		
3.000	Power	2932	2383	1527	4208	3498	2176	5160	4169	2640	7362	5953	3756
	Code	OH10256190			OH10456190			OH10556190			OH10756190		

For the valve on the left side, you have to turn the third-last number from 1 to 3.

Height (H) 700

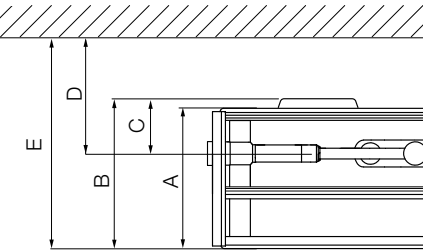
		11			21			22			33		
Width (mm)		63			85			100			157		
Exponent (n)		1,280			1,299			1,319			1,328		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W	W	W	W
400	Power	446	362	232	638	529	335	781	630	398	1107	893	562
	Code	0H10257112			0H104567112			0H10557112			0H10757112		
500	Power	557	452	290	798	662	419	977	787	498	1384	1116	703
	Code	0H10257115			0H104567115			0H10557115			0H10757115		
600	Power	668	543	347	958	794	503	1172	944	597	1661	1340	844
	Code	0H10257118			0H104567118			0H10557118			0H10757118		
700	Power	780	633	405	1117	926	587	1367	1102	697	1938	1563	984
	Code	0H10257121			0H104567121			0H10557121			0H10757121		
800	Power	891	724	463	1277	1058	670	1562	1259	796	2214	1786	1125
	Code	0H10257124			0H104567124			0H10557124			0H10757124		
900	Power	1003	814	521	1436	1191	754	1758	1416	896	2491	2009	1265
	Code	0H10257127			0H104567127			0H10557127			0H10757127		
1.000	Power	1114	905	579	1596	1323	838	1953	1574	995	2768	2233	1406
	Code	0H10257130			0H104567130			0H10557130			0H10757130		
1.100	Power	1225	995	637	1756	1455	922	2148	1731	1095	3045	2456	1546
	Code	0H10257133			0H104567133			0H10557133			0H10757133		
1.200	Power	1337	1085	695	1915	1588	1006	2344	1889	1194	3322	2679	1687
	Code	0H10257136			0H104567136			0H10557136			0H10757136		
1.400	Power	1559	1266	811	2234	1852	1173	2734	2203	1393	3875	3126	1968
	Code	0H10257142			0H104567142			0H10557142			0H10757142		
1.600	Power	1782	1447	926	2554	2117	1341	3125	2518	1592	4429	3572	2249
	Code	0H10257148			0H104567148			0H10557148			0H10757148		
1.800	Power	2005	1628	1042	2873	2381	1508	3515	2833	1791	4982	4019	2531
	Code	0H10257154			0H104567154			0H10557154			0H10757154		
2.000	Power	2228	1809	1158	3192	2646	1676	3906	3148	1990	5536	4465	2812
	Code	0H10257160			0H104567160			0H10557160			0H10757160		
2.300	Power	2562	2081	1332	3671	3043	1927	4492	3620	2289	6366	5135	3234
	Code	0H10257169			0H104567169			0H10557169			0H10757169		
2.600	Power	2896	2352	1505	4150	3440	2179	5078	4092	2587	7197	5805	3655
	Code	0H10257178			0H104567178			0H10557178			0H10757178		
3.000	Power	3342	2714	1737	4788	3969	2514	5859	4721	2985	8304	6698	4218
	Code	0H10257190			0H104567190			0H10557190			0H10757190		

Hygiene Compact Panel



Brackets included, except for models 10

Hygiene radiators are designed for quick easy cleaning in every corner as there are no internal convectors (spaces where dust normally accumulates), or grille or side radiators which prevent cleaning.



Features

Technical characteristics

- Working pressure 10 bar
- Test pressure 13 bar
- Maximum operating temperature 110° C
- RAL Certification in models 10

Standard equipment

- 4 x 1/2" connection, internal thread
- Brackets and supports
 - 4 welded supports up to and including a length of 1600mm; over this, 6 supports
 - a choice of other brackets is available on the relative page.
 - no brackets are provided with model 10; models 20-30, 2 or 3 GB brackets are provided, depending on the number of welded supports

Connection

- DL Radiators Hygiene compact panel radiators can be connected to a two-pipe installation with high/high same side, high/low opposite side or low/low opposite side connections. The two-pipe connection requires a valve and lockshield (not provided).
- Models 20-30 can also be connected to a one-pipe installation with a single connection, using the De'Longhi flow deviator. Model 10 can be connected to a one-pipe installation, but only with valve with external probe.
- A one-pipe valve is not provided.

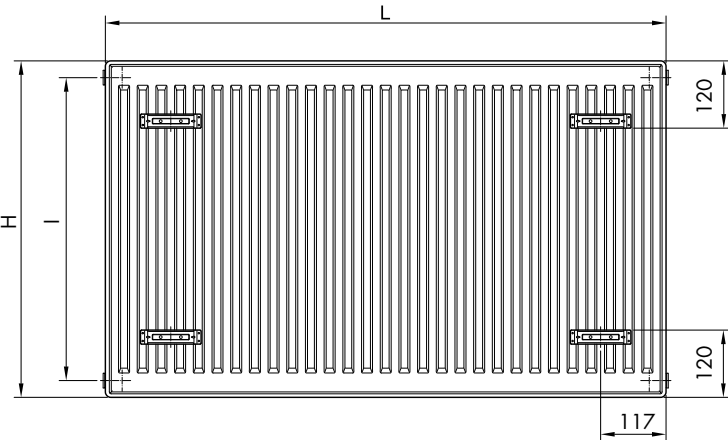
Safety

- Compact radiators cannot be inverted around any of the three axes.

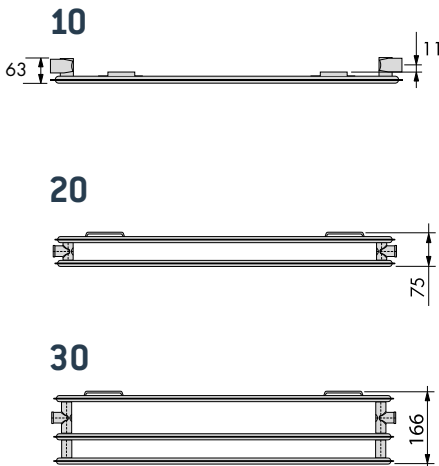
Optional

Brakets and optional accessories are available on dedicated pages.

Front view



Upper view



Height (H) 300 - Tappings centre (I) 240

		10			20			30		
Width (mm)		63			66			157		
Exponent (n)		1,34			1,276			1,285		
Lenght (mm)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
400	Power	136	110	69	231	188	120	335	272	174
	Code	0181103012			0181203012			0181303012		
500	Power	170	137	86	289	234	150	419	340	217
	Code	0181103015			0181203015			0181303015		
600	Power	204	164	103	346	281	180	502	407	260
	Code	0181103018			0181203018			0181303018		
700	Power	238	192	120	404	328	210	586	475	304
	Code	0181103021			0181203021			0181303021		
800	Power	272	219	137	462	375	241	670	543	347
	Code	0181103024			0181203024			0181303024		
900	Power	306	246	155	519	422	271	753	611	391
	Code	0181103027			0181203027			0181303027		
1.000	Power	340	274	172	577	469	301	837	679	434
	Code	0181103030			0181203030			0181303030		
1.100	Power	374	301	189	635	516	331	921	747	477
	Code	0181103033			0181203033			0181303033		
1.200	Power	408	329	206	692	563	361	1004	815	521
	Code	0181103036			0181203036			0181303036		
1.400	Power	476	383	240	808	657	421	1172	951	608
	Code	0181103042			0181203042			0181303042		
1.600	Power	544	438	275	923	750	481	1339	1087	694
	Code	0181103048			0181203048			0181303048		
1.800	Power	612	493	309	1039	844	541	1507	1222	781
	Code	0181103054			0181203054			0181303054		
2.000	Power	680	548	343	1154	938	601	1674	1358	868
	Code	0181103060			0181203060			0181303060		
2.300	Power	782	630	395	1327	1079	692	1925	1562	998
	Code	0181103069			0181203069			0181303069		
2.600	Power	884	712	447	1500	1219	782	2176	1766	1128
	Code	0181103078			0181203078			0181303078		
3.000	Power	1020	822	515	1731	1407	902	2511	2037	1302
	Code	0181103090			0181203090			0181303090		

Height (H) 400 - Tappings centre (I) 340

		10			20			30		
Width (mm)		63			66			157		
Exponent (n)		1,319			1,28			1,296		
Lenght (mm)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
400	Power	177	142	90	284	230	147	417	338	215
	Code	0181104012			0181204012			0181304012		
500	Power	221	178	112	355	288	184	522	422	269
	Code	0181104015			0181204015			0181304015		
600	Power	265	214	135	426	345	221	626	506	323
	Code	0181104018			0181204018			0181304018		
700	Power	310	249	157	497	403	258	730	591	377
	Code	0181104021			0181204021			0181304021		
800	Power	354	285	180	568	460	295	834	675	430
	Code	0181104024			0181204024			0181304024		
900	Power	398	321	202	639	518	332	939	760	484
	Code	0181104027			0181204027			0181304027		
1.000	Power	442	356	225	710	575	368	1043	844	538
	Code	0181104030			0181204030			0181304030		
1.100	Power	487	392	247	781	633	405	1147	928	592
	Code	0181104033			0181204033			0181304033		
1.200	Power	531	427	270	852	690	442	1252	1013	646
	Code	0181104036			0181204036			0181304036		
1.400	Power	619	499	315	994	805	516	1460	1182	753
	Code	0181104042			0181204042			0181304042		
1.600	Power	708	570	360	1136	921	589	1669	1350	861
	Code	0181104048			0181204048			0181304048		
1.800	Power	796	641	405	1278	1036	663	1877	1519	968
	Code	0181104054			0181204054			0181304054		
2.000	Power	885	712	450	1420	1151	737	2086	1688	1076
	Code	0181104060			0181204060			0181304060		
2.300	Power	1017	819	517	1633	1323	847	2399	1941	1237
	Code	0181104069			0181204069			0181304069		
2.600	Power	1150	926	585	1846	1496	958	2712	2195	1399
	Code	0181104078			0181204078			0181304078		
3.000	Power	1327	1068	675	2130	1726	1105	3129	2532	1614
	Code	0181104090			0181204090			0181304090		

Height (H) 500 - Tappings centre (I) 440

		10			20			30		
Width (mm)		63			66			157		
Exponent (n)		1,299			1,284			1,307		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W
400	Power	216	175	111	337	273	175	496	401	255
	Code	0181105012			0181205012			0181305012		
500	Power	270	219	139	422	342	218	621	501	319
	Code	0181105015			0181205015			0181305015		
600	Power	324	262	167	506	410	262	745	602	382
	Code	0181105018			0181205018			0181305018		
700	Power	379	306	195	590	478	306	869	702	446
	Code	0181105021			0181205021			0181305021		
800	Power	433	350	222	674	547	350	993	802	510
	Code	0181105024			0181205024			0181305024		
900	Power	487	394	250	759	615	393	1117	902	573
	Code	0181105027			0181205027			0181305027		
1.000	Power	541	437	278	843	683	437	1241	1003	637
	Code	0181105030			0181205030			0181305030		
1.100	Power	595	481	306	927	752	481	1365	1103	701
	Code	0181105033			0181205033			0181305033		
1.200	Power	649	525	334	1012	820	524	1489	1203	764
	Code	0181105036			0181205036			0181305036		
1.400	Power	757	612	389	1180	957	612	1737	1404	892
	Code	0181105042			0181205042			0181305042		
1.600	Power	865	700	445	1349	1093	699	1986	1604	1019
	Code	0181105048			0181205048			0181305048		
1.800	Power	973	787	501	1517	1230	786	2234	1805	1147
	Code	0181105054			0181205054			0181305054		
2.000	Power	1082	874	556	1686	1367	874	2482	2005	1274
	Code	0181105060			0181205060			0181305060		
2.300	Power	1244	1006	640	1939	1572	1005	2854	2306	1465
	Code	0181105069			0181205069			0181305069		
2.600	Power	1406	1137	723	2192	1777	1136	3227	2607	1656
	Code	0181105078			0181205078			0181305078		
3.000	Power	1622	1312	834	2529	2050	1311	3723	3008	1911
	Code	0181105090			0181205090			0181305090		

Height (H) 600 - Tappings centre (I) 540

		10			20			30		
Width (mm)		63			66			157		
Exponent (n)		1,279			1,288			1,318		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W
400	Power	254	206	132	392	317	203	574	463	293
	Code	0181106012			0181206012			0181306012		
500	Power	318	258	165	490	397	254	718	579	366
	Code	0181106015			0181206015			0181306015		
600	Power	381	310	198	587	476	304	862	695	439
	Code	0181106018			0181206018			0181306018		
700	Power	445	361	231	685	555	355	1005	810	513
	Code	0181106021			0181206021			0181306021		
800	Power	509	413	265	783	634	406	1149	926	586
	Code	0181106024			0181206024			0181306024		
900	Power	572	465	298	881	714	456	1292	1042	659
	Code	0181106027			0181206027			0181306027		
1.000	Power	636	516	331	979	793	507	1436	1158	732
	Code	0181106030			0181206030			0181306030		
1.100	Power	699	568	364	1077	872	558	1580	1273	806
	Code	0181106033			0181206033			0181306033		
1.200	Power	763	619	397	1175	952	608	1723	1389	879
	Code	0181106036			0181206036			0181306036		
1.400	Power	890	723	463	1371	1110	710	2010	1621	1025
	Code	0181106042			0181206042			0181306042		
1.600	Power	1017	826	529	1566	1269	811	2298	1852	1172
	Code	0181106048			0181206048			0181306048		
1.800	Power	1144	929	595	1762	1428	913	2585	2084	1318
	Code	0181106054			0181206054			0181306054		
2.000	Power	1272	1032	661	1958	1586	1014	2872	2315	1465
	Code	0181106060			0181206060			0181306060		
2.300	Power	1462	1187	760	2252	1824	1166	3303	2663	1684
	Code	0181106069			0181206069			0181306069		
2.600	Power	1653	1342	860	2545	2062	1318	3734	3010	1904
	Code	0181106078			0181206078			0181306078		
3.000	Power	1907	1549	992	2937	2379	1521	4308	3473	2197
	Code	0181106090			0181206090			0181306090		

Height (H) 700 - Tappings centre (I) 640

		10			20			30		
Width (mm)		63			66			157		
Exponent (n)		1,285			1,29			1,318		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W
400	Power	291	237	151	448	363	232	652	527	332
	Code	0181107012			0181207012			0181307012		
500	Power	364	296	189	560	454	290	815	659	416
	Code	0181107015			0181207015			0181307015		
600	Power	437	355	227	671	545	347	977	790	499
	Code	0181107018			0181207018			0181307018		
700	Power	509	414	265	783	636	405	1140	922	582
	Code	0181107021			0181207021			0181307021		
800	Power	582	473	302	895	726	463	1303	1054	665
	Code	0181107024			0181207024			0181307024		
900	Power	655	532	340	1007	817	521	1466	1186	748
	Code	0181107027			0181207027			0181307027		
1.000	Power	728	591	378	1119	908	579	1629	1317	831
	Code	0181107030			0181207030			0181307030		
1.100	Power	800	650	416	1231	999	637	1792	1449	914
	Code	0181107033			0181207033			0181307033		
1.200	Power	873	710	454	1343	1090	695	1955	1581	997
	Code	0181107036			0181207036			0181307036		
1.400	Power	1019	828	529	1567	1271	811	2281	1844	1163
	Code	0181107042			0181207042			0181307042		
1.600	Power	1164	946	605	1790	1453	926	2606	2108	1330
	Code	0181107048			0181207048			0181307048		
1.800	Power	1310	1064	680	2014	1634	1042	2932	2371	1496
	Code	0181107054			0181207054			0181307054		
2.000	Power	1455	1183	756	2238	1816	1158	3258	2634	1662
	Code	0181107060			0181207060			0181307060		
2.300	Power	1674	1360	869	2574	2088	1332	3747	3030	1911
	Code	0181107069			0181207069			0181307069		
2.600	Power	1892	1537	983	2909	2361	1505	4235	3425	2161
	Code	0181107078			0181207078			0181307078		
3.000	Power	2183	1774	1134	3357	2724	1737	4887	3952	2493
	Code	0181107090			0181207090			0181307090		

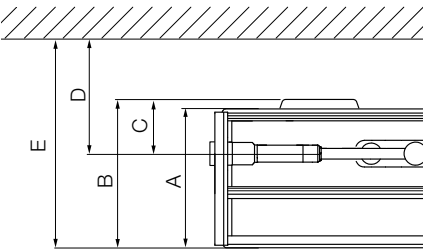
PHD 2.0 Hygiene Panel with valve



- Brackets included
- Blind cap and air vent included
- Presetted valve included

All DL Radiators Hygiene PHD 2.0 Panels are fitted as standard with the kit for energy saving low temperature operation with preferential heat diffusion, and preset thermostatic valve.

Hygiene radiators are designed for quick easy cleaning in every corner as there are no internal convectors (spaces where dust normally accumulates), or grille or side radiators which prevent cleaning.



Technical characteristics

- Working pressure 10 bar
- Test pressure 13 bar
- Maximum operating temperature 110° C

Standard equipment

- Bottom connector 50mm tappings centre, 3/4" outside thread
- 2 x 1/2" connections, internal thread on opposite side of thermostatic insert with:
 - 1 x 1/2" blind cap provided, premounted
 - 1 x 1/2" vent plug provided, premounted – PHD Radiators are not symmetrical.
- All models have back supports and the valve is positioned on the right as standard
- Brackets and support
 - all models have welded back supports and GB brackets provided (D30 for type 10)
- Supplied with preset thermostatic valve on the right; DL Radiators panels can be supplied with the insert on the left side (see order code modification)
- The thermostatic head must be ordered separately

Connection

- DL Radiators Hygiene PHD panel can be connected to either a one-pipe or two-pipe installation with a distributor with 50mm tappings centre. The water outlet must always be connected to the inner connection of the connector with 50mm tappings centre.
- For connection to both two-pipe and one-pipe installations, a distributor is required and must be specifically ordered (see Plattella Hygiene radiators Accessories page for the range of distributors available).

Safety

- Radiators with thermostatic valve cannot be inverted around any of the three axes.

Optional

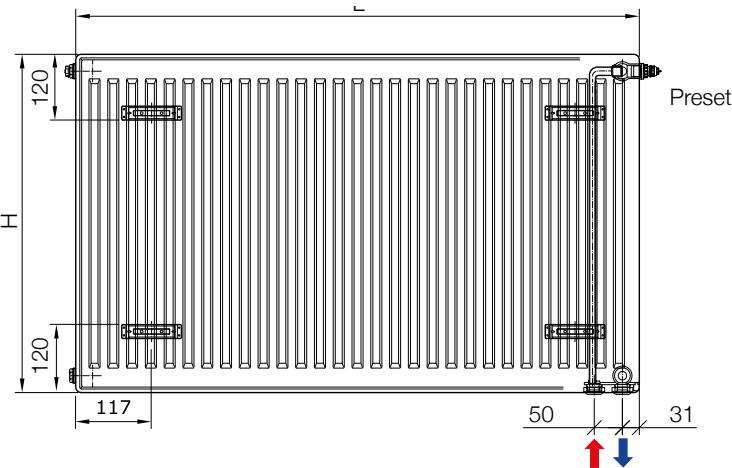
Brakets and optional accessories are available on dedicated pages.

		Dimensions		
		10	20	30
panel depth - excluding back supports	A	63	66	157
total depth - from the back of the support to the front panel**	B	63	75	166
distance from the back support to the connection	C	-	42	59
distance from wall to the centre of the connection (mounting the radiators on the GB brackets provided)*	D	34	59 / 67	76 / 84
total distance from the wall to the front panel (panel mounted on the GP brackets provided as standard)*	E	69	94 / 102	175 / 183

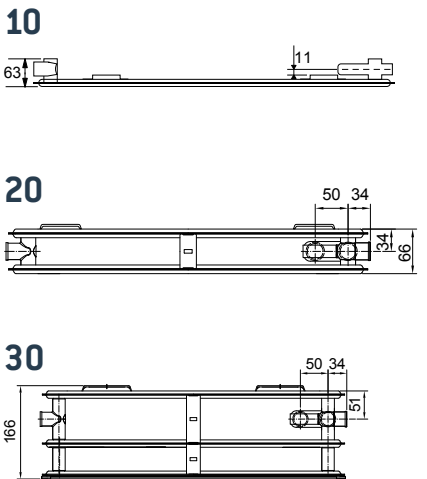
* The total distance varies according to whether the GB bracket is mounted in position A or position B (choice of depth), model 10 mounted on D30 brackets)

** Calculating the total size of the panel (from the wall to the front panel) with the chosen wall brackets: the useful length of the chosen bracket must be added to this measurement (see brackets page).

Front view



Upper view



		10			20			30		
Width (mm)		63			66			157		
Exponent (n)		1,34			1,276			1,285		
Lenght (mm)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
400	Power	136	110	69	231	188	120	335	272	174
	Code	0181103312			0H81203312			0H81303312		
500	Power	170	137	86	289	234	150	419	340	217
	Code	0181103315			0H81203315			0H81303315		
600	Power	204	164	103	346	281	180	502	407	260
	Code	0181103318			0H81203318			0H81303318		
700	Power	238	192	120	404	328	210	586	475	304
	Code	0181103321			0H81203321			0H81303321		
800	Power	272	219	137	462	375	241	670	543	347
	Code	0181103324			0H81203324			0H81303324		
900	Power	306	246	155	519	422	271	753	611	391
	Code	0181103327			0H81203327			0H81303327		
1.000	Power	340	274	172	577	469	301	837	679	434
	Code	0181103330			0H81203330			0H81303330		
1.100	Power	374	301	189	635	516	331	921	747	477
	Code	0181103333			0H81203333			0H81303333		
1.200	Power	408	329	206	692	563	361	1004	815	521
	Code	0181103336			0H81203336			0H81303336		
1.400	Power	476	383	240	808	657	421	1172	951	608
	Code	0181103342			0H81203342			0H81303342		
1.600	Power	544	438	275	923	750	481	1339	1087	694
	Code	0181103348			0H81203348			0H81303348		
1.800	Power	612	493	309	1039	844	541	1507	1222	781
	Code	0181103354			0H81203354			0H81303354		
2.000	Power	680	548	343	1154	938	601	1674	1358	868
	Code	0181103360			0H81203360			0H81303360		
2.300	Power	782	630	395	1327	1079	692	1925	1562	998
	Code	0181103369			0H81203369			0H81303369		
2.600	Power	884	712	447	1500	1219	782	2176	1766	1128
	Code	0181103378			0H81203378			0H81303378		
3.000	Power	1020	822	515	1731	1407	902	2511	2037	1302
	Code	0181103390			0H81203390			0H81303390		

For the valve on the left side, you have to turn the third-last number from 3 to 5.

Height (H) 400

		10			20			30		
Width (mm)		63			66			157		
Exponent (n)		1,319			1,28			1,296		
Lenght (mm)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
400	Power	177	142	90	284	230	147	417	338	215
	Code	0181104312			0H81204312			0H81304312		
500	Power	221	178	112	355	288	184	522	422	269
	Code	0181104315			0H81204315			0H81304315		
600	Power	265	214	135	426	345	221	626	506	323
	Code	0181104318			0H81204318			0H81304318		
700	Power	310	249	157	497	403	258	730	591	377
	Code	0181104321			0H81204321			0H81304321		
800	Power	354	285	180	568	460	295	834	675	430
	Code	0181104324			0H81204324			0H81304324		
900	Power	398	321	202	639	518	332	939	760	484
	Code	0181104327			0H81204327			0H81304327		
1.000	Power	442	356	225	710	575	368	1043	844	538
	Code	0181104330			0H81204330			0H81304330		
1.100	Power	487	392	247	781	633	405	1147	928	592
	Code	0181104333			0H81204333			0H81304333		
1.200	Power	531	427	270	852	690	442	1252	1013	646
	Code	0181104336			0H81204336			0H81304336		
1.400	Power	619	499	315	994	805	516	1460	1182	753
	Code	0181104342			0H81204342			0H81304342		
1.600	Power	708	570	360	1136	921	589	1669	1350	861
	Code	0181104348			0H81204348			0H81304348		
1.800	Power	796	641	405	1278	1036	663	1877	1519	968
	Code	0181104354			0H81204354			0H81304354		
2.000	Power	885	712	450	1420	1151	737	2086	1688	1076
	Code	0181104360			0H81204360			0H81304360		
2.300	Power	1017	819	517	1633	1323	847	2399	1941	1237
	Code	0181104369			0H81204369			0H81304369		
2.600	Power	1150	926	585	1846	1496	958	2712	2195	1399
	Code	0181104378			0H81204378			0H81304378		
3.000	Power	1327	1068	675	2130	1726	1105	3129	2532	1614
	Code	0181104390			0H81204390			0H81304390		

For the valve on the left side, you have to turn the third-last number from 3 to 5.

Height (H) 500

		10			20			30		
Width (mm)		63			66			157		
Exponent (n)		1,299			1,284			1,307		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W
400	Power	216	175	111	337	273	175	496	401	255
	Code	0181105312			0H81205312			0H81305312		
500	Power	270	219	139	422	342	218	621	501	319
	Code	0181105315			0H81205315			0H81305315		
600	Power	324	262	167	506	410	262	745	602	382
	Code	0181105318			0H81205318			0H81305318		
700	Power	379	306	195	590	478	306	869	702	446
	Code	0181105321			0H81205321			0H81305321		
800	Power	433	350	222	674	547	350	993	802	510
	Code	0181105324			0H81205324			0H81305324		
900	Power	487	394	250	759	615	393	1117	902	573
	Code	0181105327			0H81205327			0H81305327		
1.000	Power	541	437	278	843	683	437	1241	1003	637
	Code	0181105330			0H81205330			0H81305330		
1.100	Power	595	481	306	927	752	481	1365	1103	701
	Code	0181105333			0H81205333			0H81305333		
1.200	Power	649	525	334	1012	820	524	1489	1203	764
	Code	0181105336			0H81205336			0H81305336		
1.400	Power	757	612	389	1180	957	612	1737	1404	892
	Code	0181105342			0H81205342			0H81305342		
1.600	Power	865	700	445	1349	1093	699	1986	1604	1019
	Code	0181105348			0H81205348			0H81305348		
1.800	Power	973	787	501	1517	1230	786	2234	1805	1147
	Code	0181105354			0H81205354			0H81305354		
2.000	Power	1082	874	556	1686	1367	874	2482	2005	1274
	Code	0181105360			0H81205360			0H81305360		
2.300	Power	1244	1006	640	1939	1572	1005	2854	2306	1465
	Code	0181105369			0H81205369			0H81305369		
2.600	Power	1406	1137	723	2192	1777	1136	3227	2607	1656
	Code	0181105378			0H81205378			0H81305378		
3.000	Power	1622	1312	834	2529	2050	1311	3723	3008	1911
	Code	0181105390			0H81205390			0H81305390		

For the valve on the left side, you have to turn the third-last number from 3 to 5.

Height (H) 600

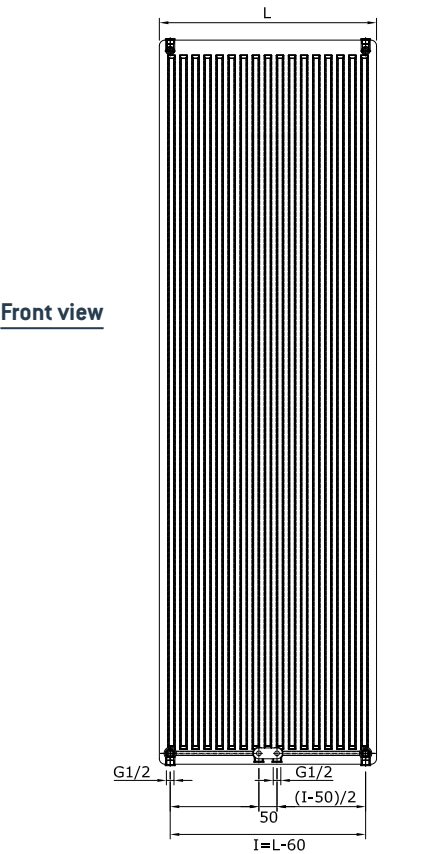
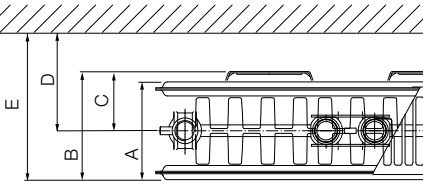
		10			20			30		
Width (mm)		63			66			157		
Exponent (n)		1,279			1,288			1,318		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W
400	Power	254	206	132	392	317	203	574	463	293
	Code	0181106312			0H81206312			0H81306312		
500	Power	318	258	165	490	397	254	718	579	366
	Code	0181106315			0H81206315			0H81306315		
600	Power	381	310	198	587	476	304	862	695	439
	Code	0181106318			0H81206318			0H81306318		
700	Power	445	361	231	685	555	355	1005	810	513
	Code	0181106321			0H81206321			0H81306321		
800	Power	509	413	265	783	634	406	1149	926	586
	Code	0181106324			0H81206324			0H81306324		
900	Power	572	465	298	881	714	456	1292	1042	659
	Code	0181106327			0H81206327			0H81306327		
1.000	Power	636	516	331	979	793	507	1436	1158	732
	Code	0181106330			0H81206330			0H81306330		
1.100	Power	699	568	364	1077	872	558	1580	1273	806
	Code	0181106333			0H81206333			0H81306333		
1.200	Power	763	619	397	1175	952	608	1723	1389	879
	Code	0181106336			0H81206336			0H81306336		
1.400	Power	890	723	463	1371	1110	710	2010	1621	1025
	Code	0181106342			0H81206342			0H81306342		
1.600	Power	1017	826	529	1566	1269	811	2298	1852	1172
	Code	0181106348			0H81206348			0H81306348		
1.800	Power	1144	929	595	1762	1428	913	2585	2084	1318
	Code	0181106354			0H81206354			0H81306354		
2.000	Power	1272	1032	661	1958	1586	1014	2872	2315	1465
	Code	0181106360			0H81206360			0H81306360		
2.300	Power	1462	1187	760	2252	1824	1166	3303	2663	1684
	Code	0181106369			0H81206369			0H81306369		
2.600	Power	1653	1342	860	2545	2062	1318	3734	3010	1904
	Code	0181106378			0H81206378			0H81306378		
3.000	Power	1907	1549	992	2937	2379	1521	4308	3473	2197
	Code	0181106390			0H81206390			0H81306390		

For the valve on the left side, you have to turn the third-last number from 3 to 5.

Height (H) 700

		10			20			30		
Width (mm)		63			66			157		
Exponent (n)		1,285			1,29			1,318		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W
400	Power	291	237	151	448	363	232	652	527	332
	Code	0181107312			0H81207312			0H81307312		
500	Power	364	296	189	560	454	290	815	659	416
	Code	0181107315			0H81207315			0H81307315		
600	Power	437	355	227	671	545	347	977	790	499
	Code	0181107318			0H81207318			0H81307318		
700	Power	509	414	265	783	636	405	1140	922	582
	Code	0181107321			0H81207321			0H81307321		
800	Power	582	473	302	895	726	463	1303	1054	665
	Code	0181107324			0H81207324			0H81307324		
900	Power	655	532	340	1007	817	521	1466	1186	748
	Code	0181107327			0H81207327			0H81307327		
1.000	Power	728	591	378	1119	908	579	1629	1317	831
	Code	0181107330			0H81207330			0H81307330		
1.100	Power	800	650	416	1231	999	637	1792	1449	914
	Code	0181107333			0H81207333			0H81307333		
1.200	Power	873	710	454	1343	1090	695	1955	1581	997
	Code	0181107336			0H81207336			0H81307336		
1.400	Power	1019	828	529	1567	1271	811	2281	1844	1163
	Code	0181107342			0H81207342			0H81307342		
1.600	Power	1164	946	605	1790	1453	926	2606	2108	1330
	Code	0181107348			0H81207348			0H81307348		
1.800	Power	1310	1064	680	2014	1634	1042	2932	2371	1496
	Code	0181107354			0H81207354			0H81307354		
2.000	Power	1455	1183	756	2238	1816	1158	3258	2634	1662
	Code	0181107360			0H81207360			0H81307360		
2.300	Power	1674	1360	869	2574	2088	1332	3747	3030	1911
	Code	0181107369			0H81207369			0H81307369		
2.600	Power	1892	1537	983	2909	2361	1505	4235	3425	2161
	Code	0181107378			0H81207378			0H81307378		
3.000	Power	2183	1774	1134	3357	2724	1737	4887	3952	2493
	Code	0181107390			0H81207390			0H81307390		

Vertical Profiled Panel



Front view

Technical characteristics

- Working pressure 10 bar
- Test pressure 13 bar
- Maximum operating temperature 110 °C
- NF Certification in models 10, 20 and 21 see the website www.marque-nf.com

Standard equipment

- 4 x 1/2" connections (perpendicular to the ground), inside thread
- 1 central connector with 50 mm tappings centre (1/2" inside thread) – choice of bottom or top
- 3 x 1/2" blind caps provided, to be mounted
- 1 x 1/2" vent plug provided, to be mounted
- Vertical radiators are available in two different configurations: with central connection at the bottom (configuration AB) or at the top (configuration AA) – see modified order code at the bottom of the tables
- The 20, 21 and 22 models of vertical panel are finished with side covers; in the AB configuration (central connection at the bottom), they also have a top grille; model 10 has no grille or side covers.
- Brackets and supports
 - 2 x GB brackets with top safety hook are provided (1 bracket for 300 mm-wide model)
 - 3 pairs of welded back supports (3 single supports for 300mm-wide models)

Connection

- Vertical radiators can be connected to a two-pipe installation with top/bottom opposite side, bottom/bottom opposite side, top/top opposite side connections and in the configuration with central connection. The two-pipe connection requires a valve and lockshield (not provided). It can also be connected to a two-pipe installation with central connection and valve/lockshield group with 50 mm tappings centre (available as an accessory on request).
- Vertical radiators can be connected to a one-pipe installation using a one-pipe valve with external probe only.
- Floor anchors not available.

Safety

- Vertical radiators cannot be inverted around any of the three axes.
- The sides of Vertical radiators are fastened with screws, safer than the interlocking system adopted on other panel radiators.

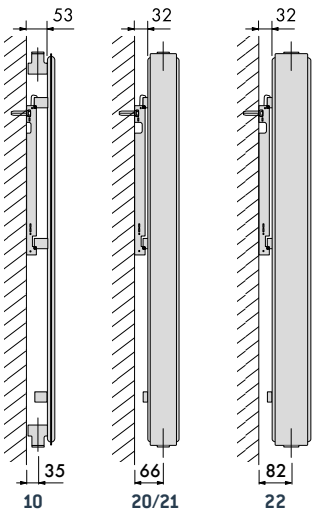
Optional

Brakets and optional accessories are available on dedicated pages.

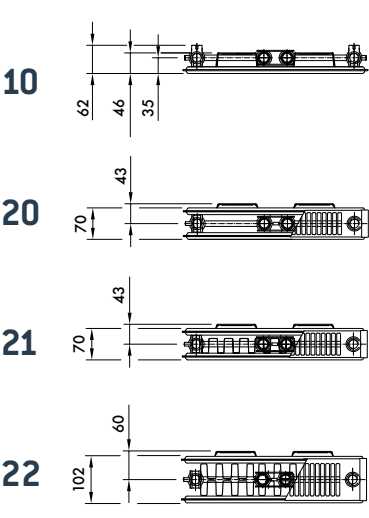
		Dimensions			
		10	20	21	22
panel depth - excluding back supports	A	62	70	70	102
total depth - from the back of the support to the front panel	B	62	77	77	111
distance from the back support to the connection**	C	-	43	43	60
distance from wall to the centre of the connection (mounting the radiators on the GB brackets provided)*	D	35	58/66	58/66	74/82
total distance from the wall to the front panel (panel mounted on the GP brackets provided as standard)*	E	70	93/101	93/101	125/133

* The total distance varies according to whether the GB bracket is mounted in position A or position B (choice of depth)
** Calculating the total size of the panel (from the wall to the front panel) with the chosen wall brackets: the useful length of the chosen bracket must be added to this measurement (see brackets page).

Side view



Upper View



Height (H) 1400

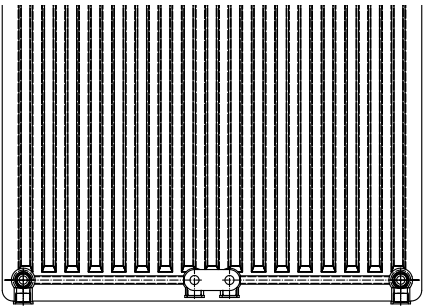
		10			20			21			22			
Width (mm)		62			77			77			111			
Exponent (n)		1,363			1,313			1,294			1,38			
Lenght (mm)	Tappings center (l)	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	
		W	W	W	W	W	W	W	W	W	W	W	W	
300	240	Power	423	339	207	649	525	333	802	650	414	982	786	486
		Code	0184103842			0184203842			0184213842			0184223842		
400	340	Power	565	452	276	865	700	444	1069	867	553	1309	1048	649
		Code	0184104842			0184204842			0184214842			0184224842		
500	440	Power	706	565	345	1081	875	556	1336	1083	691	1637	1310	811
		Code	0184105842			0184205842			0184215842			0184225842		
600	540	Power	847	678	414	1297	1050	667	1604	1300	829	1964	1572	973
		Code	0184106842			0184206842			0184216842			0184226842		
700	640	Power	988	791	483	1514	1225	778	1871	1517	967	2291	1834	1135
		Code	0184107842			0184207842			0184217842			0184227842		
900	840	Power	1270	1017	622	1946	1576	1000	2405	1950	1243	2946	2358	1459
		Code	0184109842			0184209842			0184219842			0184229842		

Height (H) 1600

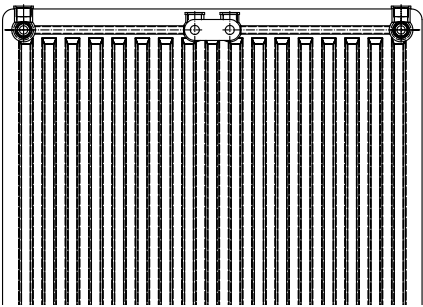
		10			20			21			22			
Width {mm}		62			77			77			111			
Exponent {n}		1,349			1,31			1,322			1,371			
Lenght (mm)	Tappings center (l)	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	
		W	W	W	W	W	W	W	W	W	W	W	W	
300	240	Power	477	380	234	730	590	378	883	712	450	1072	856	532
		Code	0184103848			0184203848			0184213848			0184223848		
400	340	Power	637	506	312	973	786	505	1177	950	601	1429	1141	709
		Code	0184104848			0184204848			0184214848			0184224848		
500	440	Power	796	633	390	1216	983	631	1471	1187	751	1787	1426	886
		Code	0184105848			0184205848			0184215848			0184225848		
600	540	Power	955	759	468	1459	1179	757	1766	1424	901	2144	1711	1063
		Code	0184106848			0184206848			0184216848			0184226848		
700	640	Power	1114	886	547	1703	1376	883	2060	1662	1051	2502	1997	1240
		Code	0184107848			0184207848			0184217848			0184227848		
900	840	Power	1432	1139	703	2189	1769	1135	2649	2136	1351	3216	2567	1595
		Code	0184109848			0184209848			0184219848			0184229848		

The required configuration must be indicated on the order
— AB (bottom connection)
— AA (top connection).
In the case of the top connection (AA), the 8 in the third to last position of the code must be replaced with a 9.
Example: 0184214854 is a Vertical Model 21 1800x400 panel with bottom connections (AB); 0184214954 is a Vertical Model 21 1800x400 panel with top connections (AA)

CONFIGURATION AB: connection on the bottom without top grille



CONFIGURATION AA: connection on the top without top grille



Height (H) 1800														
		10			20			21			22			
Width (mm)		62			77			77			111			
Exponent (n)		1,336			1,308			1,35			1,363			
Lenght (mm)	Tappings center (l)	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	
		W	W	W	W	W	W	W	W	W	W	W	W	
300	240	Power	532	426	270	811	656	414	964	773	486	1162	935	577
		Code	0184103854			0184203854			0184213854			0184223854		
400	340	Power	709	567	360	1081	874	553	1285	1030	649	1550	1246	769
		Code	0184104854			0184204854			0184214854			0184224854		
500	440	Power	886	709	450	1351	1093	691	1607	1288	811	1937	1558	961
		Code	0184105854			0184205854			0184215854			0184225854		
600	540	Power	1063	851	541	1622	1311	829	1928	1545	973	2324	1870	1153
		Code	0184106854			0184206854			0184216854			0184226854		
700	640	Power	1240	993	631	1892	1530	967	2249	1803	1135	2712	2181	1345
		Code	0184107854			0184207854			0184217854			0184227854		
900	840	Power	1595	1277	811	2432	1967	1243	2892	2318	1459	3486	2805	1730
		Code	0184109854			0184209854			0184219854			0184229854		

Height (H) 2000														
		10			20			21			22			
Width (mm)		62			77			77			111			
Exponent (n)		1,351			1,313			1,345			1,385			
Lenght (mm)	Tappings center (l)	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	
		W	W	W	W	W	W	W	W	W	W	W	W	
300	240	Power	586	471	297	892	718	450	1036	836	523	1270	1011	622
		Code	0184103860			0184203860			0184213860			0184223860		
400	340	Power	781	629	396	1189	957	601	1381	1115	697	1694	1348	829
		Code	0184104860			0184204860			0184214860			0184224860		
500	440	Power	976	786	495	1486	1197	751	1727	1394	871	2117	1685	1036
		Code	0184105860			0184205860			0184215860			0184225860		
600	540	Power	1171	943	595	1784	1436	901	2072	1672	1045	2541	2022	1243
		Code	0184106860			0184206860			0184216860			0184226860		
700	640	Power	1366	1100	694	2081	1676	1051	2417	1951	1219	2964	2359	1450
		Code	0184107860			0184207860			0184217860			0184227860		
900	840	Power	1757	1414	892	2676	2154	1351	3108	2509	1568	3811	3034	1865
		Code	0184109860			0184209860			0184219860			0184229860		

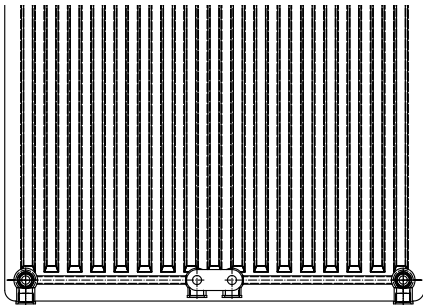
The required configuration must be indicated on the order

- AB (bottom connection)
- AA (top connection).

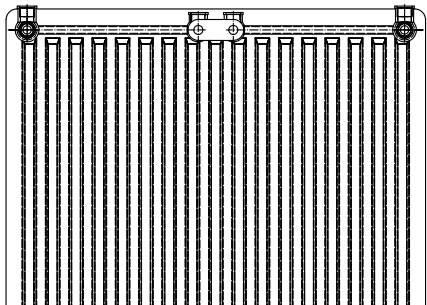
In the case of the top connection [AA], the 8 in the third to last position of the code must be replaced with a 9.

Example: 0184214854 is a Vertical Model 21 1800x400 panel with bottom connections [AB]; 0184214954 is a Vertical Model 21 1800x400 panel with top connections [AA].

CONFIGURATION AB: connection on the bottom with top grille



CONFIGURATION AA: connection on the top without top grille



													Height (H) 2200	
			10			20			21			22		
Width (mm)			62			77			77			111		
Exponent (n)			1,366			1,318			1,339			1,407		
Lenght (mm)	Tappings center (l)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
300	240	Power	652	521	324	966	779	493	1115	895	563	1377	1094	671
		Code	0184103866			0184203866			0184213866			0184223866		
400	340	Power	870	695	432	1288	1039	657	1487	1194	751	1835	1459	895
		Code	0184104866			0184204866			0184214866			0184224866		
500	440	Power	1087	869	541	1610	1298	821	1859	1492	938	2294	1823	1119
		Code	0184105866			0184205866			0184215866			0184225866		
600	540	Power	1305	1043	649	1932	1558	986	2231	1791	1126	2753	2188	1342
		Code	0184106866			0184206866			0184216866			0184226866		
700	640	Power	1522	1217	757	2253	1818	1150	2602	2089	1314	3212	2553	1566
		Code	0184107866			0184207866			0184217866			0184227866		
900	840	Power	1957	1564	973	2897	2337	1478	3346	2686	1689	4130	3282	2014
		Code	0184109866			0184209866			0184219866			0184229866		

Height (H) 2400														
		10			20			21			22			
Width (mm)		62			77			77			111			
Exponent (n)		1,382			1,323			1,339			1,429			
Lenght (mm)	Tappings center (l)	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	
		W	W	W	W	W	W	W	W	W	W	W	W	
300	240	Power	723	577	357	1041	839	530	1192	958	603	1495	1185	721
		Code	0184103872			0184203872			0184213872			0184223872		
400	340	Power	963	770	476	1387	1119	706	1589	1277	804	1993	1580	961
		Code	0184104872			0184204872			0184214872			0184224872		
500	440	Power	1204	962	595	1734	1399	883	1986	1597	1005	2491	1975	1201
		Code	0184105872			0184205872			0184215872			0184225872		
600	540	Power	1445	1154	714	2081	1678	1059	2384	1916	1205	2989	2370	1441
		Code	0184106872			0184206872			0184216872			0184226872		
700	640	Power	1686	1347	832	2428	1958	1236	2781	2235	1406	3487	2765	1682
		Code	0184107872			0184207872			0184217872			0184227872		
900	840	Power	2168	1732	1070	3122	2518	1589	3576	2874	1808	4484	3555	2162
		Code	0184109872			0184209872			0184219872			0184229872		

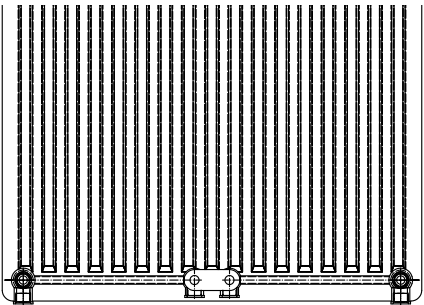
The required configuration must be indicated on the order

- AB (bottom connection)
- AA (top connection).

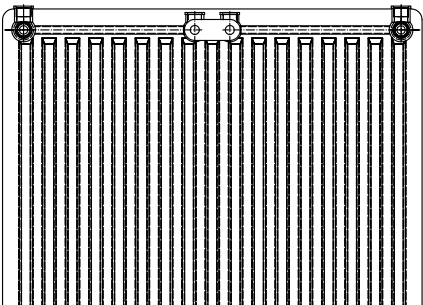
In the case of the top connection [AA], the 8 in the third to last position of the code must be replaced with a 9.

Example: 0184214854 is a Vertical Model 21 1800x400 panel with bottom connections [AB]; 0184214954 is a Vertical Model 21 1800x400 panel with top connections [AA]

CONFIGURATION AB: connection on the bottom with top grille



CONFIGURATION AA: connection on the top without top grille

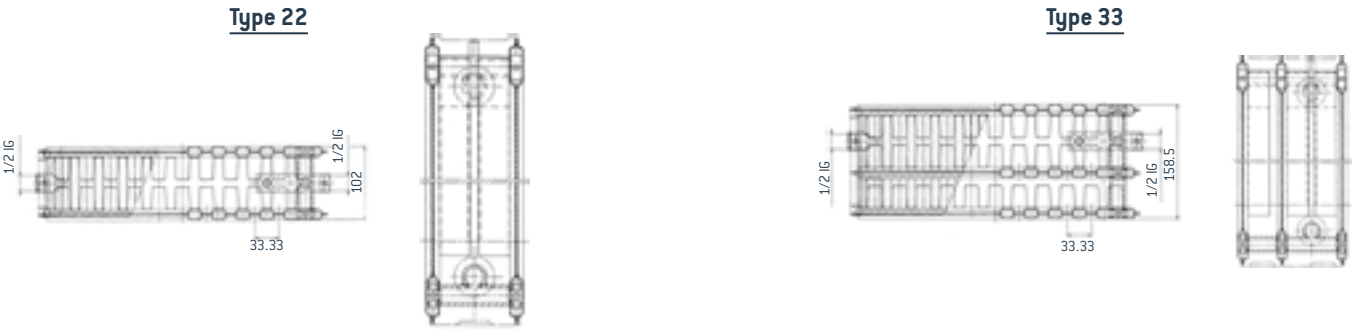


Replacement radiators - Compact Panel

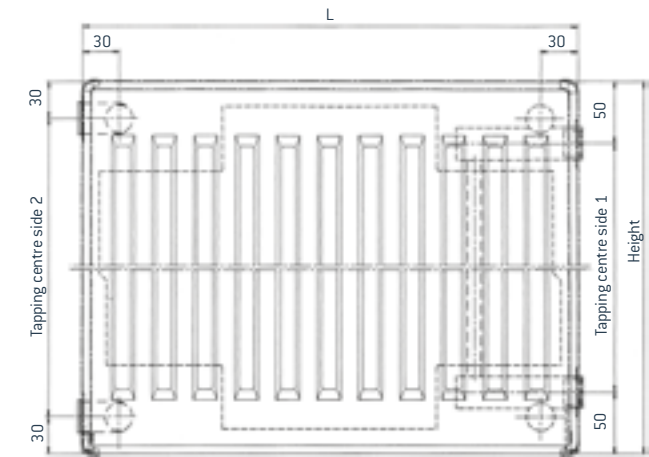
The Replacement rad are planned to be the ideal solution for the replacement of old DIN rads. The Replacement rads are available only for 22 and 33 Compact Panel. The rads have the upper grill and side covers, without back supports. No brackets included in the package. Height 960 model has the same tappings centre distance by both sides and has the back supports.

Height	300	400	500	600	700	960
Tappings centre side 1 (special distance)	200	300	400	500	600	900
Tappings centre side 2	240	340	440	540	640	900

For the lengths available , see following tables
Price on demand



Heights 300 - 400 - 500 - 600 - 700

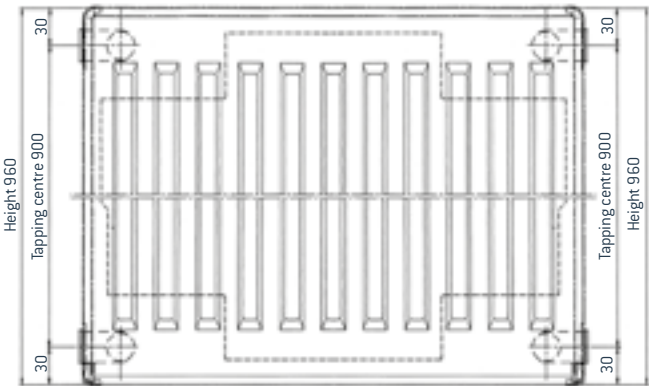


How to order:

Complete the code with the numbers of the height in place of “z”.
h 300 z = 3
h 400 z = 4
xx = 22 Type 22
xx = 33 Type 33

Length (mm)	Code
600	0181xxz918
800	0181xxz924
1000	0181xxz930
1200	0181xxz936
1400	0181xxz942
1600	0181xxz948
1800	0181xxz954

Height 960



How to order:

Complete the code with the numbers of the type:
xx = 22 Type 22
xx = 33 Type 33

Length (mm)	Code
400	0181xx0912
500	0181xx0915
600	0181xx0918
700	0181xx0921
900	0181xx0927

Correction factor F

Calculate the heat output for different Δt, valid for traditional and low temperature installations

The following temperatures:

- input fluid t_e
- output fluid t_u
- room t_a

indicated in the table determine the correction factor **F**.
To obtain the heat output according to the EN 442 standard **Q_n**, the heat requirement **Q_f** must be multiplied by the correction factor **F**.

$$Q_n = Q_f \cdot F$$

Q_n = heat output according to EN 442
t_m = 70 °C {75/65},
t_a = 20 °C

Q_f = heat requirement

F = correction factor indicated in table

EXAMPLE

Given a heat requirement Q_f of 830 Watt in the following two cases:

Case A

for traditional installations
t_e = 80 °C; t_u = 70 °C; t_a = 18 °C
Correction factor F = 0,84
(from table)
Q_n = Q_f • F = 830 • 0,84 = 697 W

Case B

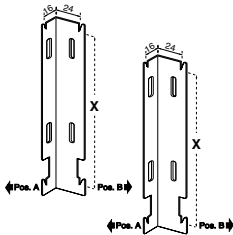
for NT low temperature installations
t_e = 60 °C; t_u = 50 °C; t_a = 20 °C
Correction factor F = 1.60
(from table)
Q_n = Q_f • F = 830 • 1,60 = 1328 W

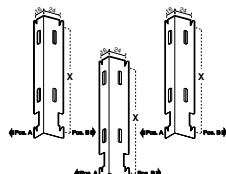
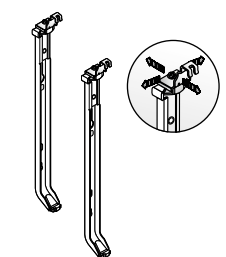
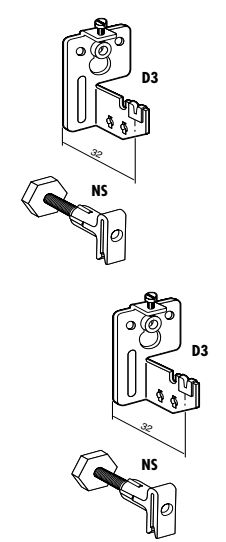
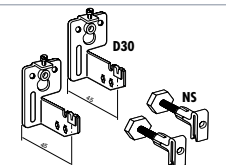
Inlet Temperature t _e [°C]	Room Temperature t _a [°C]	Outlet Temperature t _u [°C]															
		25	30	35	40	45	50	55	60	65	70	75	80	85	90		
95	24	4,23	2,29	1,77	1,48	1,29	1,15	1,04	0,96	0,89	0,83	0,78	0,73	0,70	0,66		
	22	2,91	1,99	1,60	1,36	1,20	1,08	0,99	0,91	0,85	0,79	0,75	0,70	0,67	0,64		
	20	2,35	1,76	1,46	1,26	1,13	1,02	0,93	0,87	0,81	0,76	0,72	0,68	0,64	0,61		
	18	2,00	1,58	1,34	1,18	1,06	0,96	0,89	0,83	0,77	0,73	0,69	0,65	0,62	0,59		
	15	1,67	1,38	1,20	1,07	0,97	0,89	0,83	0,77	0,72	0,68	0,65	0,62	0,59	0,56		
	12	1,43	1,23	1,09	0,98	0,90	0,83	0,77	0,72	0,68	0,65	0,61	0,59	0,56	0,54		
	24	4,56	2,45	1,88	1,57	1,36	1,21	1,10	1,01	0,93	0,87	0,82	0,77	0,73			
	22	3,11	2,11	1,69	1,44	1,27	1,14	1,04	0,96	0,89	0,83	0,78	0,74	0,70			
	20	2,50	1,87	1,54	1,33	1,19	1,07	0,98	0,91	0,85	0,80	0,75	0,71	0,67			
	18	2,13	1,68	1,42	1,24	1,11	1,01	0,93	0,87	0,81	0,76	0,72	0,68	0,65			
	15	1,76	1,46	1,26	1,13	1,02	0,93	0,87	0,81	0,76	0,72	0,68	0,64	0,61			
	12	1,51	1,29	1,14	1,03	0,94	0,87	0,81	0,76	0,71	0,67	0,64	0,61	0,58			
	24	4,94	2,63	2,00	1,67	1,45	1,29	1,16	1,07	0,99	0,92	0,86	0,81				
	22	3,34	2,26	1,80	1,53	1,34	1,21	1,10	1,01	0,94	0,88	0,82	0,78				
	20	2,67	1,99	1,64	1,41	1,25	1,13	1,04	0,96	0,89	0,84	0,79	0,75				
85	18	2,27	1,78	1,50	1,31	1,18	1,07	0,98	0,91	0,85	0,80	0,75	0,72				
	15	1,87	1,54	1,33	1,19	1,07	0,98	0,91	0,85	0,80	0,75	0,71	0,67				
	12	1,60	1,36	1,20	1,08	0,99	0,91	0,85	0,79	0,75	0,70	0,67	0,64				
	24	5,38	2,83	2,15	1,78	1,54	1,37	1,24	1,13	1,05	0,97	0,91					
	22	3,61	2,42	1,93	1,63	1,43	1,28	1,16	1,07	0,99	0,93	0,87					
80	20	2,87	2,13	1,75	1,50	1,33	1,20	1,10	1,01	0,94	0,88	0,83					
	18	2,42	1,90	1,60	1,39	1,24	1,13	1,04	0,96	0,90	0,84	0,79					
	15	1,99	1,64	1,41	1,25	1,13	1,04	0,96	0,89	0,84	0,79	0,75					
	12	1,69	1,44	1,27	1,14	1,04	0,96	0,89	0,83	0,78	0,74	0,70					
	24	5,90	3,07	2,32	1,92	1,66	1,47	1,32	1,21	1,12	1,04						
75	22	3,92	2,61	2,07	1,75	1,53	1,37	1,24	1,14	1,05	0,98						
	20	3,10	2,28	1,87	1,61	1,42	1,28	1,17	1,08	1,00	0,94						
	18	2,61	2,03	1,70	1,48	1,32	1,20	1,10	1,02	0,95	0,89						
	15	2,13	1,75	1,50	1,33	1,20	1,10	1,01	0,94	0,88	0,83						
	12	1,80	1,53	1,34	1,21	1,10	1,01	0,94	0,88	0,82	0,78						
	24	6,54	3,36	2,52	2,08	1,79	1,58	1,42	1,30	1,19							
	22	4,30	2,84	2,24	1,89	1,64	1,47	1,33	1,22	1,13							
	20	3,38	2,47	2,02	1,73	1,52	1,37	1,25	1,15	1,07							
	18	2,82	2,19	1,83	1,59	1,42	1,28	1,17	1,08	1,01							
	15	2,28	1,87	1,61	1,42	1,28	1,17	1,08	1,00	0,94							
70	12	1,93	1,63	1,43	1,28	1,16	1,07	0,99	0,93	0,87							
	24	7,33	3,70	2,76	2,27	1,94	1,71	1,54	1,40								
	22	4,75	3,11	2,44	2,05	1,78	1,59	1,43	1,31								
	20	3,70	2,69	2,19	1,87	1,64	1,47	1,34	1,23								
	18	3,07	2,37	1,98	1,71	1,52	1,37	1,26	1,16								
65	15	2,47	2,02	1,73	1,52	1,37	1,25	1,15	1,07								
	12	2,07	1,75	1,53	1,37	1,24	1,14	1,05	0,98								
	24		4,13	3,06	2,50	2,13	1,87	1,68									
	22	5,32	3,44	2,69	2,24	1,94	1,73	1,56									
	20	4,10	2,96	2,39	2,03	1,78	1,60	1,45									
60	18	3,38	2,59	2,15	1,86	1,65	1,48	1,36									
	15	2,69	2,19	1,87	1,64	1,47	1,34	1,23									
	12	2,24	1,89	1,64	1,47	1,33	1,22	1,13									
	correction factor F for input fluid temperature from 95 to 40°C output fluid temperature from 90 to 25°C room temperature from 24 to 12°C n around 1.3																
		24		4,67	3,43	2,78	2,37	2,07									
22		6,03	3,86	2,99	2,48	2,15	1,90										
20		4,60	3,29	2,64	2,24	1,96	1,75										
18		3,75	2,86	2,36	2,03	1,80	1,62										
15		2,96	2,39	2,03	1,78	1,60	1,45										
55	12	2,44	2,05	1,78	1,59	1,43	1,31										
	24		5,39	3,92	3,15	2,67											
	22	6,97	4,39	3,38	2,79	2,40											
	20	5,23	3,70	2,96	2,50	2,17											
	18	4,22	3,20	2,63	2,25	1,98											
50	15	3,29	2,64	2,24	1,96	1,75											
	12	2,69	2,24	1,94	1,73	1,56											
	24		6,38	4,58	3,66												
	22		5,11	3,89	3,19												
	20	6,08	4,25	3,37	2,83												
45	18	4,84	3,63	2,96	2,53												
	15	3,70	2,96	2,50	2,17												
	12	2,99	2,48	2,15	1,90												
		24		7,87	5,54												
		22		6,14	4,62												
20		7,28	5,01	3,93													
18		5,68	4,21	3,41													
15		4,25	3,37	2,83													
40	12	3,38	2,79	2,40													
Inlet Temperature t _e [°C]	Room Temperature t _a [°C]	25	30	35	40	45	50	55	60	65	70	75	80	85	90		
Outlet Temperature t _u [°C]																	

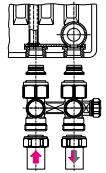
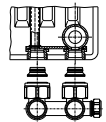
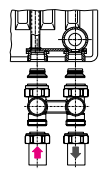
correction factor F for
input fluid temperature from 95 to 40°C
output fluid temperature from 90 to 25°C
room temperature from 24 to 12°C
n around 1.3

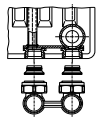
Spare parts and Accessories

Brackets for horizontal profile panel - installation accessories

			Compact Panel	PHD 2.0 Panel with valve	PHD 2.0 Panel with central connection and valve	Hygiene Compact Panel	PHD 2.0 Hygiene Panel with valve	Vertical Profiled Panel
		back supports included	✓	✓ (only model 10 and 11)	✓	✓	✓	✓
		brackets included	✓ (excluded model 10)	✓	-	✓ (excluded model 10)	✓	✓
 GB1 (2 pcs) screws included Wall distance with position A = 16 mm Wall distance with position B = 24 mm	5580080500	H300	spare part for L <= 1600mm (excluded model 10)	spare part, only for model 11 with L <= 1600mm	optional for L <= 1600mm	spare part for models 20,30 with L <= 1600mm (excluded model 10)	spare part for models 20,30 with L <= 1600mm	-
	5580080600	H400	spare part for L <= 1600mm (excluded model 10)	spare part, only for model 11 with L <= 1600mm	optional for L <= 1600mm	spare part for models 20,30 with L <= 1600mm (excluded model 10)	spare part for models 20,30 with L <= 1600mm	-
	5580080700	H500	spare part for L <= 1600mm (excluded model 10)	spare part, only for model 11 with L <= 1600mm	optional for L <= 1600mm	spare part for models 20,30 with L <= 1600mm (excluded model 10)	spare part for models 20,30 with L <= 1600mm	-
	5580080800	H600	spare part for L <= 1600mm (excluded model 10)	spare part, only for model 11 with L <= 1600mm	optional for L <= 1600mm	spare part for models 20,30 with L <= 1600mm (excluded model 10)	spare part for models 20,30 with L <= 1600mm	-
	5580080900	H700	spare part for L <= 1600mm (excluded model 10)	spare part, only for model 11 with L <= 1600mm	optional for L <= 1600mm	spare part for models 20,30 with L <= 1600mm (excluded model 10)	spare part for models 20,30 with L <= 1600mm	-
	5580081000	H900	spare part for L <= 1600mm (excluded model 10)	spare part, only for model 11 with L <= 1600mm	optional for L <= 1600mm	spare part for models 20,30 with L <= 1600mm (excluded model 10)	spare part for models 20,30 with L <= 1600mm	-
	5580107900	H1400	-	-	-	-	-	spare part
	5580108000	H1600	-	-	-	-	-	spare part
	5580108100	H1800	-	-	-	-	-	spare part
	5580108200	H2000	-	-	-	-	-	spare part
	5580108300	H2200	-	-	-	-	-	spare part
	5580108500	H2400	-	-	-	-	-	spare part

			Compact Panel	PHD 2.0 Panel with valve	PHD 2.0 Panel with central connection and valve	Hygiene Compact Panel	Hygiene Panel with valve	Vertical Profiled Panel
 GB1 [3 st] Nutzmaß: Position A = 16 mm Position B = 24 mm	5580081100	H300	spare part for L >= 1800mm	spare part, only for model 11 with L >= 1800mm	optional for L >= 1800mm	spare part for models 20,30 with L >= 1800mm	spare part for models 20,30 with L >= 1800mm	-
	5580081200	H400	spare part for L >= 1800mm	spare part, only for model 11 with L >= 1800mm	optional for L >= 1800mm	spare part for models 20,30 with L >= 1800mm	spare part for models 20,30 with L >= 1800mm	-
	5580081300	H500	spare part for L >= 1800mm	spare part, only for model 11 with L >= 1800mm	optional for L >= 1800mm	spare part for models 20,30 with L >= 1800mm	spare part for models 20,30 with L >= 1800mm	-
	5580081400	H600	spare part for L >= 1800mm	spare part, only for model 11 with L >= 1800mm	optional for L >= 1800mm	spare part for models 20,30 with L >= 1800mm	spare part for models 20,30 with L >= 1800mm	-
	5580081500	H700	spare part for L >= 1800mm	spare part, only for model 11 with L >= 1800mm	optional for L >= 1800mm	spare part for models 20,30 with L >= 1800mm	spare part for models 20,30 with L >= 1800mm	-
	5580081600	H900	spare part for L >= 1800mm	spare part, only for model 11 with L >= 1800mm	optional for L >= 1800mm	spare part for models 20,30 with L >= 1800mm	spare part for models 20,30 with L >= 1800mm	-
 F7 [2 st, inclusive Schrauben]	5580107000	H300	optional for models 21, 22, 33 with L<=1600mm	spare part for models 21, 22, 32 and 33 with L<=1600mm	optional for models 21, 22, 33 with L<=1600mm	optional for models 21, 22, 33 with L<=1600mm	optional for models 20, 30 with L<=1600mm	-
	5580107100	H400	optional for models 21, 22, 33 with L<=1600mm	spare part for models 21, 22, 32 and 33 with L<=1600mm	optional for models 21, 22, 33 with L<=1600mm	optional for models 21, 22, 33 with L<=1600mm	optional for models 20, 30 with L<=1600mm	-
	5580107200	H500	optional for models 21, 22, 33 with L<=1600mm	spare part for models 21, 22, 32 and 33 with L<=1600mm	optional for models 21, 22, 33 with L<=1600mm	optional for models 20, 30 with L<=1600mm	optional for models 20, 30 with L<=1600mm	-
	5580107300	H600	optional for models 21, 22, 33 with L<=1600mm	spare part for models 21, 22, 32 and 33 with L<=1600mm	optional for models 21, 22, 33 with L<=1600mm	optional for models 20, 30 with L<=1600mm	optional for models 20, 30 with L<=1600mm	-
	5580107700	H700	optional for models 21, 22, 33 with L<=1600mm	spare part for models 21, 22, 32 and 33 with L<=1600mm	optional for models 21, 22, 33 with L<=1600mm	optional for models 20, 30 with L<=1600mm	optional for models 20, 30 with L<=1600mm	-
	5580107400	H900	optional for models 21, 22, 33 with L<=1600mm	spare part for models 21, 22, 32 and 33 with L<=1600mm	optional for models 21, 22, 33 with L<=1600mm	optional for models 20, 30 with L<=1600mm	optional for models 20, 30 with L<=1600mm	-
 D3 with NS [2 pcs] for models 11-21-22-33 Distance from the wall 32 mm	552919	H300	optional [except for model 10] L<1600 mm order 1 kit L>1600 mm order 2 kits	-	optional [except for model 10] L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	-
		H400	optional [except for model 10] L<1600 mm order 1 kit L>1600 mm order 2 kits	-	optional [except for model 10] L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	-
		H500	optional [except for model 10] L<1600 mm order 1 kit L>1600 mm order 2 kits	-	optional [except for model 10] L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	-
		H600	optional [except for model 10] L<1600 mm order 1 kit L>1600 mm order 2 kits	-	optional [except for model 10] L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	-
		H700	optional [except for model 10] L<1600 mm order 1 kit L>1600 mm order 2 kits	-	optional [except for model 10] L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	-
		H900	optional [except for model 10] L<1600 mm order 1 kit L>1600 mm order 2 kits	-	optional [except for model 10] L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	-
 D30 with NS [2 pcs] for model 10 Distance from the wall 45 mm	5580005300	H300 H400 H500 H600 H700 H900	optional for model 10 L<1600 mm order 1 kit L>1600 mm order 2 kits	spare part for model 10 L<1600 mm order 1 kit L>1600 mm order 2 kits	-	optional for model 10 L<1600 mm order 1 kit L>1600 mm order 2 kits	optional for model 10 L<1600 mm order 1 kit L>1600 mm order 2 kits	-
	Kit two D3 brackets with NS spacers and air vent and cap	5580108700		optional for 552919	-	optional for 552919	optional for 552919	optional for 552919
Kit two D30 brackets with NS spacers and air vent and cap	5580018900		optional for 5580005300	optional for 5580005300	optional for 5580005300	optional for 5580005300	optional for 5580005300	-

			Compact Panel	PHD 2.0 Panel with valve	PHD 2.0 Panel with central connection and valve	Hygiene Compact Panel	PHD 2.0 Hygiene Panel with valve	Vertical Profiled Panel
 Air vent 1/2" with oring [1 pc]	6180002000 (minimum order 10 pcs)		✓ spare part	✓ spare part	✓ spare part	✓ spare part	✓ spare part	✓ spare part
 Air vent key	611454		✓ optional	✓ optional	✓ optional	✓ optional	✓ optional	✓ optional
 Plug reduction 1/2" - 3/8" with O-ring	611453		✓ optional	✓ optional	✓ optional	✓ optional	✓ optional	✓ optional
 Blind cap 1/2" without cover (1pc) (to be coupled with cover 5500866200)	5500010100		✓ spare part	✓ spare part	✓ spare part	✓ optional	✓ spare part	✓ spare part
 Cover for blind cap 1/2" (1pc) (to be coupled with blind cap 5500010100)	5500866200 (minimum order 10 pcs)		✓ spare part	✓ spare part	✓ spare part	✓ optional	✓ spare part	✓ spare part
 Air vent 1/2" with oring + Blind cap 1/2"	5580008900		✓ optional	✓ optional	✓ optional	✓ optional	✓ optional	✓ optional
 H distributor straight ONE PIPE [3/4"]	5580008200		-	✓ optional	✓ optional	-	✓ optional	-
 H distributor curved ONE PIPE [3/4"]	5580008300		-	✓ optional	✓ optional	-	✓ optional	-
 H distributor straight TWO PIPE [3/4"]	5580013600		-	✓ optional	✓ optional	-	✓ optional	-

			Compact Panel	PHD 2.0 Panel with valve	PHD 2.0 Panel with central connection and valve	Hygiene Compact Panel	PHD 2.0 Hygiene Panel with valve	Vertical Profiled Panel
 H distributor curved TWO PIPE [3/4"]	5580013700		-	✓ optional	✓ optional	-	✓ optional	-
H distributor straight [fit for drainoff] TWO PIPE [3/4"]	5580103500		-	✓ optional	✓ optional	-	✓ optional	-
H distributor curved [fit for drainoff] TWO PIPE [3/4"]	5580103600		-	✓ optional	✓ optional	-	✓ optional	-
 Chrome Danfoss Kit H-valve tappings centre 50mm [1/2" - 3/4"]	5567001000		-	-	-	-	-	✓ optional
 Connection for copper pipe for distributor one/two pipe	5580010100 3/4" x 10mm 5580010200 3/4" x 12mm 5580010400 3/4" x 14mm 5580010500 3/4" x 15mm 5580010600 3/4" x 16mm 5580010700 3/4" x 18mm		-	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500	-	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500
 Connection for multilayer pipe	5580127000 [3/4"x18]x14/10 5580127100 [3/4"x18]x16/12 5580127200 [3/4"x18]x20/16		-	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500	-	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500

			Compact Panel	PHD 2.0 Panel with valve	PHD 2.0 Panel with central connection and valve	Hygiene Compact Panel	PHD 2.0 Hygiene Panel with valve	Vertical Profiled Panel
	5567009900		✓ optional	-	-	✓ optional	-	✓ optional
	5567010000		✓ optional	-	-	✓ optional	-	✓ optional
	5567011100		✓ optional	-	-	✓ optional	-	✓ optional
	5567011200		✓ optional	-	-	✓ optional	-	✓ optional
	550S300400		✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000
	550S300500		✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000
	550S300600		✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000
	550S300700		✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000
	550S300800		✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000
	550S300900		✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000

			Compact Panel	PHD 2.0 Panel with valve	PHD 2.0 Panel with central connection and valve	Hygiene Compact Panel	PHD 2.0 Hygiene Panel with valve	Vertical Profiled Panel
	550S301000		✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000
	550S301100		✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000
	5567008600		-	-	-	-	-	✓ optional
	5567011000		-	-	-	-	-	✓ optional
	5567011300		✓ optional for 5567009900 5567010000 5567008600 5567011000	-	-	✓ optional for 5567009900 5567010000 5567008600 5567011000	-	✓ optional for 5567009900 5567010000 5567008600 5567011000
	5580105400		✓ optional for 5567009900 5567010000 5567008600 5567011000	-	-	✓ optional for 5567009900 5567010000 5567008600 5567011000	-	✓ optional for 5567009900 5567010000 5567008600 5567011000
	5580104900		-	✓ optional	✓ optional	-	✓ optional	-
	5580113800		-	✓ optional	✓ optional	-	✓ optional	✓ optional for kit danfoss 5567001000
	5580127700 chrome		-	✓ optional	✓ optional	-	✓ optional	✓ optional for kit danfoss 5567001000
	5580127500 black 5580127600 white		-	✓ optional	✓ optional	-	✓ optional	-
	7381016700		-	✓ optional	-	-	✓ optional	-

Weight, water content and heating surface

Profiled Panels - (per meter)

COMPACT RAD

		Height					
Model	Feature	300	400	500	600	700	900
10	Water content [l/m]	2,10	2,57	3,03	3,50	4,63	5,10
	Weight [kg/m]	6,04	8,03	9,93	11,53	14,06	16,94
	Heating surface [m2/m]	0,67	0,90	1,12	1,34	1,59	2,02
11	Water content [l/m]	2,10	2,57	3,03	3,50	4,63	5,10
	Weight [kg/m]	10,06	12,78	16,13	19,24	22,12	29,22
	Heating surface [m2/m]	1,21	2,21	3,20	4,19	5,19	7,16
21	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	15,40	20,37	26,14	30,19	35,34	45,91
	Heating surface [m2/m]	1,86	3,07	4,28	5,48	6,69	9,10
22	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	16,98	22,48	28,61	34,01	40,54	51,40
	Heating surface [m2/m]	2,43	4,41	6,39	8,37	10,35	14,37
33	Water content [l/m]	6,10	7,87	9,63	11,40	12,73	15,40
	Weight [kg/m]	25,52	33,88	42,51	50,19	58,51	76,84
	Heating surface [m2/m]	3,64	6,62	9,59	12,56	15,54	21,48

PANEL WITH VALVE - CENTRAL CONN.

		Height					
Model	Feature	300	400	500	600	700	900
10	Water content [l/m]	2,10	2,57	3,03	3,50	4,63	5,10
	Weight [kg/m]	6,75	9,00	11,25	13,50	15,75	20,25
	Heating surface [m2/m]	0,67	0,90	1,12	1,34	1,59	2,02
11	Water content [l/m]	2,10	2,57	3,03	3,50	4,63	5,10
	Weight [kg/m]	10,35	13,80	17,25	20,70	24,15	31,05
	Heating surface [m2/m]	1,21	2,21	3,20	4,19	5,19	7,16
21	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	16,11	21,48	26,85	32,22	37,59	48,33
	Heating surface [m2/m]	1,86	3,07	4,28	5,48	6,69	9,10
22	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	19,35	25,80	32,25	38,70	45,15	58,05
	Heating surface [m2/m]	2,43	4,41	6,39	8,37	10,35	14,37
33	Water content [l/m]	6,10	7,87	9,63	11,40	12,73	15,40
	Weight [kg/m]	28,80	38,40	48,00	57,60	67,20	86,40
	Heating surface [m2/m]	3,64	6,62	9,59	12,56	15,54	21,48

PHD 2.0 HYGIENE RAD WITH VALVE

		Height					
Model	Feature	300	400	500	600	700	900
10	Water content [l/m]	2,10	2,57	3,03	3,50	4,63	5,10
	Weight [kg/m]	6,38	8,46	10,52	12,23	14,86	18,00
	Heating surface [m2/m]	0,67	0,90	1,12	1,34	1,59	2,02
20	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	12,23	15,98	19,43	23,24	27,59	34,65
	Heating surface [m2/m]	1,32	1,76	2,20	2,63	3,09	3,96
30	Water content [l/m]	6,10	7,87	9,63	11,40	12,73	15,40
	Weight [kg/m]	18,56	24,23	29,39	35,12	41,73	52,31
	Heating surface [m2/m]	1,98	2,65	3,31	3,95	4,65	5,87

PHD 2.0 RAD WITH VALVE

		Height					
Model	Feature	300	400	500	600	700	900
10	Water content [l/m]	2,10	2,57	3,03	3,50	4,63	5,10
	Weight [kg/m]	6,38	8,46	10,52	12,23	14,86	18,00
	Heating surface [m2/m]	0,67	0,90	1,12	1,34	1,59	2,02
11	Water content [l/m]	2,10	2,57	3,03	3,50	4,63	5,10
	Weight [kg/m]	10,24	12,99	16,38	19,50	22,41	29,57
	Heating surface [m2/m]	1,21	2,21	3,20	4,19	5,19	7,16
21	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	15,47	20,40	26,12	30,11	35,17	45,65
	Heating surface [m2/m]	1,86	3,07	4,28	5,48	6,69	9,10
22	Water content [l/m/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m/m]	17,06	22,52	28,56	33,89	40,38	51,09
	Heating surface [m2/m]	2,43	4,41	6,39	8,37	10,35	14,37
32	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	24,90	33,04	41,65	49,30	60,50	76,08
	Heating surface [m2/m]	3,10	6,08	9,05	12,02	15,00	20,94
33	Water content [l/m]	6,10	7,87	9,63	11,40	12,73	15,40
	Weight [kg/m]	25,59	33,93	42,47	50,08	58,35	76,53
	Heating surface [m2/m]	3,64	6,62	9,59	12,56	15,54	21,48

HYGIENE COMPACT RAD

		Height					
Model	Feature	300	400	500	600	700	900
10	Water content [l/m]	2,10	2,57	3,03	3,50	4,63	5,10
	Weight [kg/m]	6,04	8,03	9,93	11,53	14,06	16,94
	Heating surface [m2/m]	0,67	0,90	1,12	1,34	1,59	2,02
20	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	12,16	15,95	19,45	23,32	27,76	34,91
	Heating surface [m2/m]	1,32	1,76	2,20	2,63	3,09	3,96
30	Water content [l/m]	6,10	7,87	9,63	11,40	12,73	15,40
	Weight [kg/m]	18,49	24,18	29,43	35,23	41,89	52,62
	Heating surface [m2/m]	1,98	2,65	3,31	3,95	4,65	5,87

Weight and water content

Vertical Profiled Panel

			Lenght					
Model	Feature	Feature	300	400	500	600	700	900
10	1400	Water content [l]	2,49	3,32	4,16	4,99	5,82	7,48
		Weight [kg]	8,30	11,06	13,83	16,60	19,36	24,89
	1600	Water content [l]	2,73	3,64	4,55	5,45	6,36	8,18
		Weight [kg]	9,42	12,56	15,71	18,85	21,99	28,27
	1800	Water content [l]	2,95	3,94	4,92	5,90	6,89	8,86
		Weight [kg]	10,55	14,06	17,58	21,10	24,61	31,64
	2000	Water content [l]	3,33	4,44	5,55	6,66	7,77	9,99
		Weight [kg]	11,66	15,55	19,44	23,33	27,22	34,99
	2200	Water content [l]	3,80	5,07	6,33	7,60	8,87	11,40
		Weight [kg]	13,00	17,33	21,67	26,00	30,33	39,00
	2400	Water content [l]	4,15	5,53	6,92	8,30	9,68	12,45
		Weight [kg]	14,05	18,73	23,42	28,10	32,78	42,15

			Lenght					
Model	Feature	Feature	300	400	500	600	700	900
20	1400	Water content [l]	5,00	6,66	8,33	9,99	11,66	14,99
		Weight [kg]	16,95	22,60	28,25	33,89	39,54	50,84
	1600	Water content [l]	5,50	7,33	9,17	11,00	12,83	16,50
		Weight [kg]	19,38	25,84	32,30	38,75	45,21	58,13
	1800	Water content [l]	6,00	8,00	10,01	12,01	14,01	18,01
		Weight [kg]	21,80	29,06	36,33	43,60	50,86	65,39
	2000	Water content [l]	6,74	8,99	11,24	13,48	15,73	20,22
		Weight [kg]	24,22	32,29	40,37	48,44	56,51	72,66
	2200	Water content [l]	7,70	10,27	12,83	15,40	17,97	23,10
		Weight [kg]	26,20	34,93	43,67	52,40	61,13	78,60
	2400	Water content [l]	8,25	11,00	13,75	16,50	19,25	24,75
		Weight [kg]	28,80	38,40	48,00	57,60	67,20	86,40

			Lenght					
Model	Altezza	Feature	300	400	500	600	700	900
21	1400	Water content [l]	5,00	6,66	8,33	9,99	11,66	14,99
		Weight [kg]	20,80	27,73	34,67	41,60	48,53	62,40
	1600	Water content [l]	5,50	7,33	9,17	11,00	12,83	16,50
		Weight [kg]	23,72	31,63	39,54	47,45	55,36	71,17
	1800	Water content [l]	6,00	8,00	10,01	12,01	14,01	18,01
		Weight [kg]	26,65	35,53	44,42	53,30	62,18	79,95
	2000	Water content [l]	6,74	8,99	11,24	13,48	15,73	20,22
		Weight [kg]	29,65	39,53	49,41	59,29	69,17	88,94
	2200	Water content [l]	7,70	10,27	12,83	15,40	17,97	23,10
		Weight [kg]	32,70	43,60	54,50	65,40	76,30	98,10
	2400	Water content [l]	8,25	11,00	13,75	16,50	19,25	24,75
		Weight [kg]	35,60	47,47	59,33	71,20	83,07	106,80

			Lenght					
Model	Feature	Feature	300	400	500	600	700	900
22	1400	Water content [l]	5,00	6,66	8,33	9,99	11,66	14,99
		Weight [kg]	24,65	32,86	41,09	49,31	57,52	73,96
	1600	Water content [l]	5,50	7,33	9,17	11,00	12,83	16,50
		Weight [kg]	27,57	36,76	45,96	55,16	64,35	82,73
	1800	Water content [l]	6,00	8,00	10,01	12,01	14,01	18,01
		Weight [kg]	30,50	40,66	50,84	61,01	71,17	91,51
	2000	Water content [l]	6,74	8,99	11,24	13,48	15,73	20,22
		Weight [kg]	33,50	44,66	55,83	67,00	78,16	100,50
	2200	Water content [l]	7,70	10,27	12,83	15,40	17,97	23,10
		Weight [kg]	36,55	48,73	60,92	73,11	85,29	109,66
	2400	Water content [l]	8,25	11,00	13,75	16,50	19,25	24,75
		Weight [kg]	39,45	52,60	65,75	78,91	92,06	118,36

Spare side covers and spare grills - Profiled Panel

SIDE COVER FOR PROFILED PANEL

Model	Height	11	20	21	22	32/33	22 special tapping centre	33 special tapping centre
compact	300	7380000000	7380012400	7380001800	7380003000	7380004200	7380018300	7380018800
Rightvalve rad	300	7380000600	7380002400	7380002400	7380003600	7380004800	-	-
Leftvalve rad	300	7380001200	7380002400	7380002400	7380003600	7380005400	-	-
compact	400	7380000100	7380012500	7380001900	7380003100	7380004300	7380018400	7380018900
Rightvalve rad	400	7380000700	7380002500	7380002500	7380003700	7380004900	-	-
Leftvalve rad	400	7380001300	7380002500	7380002500	7380003700	7380005500	-	-
compact	500	7380000200	7380012600	7380002000	7380003200	7380004400	7380018500	7380019000
Rightvalve rad	500	7380000800	7380002600	7380002600	7380003800	7380005000	-	-
Leftvalve rad	500	7380001400	7380002600	7380002600	7380003800	7380005600	-	-
compact	600	7380000300	7380012700	7380002100	7380003300	7380004500	7380018600	7380019100
Rightvalve rad	600	7380000900	7380002700	7380002700	7380003900	7380005100	-	-
Leftvalve rad	600	7380001500	7380002700	7380002700	7380003900	7380005700	-	-
compact	700	7380000400	7380012800	7380002200	7380003400	7380004600	7380018700	7380019200
Rightvalve rad	700	7380001000	7380002800	7380002800	7380004000	7380005200	-	-
Leftvalve rad	700	7380001600	7380002800	7380002800	7380004000	7380005800	-	-
compact	900	7380000500	7380012900	7380002300	7380003500	7380004700	7380019300	7380019400
Rightvalve rad	900	7380001100	7380002900	7380002900	7380004100	7380005300	-	-
Leftvalve rad	900	7380001700	7380002900	7380002900	7380004100	7380005900	-	-

GRILL FOR PROFILED PANEL

Model	Length	11	20	21	22	32/33
all	400	7380006000	7380013000	7380007600	7380009200	7380010800
all	500	7380006100	7380013100	7380007700	7380009300	7380010900
all	600	7380006200	7380013200	7380007800	7380009400	7380011000
all	700	7380006300	7380013300	7380007900	7380009500	7380011100
all	800	7380006400	7380013400	7380008000	7380009600	7380011200
all	900	7380006500	7380013500	7380008100	7380009700	7380011300
all	1000	7380006600	7380013600	7380008200	7380009800	7380011400
all	1100	7380006700	7380013700	7380008300	7380009900	7380011500
all	1200	7380006800	7380013800	7380008400	7380010000	7380011600
all	1400	7380006900	7380013900	7380008500	7380010100	7380011700
all	1600	7380007000	7380014000	7380008600	7380010200	7380011800
all	1800	7380007100	7380014100	7380008700	7380010300	7380011900
all	2000	7380007200	7380014200	7380008800	7380010400	7380012000
all	2300	7380007300	7380014300	7380008900	7380010500	7380012100
all	2600	7380007400	7380014400	7380009000	7380010600	7380012200
all	3000	7380007500	7380014500	7380009100	7380010700	7380012300

PLASTIC GRID STOPPER FOR PROFILED PANEL

Description	Code
FOR MODEL 20	5380000301
FOR MODEL 21	5380000401
FOR MODEL 22	5380000501
FOR MODEL 33	5380000301 + 5380000501
PLASTIC SCREW FOR GRID STOPPER 1 x Plastic grid stopper	535295

SIDE COVER FOR VERTICAL PANEL

Description	Code	
Spare part Side panel 20 1400 NE	7384002700	Spare part 20/21 vert.
Spare part Side panel 20 1600 NE	7384002800	Spare part 20/21 vert.
Spare part Side panel 20 1800 NE	7384002900	Spare part 20/21 vert.
Spare part Side panel 20 2000 NE	7384003000	Spare part 20/21 vert.
Spare part Side panel 20 2200 NE	7384003100	Spare part 20/21 vert.
Spare part Side panel 20 2400 NE	7384003300	Spare part 20/21 vert.
Spare part Side panel 22 1400 NE	7384004600	Spare part 22 vert.
Spare part Side panel 22 1600 NE	7384004700	Spare part 22 vert.
Spare part Side panel 22 1800 NE	7384004800	Spare part 22 vert.
Spare part Side panel 22 2000 NE	7384004900	Spare part 22 vert.
Spare part Side panel 22 2200 NE	7384005000	Spare part 22 vert.
Spare part Side panel 22 2400 NE	7384005100	Spare part 22 vert.

SPARE PART GRID FOR VERTICAL PANEL

Description	Code	
Spare part vertical L 300	7384002000	Spare part Grid 20-21
Spare part vertical L 400	7384002100	Spare part Grid 20-21
Spare part vertical L 500	7384002200	Spare part Grid 20-21
Spare part vertical L 600	7384002300	Spare part Grid 20-21
Spare part vertical L 700	7384002400	Spare part Grid 20-21
Spare part vertical L 900	7384002500	Spare part Grid 20-21
Spare part vertical L 300	7384005200	Spare part Grid 22
Spare part vertical L 400	7384005300	Spare part Grid 22
Spare part vertical L 500	7384005400	Spare part Grid 22
Spare part vertical L 600	7384005500	Spare part Grid 22
Spare part vertical L 700	7384005600	Spare part Grid 22
Spare part vertical L 900	7384005700	Spare part Grid 22

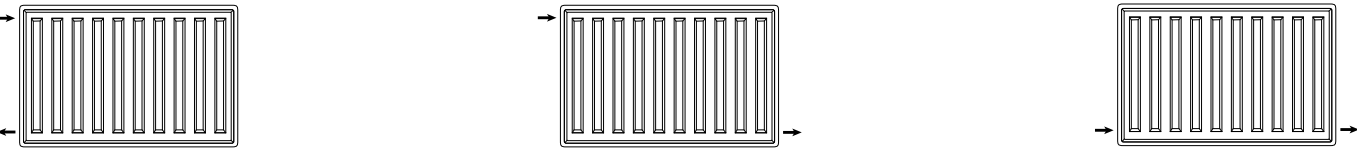
PLASTIC GRID STOPPER FOR VERTICAL PANEL

Description	Code
FOR MODEL 20	5380000301
FOR MODEL 21	5380000401
FOR MODEL 22	5380000501
PLASTIC SCREW FOR GRID STOPPER 1 x Plastic grid stopper	535295

Compact Panel and Hygiene Compact Panel

Connection methods

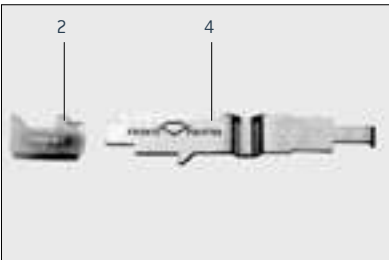
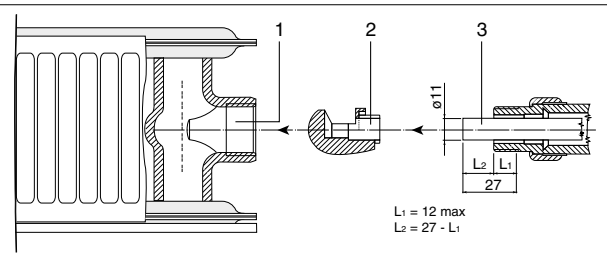
Two-pipe



The connection methods described here are symmetric.

Compact radiators can be connected with a two-pipe connection as follows: top/bottom same side (all EN442 heat outputs are calculated and verified with this type of connection), top/bottom opposite side (the best way to connect radiators longer than 1000 mm), bottom/bottom opposite side (this connection method reduces heat output by about 10%). Two-pipe connection requires a thermostatic valve (possibly with thermostatic head) and lockshield.

One-pipe



Compact radiators can be connected with a one-pipe connection using the special flow diverter (2) inserted in the connection point (1) using the key (4). To connect to a one-pipe installation, a one-pipe valve with probe (not available from DL Radiators catalogue) is required. The probe must have a maximum length of 11 mm and the length of the external probe and the thread inside the valve must not exceed 27 mm (3).

One-pipe connection kit

Code	Description
5380003300	Flow divertor for one-pipe valve
611561	Wrench for the flow divertor

Pressure drop and valve regulation

Two-Pipe

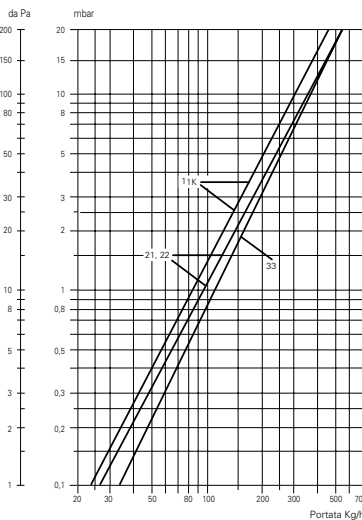


Chart 1: Pressure drop two-pipe

Pressure drops Δp are expressed by daPa and mbar.

1 mm H₂O = 0,0981 mbar

Pressure drop chart for Compact Panels

The values are obtained with the connection 1/2 G by one side.

model 11K
model 21 e 22
model 33

One-Pipe

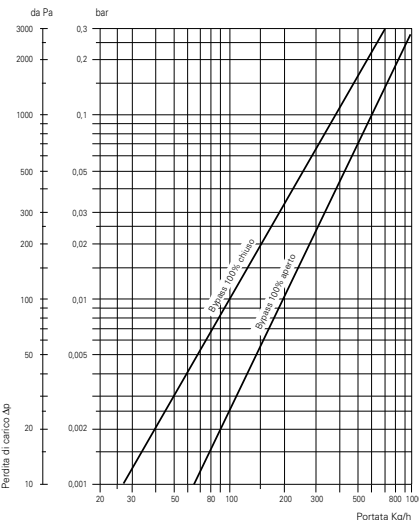
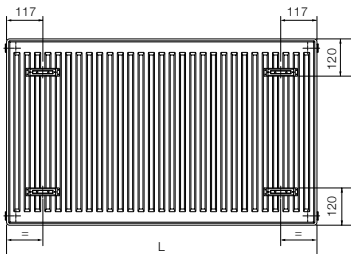


Chart 2: Pressure drop one-pipe

Pressure drops refer to panels with valve for one-pipe loop with the special flow diverter. They are espresse by daPa and bar.

Pressure drop chart shows the outer values of pressure drops for Compact Panels for models 21, 22 e 33. Care of instructions for one-pipe valve.

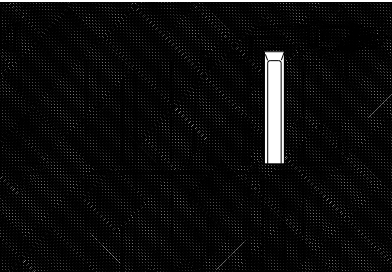
How many brackets are required:



Up to 1600 mm, 4 back supports are welded and so 2 brackets (1 set) is required; above 1800 mm, 6 back supports are welded and so 3 brackets (2 sets) are required.

PHD 2.0 Panel with valve, PHD 2.0 Hygiene Panel with valve

Connection methods



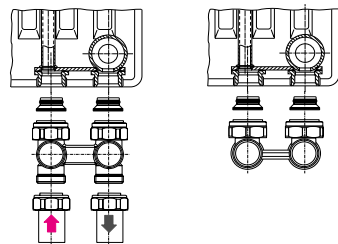
PHD radiators are supplied with preset thermostatic valve. Regulation is based on the 70/55-20 heat output of the radiator and the pressure drop of the insert mounted (0.1 bar).

If resetting is required:

The setting for the thermostatic insert (two-pipe connection) is obtained from the flow rate Q diagrams (expressed in kg/h) - Pressure drop Δp (expressed in bars or kPa). Starting from the Δt set in the system and the power of the radiator (EN442 standard output), the intersection with the pressure drop value on the X axis determines the nearest kv at which to set the insert (for example: position 3 or 4).

Instructions on adjusting the thermostatic insert are provided with every panel.

Two-pipe connection



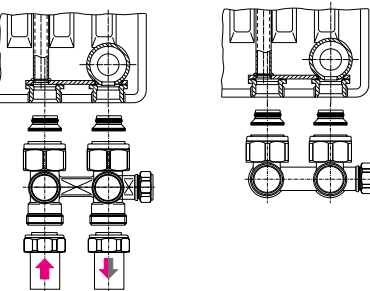
PHD radiators can be connected to a two-pipe installation using a straight or square distributor. Our range of distributors are provided with Eurocone insert for connection to the 3/4" externally threaded connections on radiators with valve.

The nozzle on the distributors provided for draining the radiator can be connected to the draining device.

Distributors Two Pipe

Code	Description
5580013600	H distributor straight - TWO PIPE
5580013700	H distributor curved - TWO PIPE
5580103500	H distributor straight (fit for drainoff) - TWO PIPE
5580103600	H distributor curved (fit for drainoff) - TWO PIPE

One-pipe connection



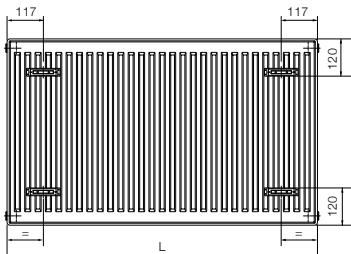
PHD radiators can be connected to a one-pipe installation using a straight or square distributor. Our range of distributors are provided with Eurocone insert for connection to the 3/4" externally threaded connections on radiators with valve. On the distributor side the by-pass must be regulated to define the water flow entering the radiator and the flow bypassing it to continue in the circuit. Place the thermostatic insert in the N position (fully open) then adjust the number of turns of the bypass.

For further technical details, see the Radiators Technical Catalogue downloadable from our new site www.dlradiators.com.

Distributors One Pipe

Code	Description
5580008200	H distributor straight - ONE PIPE
5580008300	H distributor curved - ONE PIPE

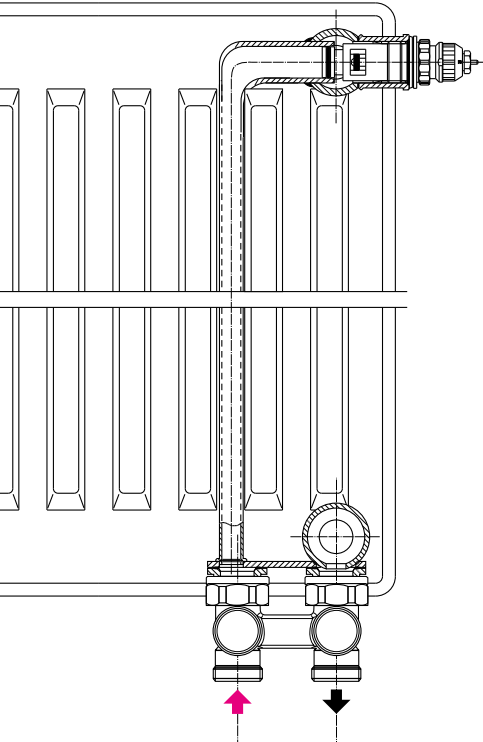
How many brackets are required:



Up to 1600 mm, 4 back supports are welded and so 2 brackets (1 set) is required; above 1800 mm, 6 back supports are welded and so 3 brackets (2 sets) are required.

PHD 2.0 Panel with valve and PHD 2.0 Panel with central connection and valve

Pressure drop and valve regulation - Panels with valve (Two-Pipe)



Square or straight distributors can be used in two-pipe installations. These distributors incorporate two gate valves to intercept the input and output flows. PHD series radiators can also be used without distributors.

To ensure the thermostatic head maintains room temperature precisely, the built-in Danfoss thermostatic valve must be adjusted to achieve a pressure drop of 0.1 bar in the radiator (use diagram 1).

REGULATION

The value obtained from the diagram can be set on the Danfoss thermostatic valve easily without using tools (for maximum accessibility, it may be more convenient to regulate the valve before assembly):

- Remove the protective cap
- Turn the adjustment ring until the pointer corresponds to the required value on the graduated scale (fig. 1)

The setting is continuous from 1 to 7 (fig. 2). In position N, the valve is fully open.

Example:

- Model 21/600-1100
- Power output = 1412 W
- With $\Delta t = 15^\circ\text{C}$ and $\Delta p = 0,1$ bar from chart 1 you obtain the valve regulation value: 3 (water flux)

DL Radiators Code	Danfoss Code	Danfoss Model	Colour Ring	Presetting	Cap
5580115600	013G1489	013G0380	black	N4	red
5580115700	013G1490	013G0380	orange	N6	red
5580115500	013G1488	013G0380	red	NN	red
5580115800	013G1401	013G0381	white	U3	yellow
5580115900	013G1402	013G0381	green	U5	yellow

Fig. 1

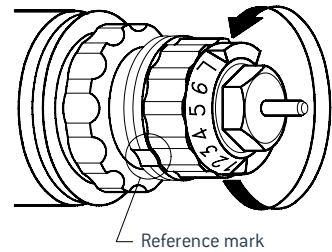


Fig. 2

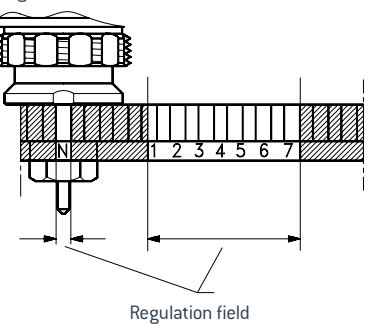


Fig. 3

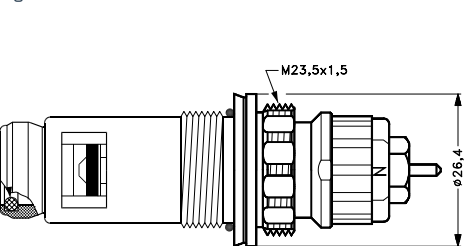
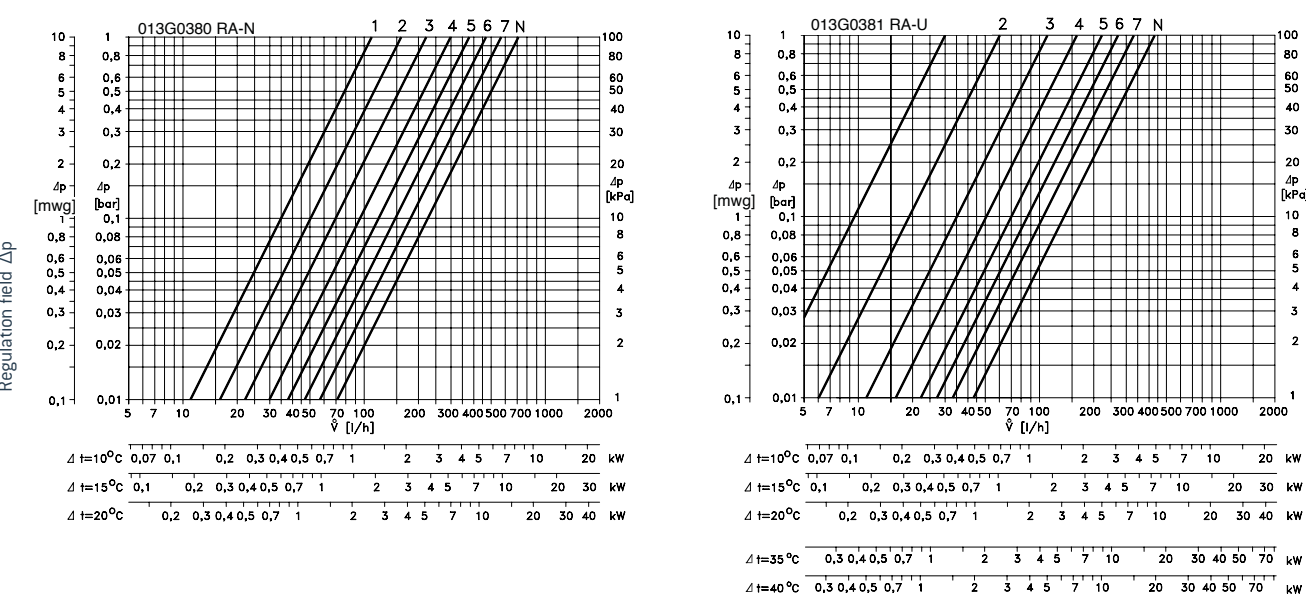
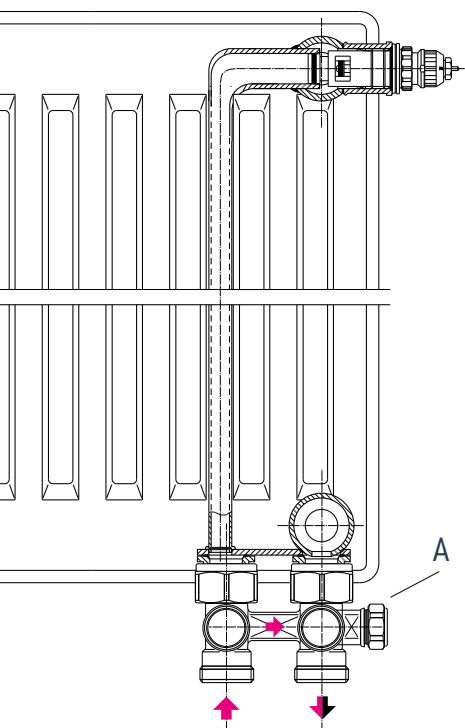


Chart 1



PHD 2.0 Panel with valve and PHD 2.0 Panel with central connection and valve

Pressure drop and valve regulation - panels with valve (One-Pipe)



For one-pipe installations, a straight or square distributor with adjustable by-pass is required. The Danfoss thermostatic valve must be placed in the N position.

When the percentage flow rate in the radiator is known (with respect to the total flow in the installation), the no. of turns to be set on the by-pass can be obtained from diagram 1.

The by-pass under the cover A of the distributor can then be adjusted using an Allen key by the number of turns indicated in the table.

To know the pressure drop in the radiator, use diagram 2. Once the total flow in the installation and the percentage flow in the radiator are known, the pressure drop in metres of water column or bars can be obtained.

EXAMPLE: Total thermal flow in the loop (5814 Watt)
 $\Delta t = 10^\circ\text{C}$ (75/65 $^\circ\text{C}$)
35% water capacity in the exchanger

OBTAIN: by-pass regulation value and pressure lost in the radiator

SOLUTION: Capacity in the ring $\dot{m} = \frac{\dot{Q}}{c \times \Delta t} = \frac{5814 \times 0,86}{1 \times 10} = 500 \text{ kg/h}$

From chart 1 : by-pass turning number = 1 + 3/4
From chart 2 $\Delta p = 0,1$ bar

The flow rate in the radiator can be regulated subsequently, including during operation.

The distributor can also be used as a blind bridge if the radiator is mounted subsequently or dismantled, without having to empty the installation.

Chart 1

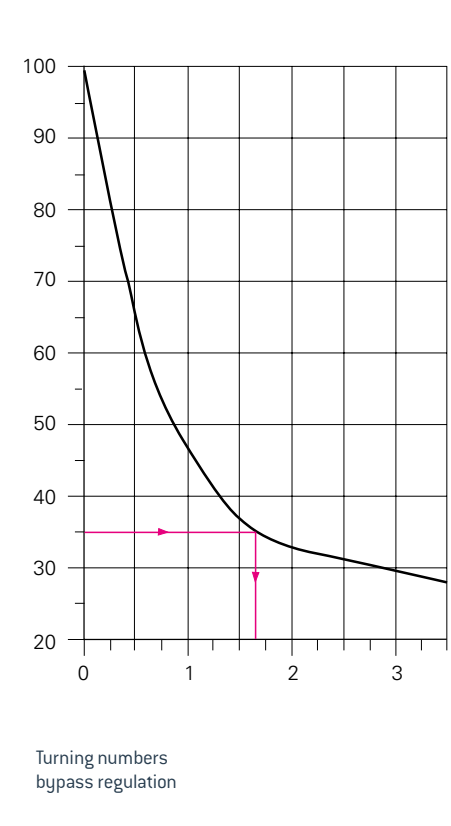
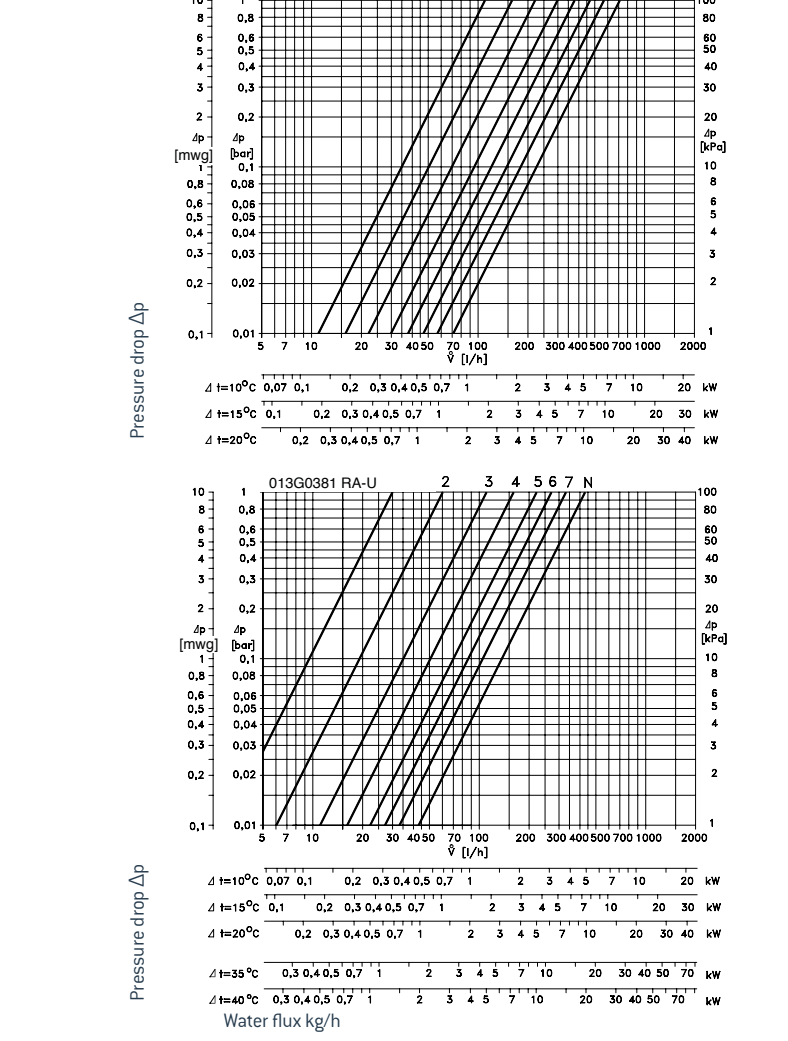
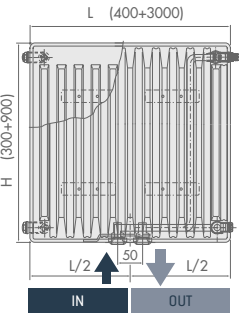


Chart 2



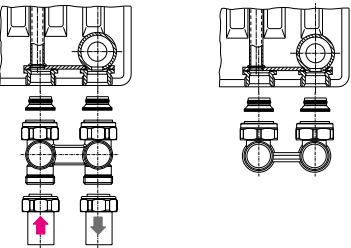
PHD 2.0 Panel with central connection and valve

Connection methods



The setting for the thermostatic insert (two-pipe connection) is obtained from the flow rate Q diagrams (expressed in kg/h) - Pressure drop Δp (expressed in bars or kPa). Starting from the Δt set in the system and the power of the radiator (EN442 standard output), the intersection with the pressure drop value on the X axis determines the nearest kv at which to set the insert (for example: position 3 or 4). Panels with central connection are supplied with the insert in the N position (valve fully open). Instructions on adjusting the thermostatic insert are provided with every Plattella panel. The inlet connection lies always on the left, even by right-valve radiator

Two-pipe connection

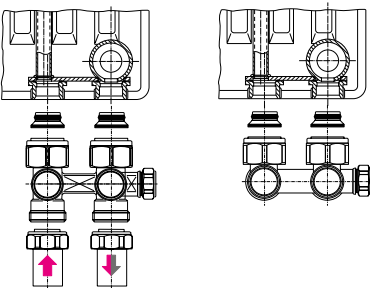


Panels with central connection can be connected to a two-pipe installation using a straight or square distributor. Our range of distributors are provided with Eurocone insert for connection to the 3/4" externally threaded connections on Plattella Thermostatic radiators. The nozzle on the distributors provided for draining the radiator can be connected to the draining device.

Distributors Two Pipe

Code	Description
5580013600	H distributor straight - TWO PIPE
5580013700	H distributor curved - TWO PIPE
5580103500	H distributor straight (fit for drainoff) - TWO PIPE
5580103600	H distributor curved (fit for drainoff) - TWO PIPE

One-pipe connection

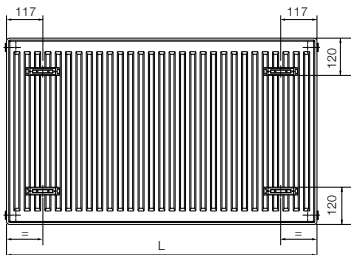


Panels with central connection can be connected to a one-pipe installation using a straight or square distributor. Our range of distributors are provided with Eurocone insert for connection to the 3/4" externally threaded connections on Plattella Thermostatic radiators. On the distributor side the by-pass must be regulated to define the water flow entering the radiator and the flow bypassing it to continue in the circuit. Place the thermostatic insert in the N position (fully open) then adjust the number of turns of the bypass.

Distributors One Pipe

Code	Description
5580008200	H distributor straight - ONE PIPE
5580008300	H distributor curved - ONE PIPE

How many brackets are required:



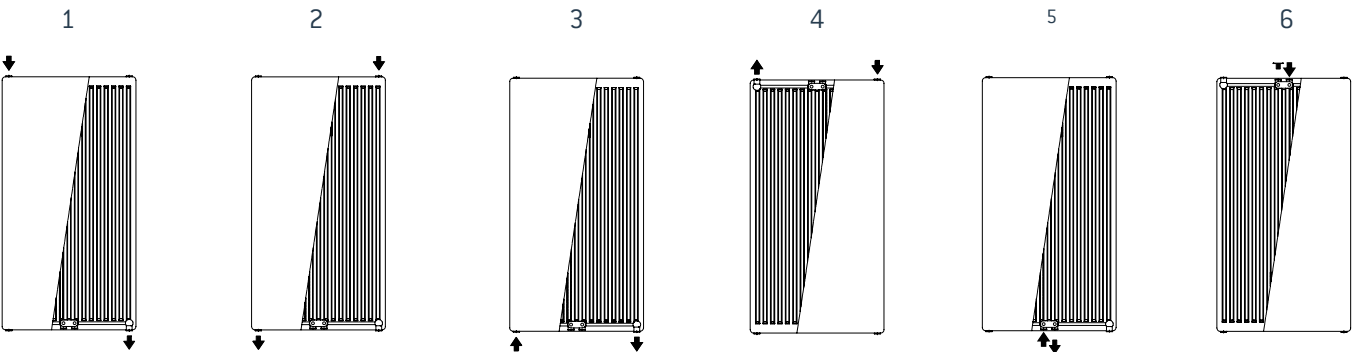
Up to 1600 mm, 4 back supports are welded and so 2 brackets (1 set) is required; above 1800 mm, 6 back supports are welded and so 3 brackets (2 sets) are required.

Vertical Profiled Panel

Connection possibilities

Connection possibilities

Vertical radiators can be connected to a two-pipe connection as follows: top/bottom opposite side (1, 2), bottom/bottom opposite side (3), top/top opposite side (4) connections and in the configuration with bottom (5) or top (6) central connection. The top/top opposite side connection (4) and top central connection (6) are applicable only and exclusively with the panel in configuration AA (top connection) as in this case a deflector is installed in the radiator. AA Configuration has no grille. Configurations 3, 4, 5 and 6 are symmetrical with respect to the indications in the drawings below (the output and input indicated by the arrows can be reversed). Two-pipe connection with side connections requires a thermostatic valve (possibly with thermostatic head) and lockshield. When connecting with side connections, the central connection must be sealed with two blind caps.

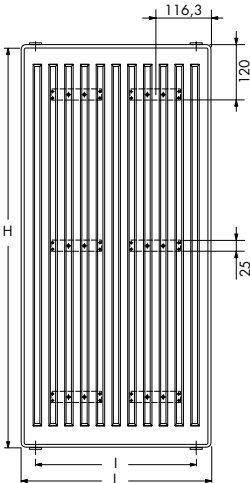


Central connection with valve/lockshield kit

In a two-pipe connection, Vertical radiators can be connected with a central connection using a valve/lockshield group with 50mm tappings centre (to be ordered separately) which can be connected to the central connection of the panel via two 3/4" - 1/2" nipples. The setting for the valve in the valve/lockshield group with 50mm tappings centre (two-pipe connection) is obtained from the flow rate Q diagrams (expressed in kg/h) - Pressure drop Δp (expressed in bars or kPa). Starting from the Δt set in the system and the power of the radiator (EN442 standard output), the intersection with the pressure drop value on the X axis determines the nearest kv at which to set the insert (for example: position 3 or 4). The valve/lockshield group can be thermostatically controlled by fitting the thermostatic head (to be ordered separately).

 5567001000 Chrome Danfoss Kit H-valve tappings centre 50mm	 55670009900 Ovus chrome valve 1/2" x 24/19	 5567011100 Ovus white valve 1/2" x 24/19	 5567008600 Kit Ovus 1/2" x 24/19 only two pipe
 5567010000 Ovus chrome lockshield valve 1/2" x 24/19	 5567011200 Ovus white lockshield valve 1/2" x 24/19	 5567011000 Kit Ovus 1/2" x 24/19 only two pipe	

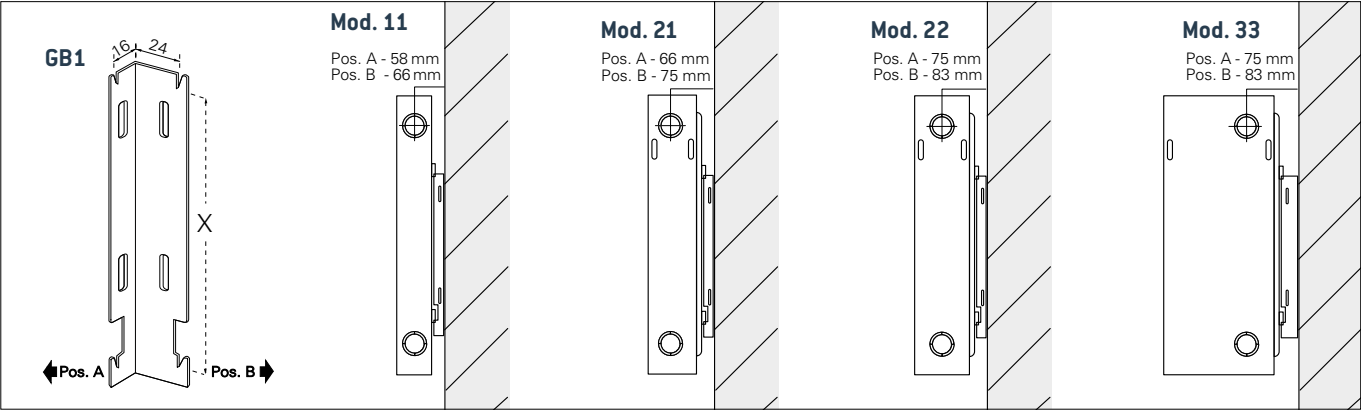
How many brackets are required:



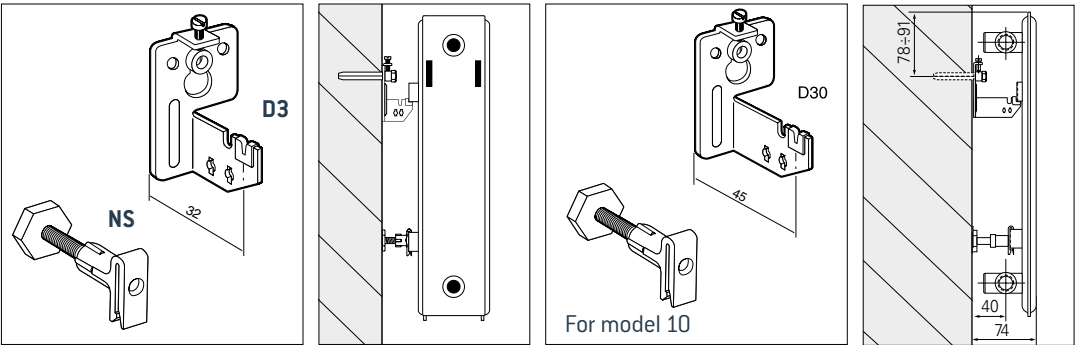
The 300mm wide Vertical radiator needs 1 bracket, (1 set), from the 400mm 2 brackets (2 sets) are required.

Wall brackets - steel panels

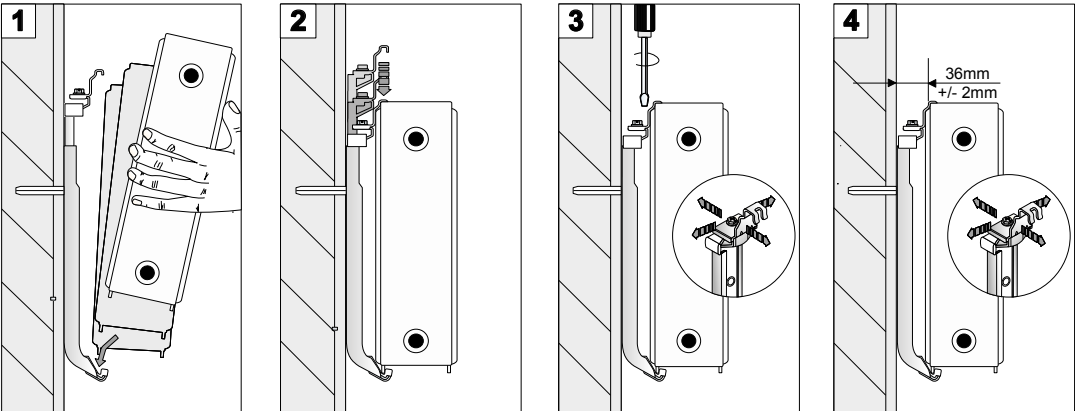
BRACKETS GB1



BRACKETS D3 - D30



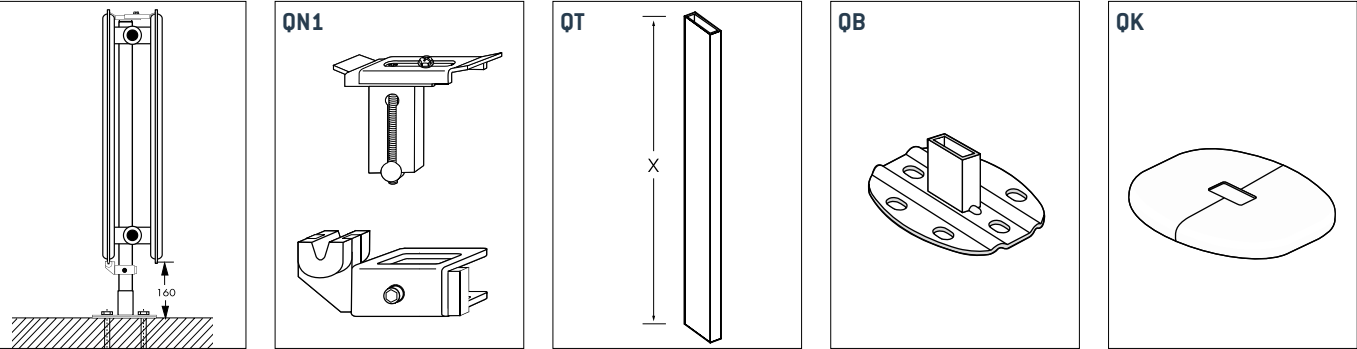
BRACKETS F7



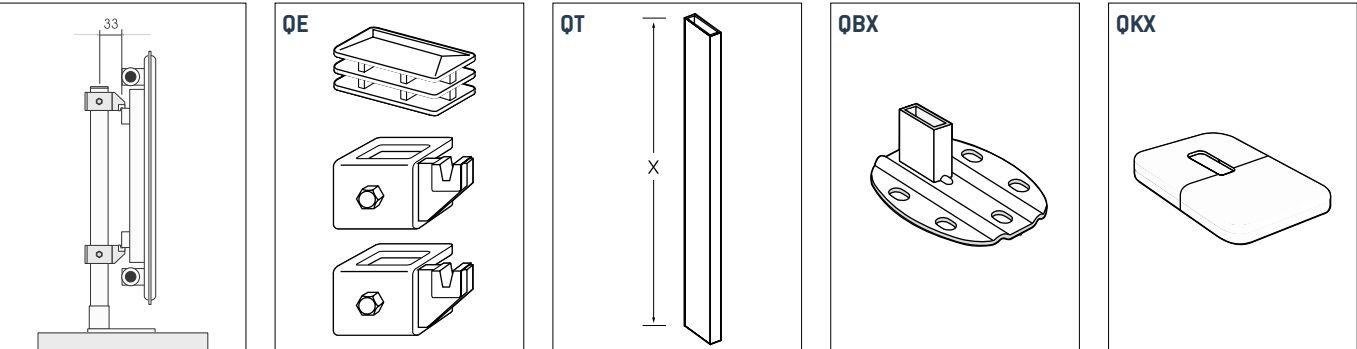
Distances and dimensions: see product pages.

Floor anchors - steel panels

KIT QT with QN1 For models Compact panel type 21 - 22 - 33, PHD 2.0 Panel type 21 - 22 - 33, Hygiene Compact panel type 20 - 30 and Hygiene PHD 2.0 type 20 - 30



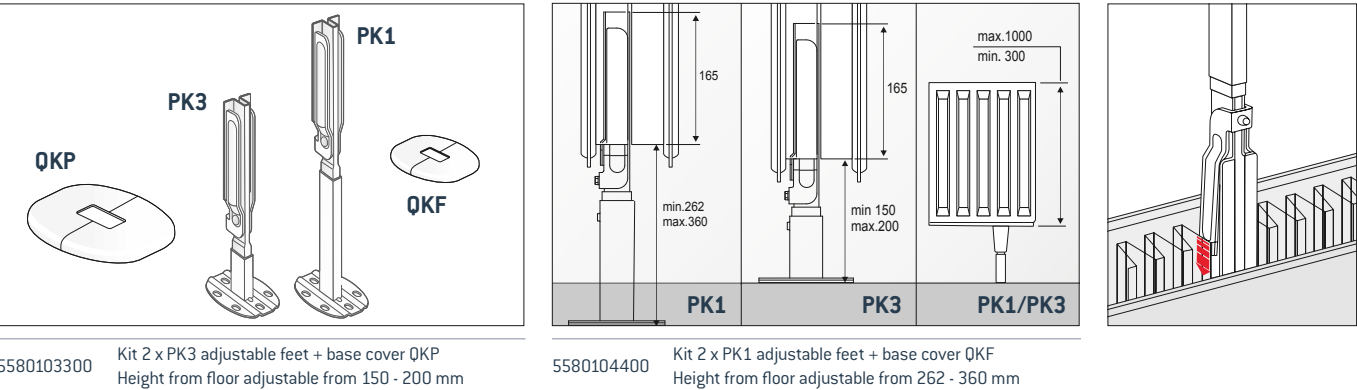
KIT QT with QE For models Compact panel type 21 - 22 - 33, PHD 2.0 Panel type 21 - 22 - 33, Panel with central connection type 21 - 22 - 33, Hygiene Compact panel type 10 - 20 - 30 and Hygiene PHD 2.0 type 10 - 20 - 30



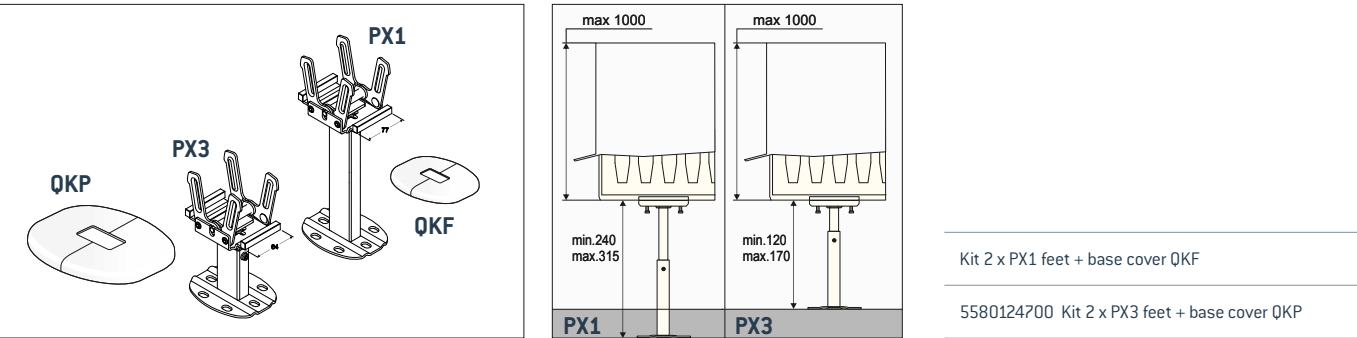
Code	Description	Code	Description
552309	QT floor anchor 460mm (H=300)	552314	QT base for QB
552310	QT floor anchor 560mm (H=400)	5580013400	QKP base cover
552311	QT floor anchor 660mm (H=500)	552317	2 x QE fixing with tube cover
552312	QT floor anchor 760mm (H=600)	5580005700	QN1 fixing for type 20, 30
552649	QT floor anchor 860mm (H=700)		
552313	QT floor anchor 1060mm (H=900)		

radiators up to 1600 mm long: two kits required
radiators up to 1800 mm long: three kits required

PK anchor For models Compact panel type 21 - 22 - 33, PHD 2.0 Panel type 21 - 22 - 33



PX anchor For models Compact panel type 21 - 22 - 33, PHD 2.0 Panel type 21 - 22 - 33, Hygiene Compact panel type 20 - 30 and Hygiene PHD 2.0 type 20 - 30 and models with central connection





Guaranteed for 5 years

During the many years of production experience, the moulding, welding, assembly and final control of Linear Panel radiators have reached such a high level of quality and precision that DL Radiators guarantees the line of products for 5 years.

Linear Steel Panel

HORIZONTAL AND VERTICAL LINEAR STEEL PANEL

The range

Linear steel panels include the versions:
— Compact with 4 side connections and models 10, 20, 21, 22 and 33;
— PHD 2.0 Panel with valve and 5 connections and models 10, 20, 21, 22, 33;
— steel panel with valve and central connections with the models 21, 22, 33.

All Linear PHD 2.0 Panels have a preferential water circulation and the thermostatic valve. Hygiene panels are included in the product range. To complete the range there are the Vertical steel panel with 6 connections.

Quality

Linear steel panels are made from top quality 1.25 mm thick steel ideal for deep moulding, with grooves 33.3mm apart. The heat outputs are determined at Milan Polytechnic according to the EN442 standard.

Packaging

Linear steel panels are packed with tough cardboard strips at the top and bottom. On the front they are packed with cardboard and plasticfoam. Then they are finished with heat shrink tape to protect from damp.

Painting

The top quality painted finish of Linear steel panels is achieved by an industrial process originating in the automotive sector to give each element a glossy long-lasting colour. Linear radiators are painted using a three-phase system:
— Hot degreasing and basic hot iron phosphatisation
— Electrophoretic dip coating to apply the base colour evenly in the innermost and outermost parts of the panel, followed by baking at 185°C
— Epoxy powder coating and baking at 170°C to give the panel a bright glossy finish
— The colour is DL Radiators's characteristic RAL9016 white in accordance with DIN 55900.

Linear Compact Panel



Technical characteristics

- Working pressure 10 bar
- Test pressure 13 bar
- Maximum operating temperature 110° C
- For NF certification see the website www.marque-nf.com

Standard equipment

- 4 x 1/2" connection, internal thread
- Superior grid
- Lateral side
- Brackets and supports
 - 4 welded supports up to and including a length of 1600mm; over this, 6 supports.

Connection

Linear Compact radiators can be connected to a two-pipe installation with high/high same side, high/low opposite side or low/low opposite side connections. The two-pipe connection requires a valve and lockshield (not provided). It is also possible to connect them to a one-pipe installation with a single connection, using the flow deviator. A one-pipe valve is not provided.

Safety

- Compact radiators cannot be inverted around any of the three axes.
- the sides of radiators are fastened with screws, safer than the interlocking system adopted on other panel radiators.

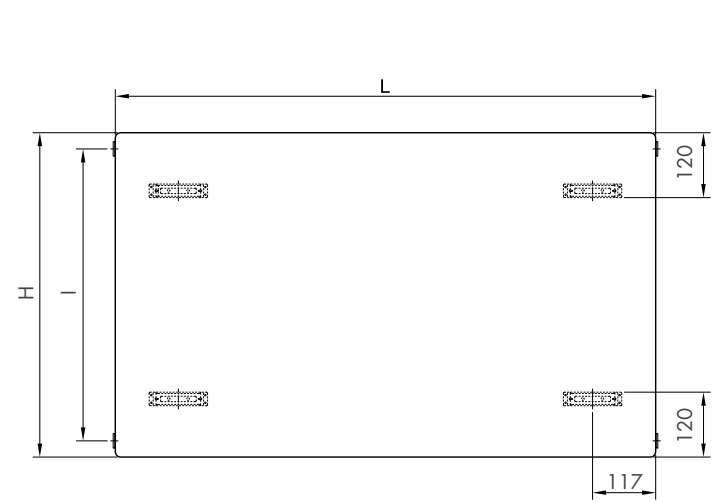
Optional

Brackets and optional accessories are available on dedicated pages.

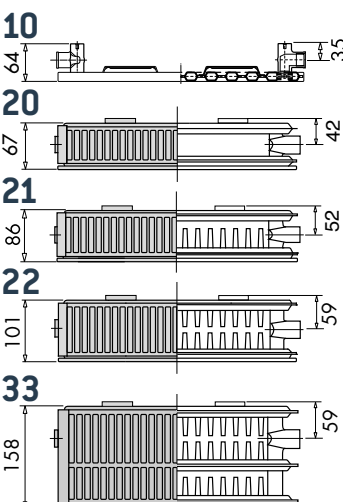
		Dimensions				
		10	20	21	22	33
panel depth - excluding back supports	A	64	67	86	101	158
total depth - from the back of the support to the front panel**	B	64	76	95	110	167
distance from the back support to the connection	C	-	42	51,5	59	59
distance from wall to the centre of the connection (mounting the radiators on the GB brackets provided)*	D	34	57/65	67/75	74/82	74/82
total distance from the wall to the front panel (panel mounted on the GP brackets provided as standard)*	E	69	90/98	109/117	124/132	181/189

* The total distance varies according to whether the GB bracket is mounted in position A or position B (choice of depth), model 10 mounted on D30 brackets
** Calculating the total size of the panel (from the wall to the front panel) with the chosen wall brackets: the useful length of the chosen bracket must be added to this measurement (see brackets page).

Front view



Upper view



Height (H) 300 — Tappings centre (I) 240

		10			20			21			22			33		
Width (mm)		64			67			86			101			158		
Exponent (n)		1,301			1,327			1,244			1,292			1,288		
Lenght (mm)		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	112	90	58	198	160	101	306	250	162	383	310	198	565	458	293
	Code	0182103012			0182203112			0182213112			0182223112			0182333112		
500	Power	140	113	72	248	200	126	382	312	202	479	388	247	707	572	366
	Code	0182103015			0182203115			0182213115			0182223115			0182333115		
600	Power	167	136	86	298	240	151	459	375	243	574	465	296	848	687	439
	Code	0182103018			0182203118			0182213118			0182223118			0182333118		
700	Power	195	158	101	347	280	176	535	437	283	670	543	346	989	801	512
	Code	0182103021			0182203121			0182213121			0182223121			0182333121		
800	Power	223	181	115	397	320	202	611	499	324	766	620	395	1130	916	586
	Code	0182103024			0182203124			0182213124			0182223124			0182333124		
900	Power	251	203	130	446	360	227	688	562	364	861	698	445	1272	1030	659
	Code	0182103027			0182203127			0182213127			0182223127			0182333127		
1.000	Power	279	226	144	496	400	252	764	624	405	957	775	494	1413	1145	732
	Code	0182103030			0182203130			0182213130			0182223130			0182333130		
1.100	Power	307	249	158	546	440	277	841	687	445	1053	853	543	1554	1259	805
	Code	0182103033			0182203133			0182213133			0182223133			0182333133		
1.200	Power	335	271	173	595	480	302	917	749	486	1148	930	593	1696	1373	878
	Code	0182103036			0182203136			0182213136			0182223136			0182333136		
1.400	Power	391	316	202	694	560	353	1070	874	567	1340	1085	692	1978	1602	1025
	Code	0182103042			0182203142			0182213142			0182223142			0182333142		
1.600	Power	446	362	230	794	640	403	1223	999	648	1531	1241	790	2261	1831	1171
	Code	0182103048			0182203148			0182213148			0182223148			0182333148		
1.800	Power	502	407	259	893	720	454	1376	1124	728	1723	1396	889	2543	2060	1318
	Code	0182103054			0182203154			0182213154			0182223154			0182333154		
2.000	Power	558	452	288	992	800	504	1528	1249	809	1914	1551	988	2826	2289	1464
	Code	0182103060			0182203160			0182213160			0182223160			0182333160		
2.300	Power	642	520	331	1141	919	580	1758	1436	931	2201	1783	1136	3250	2633	1684
	Code	0182103069			0182203169			0182213169			0182223169			0182333169		
2.600	Power	725	588	374	1290	1039	655	1987	1623	1052	2488	2016	1284	3674	2976	1903
	Code	0182103078			0182203178			0182213178			0182223178			0182333178		
3.000	Power	837	678	432	1488	1199	756	2293	1873	1214	2871	2326	1482	4239	3434	2196
	Code	0182103090			0182203190			0182213190			0182223190			0182333190		

Height (H) 400 — Tappings centre (I) 340

		10			20			21			22			33		
Width (mm)		64			67			86			101			158		
Exponent {n}		1,315			1,297			1,252			1,294			1,295		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	138	111	70	254	206	131	382	311	201	478	387	247	696	565	360
	Code	0182104012			0182204112			0182214112			0182224112			0182334112		
500	Power	172	139	88	318	258	164	477	389	251	597	484	309	871	706	450
	Code	0182104015			0182204115			0182214115			0182224115			0182334115		
600	Power	206	167	106	382	309	197	572	467	302	716	581	370	1045	847	540
	Code	0182104018			0182204118			0182214118			0182224118			0182334118		
700	Power	241	194	123	445	361	230	668	545	352	836	678	432	1219	988	630
	Code	0182104021			0182204121			0182214121			0182224121			0182334121		
800	Power	275	222	141	509	412	262	763	623	402	955	774	494	1393	1130	719
	Code	0182104024			0182204124			0182214124			0182224124			0182334124		
900	Power	310	250	158	572	464	295	859	700	453	1075	871	555	1567	1271	809
	Code	0182104027			0182204127			0182214127			0182224127			0182334127		
1.000	Power	344	278	176	636	515	328	954	778	503	1194	968	617	1741	1412	899
	Code	0182104030			0182204130			0182214130			0182224130			0182334130		
1.100	Power	378	305	194	700	567	361	1049	856	553	1313	1065	679	1915	1553	989
	Code	0182104033			0182204133			0182214133			0182224133			0182334133		
1.200	Power	413	333	211	763	618	394	1145	934	604	1433	1161	740	2089	1694	1079
	Code	0182104036			0182204136			0182214136			0182224136			0182334136		
1.400	Power	482	389	246	890	721	459	1335	1089	704	1672	1355	864	2437	1977	1259
	Code	0182104042			0182204142			0182214142			0182224142			0182334142		
1.600	Power	550	444	282	1018	824	525	1526	1245	805	1910	1549	987	2786	2259	1439
	Code	0182104048			0182204148			0182214148			0182224148			0182334148		
1.800	Power	619	500	317	1145	927	590	1717	1401	905	2149	1742	1111	3134	2541	1619
	Code	0182104054			0182204154			0182214154			0182224154			0182334154		
2.000	Power	688	555	352	1272	1030	656	1908	1556	1006	2388	1936	1234	3482	2824	1799
	Code	0182104060			0182204160			0182214160			0182224160			0182334160		
2.300	Power	791	638	405	1463	1185	754	2194	1790	1157	2746	2226	1419	4004	3247	2068
	Code	0182104069			0182204169			0182214169			0182224169			0182334169		
2.600	Power	894	722	458	1654	1339	853	2480	2023	1308	3104	2517	1604	4527	3671	2338
	Code	0182104078			0182204178			0182214178			0182224178			0182334178		
3.000	Power	1032	833	528	1908	1545	984	2862	2335	1509	3582	2904	1851	5223	4236	2698
	Code	0182104090			0182204190			0182214190			0182224190			0182334190		

Height (H) 500 — Tappings centre (I) 440

		10			20			21			22			33		
Width (mm)		64			67			86			101			158		
Exponent (n)		1,329			1,266			1,261			1,296			1,301		
Lenght (mm)		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	165	133	84	307	250	161	456	371	239	569	462	294	823	666	423
	Code	0182105012			0182205112			0182215112			0182225112			0182335112		
500	Power	207	166	105	384	313	201	570	464	299	712	577	367	1029	833	529
	Code	0182105015			0182205115			0182215115			0182225115			0182335115		
600	Power	248	200	125	461	375	241	684	557	359	854	692	441	1235	999	635
	Code	0182105018			0182205118			0182215118			0182225118			0182335118		
700	Power	289	233	146	538	438	281	798	650	419	996	808	514	1441	1166	741
	Code	0182105021			0182205121			0182215121			0182225121			0182335121		
800	Power	330	266	167	614	500	322	912	743	479	1138	923	588	1646	1332	847
	Code	0182105024			0182205124			0182215124			0182225124			0182335124		
900	Power	372	299	188	691	563	362	1026	836	539	1281	1038	661	1852	1499	953
	Code	0182105027			0182205127			0182215127			0182225127			0182335127		
1.000	Power	413	333	209	768	625	402	1140	928	598	1423	1154	735	2058	1666	1059
	Code	0182105030			0182205130			0182215130			0182225130			0182335130		
1.100	Power	454	366	230	845	688	442	1254	1021	658	1565	1269	808	2264	1832	1165
	Code	0182105033			0182205133			0182215133			0182225133			0182335133		
1.200	Power	496	399	251	922	750	482	1368	1114	718	1708	1385	882	2470	1999	1270
	Code	0182105036			0182205136			0182215136			0182225136			0182335136		
1.400	Power	578	466	293	1075	876	563	1596	1300	838	1992	1615	1028	2881	2332	1482
	Code	0182105042			0182205142			0182215142			0182225142			0182335142		
1.600	Power	661	532	334	1229	1001	643	1824	1486	957	2277	1846	1175	3293	2665	1694
	Code	0182105048			0182205148			0182215148			0182225148			0182335148		
1.800	Power	743	599	376	1382	1126	724	2051	1671	1077	2561	2077	1322	3704	2998	1906
	Code	0182105054			0182205154			0182215154			0182225154			0182335154		
2.000	Power	826	665	418	1536	1251	804	2279	1857	1197	2846	2308	1469	4116	3331	2117
	Code	0182105060			0182205160			0182215160			0182225160			0182335160		
2.300	Power	950	765	481	1766	1438	925	2621	2136	1376	3273	2654	1690	4733	3831	2435
	Code	0182105069			0182205169			0182215169			0182225169			0182335169		
2.600	Power	1074	865	543	1997	1626	1045	2963	2414	1556	3700	3000	1910	5351	4330	2752
	Code	0182105078			0182205178			0182215178			0182225178			0182335178		
3.000	Power	1239	998	627	2304	1876	1206	3419	2785	1795	4269	3461	2204	6174	4997	3176
	Code	0182105090			0182205190			0182215190			0182225190			0182335190		

Height (H) 600 - Tappings centre (I) 540

		10			20			21			22			33		
Width (mm)		64			67			86			101			158		
Exponent (n)		1,343			1,236			1,269			1,298			1,307		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	195	157	98	358	292	190	530	466	277	659	534	340	949	766	486
	Code	0182106012			0182206112			0182216112			0182226112			0182336112		
500	Power	244	196	123	447	366	238	662	583	346	824	668	425	1186	957	607
	Code	0182106015			0182206115			0182216115			0182226115			0182336115		
600	Power	293	236	148	536	439	285	795	700	415	988	801	510	1423	1149	729
	Code	0182106018			0182206118			0182216118			0182226118			0182336118		
700	Power	342	275	172	626	512	333	927	816	485	1153	935	595	1660	1340	850
	Code	0182106021			0182206121			0182216121			0182226121			0182336121		
800	Power	390	314	197	715	585	380	1060	933	554	1318	1068	680	1898	1532	972
	Code	0182106024			0182206124			0182216124			0182226124			0182336124		
900	Power	439	353	221	805	658	428	1192	1049	623	1482	1202	765	2135	1723	1093
	Code	0182106027			0182206127			0182216127			0182226127			0182336127		
1.000	Power	488	393	246	894	731	475	1325	1166	692	1647	1335	850	2372	1915	1215
	Code	0182106030			0182206130			0182216130			0182226130			0182336130		
1.100	Power	537	432	271	983	804	523	1457	1283	762	1812	1469	935	2609	2106	1336
	Code	0182106033			0182206133			0182216133			0182226133			0182336133		
1.200	Power	586	471	295	1073	877	570	1589	1399	831	1976	1603	1020	2846	2298	1457
	Code	0182106036			0182206136			0182216136			0182226136			0182336136		
1.400	Power	683	550	344	1252	1024	665	1854	1632	969	2306	1870	1190	3321	2681	1700
	Code	0182106042			0182206142			0182216142			0182226142			0182336142		
1.600	Power	781	628	394	1430	1170	760	2119	1866	1108	2635	2137	1360	3795	3064	1943
	Code	0182106048			0182206148			0182216148			0182226148			0182336148		
1.800	Power	878	707	443	1609	1316	855	2384	2099	1246	2965	2404	1530	4270	3447	2186
	Code	0182106054			0182206154			0182216154			0182226154			0182336154		
2.000	Power	976	785	492	1788	1462	950	2649	2332	1385	3294	2671	1700	4744	3830	2429
	Code	0182106060			0182206160			0182216160			0182226160			0182336160		
2.300	Power	1122	903	566	2056	1682	1093	3046	2682	1593	3788	3072	1954	5456	4404	2793
	Code	0182106069			0182206169			0182216169			0182226169			0182336169		
2.600	Power	1269	1021	640	2324	1901	1235	3444	3032	1800	4282	3472	2209	6167	4978	3158
	Code	0182106078			0182206178			0182216178			0182226178			0182336178		
3.000	Power	1464	1178	738	2682	2193	1425	3974	3498	2077	4941	4006	2549	7116	5744	3644
	Code	0182106090			0182206190			0182216190			0182226190			0182336190		

Linear PHD 2.0 Panel with valve



All Linear PHD 2.0 Panels are fitted as standard with the kit for energy saving low temperature operation with preferential heat diffusion, and preset thermostatic valve.

Technical characteristics

- Working pressure 10 bar
- Test pressure 13 bar
- Maximum operating temperature 110 °C

Standard equipment

- Bottom connector 50mm tappings centre, 3/4" outside thread
- 2 x 1/2" connections, internal thread on opposite side of the thermostatic insert with:
 - 1 x 1/2" blind cap provided, mounted
 - 1 x 1/2" vent plug provided, mounted
- Superior grid
- Lateral side
- Supports
 - All models have welded back supports
- Supplied with preset thermostatic valve on the right; Linear panels can be supplied with the insert on the left side [see order code modification] – PHD Radiators are not symmetrical.
- The thermostatic head must be ordered separately

Safety

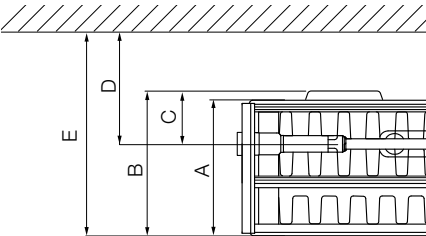
- Compact radiators cannot be inverted around any of the three axes.
- The sides of radiators are fastened with screws, safer than the interlocking system adopted on other panel radiators.

Connection

- Linear PHD 2.0 panels can be connected to either a one-pipe or two-pipe installation with a distributor with 50mm tappings centre. The water outlet must always be connected to the inner connection of the connector with 50mm tappings centre.
- For connection to both two-pipe and one-pipe installations, a distributor is required and must be specifically ordered (see Linear Thermostatic radiators Accessories page for the range of Distributors available).

Optional

Brakets and optional accessories are available on dedicated pages.

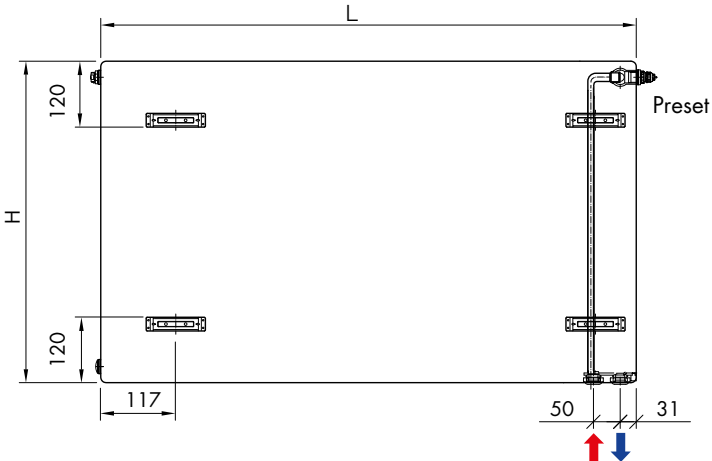


		Dimensions				
		10	20	21	22	33
panel depth - excluding back supports	A	64	67	86	101	158
total depth - from the back of the support to the front panel**	B	64	76	95	110	167
distance from the back support to the connection	C	-	42	52	59	59
distance from wall to the centre of the connection (mounting the radiators on the GB brackets)*	D	34	57/65	67/75	74/82	74/82
total distance from the wall to the front panel (mounting the radiators on the GB brackets)*	E	69	90/98	109/117	124/132	181/189

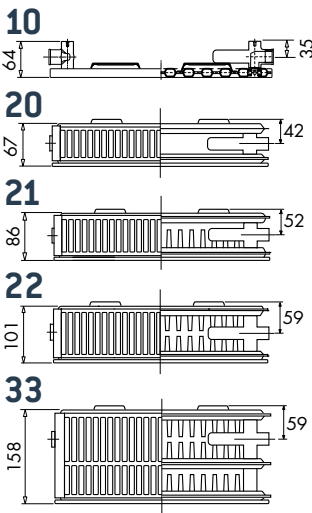
* The total distance varies according to whether the GB bracket is mounted in position A or position B (choice of depth), model 10 mounted on D30 brackets

** Calculating the total size of the panel (from the wall to the front panel) with the chosen wall brackets: the useful length of the chosen bracket must be added to this measurement (see brackets page).

Front view



Upper view



Height (H) 300

		10			20			21			22			33		
Width (mm)		64			67			86			101			158		
Exponent (n)		1,301			1,327			1,244			1,292			1,288		
Lenght (mm)		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	112	90	58	198	160	101	306	250	162	383	310	198	565	458	293
	Code	0182103212			0H82203212			0H82213212			0H82223212			0H82333212		
500	Power	140	113	72	248	200	126	382	312	202	479	388	247	707	572	366
	Code	0182103215			0H82203215			0H82213215			0H82223215			0H82333215		
600	Power	167	136	86	298	240	151	459	375	243	574	465	296	848	687	439
	Code	0182103218			0H82203218			0H82213218			0H82223218			0H82333218		
700	Power	195	158	101	347	280	176	535	437	283	670	543	346	989	801	512
	Code	0182103221			0H82203221			0H82213221			0H82223221			0H82333221		
800	Power	223	181	115	397	320	202	611	499	324	766	620	395	1130	916	586
	Code	0182103224			0H82203224			0H82213224			0H82223224			0H82333224		
900	Power	251	203	130	446	360	227	688	562	364	861	698	445	1272	1030	659
	Code	0182103227			0H82203227			0H82213227			0H82223227			0H82333227		
1.000	Power	279	226	144	496	400	252	764	624	405	957	775	494	1413	1145	732
	Code	0182103230			0H82203230			0H82213230			0H82223230			0H82333230		
1.100	Power	307	249	158	546	440	277	841	687	445	1053	853	543	1554	1259	805
	Code	0182103233			0H82203233			0H82213233			0H82223233			0H82333233		
1.200	Power	335	271	173	595	480	302	917	749	486	1148	930	593	1696	1373	878
	Code	0182103236			0H82203236			0H82213236			0H82223236			0H82333236		
1.400	Power	391	316	202	694	560	353	1070	874	567	1340	1085	692	1978	1602	1025
	Code	0182103242			0H82203242			0H82213242			0H82223242			0H82333242		
1.600	Power	446	362	230	794	640	403	1223	999	648	1531	1241	790	2261	1831	1171
	Code	0182103248			0H82203248			0H82213248			0H82223248			0H82333248		
1.800	Power	502	407	259	893	720	454	1376	1124	728	1723	1396	889	2543	2060	1318
	Code	0182103254			0H82203254			0H82213254			0H82223254			0H82333254		
2.000	Power	558	452	288	992	800	504	1528	1249	809	1914	1551	988	2826	2289	1464
	Code	0182103260			0H82203260			0H82213260			0H82223260			0H82333260		
2.300	Power	642	520	331	1141	919	580	1758	1436	931	2201	1783	1136	3250	2633	1684
	Code	0182103269			0H82203269			0H82213269			0H82223269			0H82333269		
2.600	Power	725	588	374	1290	1039	655	1987	1623	1052	2488	2016	1284	3674	2976	1903
	Code	0182103278			0H82203278			0H82213278			0H82223278			0H82333278		
3.000	Power	837	678	432	1488	1199	756	2293	1873	1214	2871	2326	1482	4239	3434	2196
	Code	0182103290			0H82203290			0H82213290			0H82223290			0H82333290		

For the valve on the left side, you have to turn the third-last number from 2 to 4.

Height (H) 400

		10			20			21			22			33		
Width (mm)		64			67			86			101			158		
Exponent (n)		1,315			1,297			1,252			1,294			1,295		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	138	111	70	254	206	131	382	311	201	478	387	247	696	565	360
	Code	0182104212			0H82204212			0H82214212			0H82224212			0H82334212		
500	Power	172	139	88	318	258	164	477	389	251	597	484	309	871	706	450
	Code	0182104215			0H82204215			0H82214215			0H82224215			0H82334215		
600	Power	206	167	106	382	309	197	572	467	302	716	581	370	1045	847	540
	Code	0182104218			0H82204218			0H82214218			0H82224218			0H82334218		
700	Power	241	194	123	445	361	230	668	545	352	836	678	432	1219	988	630
	Code	0182104221			0H82204221			0H82214221			0H82224221			0H82334221		
800	Power	275	222	141	509	412	262	763	623	402	955	774	494	1393	1130	719
	Code	0182104224			0H82204224			0H82214224			0H82224224			0H82334224		
900	Power	310	250	158	572	464	295	859	700	453	1075	871	555	1567	1271	809
	Code	0182104227			0H82204227			0H82214227			0H82224227			0H82334227		
1.000	Power	344	278	176	636	515	328	954	778	503	1194	968	617	1412	899	1.379
	Code	0182104230			0H82204230			0H82214230			0H82224230			0H82334230		
1.100	Power	378	305	194	700	567	361	1049	856	553	1313	1065	679	1915	1553	989
	Code	0182104233			0H82204233			0H82214233			0H82224233			0H82334233		
1.200	Power	413	333	211	763	618	394	1145	934	604	1433	1161	740	2089	1694	1079
	Code	0182104236			0H82204236			0H82214236			0H82224236			0H82334236		
1.400	Power	482	389	246	890	721	459	1335	1089	704	1672	1355	864	2437	1977	1259
	Code	0182104242			0H82204242			0H82214242			0H82224242			0H82334242		
1.600	Power	550	444	282	1018	824	525	1526	1245	805	1910	1549	987	2786	2259	1439
	Code	0182104248			0H82204248			0H82214248			0H82224248			0H82334248		
1.800	Power	619	500	317	1145	927	590	1717	1401	905	2149	1742	1111	3134	2541	1619
	Code	0182104254			0H82204254			0H82214254			0H82224254			0H82334254		
2.000	Power	688	555	352	1272	1030	656	1908	1556	1006	2388	1936	1234	3482	2824	1799
	Code	0182104260			0H82204260			0H82214260			0H82224260			0H82334260		
2.300	Power	791	638	405	1463	1185	754	2194	1790	1157	2746	2226	1419	4004	3247	2068
	Code	0182104269			0H82204269			0H82214269			0H82224269			0H82334269		
2.600	Power	894	722	458	1654	1339	853	2480	2023	1308	3104	2517	1604	4527	3671	2338
	Code	0182104278			0H82204278			0H82214278			0H82224278			0H82334278		
3.000	Power	1032	833	528	1908	1545	984	2862	2335	1509	3582	2904	1851	5223	4236	2698
	Code	0182104290			0H82204290			0H82214290			0H82224290			0H82334290		

Height (H) 500

		10			20			21			22			33		
Width (mm)		64			67			86			101			158		
Exponent (n)		1,329			1,266			1,261			1,296			1,301		
Lenght (mm)		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	165	133	84	307	250	161	456	371	239	569	462	294	823	666	423
	Code	0182105212			0H82205212			0H82215212			0H82225212			0H82335212		
500	Power	207	166	105	384	313	201	570	464	299	712	577	367	1029	833	529
	Code	0182105215			0H82205215			0H82215215			0H82225215			0H82335215		
600	Power	248	200	125	461	375	241	684	557	359	854	692	441	1029	833	529
	Code	0182105218			0H82205218			0H82215218			0H82225218			0H82335218		
700	Power	289	233	146	538	438	281	798	650	419	996	808	514	1441	1166	741
	Code	0182105221			0H82205221			0H82215221			0H82225221			0H82335221		
800	Power	330	266	167	614	500	322	912	743	479	1138	923	588	1646	1332	847
	Code	0182105224			0H82205224			0H82215224			0H82225224			0H82335224		
900	Power	372	299	188	691	563	362	1026	836	539	1281	1038	661	1852	1499	953
	Code	0182105227			0H82205227			0H82215227			0H82225227			0H82335227		
1.000	Power	413	333	209	768	625	402	1140	928	598	1423	1154	735	2058	1666	1059
	Code	0182105230			0H82205230			0H82215230			0H82225230			0H82335230		
1.100	Power	454	366	230	845	688	442	1254	1021	658	1565	1269	808	2264	1832	1165
	Code	0182105233			0H82205233			0H82215233			0H82225233			0H82335233		
1.200	Power	496	399	251	922	750	482	1368	1114	718	1708	1385	882	2470	1999	1270
	Code	0182105236			0H82205236			0H82215236			0H82225236			0H82335236		
1.400	Power	578	466	293	1075	876	563	1596	1300	838	1992	1615	1028	2881	2332	1482
	Code	0182105242			0H82205242			0H82215242			0H82225242			0H82335242		
1.600	Power	661	532	334	1229	1001	643	1824	1486	957	2277	1846	1175	3293	2665	1694
	Code	0182105248			0H82205248			0H82215248			0H82225248			0H82335248		
1.800	Power	743	599	376	1382	1126	724	2051	1671	1077	2561	2077	1322	3704	2998	1906
	Code	0182105254			0H82205254			0H82215254			0H82225254			0H82335254		
2.000	Power	826	665	418	1536	1251	804	2279	1857	1197	2846	2308	1469	4116	3331	2117
	Code	0182105260			0H82205260			0H82215260			0H82225260			0H82335260		
2.300	Power	950	765	481	1766	1438	925	2621	2136	1376	3273	2654	1690	4733	3831	2435
	Code	0182105269			0H82205269			0H82215269			0H82225269			0H82335269		
2.600	Power	1074	865	543	1997	1626	1045	2963	2414	1556	3700	3000	1910	5351	4330	2752
	Code	0182105278			0H82205278			0H82215278			0H82225278			0H82335278		
3.000	Power	1239	998	627	2304	1876	1206	3419	2785	1795	4269	3461	2204	6174	4997	3176
	Code	0182105290			0H82205290			0H82215290			0H82225290			0H82335290		

For the valve on the left side, you have to turn the third-last number from 2 to 4.

Height (H) 600

		10			20			21			22			33		
Width (mm)		64			67			86			101			158		
Exponent (n)		1,343			1,236			1,269			1,298			1,307		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
400	Power	195	157	98	358	292	190	530	466	277	659	534	340	949	766	486
	Code	0182106212			0H82206212			0H82216212			0H82226212			0H82336212		
500	Power	244	196	123	447	366	238	662	583	346	824	668	425	1186	957	607
	Code	0182106215			0H82206215			0H82216215			0H82226215			0H82336215		
600	Power	293	236	148	536	439	285	795	700	415	988	801	510	1423	1149	729
	Code	0182106218			0H82206218			0H82216218			0H82226218			0H82336218		
700	Power	342	275	172	626	512	333	927	816	485	1153	935	595	1660	1340	850
	Code	0182106221			0H82206221			0H82216221			0H82226221			0H82336221		
800	Power	390	314	197	715	585	380	1060	933	554	1318	1068	680	1898	1532	972
	Code	0182106224			0H82206224			0H82216224			0H82226224			0H82336224		
900	Power	439	353	221	805	658	428	1192	1049	623	1482	1202	765	2135	1723	1093
	Code	0182106227			0H82206227			0H82216227			0H82226227			0H82336227		
1.000	Power	488	393	246	894	731	475	1325	1166	692	1647	1335	850	2372	1915	1215
	Code	0182106230			0H82206230			0H82216230			0H82226230			0H82336230		
1.100	Power	537	432	271	983	804	523	1457	1283	762	1812	1469	935	2609	2106	1336
	Code	0182106233			0H82206233			0H82216233			0H82226233			0H82336233		
1.200	Power	586	471	295	1073	877	570	1589	1399	831	1976	1603	1020	2846	2298	1457
	Code	0182106236			0H82206236			0H82216236			0H82226236			0H82336236		
1.400	Power	683	550	344	1252	1024	665	1854	1632	969	2306	1870	1190	3321	2681	1700
	Code	0182106242			0H82206242			0H82216242			0H82226242			0H82336242		
1.600	Power	781	628	394	1430	1170	760	2119	1866	1108	2635	2137	1360	3795	3064	1943
	Code	0182106248			0H82206248			0H82216248			0H82226248			0H82336248		
1.800	Power	878	707	443	1609	1316	855	2384	2099	1246	2965	2404	1530	4270	3447	2186
	Code	0182106254			0H82206254			0H82216254			0H82226254			0H82336254		
2.000	Power	976	785	492	1788	1462	950	2649	2332	1385	3294	2671	1700	4744	3830	2429
	Code	0182106260			0H82206260			0H82216260			0H82226260			0H82336260		
2.300	Power	1122	903	566	2056	1682	1093	3046	2682	1593	3788	3072	1954	5456	4404	2793
	Code	01821062169			0H82206269			0H82216269			0H82226269			0H82336269		
2.600	Power	1269	1021	640	2324	1901	1235	3444	3032	1800	4.109	3.533	3.318	6167	4978	3158
	Code	0182106278			0H82206278			0H82216278			0H82226278			0H82336278		
3.000	Power	1464	1178	738	2682	2193	1425	3974	3498	2077	4941	4006	2549	7116	5744	3644
	Code	0182106290			0H82206290			0H82216290			0H82226290			0H82336290		

Linear PHD 2.0 Panel with central connection and valve



New Product

Blind cap and air vent included

Presetted valve included

Linear panel with valve and central connection are fitted as standard with preset valve.

Features

Technical characteristics

- Working pressure 10 bar
- Test pressure 13 bar
- Maximum operating temperature 110° C
- For NF certification see the website www.marque-nf.com

Standard equipment

- Bottom connector 50mm tappings centre, 3/4" outside thread
- 3 x 1/2" connections, inside thread on two sides;
- 2 x 1/2" blind caps provided, to be mounted
- 1 x 1/2" vent plug provided, to be mounted
- Superior grid
- Lateral side
- Supports
 - 4 welded supports up to and including a length of 1600mm; over this, 6 supports.
- Supplied with thermostatic insert on the right side (standard position); Linear panels with central connection can be supplied with the insert on the left side
- The thermostatic head must be ordered separately

Connection

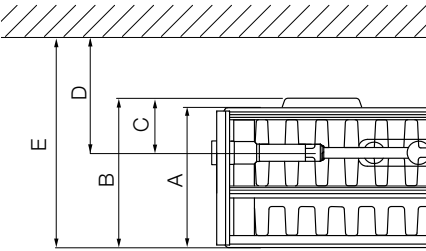
- Linear panels with central connection can be connected to either a one-pipe or two-pipe installation with a 50 mm tappings centre distributor. The water outlet must always be connected to the right connection of the connector with 50 mm tappings centre.
- For connection to both two-pipe and one-pipe installations, a distributor is required and must be specifically ordered (see Linear radiators with central connection accessories page for the range of Distributors available).

Safety

- Radiators with thermostatic valve and central connection cannot be inverted around any of the three axes.
- The sides of Linear radiators with central connection are fastened with screws, safer than the interlocking system adopted on other panel radiators.

Optional

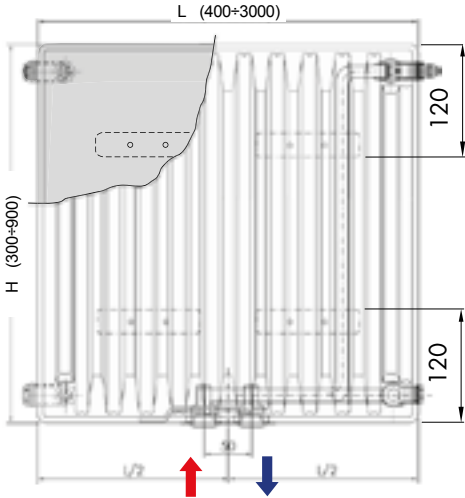
Brackets and optional accessories are available on dedicated pages.



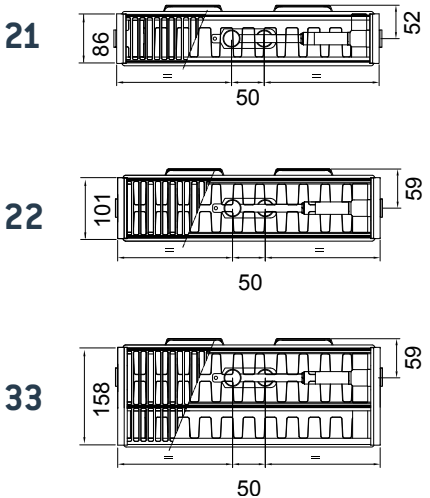
		Dimensions		
		21	22	33
panel depth - excluding back supports	A	86	101	158
total depth - from the back of the support to the front panel**	B	95	110	167
distance from the back support to the connection	C	52	59	59
distance from wall to the centre of the connection (mounting the radiators on the GB brackets)*	D	67/75	74/82	74/82
total distance from the wall to the front panel (mounting the radiators on the GB brackets)*	E	109/117	124/132	181/189

* The total distance varies according to whether the GB bracket is mounted in position A or position B (choice of depth)
** Calculating the total size of the panel (from the wall to the front panel) with the chosen wall brackets: the useful length of the chosen bracket must be added to this measurement (see brackets page)

Front view



Upper view



		21			22			33		
Width (mm)		86			101			158		
Exponent (n)		1,244			1,292			1,288		
Lenght (mm)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
400	Power	306	250	162	383	310	198	565	458	293
	Code	0H20213112			0H20223112			0H20333112		
500	Power	382	312	202	479	388	247	707	572	366
	Code	0H20213115			0H20223115			0H20333115		
600	Power	459	375	243	574	465	296	848	687	439
	Code	0H20213118			0H20223118			0H20333118		
700	Power	535	437	283	670	543	346	989	801	512
	Code	0H20213121			0H20223121			0H20333121		
800	Power	611	499	324	766	620	395	1130	916	586
	Code	0H20213124			0H20223124			0H20333124		
900	Power	688	562	364	861	698	445	1272	1030	659
	Code	0H20213127			0H20223127			0H20333127		
1.000	Power	764	624	405	957	775	494	1413	1145	732
	Code	0H20213130			0H20223130			0H20333130		
1.100	Power	841	687	445	1053	853	543	1554	1259	805
	Code	0H20213133			0H20223133			0H20333133		
1.200	Power	917	749	486	1148	930	593	1696	1373	878
	Code	0H20213136			0H20223136			0H20333136		
1.400	Power	1070	874	567	1340	1085	692	1978	1602	1025
	Code	0H20213142			0H20223142			0H20333142		
1.600	Power	1223	999	648	1531	1241	790	2261	1831	1171
	Code	0H20213148			0H20223148			0H20333148		
1.800	Power	1376	1124	728	1723	1396	889	2543	2060	1318
	Code	0H20213154			0H20223154			0H20333154		
2.000	Power	1528	1249	809	1914	1551	988	2826	2289	1464
	Code	0H20213160			0H20223160			0H20333160		
2.300	Power	1758	1436	931	2201	1783	1136	3250	2633	1684
	Code	0H20213169			0H20223169			0H20333169		
2.600	Power	1987	1623	1052	2488	2016	1284	3674	2976	1903
	Code	0H20213178			0H20223178			0H20333178		
3.000	Power	2293	1873	1214	2871	2326	1482	4239	3434	2196
	Code	0H20213190			0H20223190			0H20333190		

For the valve on the left side, you have to turn the third-last number from 1 to 3.

		21			22			33		
Width (mm)		86			101			158		
Exponent (n)		1,252			1,294			1,295		
Lenght (mm)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
400	Power	382	311	201	478	387	247	696	565	360
	Code	0H20214112			0H20224112			0H20334112		
500	Power	477	389	251	597	484	309	871	706	450
	Code	0H20214115			0H20224115			0H20334115		
600	Power	572	467	302	716	581	370	1045	847	540
	Code	0H20214118			0H20224118			0H20334118		
700	Power	668	545	352	836	678	432	1219	988	630
	Code	0H20214121			0H20224121			0H20334121		
800	Power	763	623	402	955	774	494	1393	1130	719
	Code	0H20214124			0H20224124			0H20334124		
900	Power	859	700	453	1075	871	555	1567	1271	809
	Code	0H20214127			0H20224127			0H20334127		
1.000	Power	954	778	503	1194	968	617	1741	1412	899
	Code	0H20214130			0H20224130			0H20334130		
1.100	Power	1049	856	553	1313	1065	679	1915	1553	989
	Code	0H20214133			0H20224133			0H20334133		
1.200	Power	1145	934	604	1433	1161	740	2089	1694	1079
	Code	0H20214136			0H20224136			0H20334136		
1.400	Power	1335	1089	704	1672	1355	864	2437	1977	1259
	Code	0H20214142			0H20224142			0H20334142		
1.600	Power	1526	1245	805	1910	1549	987	2786	2259	1439
	Code	0H20214148			0H20224148			0H20334148		
1.800	Power	1717	1401	905	2149	1742	1111	3134	2541	1619
	Code	0H20214154			0H20224154			0H20334154		
2.000	Power	1908	1556	1006	2388	1936	1234	3482	2824	1799
	Code	0H20214160			0H20224160			0H20334160		
2.300	Power	2194	1790	1157	2746	2226	1419	4004	3247	2068
	Code	0H20214169			0H20224169			0H20334169		
2.600	Power	2480	2023	1308	3104	2517	1604	4527	3671	2338
	Code	0H20214178			0H20224178			0H20334178		
3.000	Power	2862	2335	1509	3582	2904	1851	5223	4236	2698
	Code	0H20214190			0H20224190			0H20334190		

For the valve on the left side, you have to turn the third-last number from 1 to 3.

Height (H) 500										
		21			22			33		
Width (mm)		86			101			158		
Exponent (n)		1,261			1,296			1,301		
Lenght (mm)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
400	Power	456	371	239	569	462	294	823	666	423
	Code	OH20215112			OH20225112			OH20335112		
500	Power	570	464	299	712	577	367	1029	833	529
	Code	OH20215115			OH20225115			OH20335115		
600	Power	684	557	359	854	692	441	1235	999	635
	Code	OH20215118			OH20225118			OH20335118		
700	Power	798	650	419	996	808	514	1441	1166	741
	Code	OH20215121			OH20225121			OH20335121		
800	Power	912	743	479	1138	923	588	1646	1332	847
	Code	OH20215124			OH20225124			OH20335124		
900	Power	1026	836	539	1281	1038	661	1852	1499	953
	Code	OH20215127			OH20225127			OH20335127		
1.000	Power	1140	928	598	1423	1154	735	2058	1666	1059
	Code	OH20215130			OH20225130			OH20335130		
1.100	Power	1254	1021	658	1565	1269	808	2264	1832	1165
	Code	OH20215133			OH20225133			OH20335133		
1.200	Power	1368	1114	718	1708	1385	882	2470	1999	1270
	Code	OH20215136			OH20225136			OH20335136		
1.400	Power	1596	1300	838	1992	1615	1028	2881	2332	1482
	Code	OH20215142			OH20225142			OH20335142		
1.600	Power	1824	1486	957	2277	1846	1175	3293	2665	1694
	Code	OH20215148			OH20225148			OH20335148		
1.800	Power	2051	1671	1077	2561	2077	1322	3704	2998	1906
	Code	OH20215154			OH20225154			OH20335154		
2.000	Power	2279	1857	1197	2846	2308	1469	3704	2998	1906
	Code	OH20215160			OH20225160			OH20335160		
2.300	Power	2621	2136	1376	3273	2654	1690	4733	3831	2435
	Code	OH20215169			OH20225169			OH20335169		
2.600	Power	2963	2414	1556	3700	3000	1910	5351	4330	2752
	Code	OH20215178			OH20225178			OH20335178		
3.000	Power	3419	2785	1795	4269	3461	2204	6174	4997	3176
	Code	OH20215190			OH20225190			OH20335190		

For the valve on the left side, you have to turn the third-last number from 1 to 3.

Height (H) 600										
		21			22			33		
Width (mm)		86			101			158		
Exponent (n)		1,269			1,298			1,307		
Lenght (mm)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
400	Power	530	466	277	659	534	340	949	766	486
	Code	OH20216112			OH20226112			OH20336112		
500	Power	662	583	346	824	668	425	1186	957	607
	Code	OH20216115			OH20226115			OH20336115		
600	Power	795	700	415	988	801	510	1423	1149	729
	Code	OH20216118			OH20226118			OH20336118		
700	Power	927	816	485	1153	935	595	1660	1340	850
	Code	OH20216121			OH20226121			OH20336121		
800	Power	1060	933	554	1318	1068	680	1898	1532	972
	Code	OH20216124			OH20226124			OH20336124		
900	Power	1192	1049	623	1482	1202	765	2135	1723	1093
	Code	OH20216127			OH20226127			OH20336127		
1.000	Power	1325	1166	692	1647	1335	850	2372	1915	1215
	Code	OH20216130			OH20226130			OH20336130		
1.100	Power	1457	1283	762	1812	1469	935	2609	2106	1336
	Code	OH20216133			OH20226133			OH20336133		
1.200	Power	1589	1399	831	1976	1603	1020	2846	2298	1457
	Code	OH20216136			OH20226136			OH20336136		
1.400	Power	1854	1632	969	2306	1870	1190	3321	2681	1700
	Code	OH20216142			OH20226142			OH20336142		
1.600	Power	2119	1866	1108	2635	2137	1360	3795	3064	1943
	Code	OH20216148			OH20226148			OH20336148		
1.800	Power	2384	2099	1246	2965	2404	1530	4270	3447	2186
	Code	OH20216154			OH20226154			OH20336154		
2.000	Power	2649	2332	1385	3294	2671	1700	4744	3830	2429
	Code	OH20216160			OH20226160			OH20336160		
2.300	Power	3046	2682	1593	3788	3072	1954	5456	4404	2793
	Code	OH20216169			OH20226169			OH20336169		
2.600	Power	3444	3032	1800	4282	3472	2209	6167	4978	3158
	Code	OH20216178			OH20226178			OH20336178		
3.000	Power	3974	3498	2077	4941	4006	2549	7116	5744	3644
	Code	OH20216190			OH20226190			OH20336190		

For the valve on the left side, you have to turn the third-last number from 1 to 3.

Height (H) 700										
		21			22			33		
Width (mm)		86			101			158		
Exponent (n)		1,276			1,309			1,316		
Lenght (mm)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
400	Power	604	491	315	747	605	383	1074	867	548
	Code	OH20217112			OH20227112			OH20337112		
500	Power	755	614	393	934	756	479	1343	1084	685
	Code	OH20217115			OH20227115			OH20337115		
600	Power	906	736	472	1121	907	575	1611	1301	823
	Code	OH20217118			OH20227118			OH20337118		
700	Power	1057	859	551	1308	1058	671	1880	1518	960
	Code	OH20217121			OH20227121			OH20337121		
800	Power	1208	982	629	1494	1210	767	2148	1734	1097
	Code	OH20217124			OH20227124			OH20337124		
900	Power	1359	1105	708	1681	1361	863	2417	1951	1234
	Code	OH20217127			OH20227127			OH20337127		
1.000	Power	1510	1227	787	1868	1512	958	2685	2168	1371
	Code	OH20217130			OH20227130			OH20337130		
1.100	Power	1661	1350	865	2055	1663	1054	2954	2385	1508
	Code	OH20217133			OH20227133			OH20337133		
1.200	Power	1812	1473	944	2242	1814	1150	3222	2602	1645
	Code	OH20217136			OH20227136			OH20337136		
1.400	Power	2114	1718	1102	2615	2117	1342	3759	3035	1919
	Code	OH20217142			OH20227142			OH20337142		
1.600	Power	2416	1964	1259	2989	2419	1534	4296	3469	2193
	Code	OH20217148			OH20227148			OH20337148		
1.800	Power	2718	2209	1416	3362	2722	1725	4833	3902	2468
	Code	OH20217154			OH20227154			OH20337154		
2.000	Power	3020	2454	1574	3736	3024	1917	5370	4336	2742
	Code	OH20217160			OH20227160			OH20337160		
2.300	Power	3473	2823	1810	4296	3478	2204	6176	4986	3153
	Code	OH20217169			OH20227169			OH20337169		
2.600	Power	3926	3191	2046	4857	3931	2492	6981	5637	3564
	Code	OH20217178			OH20227178			OH20337178		
3.000	Power	4530	3682	2360	5604	4536	2875	8055	6504	4113
	Code	OH20217190			OH20227190			OH20337190		

Linear Hygiene Compact Panel



Hygiene radiators are designed for quick easy cleaning in every corner as there are no internal convectors (spaces where dust normally accumulates), or grille or side radiators which prevent cleaning.

Features

Technical characteristics

- Working pressure 10 bar
- Test pressure 13 bar
- Maximum operating temperature 110° C
- NF certification for models 10 and 20 for NF certification see the website www.marque-nf.com

Included in the packing

- 4 x 1/2" connection, internal thread
- Supports
 - 4 welded supports up to and including a length of 1600mm; over this, 6 supports

Connection

- Linear Hygiene Compact panels can be connected to a two-pipe installation with high/high same side, high/low opposite side or low/low opposite side connections. The two-pipe connection requires a valve and lockshield (not provided).
- Models 20-30 can also be connected to a one-pipe installation with a single connection, using the flow deviator. Model 10 can be connected to a one-pipe installation, but only with valve with external probe.
- A one-pipe valve is not provided.

Safety

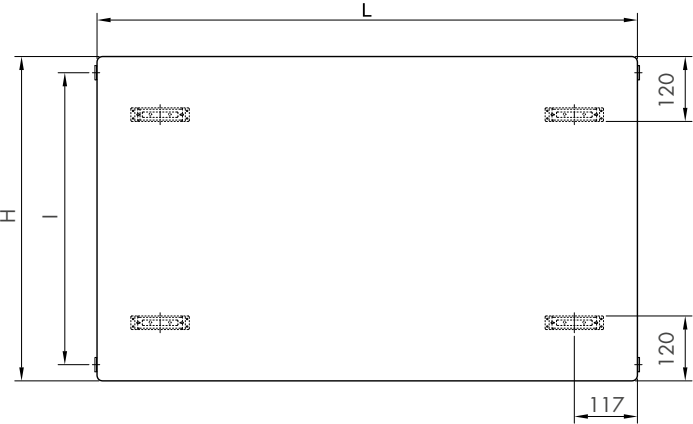
- Compact radiators cannot be inverted around any of the three axes.

		Dimensions		
		10	20	30
panel depth - excluding back supports	A	64	67	158
total depth - from the back of the support to the front panel**	B	64	76	167
distance from the back support to the connection	C	-	42	59
distance from wall to the centre of the connection (mounting the radiators on the GB brackets provided)*	D	34	59/67	76/84
total distance from the wall to the front panel (panel mounted on the GP brackets provided as standard)*	E	69	94/102	175/183

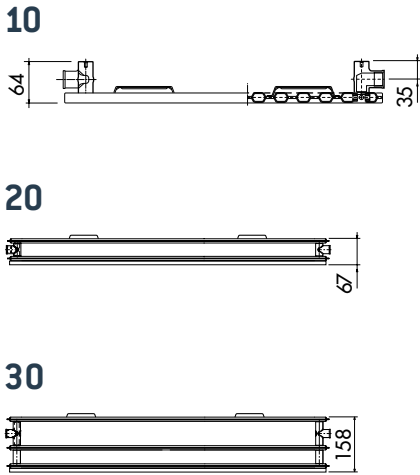
* The total distance varies according to whether the GB bracket is mounted in position A or position B (choice of depth), model 10 mounted on D30 brackets

** Calculating the total size of the panel (from the wall to the front panel) with the chosen wall brackets: the useful length of the chosen bracket must be added to this measurement (see brackets page).

Front view



Upper view



Height (H) 300 - Tappings centre (I) 240

		10			20			30		
Width (mm)		64			67			158		
Exponent (n)		1,301			1,327			1,279		
Lenght (mm)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
400	Power	112	90	58	198	160	101	312	253	162
	Code	0182103012			0H21203012			0H21303012		
500	Power	140	113	72	248	200	126	391	316	203
	Code	0182103015			0H21203015			0H21303015		
600	Power	167	136	86	298	240	151	469	379	244
	Code	0182103018			0H21203018			0H21303018		
700	Power	195	158	101	347	280	176	547	443	284
	Code	0182103021			0H21203021			0H21303021		
800	Power	223	181	115	397	320	202	625	506	325
	Code	0182103024			0H21203024			0H21303024		
900	Power	251	203	130	446	360	227	703	569	365
	Code	0182103027			0H21203027			0H21303027		
1.000	Power	279	226	144	496	400	252	781	632	406
	Code	0182103030			0H21203030			0H21303030		
1.100	Power	307	249	158	546	440	277	859	696	447
	Code	0182103033			0H21203033			0H21303033		
1.200	Power	335	271	173	595	480	302	937	759	487
	Code	0182103036			0H21203036			0H21303036		
1.400	Power	391	316	202	694	560	353	1093	885	568
	Code	0182103042			0H21203042			0H21303042		
1.600	Power	446	362	230	794	640	403	1250	1012	650
	Code	0182103048			0H21203048			0H21303048		
1.800	Power	502	407	259	893	720	454	1406	1138	731
	Code	0182103054			0H21203054			0H21303054		
2.000	Power	558	452	288	992	800	504	1562	1265	812
	Code	0182103060			0H21203060			0H21303060		
2.300	Power	642	520	331	1141	919	580	1796	1455	934
	Code	0182103069			0H21203069			0H21303069		
2.600	Power	725	588	374	1290	1039	655	2031	1644	1056
	Code	0182103078			0H21203078			0H21303078		
3.000	Power	837	678	432	1488	1199	756	2343	1897	1218
	Code	0182103090			0H21203090			0H21303090		

Height (H) 400 - Tappings centre (I) 340

		10			20			30		
Width (mm)		64			67			158		
Exponent (n)		1,315			1,297			1,28		
Lenght (mm)		Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W	Output 75/65-20 W	Output 70/55-20 W	Output 55/45-20 W
400	Power	138	111	70	254	206	131	390	317	203
	Code	0182104012			0H21204012			0H21304012		
500	Power	172	139	88	318	258	164	488	396	254
	Code	0182104015			0H21204015			0H21304015		
600	Power	206	167	106	382	309	197	585	475	304
	Code	0182104018			0H21204018			0H21304018		
700	Power	241	194	123	445	361	230	683	554	355
	Code	0182104021			0H21204021			0H21304021		
800	Power	275	222	141	509	412	262	780	633	406
	Code	0182104024			0H21204024			0H21304024		
900	Power	310	250	158	572	464	295	878	713	456
	Code	0182104027			0H21204027			0H21304027		
1.000	Power	344	278	176	636	515	328	975	792	507
	Code	0182104030			0H21204030			0H21304030		
1.100	Power	378	305	194	700	567	361	1073	871	558
	Code	0182104033			0H21204033			0H21304033		
1.200	Power	413	333	211	763	618	394	1170	950	608
	Code	0182104036			0H21204036			0H21304036		
1.400	Power	482	389	246	890	721	459	1365	1109	710
	Code	0182104042			0H21204042			0H21304042		
1.600	Power	550	444	282	1018	824	525	1560	1267	811
	Code	0182104048			0H21204048			0H21304048		
1.800	Power	619	500	317	1145	927	590	1755	1425	913
	Code	0182104054			0H21204054			0H21304054		
2.000	Power	688	555	352	1272	1030	656	1950	1584	1014
	Code	0182104060			0H21204060			0H21304060		
2.300	Power	791	638	405	1463	1185	754	2243	1821	1166
	Code	0182104069			0H21204069			0H21304069		
2.600	Power	894	722	458	1654	1339	853	2535	2059	1318
	Code	0182104078			0H21204078			0H21304078		
3.000	Power	1032	833	528	1908	1545	984	2925	2376	1521
	Code	0182104090			0H21204090			0H21304090		

Height (H) 500 - Tappings centre (I) 440

		10			20			30		
Width (mm)		64			67			158		
Exponent (n)		1,329			1,266			1,281		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W
400	Power	165	133	84	307	250	161	466	379	243
	Code	0182105012			0H21205012			0H21305012		
500	Power	207	166	105	384	313	201	583	474	303
	Code	0182105015			0H21205015			0H21305015		
600	Power	248	200	125	461	375	241	699	569	364
	Code	0182105018			0H21205018			0H21305018		
700	Power	289	233	146	538	438	281	816	664	425
	Code	0182105021			0H21205021			0H21305021		
800	Power	330	266	167	614	500	322	932	758	485
	Code	0182105024			0H21205024			0H21305024		
900	Power	372	299	188	691	563	362	1049	853	546
	Code	0182105027			0H21205027			0H21305027		
1.000	Power	413	333	209	768	625	402	1165	948	607
	Code	0182105030			0H21205030			0H21305030		
1.100	Power	454	366	230	845	688	442	1282	1043	667
	Code	0182105033			0H21205033			0H21305033		
1.200	Power	496	399	251	922	750	482	1398	1138	728
	Code	0182105036			0H21205036			0H21305036		
1.400	Power	578	466	293	1075	876	563	1631	1327	849
	Code	0182105042			0H21205042			0H21305042		
1.600	Power	661	532	334	1229	1001	643	1864	1517	971
	Code	0182105048			0H21205048			0H21305048		
1.800	Power	743	599	376	1382	1126	724	2097	1706	1092
	Code	0182105054			0H21205054			0H21305054		
2.000	Power	826	665	418	1536	1251	804	2330	1896	1213
	Code	0182105060			0H21205060			0H21305060		
2.300	Power	950	765	481	1766	1438	925	2680	2180	1396
	Code	0182105069			0H21205069			0H21305069		
2.600	Power	1074	865	543	1997	1626	1045	3029	2465	1578
	Code	0182105078			0H21205078			0H21305078		
3.000	Power	1239	998	627	2304	1876	1206	3495	2844	1820
	Code	0182105090			0H21205090			0H21305090		

Height (H) 600 - Tappings centre (I) 540

		10			20			30		
Width (mm)		64			67			158		
Exponent (n)		1,343			1,236			1,281		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W
400	Power	195	157	98	358	292	190	541	439	281
	Code	0182106012			0H21206012			0H21306012		
500	Power	244	196	123	447	366	238	677	549	352
	Code	0182106015			0H21206015			0H21306015		
600	Power	293	236	148	536	439	285	812	659	422
	Code	0182106018			0H21206018			0H21306018		
700	Power	342	275	172	626	512	333	947	769	492
	Code	0182106021			0H21206021			0H21306021		
800	Power	390	314	197	715	585	380	1083	879	562
	Code	0182106024			0H21206024			0H21306024		
900	Power	439	353	221	805	658	428	1218	989	633
	Code	0182106027			0H21206027			0H21306027		
1.000	Power	488	393	246	894	731	475	1353	1098	703
	Code	0182106030			0H21206030			0H21306030		
1.100	Power	537	432	271	983	804	523	1489	1208	773
	Code	0182106033			0H21206033			0H21306033		
1.200	Power	586	471	295	1073	877	570	1624	1318	844
	Code	0182106036			0H21206036			0H21306036		
1.400	Power	683	550	344	1252	1024	665	1895	1538	984
	Code	0182106042			0H21206042			0H21306042		
1.600	Power	781	628	394	1430	1170	760	2165	1758	1125
	Code	0182106048			0H21206048			0H21306048		
1.800	Power	878	707	443	1609	1316	855	2436	1977	1266
	Code	0182106054			0H21206054			0H21306054		
2.000	Power	976	785	492	1788	1462	950	2707	2197	1406
	Code	0182106060			0H21206060			0H21306060		
2.300	Power	1122	903	566	2056	1682	1093	3113	2526	1617
	Code	0182106069			0H21206069			0H21306069		
2.600	Power	1269	1021	640	2324	1901	1235	3519	2856	1828
	Code	0182106078			0H21206078			0H21306078		
3.000	Power	1464	1178	738	2682	2193	1425	4060	3295	2109
	Code	0182106090			0H21206090			0H21306090		

Height (H) 700 - Tappings centre (I) 640

		10			20			30		
Width (mm)		64			67			158		
Exponent (n)		1,307			1,250			1,286		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W
400	Power	229	185	117	405	331	214	616	499	319
	Code	0182107012			0H21207012			0H21307012		
500	Power	286	231	147	507	413	268	771	624	399
	Code	0182107015			0H21207015			0H21307015		
600	Power	343	277	176	608	496	321	925	749	479
	Code	0182107018			0H21207018			0H21307018		
700	Power	400	324	205	709	579	375	1079	874	558
	Code	0182107021			0H21207021			0H21307021		
800	Power	458	370	235	810	661	428	1233	999	638
	Code	0182107024			0H21207024			0H21307024		
900	Power	515	416	264	912	744	482	1387	1124	718
	Code	0182107027			0H21207027			0H21307027		
1.000	Power	572	462	293	1013	827	535	1541	1249	798
	Code	0182107030			0H21207030			0H21307030		
1.100	Power	629	509	323	1114	909	589	1695	1374	878
	Code	0182107033			0H21207033			0H21307033		
1.200	Power	686	555	352	1216	992	642	1849	1498	957
	Code	0182107036			0H21207036			0H21307036		
1.400	Power	801	647	411	1418	1157	749	2157	1748	1117
	Code	0182107042			0H21207042			0H21307042		
1.600	Power	915	740	469	1621	1323	856	2466	1998	1277
	Code	0182107048			0H21207048			0H21307048		
1.800	Power	1030	832	528	1823	1488	963	2774	2248	1436
	Code	0182107054			0H21207054			0H21307054		
2.000	Power	1144	925	587	2026	1653	1070	3082	2497	1596
	Code	0182107060			0H21207060			0H21307060		
2.300	Power	1316	1063	675	2330	1901	1231	3544	2872	1835
	Code	0182107069			0H21207069			0H21307069		
2.600	Power	1487	1202	762	2634	2149	1391	4007	3247	2074
	Code	0182107078			0H21207078			0H21307078		
3.000	Power	1716	1387	880	3039	2480	1605	4623	3746	2394
	Code	0182107090			0H21207090			0H21307090		

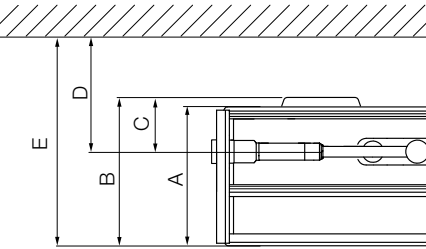
Linear Hygiene
PHD 2.0 Panel with valve



Blind cap
and air vent
included

Presetted
valve
included

All Linear Hygiene PHD 2.0 are fitted as standard with the kit for energy saving low temperature operation with preferential heat diffusion, and preset thermostatic valve. Hygiene radiators are designed for quick easy cleaning in every corner as there are no internal convectors (spaces where dust normally accumulates), or grille or side radiators which prevent cleaning.



Technical characteristics

- Working pressure 10 bar
- Test pressure 13 bar
- Maximum operating temperature 110 °C

Included in the packing

- Bottom connector 50 mm tappings centre, 3/4" outside thread
- 2 x 1/2" connections, internal thread on opposite side of the thermostatic insert with:
 - 1 x 1/2" blind cap provided, mounted
 - 1 x 1/2" vent plug provided, mounted
- Supports
 - All models have welded back supports
- Supplied with preset thermostatic valve on the right; Linear panels can be supplied with the insert on the left side [see order code modification] – PHD Radiators are not symmetrical.
- The thermostatic head must be ordered separately

Connection

- Linear Hygiene Universal panels can be connected to either a one-pipe or two-pipe installation with a distributor with 50 mm tappings centre. The water outlet must always be connected to the inner connection of the connector with 50 mm tappings centre.
- For connection to both two-pipe and one-pipe installations, a distributor is required and must be specifically ordered [see Linear Thermostatic radiators Accessories page for the range of Distributors available].

Safety

- Compact radiators cannot be inverted around any of the three axes.

Optional

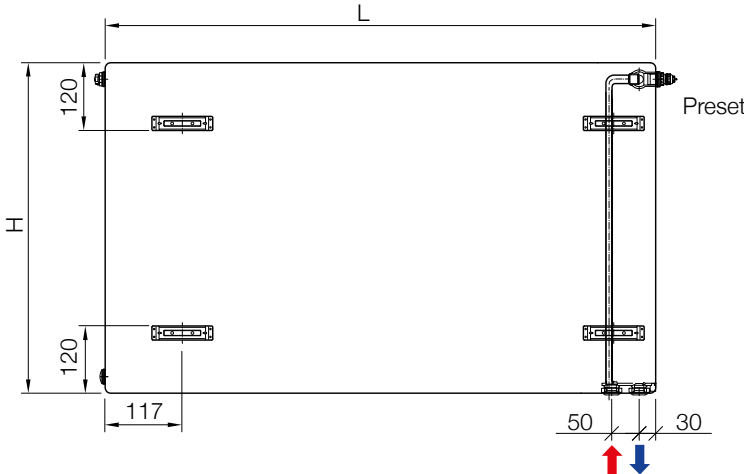
Brakets and optional accessories are available on dedicated pages.

		Dimensions		
		10	20	30
panel depth - excluding back supports	A	64	67	158
total depth - from the back of the support to the front panel**	B	64	76	167
distance from the back support to the connection	C	-	42	59
distance from wall to the centre of the connection (mounting the radiators on the GB brackets for model 20 und 30, D30 for model 10)*	D	34	59/67	76/84
total distance from the wall to the front panel (mounting the radiators on the GB brackets for model 20 und 30, D30 for model 10)*	E	69	94/102	175/183

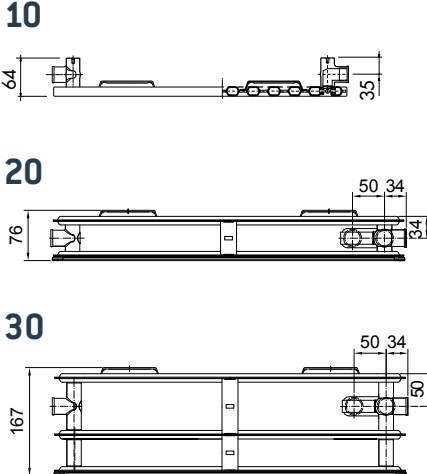
* The total distance varies according to whether the GB bracket is mounted in position A or position B (choice of depth), model 10 mounted on D30 brackets

** Calculating the total size of the panel (from the wall to the front panel) with the chosen wall brackets: the useful length of the chosen bracket must be added to this measurement (see brackets page).

Front view



Upper view



		10			20			30		
Width (mm)		64			67			158		
Exponent (n)		1,301			1,327			1,279		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W
400	Power	112	90	58	198	160	101	312	253	162
	Code	0182103212			0H82263212			0H82303212		
500	Power	140	113	72	248	200	126	391	316	203
	Code	0182103215			0H82263215			0H82303215		
600	Power	167	136	86	298	240	151	469	379	244
	Code	0182103218			0H82263218			0H82303218		
700	Power	195	158	101	347	280	176	547	443	284
	Code	0182103221			0H82263221			0H82303221		
800	Power	223	181	115	397	320	202	625	506	325
	Code	0182103224			0H82263224			0H82303224		
900	Power	251	203	130	446	360	227	703	569	365
	Code	0182103227			0H82263227			0H82303227		
1.000	Power	279	226	144	496	400	252	781	632	406
	Code	0182103230			0H82263230			0H82303230		
1.100	Power	307	249	158	546	440	277	859	696	447
	Code	0182103233			0H82263233			0H82303233		
1.200	Power	335	271	173	595	480	302	937	759	487
	Code	0182103236			0H82263236			0H82303236		
1.400	Power	391	316	202	694	560	353	1093	885	568
	Code	0182103242			0H82263242			0H82303242		
1.600	Power	446	362	230	794	640	403	1250	1012	650
	Code	0182103248			0H82263248			0H82303248		
1.800	Power	502	407	259	893	720	454	1406	1138	731
	Code	0182103254			0H82263254			0H82303254		
2.000	Power	558	452	288	992	800	504	1562	1265	812
	Code	0182103260			0H82263260			0H82303260		
2.300	Power	642	520	331	1141	919	580	1796	1455	934
	Code	0182103269			0H82263269			0H82303269		
2.600	Power	725	588	374	1290	1039	655	2031	1644	1056
	Code	0182103278			0H82263278			0H82303278		
3.000	Power	837	678	432	1488	1199	756	2343	1897	1218
	Code	0182103290			0H82263290			0H82303290		

For the valve on the left side, you have to turn the third-last number from 2 to 4.

Height (H) 400

		10			20			30		
Width (mm)		64			67			158		
Exponent (n)		1,315			1,297			1,28		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W
400	Power	138	111	70	254	206	131	390	317	203
	Code	0182104212			0H82264212			0H82304212		
500	Power	172	139	88	318	258	164	488	396	254
	Code	0182104215			0H82264215			0H82304215		
600	Power	206	167	106	382	309	197	585	475	304
	Code	0182104218			0H82264218			0H82304218		
700	Power	241	194	123	445	361	230	683	554	355
	Code	0182104221			0H82264221			0H82304221		
800	Power	275	222	141	509	412	262	780	633	406
	Code	0182104224			0H82264224			0H82304224		
900	Power	310	250	158	572	464	295	878	713	456
	Code	0182104227			0H82264227			0H82304227		
1.000	Power	344	278	176	636	515	328	975	792	507
	Code	0182104230			0H82264230			0H82304230		
1.100	Power	378	305	194	700	567	361	1073	871	558
	Code	0182104233			0H82264233			0H82304233		
1.200	Power	413	333	211	763	618	394	1170	950	608
	Code	0182104236			0H82264236			0H82304236		
1.400	Power	482	389	246	890	721	459	1365	1109	710
	Code	0182104242			0H82264242			0H82304242		
1.600	Power	550	444	282	1018	824	525	1560	1267	811
	Code	0182104248			0H82264248			0H82304248		
1.800	Power	619	500	317	1145	927	590	1755	1425	913
	Code	0182104254			0H82264254			0H82304254		
2.000	Power	688	555	352	1272	1030	656	1950	1584	1014
	Code	0182104260			0H82264260			0H82304260		
2.300	Power	791	638	405	1463	1185	754	2243	1821	1166
	Code	0182104269			0H82264269			0H82304269		
2.600	Power	894	722	458	1654	1339	853	2535	2059	1318
	Code	0182104278			0H82264278			0H82304278		
3.000	Power	1032	833	528	1908	1545	984	2925	2376	1521
	Code	0182104290			0H82264290			0H82304290		

For the valve on the left side, you have to turn the third-last number from 2 to 4.

Height (H) 500

		10			20			30		
Width (mm)		64			67			158		
Exponent (n)		1,329			1,266			1,281		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W
400	Power	165	133	84	307	250	161	466	379	243
	Code	0182105212			0H82265212			0H82305212		
500	Power	207	166	105	384	313	201	583	474	303
	Code	0182105215			0H82265215			0H82305215		
600	Power	248	200	125	461	375	241	699	569	364
	Code	0182105218			0H82265218			0H82305218		
700	Power	289	233	146	538	438	281	816	664	425
	Code	0182105221			0H82265221			0H82305221		
800	Power	330	266	167	614	500	322	932	758	485
	Code	0182105224			0H82265224			0H82305224		
900	Power	372	299	188	691	563	362	1049	853	546
	Code	0182105227			0H82265227			0H82305227		
1.000	Power	413	333	209	768	625	402	1165	948	607
	Code	0182105230			0H82265230			0H82305230		
1.100	Power	454	366	230	845	688	442	1282	1043	667
	Code	0182105233			0H82265233			0H82305233		
1.200	Power	496	399	251	922	750	482	1398	1138	728
	Code	0182105236			0H82265236			0H82305236		
1.400	Power	578	466	293	1075	876	563	1631	1327	849
	Code	0182105242			0H82265242			0H82305242		
1.600	Power	661	532	334	1229	1001	643	1864	1517	971
	Code	0182105248			0H82265248			0H82305248		
1.800	Power	743	599	376	1382	1126	724	2097	1706	1092
	Code	0182105254			0H82265254			0H82305254		
2.000	Power	826	665	418	1536	1251	804	2330	1896	1213
	Code	0182105260			0H82265260			0H82305260		
2.300	Power	950	765	481	1766	1438	925	2680	2180	1396
	Code	0182105269			0H82265269			0H82305269		
2.600	Power	1074	865	543	1997	1626	1045	3029	2465	1578
	Code	0182105278			0H82265278			0H82305278		
3.000	Power	1239	998	627	2304	1876	1206	3495	2844	1820
	Code	0182105290			0H82265290			0H82305290		

For the valve on the left side, you have to turn the third-last number from 2 to 4.

Height (H) 500

		10			20			30		
Width (mm)		64			67			158		
Exponent (n)		1,343			1,236			1,281		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W
400	Power	195	157	98	358	292	190	541	439	281
	Code	0182106212			0H82266212			0H82306212		
500	Power	244	196	123	447	366	238	677	549	352
	Code	0182106215			0H82266215			0H82306215		
600	Power	293	236	148	536	439	285	812	659	422
	Code	0182106218			0H82266218			0H82306218		
700	Power	342	275	172	626	512	333	947	769	492
	Code	0182106221			0H82266221			0H82306221		
800	Power	390	314	197	715	585	380	1083	879	562
	Code	0182106224			0H82266224			0H82306224		
900	Power	439	353	221	805	658	428	1218	989	633
	Code	0182106227			0H82266227			0H82306227		
1.000	Power	488	393	246	894	731	475	1353	1098	703
	Code	0182106230			0H82266230			0H82306230		
1.100	Power	537	432	271	983	804	523	1489	1208	773
	Code	0182106233			0H82266233			0H82306233		
1.200	Power	586	471	295	1073	877	570	1624	1318	844
	Code	0182106236			0H82266236			0H82306236		
1.400	Power	683	550	344	1252	1024	665	1895	1538	984
	Code	0182106242			0H82266242			0H82306242		
1.600	Power	781	628	394	1430	1170	760	2165	1758	1125
	Code	0182106248			0H82266248			0H82306248		
1.800	Power	878	707	443	1609	1316	855	2436	1977	1266
	Code	0182106254			0H82266254			0H82306254		
2.000	Power	976	785	492	1788	1462	950	2707	2197	1406
	Code	0182106260			0H82266260			0H82306260		
2.300	Power	1122	903	566	2056	1682	1093	3113	2526	1617
	Code	0182106269			0H82266269			0H82306269		
2.600	Power	1269	1021	640	2324	1901	1235	3519	2856	1828
	Code	0182106278			0H82266278			0H82306278		
3.000	Power	1464	1178	738	2682	2193	1425	4060	3295	2109
	Code	0182106290			0H82266290			0H82306290		

For the valve on the left side, you have to turn the third-last number from 2 to 4.

Height (H) 700

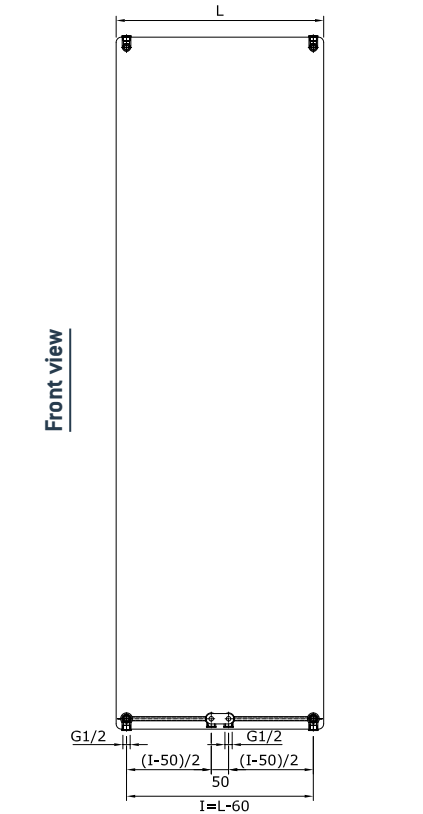
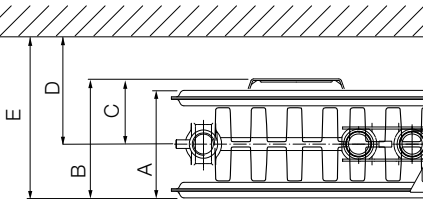
		10			20			30		
Width (mm)		64			67			158		
Exponent (n)		1,307			1,250			1,286		
		Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20
Lenght (mm)		W	W	W	W	W	W	W	W	W
400	Power	229	185	117	405	331	214	616	499	319
	Code	0182107212			0H82267212			0H82307212		
500	Power	286	231	147	507	413	268	771	624	399
	Code	0182107215			0H82267215			0H82307215		
600	Power	343	277	176	608	496	321	925	749	479
	Code	0182107218			0H82267218			0H82307218		
700	Power	400	324	205	709	579	375	1079	874	558
	Code	0182107221			0H82267221			0H82307221		
800	Power	458	370	235	810	661	428	1233	999	638
	Code	0182107224			0H82267224			0H82307224		
900	Power	515	416	264	912	744	482	1387	1124	718
	Code	0182107227			0H82267227			0H82307227		
1.000	Power	572	462	293	1013	827	535	1541	1249	798
	Code	0182107230			0H82267230			0H82307230		
1.100	Power	629	509	323	1114	909	589	1695	1374	878
	Code	0182107233			0H82267233			0H82307233		
1.200	Power	686	555	352	1216	992	642	1849	1498	957
	Code	0182107236			0H82267236			0H82307236		
1.400	Power	801	647	411	1418	1157	749	2157	1748	1117
	Code	0182107242			0H82267242			0H82307242		
1.600	Power	915	740	469	1621	1323	856	2466	1998	1277
	Code	0182107248			0H82267248			0H82307248		
1.800	Power	1030	832	528	1823	1488	963	2774	2248	1436
	Code	0182107254			0H82267254			0H82307254		
2.000	Power	1144	925	587	2026	1653	1070	3082	2497	1596
	Code	0182107260			0H82267260			0H82307260		
2.300	Power	1316	1063	675	2330	1901	1231	3544	2872	1835
	Code	0182107269			0H82267269			0H82307269		
2.600	Power	1487	1202	762	2634	2149	1391	4007	3247	2074
	Code	0182107278			0H82267278			0H82307278		
3.000	Power	1716	1387	880	3039	2480	1605	4623	3746	2394
	Code	0182107290			0H82267290			0H82307290		

Linear Vertical Panel



Brackets included

Blind cap and air vent included



Technical characteristics

- Working pressure 10 bar
- Test pressure 13 bar
- Maximum operating temperature 110° C
- NF certification in models 10, 20 and 21. For NF certification see the website www.marque-nf.com

Included in the packing

- 4 x 1/2" connections (perpendicular to the ground), inside thread
- 1 central connector with 50 mm tappings centre (1/2" inside thread) – choice of bottom or top
- 3 x 1/2" blind caps provided, to be mounted
- 1 x 1/2" vent plug provided, to be mounted
- Vertical radiators are available in two different configurations: with central connection at the bottom (configuration AB) or at the top (configuration AA) – see modified order code at the bottom of the tables
- The 20, 21 and 22 models of vertical panel are finished with side covers; in the AB configuration (central connection at the bottom), they also have a top grille; model 10 has no grille or side covers.
- Brackets and supports
 - 2 x GB brackets with top safety hook are provided (1 bracket for 300 mm-wide model)
 - 3 pairs of welded back supports (3 single supports for 300mm-wide models)

Connection

- Vertical radiators can be connected to a two-pipe installation with top/bottom opposite side, bottom/ bottom opposite side, top/top opposite side connections and in the configuration with central connection. The two-pipe connection requires a valve and lockshield (not provided).
- It can also be connected to a two-pipe installation with central connection and valve/lockshield group with 50 mm tappings centre (available as an accessory on request).
- Vertical radiators can be connected to a one-pipe installation using a one-pipe valve with external probe only.
- Floor anchors not available.

Safety

- Vertical radiators cannot be inverted around any of the three axes.
- the sides of Vertical radiators are fastened with screws, safer than the interlocking system adopted on other panel radiators.

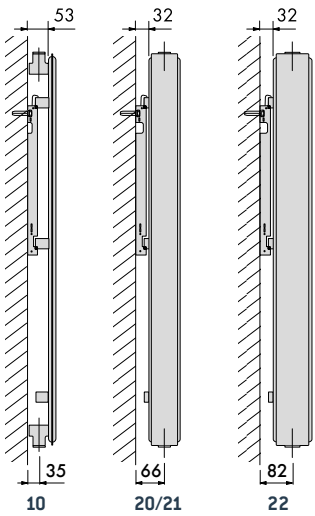
Optional

Brakets and optional accessories are available on dedicated pages.

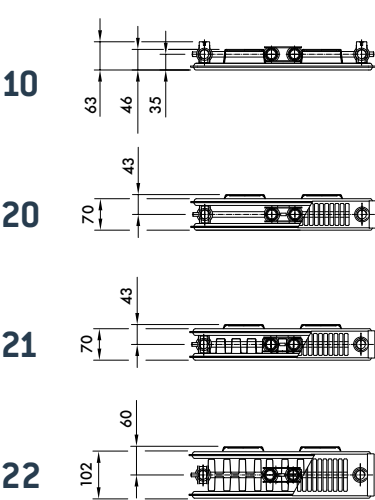
		Dimensions			
		10	20	21	22
panel depth - excluding back supports	A	62	70	70	102
total depth - from the back of the support to the front panel**	B	62	77	77	111
distance from the back support to the connection	C	-	43	43	60
distance from wall to the centre of the connection (mounting the radiators on the GB brackets provided)*	D	35	58/66	58/66	74/82
total distance from the wall to the front panel (panel mounted on the GP brackets provided as standard)*	E	70	93/101	93/101	125/133

* The total distance varies according to whether the GB bracket is mounted in position A or position B (choice of depth)
** Calculating the total size of the panel (from the wall to the front panel) with the chosen wall brackets: the useful length of the chosen bracket must be added to this measurement (see brackets page).

Side view



Upper view



Height (H) 1400

		10			20			21			22			
Width {mm}		62			77			77			111			
Exponent {n}		1,234			1,263			1,298			1,354			
Lenght (mm)	Tappings center (l)	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	
		W	W	W	W	W	W	W	W	W	W	W	W	
300	240	Power	378	312	207	577	469	306	739	597	378	955	764	477
		Code	0146103842			0146203842			0146213842			0146223842		
400	340	Power	505	416	276	769	626	408	985	796	505	1273	1018	637
		Code	0146104842			0146204842			0146214842			0146224842		
500	440	Power	631	520	345	961	782	511	1231	996	631	1592	1273	796
		Code	0146105842			0146205842			0146215842			0146225842		
600	540	Power	757	624	414	1153	939	613	1477	1195	757	1910	1528	955
		Code	0146106842			0146206842			0146216842			0146226842		
700	640	Power	883	728	483	1345	1095	715	1724	1394	883	2228	1782	1114
		Code	0146107842			0146207842			0146217842			0146227842		
900	840	Power	1135	936	622	1730	1408	919	2216	1792	1135	2865	2291	1432
		Code	0146109842			0146209842			0146219842			0146229842		

Height (H) 1600

		10			20			21			22			
Width [mm]		62			??			??			111			
Exponent (n)		1,288			1,277			1,318			1,355			
Lenght (mm)	Tappings center (l)	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	
		W	W	W	W	W	W	W	W	W	W	W	W	
300	240	Power	414	336	216	649	528	342	811	655	414	1054	845	532
		Code	0146103848			0146203848			0146213848			0146223848		
400	340	Power	553	448	288	865	704	456	1081	873	553	1405	1127	709
		Code	0146104848			0146204848			0146214848			0146224848		
500	440	Power	691	560	360	1081	880	571	1351	1091	691	1757	1409	886
		Code	0146105848			0146205848			0146215848			0146225848		
600	540	Power	829	672	432	1297	1056	685	1622	1310	829	2108	1690	1063
		Code	0146106848			0146206848			0146216848			0146226848		
700	640	Power	967	784	505	1514	1232	799	1892	1528	967	2459	1972	1240
		Code	0146107848			0146207848			0146217848			0146227848		
900	840	Power	1243	1008	649	1946	1584	1027	2432	1965	1243	3162	2536	1595
		Code	0146109848			0146209848			0146219848			0146229848		

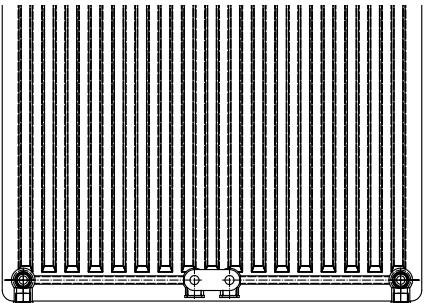
The required configuration must be indicated on the order

- AB (bottom connection)
- AA (top connection).

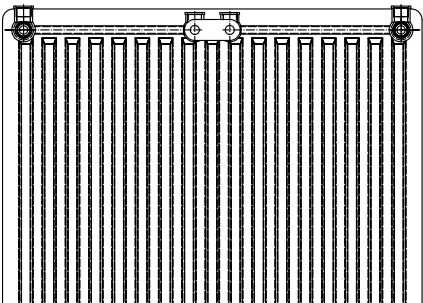
In the case of the top connection (AA), the 8 in the third to last position of the code must be replaced with a 9.

Example:
0146214854 is a Vertical flat fronted 21 1800x400 panel with bottom connections (AB); 0146214954 is a Vertical flat fronted 21 1800x400 panel with top connections (AA)

CONFIGURATION AB: connection on the bottom with top grille



CONFIGURATION AA: connection on the top without top grille

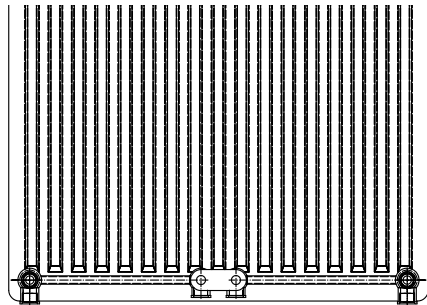


Height (H) 1800														
		10			20			21			22			
Width (mm)		62			77			77			111			
Exponent (n)		1,343			1,29			1,337			1,356			
Lenght (mm)	Tappings center (l)	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	
		W	W	W	W	W	W	W	W	W	W	W	W	
300	240	Power	459	368	234	730	589	378	883	707	441	1153	922	577
		Code	0146103854			0146203854			0146213854			0146223854		
400	340	Power	613	490	312	973	785	505	1177	943	589	1538	1230	769
		Code	0146104854			0146204854			0146214854			0146224854		
500	440	Power	766	613	390	1216	981	631	1471	1179	736	1922	1537	961
		Code	0146105854			0146205854			0146215854			0146225854		
600	540	Power	919	736	468	1459	1177	757	1766	1414	883	2306	1845	1153
		Code	0146106854			0146206854			0146216854			0146226854		
700	640	Power	1072	858	547	1703	1374	883	2060	1650	1030	2691	2152	1345
		Code	0146107854			0146207854			0146217854			0146227854		
900	840	Power	1378	1103	703	2189	1766	1135	2649	2121	1324	3459	2767	1730
		Code	0146109854			0146209854			0146219854			0146229854		

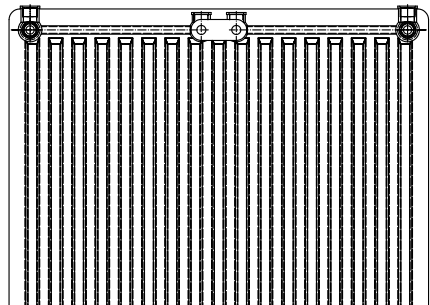
Height (H) 2000														
		10			20			21			22			
Width (mm)		62			77			77			111			
Exponent (n)		1,33			1,286			1,341			1,357			
Lenght (mm)	Tappings center (l)	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	
		W	W	W	W	W	W	W	W	W	W	W	W	
300	240	Power	505	406	252	811	658	423	946	758	477	1243	993	622
		Code	0146103860			0146203860			0146213860			0146223860		
400	340	Power	673	490	336	1081	877	565	1261	1010	637	1658	1324	829
		Code	0146104860			0146204860			0146214860			0146224860		
500	440	Power	841	613	420	1351	1097	706	1577	1263	796	2072	1655	1036
		Code	0146105860			0146205860			0146215860			0146225860		
600	540	Power	1009	736	505	1622	1316	847	1892	1515	955	2486	1986	1243
		Code	0146106860			0146206860			0146216860			0146226860		
700	640	Power	1177	858	589	1892	1535	988	2207	1768	1114	2901	2317	1450
		Code	0146107860			0146207860			0146217860			0146227860		
900	840	Power	1514	1103	757	2432	1974	1270	2838	2273	1432	3730	2979	1865
		Code	0146109860			0146209860			0146219860			0146229860		

The required configuration must be indicated on the order
— AB (bottom connection)
— AA (top connection).
In the case of the top connection (AA), the 8 in the third to last position of the code must be replaced with a 9.
Example:
0146214854 is a Vertical flat fronted 21 1800x400 panel with bottom connections (AB); 0146214954 is a Vertical flat fronted 21 1800x400 panel with top connections (AA)

CONFIGURATION AB: connection on the bottom with top grille



CONFIGURATION AA: connection on the top without top grille.

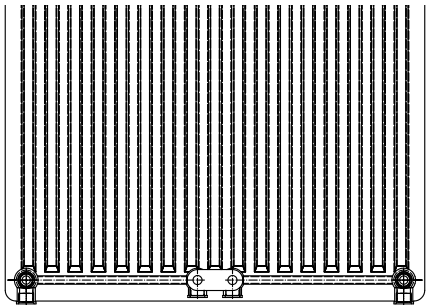


Height (H) 2200														
		10			20			21			22			
Width (mm)		62			77			77			111			
Exponent (n)		1,317			1,281			1,345			1,359			
Lenght (mm)	Tappings center (l)	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	
		W	W	W	W	W	W	W	W	W	W	W	W	
300	240	Power	563	454	287	900	730	468	1009	808	507	1328	1064	663
		Code	0146103866			0146203866			0146213866			0146223866		
400	340	Power	751	605	383	1200	973	623	1345	1077	676	1771	1419	884
		Code	0146104866			0146204866			0146214866			0146224866		
500	440	Power	938	756	479	1500	1217	779	1682	1346	845	2213	1773	1105
		Code	0146105866			0146205866			0146215866			0146225866		
600	540	Power	1126	908	575	1800	1460	935	2018	1615	1014	2656	2128	1326
		Code	0146106866			0146206866			0146216866			0146226866		
700	640	Power	1314	1059	671	2100	1703	1091	2354	1885	1183	3098	2482	1547
		Code	0146107866			0146207866			0146217866			0146227866		
900	840	Power	1689	1361	862	2700	2190	1403	3027	2423	1522	3984	3192	1989
		Code	0146109866			0146209866			0146219866			0146229866		

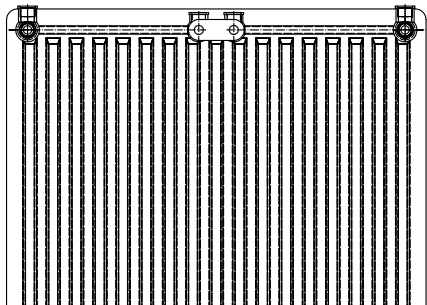
Height (H) 2400														
		10			20			21			22			
Width (mm)		62			77			77			111			
Exponent (n)		1,309			1,276			1,352			1,376			
Lenght (mm)	Tappings center (l)	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	Output 75/65-20	Output 70/55-20	Output 55/45-20	
		W	W	W	W	W	W	W	W	W	W	W	W	
300	240	Power	630	509	323	996	810	519	1071	860	537	1412	1128	699
		Code	0146103872			0146203872			0146213872			0146223872		
400	340	Power	840	679	430	1329	1080	692	1428	1146	716	1882	1504	932
		Code	0146104872			0146204872			0146214872			0146224872		
500	440	Power	1050	848	538	1661	1350	865	1785	1433	895	2353	1880	1165
		Code	0146105872			0146205872			0146215872			0146225872		
600	540	Power	1259	1018	645	1993	1620	1038	2142	1720	1074	2823	2257	1398
		Code	0146106872			0146206872			0146216872			0146226872		
700	640	Power	1469	1188	753	2325	1890	1211	2499	2006	1253	3294	2633	1631
		Code	0146107872			0146207872			0146217872			0146227872		
900	840	Power	1889	1527	968	2989	2429	1557	3214	2579	1611	4235	3385	2097
		Code	0146109872			0146209872			0146219872			0146229872		

The required configuration must be indicated on the order
— AB (bottom connection)
— AA (top connection).
In the case of the top connection (AA), the 8 in the third to last position of the code must be replaced with a 9.
Example:
0146214854 is a Vertical flat fronted 21 1800x400 panel with bottom connections (AB); 0146214954 is a Vertical flat fronted 21 1800x400 panel with top connections (AA)

CONFIGURATION AB: connection on the bottom with top grille



CONFIGURATION AA: connection on the top without top grille.



Correction factor F

Calculate the heat output for different Δt, valid for traditional and low temperature installations

The following temperatures:

- input fluid t_e
- output fluid t_u
- room t_a

indicated in the table determine the correction factor **F**.
To obtain the heat output according to the EN 442 standard **Q_n**, the heat requirement **Q_f** must be multiplied by the correction factor **F**.

Qn = Qf • F

Q_n = heat output according to EN 442
t_m = 70 °C (75/65),
t_a = 20 °C

Q_f = heat requirement

F = correction factor indicated in table

EXAMPLE
Given a heat requirement Q_f of 830 Watt in the following two cases:

Case A
for traditional installations
t_e = 80 °C; t_u = 70 °C; t_a = 18 °C
Correction factor F = 0,84
(from table)
Q_n = Q_f • F = 830 • 0,84 = 697 W

Case B
for NT low temperature installations
t_e = 60 °C; t_u = 50 °C; t_a = 20 °C
Correction factor F = 1.60
(from table)
Q_n = Q_f • F = 830 • 1,60 = 1328 W

Inlet Temperature t _e (°C)	Room Temperature t _a (°C)	Outlet Temperature t _u (°C)															
		25	30	35	40	45	50	55	60	65	70	75	80	85	90		
95	24	4,23	2,29	1,77	1,48	1,29	1,15	1,04	0,96	0,89	0,83	0,78	0,73	0,70	0,66		
	22	2,91	1,99	1,60	1,36	1,20	1,08	0,99	0,91	0,85	0,79	0,75	0,70	0,67	0,64		
	20	2,35	1,76	1,46	1,26	1,13	1,02	0,93	0,87	0,81	0,76	0,72	0,68	0,64	0,61		
	18	2,00	1,58	1,34	1,18	1,06	0,96	0,89	0,83	0,77	0,73	0,69	0,65	0,62	0,59		
	15	1,67	1,38	1,20	1,07	0,97	0,89	0,83	0,77	0,72	0,68	0,65	0,62	0,59	0,56		
90	24	4,56	2,45	1,88	1,57	1,36	1,21	1,10	1,01	0,93	0,87	0,82	0,77	0,73			
	22	3,11	2,11	1,69	1,44	1,27	1,14	1,04	0,96	0,89	0,83	0,78	0,74	0,70			
	20	2,50	1,87	1,54	1,33	1,19	1,07	0,98	0,91	0,85	0,80	0,75	0,71	0,67			
	18	2,13	1,68	1,42	1,24	1,11	1,01	0,93	0,87	0,81	0,76	0,72	0,68	0,65			
	15	1,76	1,46	1,26	1,13	1,02	0,93	0,87	0,81	0,76	0,72	0,68	0,64	0,61			
85	24	4,94	2,63	2,00	1,67	1,45	1,29	1,16	1,07	0,99	0,92	0,86	0,81				
	22	3,34	2,26	1,80	1,53	1,34	1,21	1,10	1,01	0,94	0,88	0,82	0,78				
	20	2,67	1,99	1,64	1,41	1,25	1,13	1,04	0,96	0,89	0,84	0,79	0,75				
	18	2,27	1,78	1,50	1,31	1,18	1,07	0,98	0,91	0,85	0,80	0,75	0,71	0,67			
	15	1,87	1,54	1,33	1,19	1,07	0,98	0,91	0,85	0,80	0,75	0,71	0,67				
80	24	5,38	2,83	2,15	1,78	1,54	1,37	1,24	1,13	1,05	0,97	0,91					
	22	3,61	2,42	1,93	1,63	1,43	1,28	1,16	1,07	0,99	0,93	0,87					
	20	2,87	2,13	1,75	1,50	1,33	1,20	1,10	1,01	0,94	0,88	0,83					
	18	2,42	1,90	1,60	1,39	1,24	1,13	1,04	0,96	0,90	0,84	0,79					
	15	1,99	1,64	1,41	1,25	1,13	1,04	0,96	0,89	0,84	0,79	0,75					
75	24	5,90	3,07	2,32	1,92	1,66	1,47	1,32	1,21	1,12	1,04						
	22	3,92	2,61	2,07	1,75	1,53	1,37	1,24	1,14	1,05	0,98						
	20	3,10	2,28	1,87	1,61	1,42	1,28	1,17	1,08	1,00	0,94						
	18	2,61	2,03	1,70	1,48	1,32	1,20	1,10	1,02	0,95	0,89						
	15	2,13	1,75	1,50	1,33	1,20	1,10	1,01	0,94	0,88	0,83						
70	24	6,54	3,36	2,52	2,08	1,79	1,58	1,42	1,30	1,19							
	22	4,30	2,84	2,24	1,89	1,64	1,47	1,33	1,22	1,13							
	20	3,38	2,47	2,02	1,73	1,52	1,37	1,25	1,15	1,07							
	18	2,82	2,19	1,83	1,59	1,42	1,28	1,17	1,08	1,01							
	15	2,28	1,87	1,61	1,42	1,28	1,17	1,08	1,00	0,94							
65	24	7,33	3,70	2,76	2,27	1,94	1,71	1,54	1,40								
	22	4,75	3,11	2,44	2,05	1,78	1,59	1,43	1,31								
	20	3,70	2,69	2,19	1,87	1,64	1,47	1,34	1,23								
	18	3,07	2,37	1,98	1,71	1,52	1,37	1,26	1,16								
	15	2,47	2,02	1,73	1,52	1,37	1,25	1,15	1,07								
60	24	8,13	4,13	3,06	2,50	2,13	1,87	1,68									
	22	5,32	3,44	2,69	2,24	1,94	1,73	1,56									
	20	4,10	2,96	2,39	2,03	1,78	1,60	1,45									
	18	3,38	2,59	2,15	1,86	1,65	1,48	1,36									
	15	2,69	2,19	1,87	1,64	1,47	1,34	1,23									
55	24	9,24	4,67	3,43	2,78	2,37	2,07										
	22	6,03	3,86	2,99	2,48	2,15	1,90										
	20	4,60	3,29	2,64	2,24	1,96	1,75										
	18	3,75	2,86	2,36	2,03	1,80	1,62										
	15	2,96	2,39	2,03	1,78	1,60	1,45										
50	24	10,42	5,39	3,92	3,15	2,67											
	22	6,97	4,39	3,38	2,79	2,40											
	20	5,23	3,70	2,96	2,50	2,17											
	18	4,22	3,20	2,63	2,25	1,98											
	15	3,29	2,64	2,24	1,96	1,75											
45	24	11,63	6,38	4,58	3,66												
	22	7,51	5,11	3,89	3,19												
	20	6,08	4,25	3,37	2,83												
	18	4,84	3,63	2,96	2,53												
	15	3,70	2,96	2,50	2,17												
40	24	12,99	7,28	5,01	3,93												
	22	8,14	5,68	4,21	3,41												
	20	6,58	4,60	3,66	3,08												
	18	5,23	3,92	3,15	2,67												
	15	4,25	3,37	2,83													
Inlet Temperature t _e (°C)	Room Temperature t _a (°C)	25	30	35	40	45	50	55	60	65	70	75	80	85	90	Outlet Temperature t _u (°C)	

correction factor F for
input fluid temperature from 95 to 40°C
output fluid temperature from 90 to 25°C
room temperature from 24 to 12°C
n around 1.3

Spare side covers and spare grills for Linear Panels

SPARE SIDE COVERS

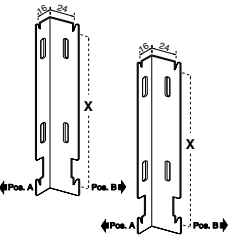
Model	Height	11	20	21	22	33	22 replacement radiators	33 replacement radiators
compact	300	7380000000	7380012400	7380001800	7380003000	7380004200	7380018300	7380018800
rightvalve rad	300	7380000600	7380002400	7380002400	7380003600	7380004800	-	-
leftvalve rad	300	7380001200	7380002400	7380002400	7380003600	7380005400	-	-
compact	400	7380000100	7380012500	7380001900	7380003100	7380004300	7380018400	7380018900
rightvalve rad	400	7380000700	7380002500	7380002500	7380003700	7380004900	-	-
leftvalve rad	400	7380001300	7380002500	7380002500	7380003700	7380005500	-	-
compact	500	7380000200	7380012600	7380002000	7380003200	7380004400	7380018500	7380019000
rightvalve rad	500	7380000800	7380002600	7380002600	7380003800	7380005000	-	-
leftvalve rad	500	7380001400	7380002600	7380002600	7380003800	7380005600	-	-
compact	600	7380000300	7380012700	7380002100	7380003300	7380004500	7380018600	7380019100
rightvalve rad	600	7380000900	7380002700	7380002700	7380003900	7380005100	-	-
leftvalve rad	600	7380001500	7380002700	7380002700	7380003900	7380005700	-	-
compact	700	7380000400	7380012800	7380002200	7380003400	7380004600	7380018700	7380019200
rightvalve rad	700	7380001000	7380002800	7380002800	7380004000	7380005200	-	-
leftvalve rad	700	7380001600	7380002800	7380002800	7380004000	7380005800	-	-
compact	900	7380000500	7380012900	7380002300	7380003500	7380004700	7380019300	7380019400
rightvalve rad	900	7380001100	7380002900	7380002900	7380004100	7380005300	-	-
leftvalve rad	900	7380001700	7380002900	7380002900	7380004100	7380005900	-	-

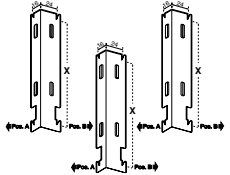
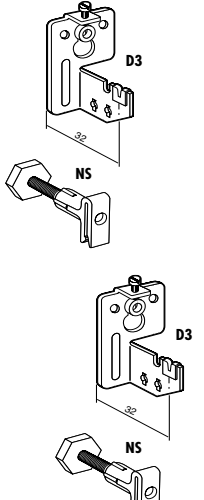
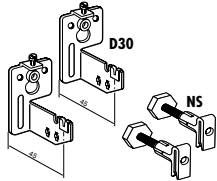
SPARE GRID

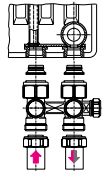
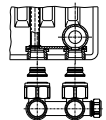
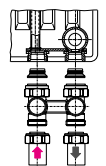
Model	Length	11	20	21	22	33
all	400	7380006000	7380013000	7380007600	7380009200	7380010800
all	500	7380006100	7380013100	7380007700	7380009300	7380010900
all	600	7380006200	7380013200	7380007800	7380009400	7380011000
all	700	7380006300	7380013300	7380007900	7380009500	7380011100
all	800	7380006400	7380013400	7380008000	7380009600	7380011200
all	900	7380006500	7380013500	7380008100	7380009700	7380011300
all	1100	7380006600	7380013600	7380008200	7380009800	7380011400
all	1000	7380006700	7380013700	7380008300	7380009900	7380011500
all	1200	7380006800	7380013800	7380008400	7380010000	7380011600
all	1400	7380006900	7380013900	7380008500	7380010100	7380011700
all	1600	7380007000	7380014000	7380008600	7380010200	7380011800
all	1800	7380007100	7380014100	7380008700	7380010300	7380011900
all	2000	7380007200	7380014200	7380008800	7380010400	7380012000
all	2300	7380007300	7380014300	7380008900	7380010500	7380012100
all	2600	7380007400	7380014400	7380009000	7380010600	7380012200
all	3000	7380007500	7380014500	7380009100	7380010700	7380012300

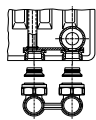
Spare parts and Accessories

Brackets for horizontal linear panel - installation accessories

			Linear Compact panel	Linear PHD 2.0 panel with valve	Linear PHD 2.0 panel with central connection and valve	Linear Hygiene compact panel	Linear Hygiene PHD 2.0 panel with valve	Linear Vertical Panel
		back supports included	√	√	√	√	√	√
		brackets included	-	-	-	-	-	√
 GB1 (2 pcs) screws included Wall distance with position A = 16 mm Wall distance with position B = 24 mm	5580080500	H300	optional for L <= 1600mm (excluded model 10)	optional for L <= 1600mm (excluded model 10)	optional for L <= 1600mm	optional for models 20, 30 for L <= 1600mm	optional for models 20, 30 for L <= 1600mm	-
	5580080600	H400	optional for L <= 1600mm	optional for L <= 1600mm	optional for L <= 1600mm	optional for models 20, 30 for L <= 1600mm	optional for models 20, 30 for L <= 1600mm	-
	5580080700	H500	optional for L <= 1600mm	optional for L <= 1600mm	optional for L <= 1600mm	optional for models 20, 30 for L <= 1600mm	optional for models 20, 30 for L <= 1600mm	-
	5580080800	H600	optional for L <= 1600mm	optional for L <= 1600mm	optional for L <= 1600mm	optional for models 20, 30 for L <= 1600mm	optional for models 20, 30 for L <= 1600mm	-
	5580080900	H700	optional for L <= 1600mm	optional for L <= 1600mm	optional for L <= 1600mm	optional for models 20, 30 for L <= 1600mm	optional for models 20, 30 for L <= 1600mm	-
	5580081000	H900	optional for L <= 1600mm	optional for L <= 1600mm	optional for L <= 1600mm	optional for models 20, 30 for L <= 1600mm	optional for models 20, 30 for L <= 1600mm	-
	5580107900	H1400	-	-	-	-	-	spare part
	5580108000	H1600	-	-	-	-	-	spare part
	5580108100	H1800	-	-	-	-	-	spare part
	5580108200	H2000	-	-	-	-	-	spare part
	5580108300	H2200	-	-	-	-	-	spare part
	5580108500	H2400	-	-	-	-	-	spare part

			Linear Compact panel	Linear PHD 2.0 panel with valve	Linear PHD 2.0 panel with central connection and valve	Linear Hygiene compact panel	Linear Hygiene PHD 2.0 panel with valve	Linear Vertical Panel
 GB1 (3 pcs) screws included Wall distance with position A = 16 mm Wall distance with position B = 24 mm	5580081100	H300	optional for L >= 1800mm (excluded model 10)	optional for L >= 1800mm	optional for L >= 1800mm	optional for models 20, 30 with L >= 1800mm	optional for models 20, 30 with L >= 1800mm	-
	5580081200	H400	optional for L >= 1800mm (excluded model 10)	optional for L >= 1800mm	optional for L >= 1800mm	optional for models 20, 30 with L >= 1800mm	optional for models 20, 30 with L >= 1800mm	-
	5580081300	H500	optional for L >= 1800mm (excluded model 10)	optional for L >= 1800mm	optional for L >= 1800mm	optional for models 20, 30 with L >= 1800mm	optional for models 20, 30 with L >= 1800mm	-
	5580081400	H600	optional for L >= 1800mm (excluded model 10)	optional for L >= 1800mm	optional for L >= 1800mm	optional for models 20, 30 with L >= 1800mm	optional for models 20, 30 with L >= 1800mm	-
	5580081500	H700	optional für L >= 1800mm (excluded model 10)	optional for L >= 1800mm	optional for L >= 1800mm	optional for models 20, 30 with L >= 1800mm	optional for models 20, 30 with L >= 1800mm	-
	5580081600	H900	optional for L >= 1800mm (excluded model 10)	optional for L >= 1800mm	optional for L >= 1800mm	optional for models 20, 30 with L >= 1800mm	optional for models 20, 30 with L >= 1800mm	-
 D3 NS D3 with NS (2 pcs) for models 11-21-22-33 Distance from the wall 32 mm	552919	H300	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	-
		H400	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	-
		H500	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	-
		H600	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	-
		H700	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	-
		H900	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional (except for model 10) L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	optional only for models 20+30 L<1600 mm order 1 kit L>1600 mm order 2 kits	-
 D30 NS D30 with NS spacers (2 pcs) Distance from the wall 45 mm	5580005300	H300 H400 H500 H600 H700 H900	optional for model 10 L<=1600mm order 1 kit L>=1800mm order 2 kits	spare part for model 10 L<=1600mm order 1 kit L>=1800mm order 2 kits	-	optional for model 10 L<=1600mm order 1 kit L>=1800mm order 2 kits	optional for model 10 L<=1600mm order 1 kit L>=1800mm order 2 kits	-
Kit two D3 brackets with NS spacers and air vent and cap	5580108700		optional for 552919	-	optional for 552919	optional for 552919	optional for 552919	-
Kit two D30 brackets with NS spacers and air vent and cap	5580018900		optional for 5580005300	optional for 5580005300	optional for 5580005300	optional for 5580005300	optional for 5580005300	-

			Linear Compact panel	Linear PHD 2.0 panel with valve	Linear PHD 2.0 panel with central connection and valve	Linear Hygiene compact panel	Linear Hygiene PHD 2.0 panel with valve	Linear Vertical Panel
 Air vent 1/2" with oring [1 pc]	6180002000 (minimum order 10 pcs)		✓ optional	✓ Ersatzteil	✓ Ersatzteil	✓ optional	✓ Ersatzteil	✓ Ersatzteil
 Air vent key	611454		✓ optional	✓ optional	✓ optional	✓ optional	✓ optional	✓ optional
 Plug reduction 1/2" - 3/8" with O-ring	611453		✓ optional	✓ optional	✓ optional	✓ optional	✓ optional	✓ optional
 Blind cap 1/2" without cover (1pc) (to be coupled with cover 5500866200)	5500010100		✓ optional	✓ Ersatzteil	✓ Ersatzteil	✓ optional	✓ Ersatzteil	✓ Ersatzteil
 Cover for blind cap 1/2" (1pc) (to be coupled with blind cap 5500010100)	5500866200 (minimum order 10 pcs)		✓ optional	✓ Ersatzteil	✓ Ersatzteil	✓ optional	✓ Ersatzteil	✓ Ersatzteil
 Air vent 1/2" with oring + Blind cap 1/2"	5580008900		✓ optional	✓ optional	✓ optional	✓ optional	✓ optional	✓ optional
 H distributor straight ONE PIPE [3/4"]	5580008200		-	✓ optional	✓ optional	-	✓ optional	-
 H distributor curved ONE PIPE [3/4"]	5580008300		-	✓ optional	✓ optional	-	✓ optional	-
 H distributor straight TWO PIPE [3/4"]	5580013600		-	✓ optional	✓ optional	-	✓ optional	-

			Linear Compact panel	Linear PHD 2.0 panel with valve	Linear PHD 2.0 panel with central connection and valve	Linear Hygiene compact panel	Linear Hygiene PHD 2.0 panel with valve	Linear Vertical Panel
 H distributor curved TWO PIPE [3/4"]	5580013700		-	✓ optional	✓ optional	-	✓ optional	-
H distributor straight (fit for drainoff) TWO PIPE [3/4"]	5580103500		-	✓ optional	✓ optional	-	✓ optional	-
H distributor curved (fit for drainoff) TWO PIPE [3/4"]	5580103600		-	✓ optional	✓ optional	-	✓ optional	-
 Chrome Danfoss Kit H-valve tappings centre 50mm (1/2" - 3/4")	5567001000		-	-	-	-	-	✓ optional
 Connection for copper pipe for distributor one/two pipe	5580010100 3/4" x 10mm 5580010200 3/4" x 12mm 5580010400 3/4" x 14mm 5580010500 3/4" x 15mm 5580010600 3/4" x 16mm 5580010700 3/4" x 18mm		-	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500	-	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500
 Connection for multilayer pipe	5580127000 (3/4"x18)x14/10 5580127100 (3/4"x18)x16/12 5580127200 (3/4"x18)x20/16		-	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500	-	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500	✓ optional for 5580008200 5580008300 5580013600 5580013700 5580103500

			Linear Compact panel	Linear PHD 2.0 panel with valve	Linear PHD 2.0 panel with central connection and valve	Linear Hygiene compact panel	Linear Hygiene PHD 2.0 panel with valve	Linear Vertical Panel
 Ovus chrome valve 1/2" x 24/19	5567009900		✓ optional	-	-	✓ optional	-	✓ optional
 Ovus chrome lockshield valve 1/2" x 24/19	5567010000		✓ optional	-	-	✓ optional	-	✓ optional
 Ovus white valve 1/2" x 24/19	5567011100		✓	-	-	✓ optional	-	✓ optional
 Ovus white lockshield valve 1/2" x 24/19	5567011200		✓ optional	-	-	✓ optional	-	✓ optional
 Connection for multilayer pipe 24/19 x 9,5/10-14 for Ovus valve and lockshield	550S300400		✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000
 Connection for multilayer pipe 24/19 x 11,5/12-16 for Ovus valve and lockshield	550S300500		✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000
 Connection for multilayer pipe 24/19 x 15,5/16-20 for Ovus valve and lockshield	550S300600		✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000
 Connection for copper pipe 24/19 x 10 for Ovus valve and lockshield	550S300700		✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000
 Connection for copper pipe 24/19 x 12 for Ovus valve and lockshield	550S300800		✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000
 Connection for copper pipe 24/19 x 14 for Ovus valve and lockshield	550S300900		✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional für 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000

			Linear Compact panel	Linear PHD 2.0 panel with valve	Linear PHD 2.0 panel with central connection and valve	Linear Hygiene compact panel	Linear Hygiene PHD 2.0 panel with valve	Linear Vertical Panel
 Connection for copper pipe 24/19 x 15 for Ovus valve and lockshield	550S301000		✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000
 Connection for copper pipe 24/19 x 16 for ovus valve and lockshield	550S301100		✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000	-	✓ optional for 5567009900 5567010000 5567011100 5567011200 5567008600 5567011000
 Kit Ovus 1/2" x 24/19 - only two pipe	5567008600		-	-	-	-	-	✓ optional
 Kit Ovus 1/2" x 24/19 - only two pipe	5567011000		-	-	-	-	-	✓ optional
 Thermostatic head for ovus valve (M30x1,5)	5567011300		✓ optional for 5567009900 5567011100 5567008600 5567011000	-	-	✓ optional for 5567009900 5567011100 5567008600 5567011000	-	✓ optional for 5567009900 5567011100 5567008600 5567011000
 Thermostatic head for ovus valve (M30x1,5)	5580105400		✓ optional for 5567009900 5567011100 5567008600 5567011000	-	-	✓ optional for 5567009900 5567011100 5567008600 5567011000	-	✓ optional for 5567009900 5567011100 5567008600 5567011000
 Thermostatic head (M23,5x1,5)	5580104900		-	✓ optional	✓ optional	-	✓ optional	-
 Thermostatic head	5580127700 chrome		-	✓ optional	✓ optional		✓ optional	✓ optional for kit danfoss 5567001000
 Thermostatic head	5580127500 black 5580127600 white		-	✓ optional	✓ optional	-	✓ optional	-
 Hand knob	5580113800		-	✓ optional	✓ optional	-	✓ optional	✓ optional for kit danfoss 5567001000
 PHD-Tool	7381016700		-	✓ optional	-	-	✓ optional	-

Weight, water content and heating surface - Linear Panels

SPARE SIDE COVERS AND SPARE GRILLS AT THE END OF LINEAR SECTION - WEIGHT PER METER

LINEAR COMPACT RAD

		Height					
Model	Feature	300	400	500	600	700	900
10	Water content [l/m]	2,10	2,59	3,07	3,55	4,05	5,05
	Weight [kg/m]	9,14	12,03	14,73	17,23	20,56	25,24
	Heating surface [m2/m]	0,64	0,87	1,09	1,31	1,56	1,99
20	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	16,42	21,76	27,97	31,47	36,14	48,02
	Heating surface [m2/m]	0,62	1,68	2,11	2,52	2,70	3,66
21	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	18,00	23,87	30,44	35,29	41,34	53,51
	Heating surface [m2/m]	1,52	3,02	4,22	5,31	6,64	8,99
22	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	19,58	25,98	32,91	39,11	46,54	59,00
	Heating surface [m2/m]	2,40	4,36	6,33	8,30	10,50	14,21
33	Water content [l/m]	6,10	7,87	9,63	11,40	12,73	15,40
	Weight [kg/m]	28,12	37,38	46,81	55,29	64,51	84,44
	Heating surface [m2/m]	3,61	6,57	9,53	12,49	15,79	21,37

LINEAR WITH VALVE - CENTRAL CONN.

		Height					
Model	Feature	300	400	500	600	700	900
21	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	18,71	24,98	31,15	37,32	43,59	55,93
	Heating surface [m2/m]	1,52	3,02	4,22	5,31	6,64	8,99
22	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	21,95	29,30	36,55	43,80	51,15	65,65
	Heating surface [m2/m]	2,40	4,36	6,33	8,30	10,50	14,21
33	Water content [l/m]	6,10	7,87	9,63	11,40	12,73	15,40
	Weight [kg/m]	31,40	41,90	52,30	62,70	73,20	94,00
	Heating surface [m2/m]	3,61	6,57	9,53	12,49	15,79	21,37

LINEAR HYGIENE COMPACT RAD

		Height					
Model	Feature	300	400	500	600	700	900
10	Water content [l/m]	2,10	2,59	3,07	3,55	4,05	5,05
	Weight [kg/m]	8,98	11,96	14,82	17,33	20,86	25,60
	Heating surface [m2/m]	0,31	0,84	1,06	1,26	1,35	1,83
20	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	14,83	19,48	23,73	28,34	33,59	42,25
	Heating surface [m2/m]	0,62	1,68	2,11	2,52	2,70	3,66
30	Water content [l/m]	6,10	7,87	9,63	11,40	12,73	15,40
	Weight [kg/m]	21,16	27,73	33,69	40,22	47,73	59,91
	Heating surface [m2/m]	2,02	5,00	7,97	10,94	13,92	19,86

LINEAR PHD 2.0 RAD

		Height					
Model	Feature	300	400	500	600	700	900
10	Water content [l/m]	2,10	2,59	3,07	3,55	4,05	5,05
	Weight [kg/m]	9,48	12,46	15,32	17,93	21,36	26,30
	Heating surface [m2/m]	0,31	0,84	1,06	1,26	1,35	1,83
20	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	16,49	21,79	27,95	31,39	35,97	47,76
	Heating surface [m2/m]	0,62	1,68	2,11	2,52	2,70	3,66
21	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	18,07	23,90	30,42	35,21	41,17	53,25
	Heating surface [m2/m]	1,52	3,02	4,22	5,31	6,64	8,99
22	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	19,65	26,01	32,89	39,03	46,37	58,74
	Heating surface [m2/m]	2,40	4,36	6,33	8,30	10,50	14,21
33	Water content [l/m]	6,10	7,87	9,63	11,40	12,73	15,40
	Weight [kg/m]	28,19	37,43	46,77	55,18	64,35	84,13
	Heating surface [m2/m]	3,61	6,57	9,53	12,49	15,79	21,37

LINEAR PHD 2.0 HYGIENE RAD

		Height					
Model	Feature	300	400	500	600	700	900
10	Water content [l/m]	2,10	2,59	3,07	3,55	4,05	5,05
	Weight [kg/m]	9,14	12,03	14,73	17,23	20,56	25,24
	Heating surface [m2/m]	0,31	0,84	1,06	1,26	1,35	1,83
20	Water content [l/m]	4,20	5,17	6,13	7,10	8,10	10,10
	Weight [kg/m]	14,76	19,45	23,75	28,42	33,76	42,51
	Heating surface [m2/m]	0,62	1,68	2,11	2,52	2,70	3,66
30	Water content [l/m]	6,10	7,87	9,63	11,40	12,73	15,40
	Weight [kg/m]	21,09	27,68	33,73	40,33	47,89	60,22
	Heating surface [m2/m]	2,02	5,00	7,97	10,94	13,92	19,86

Weight, water content - Linear Vertical Panel

			Lenght					
Model	Height	Feature	300	400	500	600	700	900
10	1400	Water content [l]	2,49	3,32	4,16	4,99	5,82	7,48
		Weight [kg]	11,70	15,60	19,50	23,40	27,30	35,10
	1600	Water content [l]	2,73	3,64	4,55	5,45	6,36	8,18
		Weight [kg]	13,47	17,96	22,46	26,95	31,44	40,42
	1800	Water content [l]	2,95	3,94	4,92	5,90	6,89	8,86
		Weight [kg]	15,25	20,33	25,41	30,49	35,57	45,74
	2000	Water content [l]	3,33	4,44	5,55	6,66	7,77	9,99
		Weight [kg]	16,87	22,49	28,11	33,73	39,35	50,60
	2200	Water content [l]	3,80	5,07	6,33	7,60	8,87	11,40
		Weight [kg]	18,55	24,73	30,92	37,10	43,28	55,65
	2400	Water content [l]	4,15	5,53	6,92	8,30	9,68	12,45
		Weight [kg]	20,25	27,00	33,75	40,50	47,25	60,75

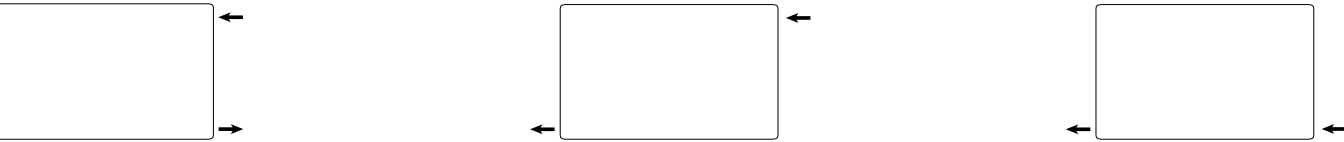
			Lenght					
Model	Height	Feature	300	400	500	600	700	900
20	1400	Water content [l]	5,00	6,66	8,33	9,99	11,66	14,99
		Weight [kg]	20,40	27,20	34,01	40,81	47,61	61,21
	1600	Water content [l]	5,50	7,33	9,17	11,00	12,83	16,50
		Weight [kg]	23,21	30,95	38,69	46,42	54,16	69,63
	1800	Water content [l]	6,00	8,00	10,01	12,01	14,01	18,01
		Weight [kg]	26,01	34,68	43,35	52,02	60,69	78,03
	2000	Water content [l]	6,74	8,99	11,24	13,48	15,73	20,22
		Weight [kg]	28,83	38,44	48,05	57,65	67,26	86,48
	2200	Water content [l]	7,70	10,27	12,83	15,40	17,97	23,10
		Weight [kg]	31,50	42,00	52,50	63,00	73,50	94,50
	2400	Water content [l]	8,25	11,00	13,75	16,50	19,25	24,75
		Weight [kg]	34,25	45,67	57,08	68,50	79,92	102,75

			Lenght					
Model	Height	Feature	300	400	500	600	700	900
21	1400	Water content [l]	5,00	6,66	8,33	9,99	11,66	14,99
		Weight [kg]	24,35	32,46	40,58	48,69	56,81	73,04
	1600	Water content [l]	5,50	7,33	9,17	11,00	12,83	16,50
		Weight [kg]	27,80	37,07	46,34	55,60	64,87	83,40
	1800	Water content [l]	6,00	8,00	10,01	12,01	14,01	18,01
		Weight [kg]	31,25	41,66	52,08	62,50	72,91	93,74
	2000	Water content [l]	6,74	8,99	11,24	13,48	15,73	20,22
		Weight [kg]	34,77	46,36	57,95	69,53	81,12	104,30
	2200	Water content [l]	7,70	10,27	12,83	15,40	17,97	23,10
		Weight [kg]	37,20	49,60	62,00	74,40	86,80	111,60
	2400	Water content [l]	8,25	11,00	13,75	16,50	19,25	24,75
		Weight [kg]	40,55	54,07	67,58	81,10	94,62	121,65

			Lenght					
Model	Height	Feature	300	400	500	600	700	900
22	1400	Water content [l]	5,00	6,66	8,33	9,99	11,66	14,99
		Weight [kg]	28,20	37,59	47,00	56,40	65,80	84,60
	1600	Water content [l]	5,50	7,33	9,17	11,00	12,83	16,50
		Weight [kg]	31,65	42,20	52,76	63,31	73,86	94,96
	1800	Water content [l]	6,00	8,00	10,01	12,01	14,01	18,01
		Weight [kg]	35,10	46,79	58,50	70,21	81,90	105,30
	2000	Water content [l]	6,74	8,99	11,24	13,48	15,73	20,22
		Weight [kg]	38,62	51,49	64,37	77,24	90,11	115,86
	2200	Water content [l]	7,70	10,27	12,83	15,40	17,97	23,10
		Weight [kg]	41,05	54,73	68,42	82,11	95,79	123,16
	2400	Water content [l]	8,25	11,00	13,75	16,50	19,25	24,75
		Weight [kg]	44,40	59,20	74,00	88,81	103,61	133,21

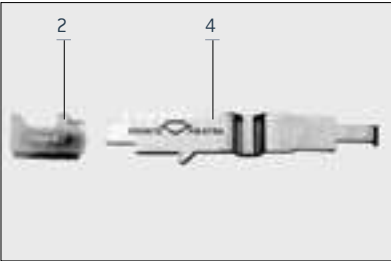
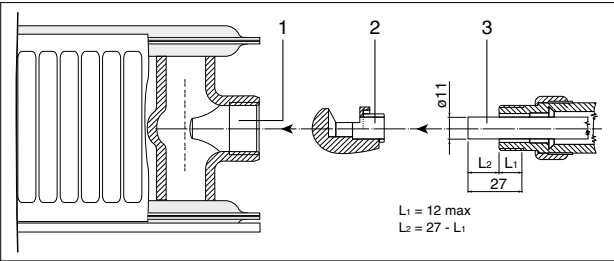
Linear Compact Panel and Linear Hygiene Compact Panel Connection

Two-pipe



The connection methods described here are symmetric
Linear Compact radiators can be connected with a two-pipe connection as follows: top/bottom same side (all EN442 heat outputs are calculated and verified with this type of connection), top/bottom opposite sides (the best way to connect radiators longer than 1000 mm), bottom/bottom opposite side (this connection method reduces heat output by about 10%). Two-pipe connection requires a thermostatic valve (possibly with thermostatic head) and lockshield.

One-pipe



Linear Compact radiators can be connected with a one-pipe connection using the special flow diverter (2) inserted in the connection point (1) using the key (4). To connect to a one-pipe installation, a one-pipe valve with probe (not available from DL Radiators) is required. The probe must have a maximum length of 11mm and the length of the external probe and the thread inside the valve must not exceed 27mm (3).

One-Pipe connection kit

Code	Description
5380003300	Flow diverter for one-pipe valve
611561	Wrench for the flow diverter

Pressure drop and valve regulation - Compact steel panels

Two-Pipe

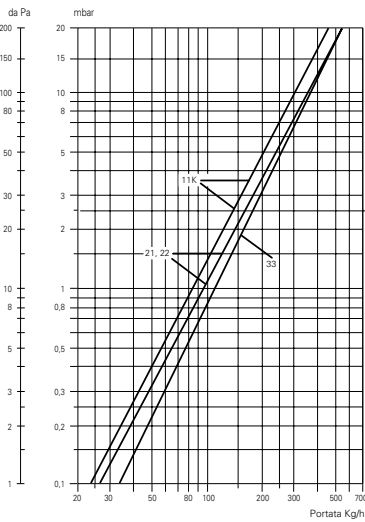


Chart 1: Pressure drop two-pipe

Pressure drops Δp are expressed by daPa and mbar.

1 mm H₂O = 0,0981 mbar

Pressure drop chart for Compact Panels

The values are obtained with the connection 1/2 G by one side.

model 11K

model 21 e 22

model 33

One-Pipe

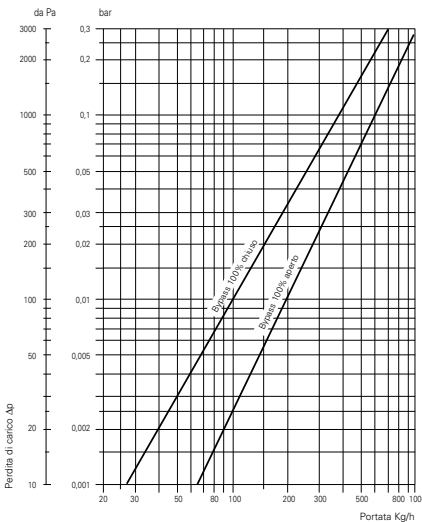
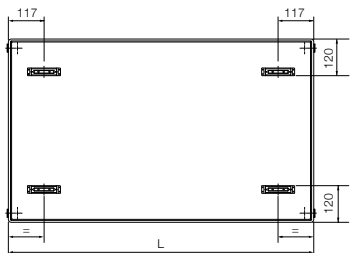


Chart 2: Pressure drop one-pipe

Pressure drops refer to panels with valve for one-pipe loop with the special flow diverter. They are esprese by daPa and bar.

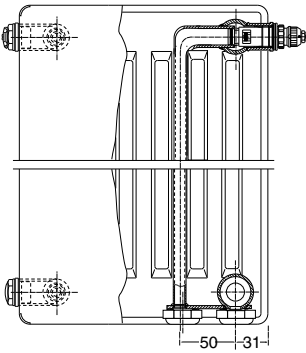
Pressure drop chart shows the outer values of pressure drops for Compact Panels for models 21, 22 e 33. Care of instructions for one-pipe valve.

How many brackets are required:



Up to 1600mm, 4 back supports are welded and so 2 brackets (1 set) is required; above 1800mm, 6 back supports are welded and so 3 brackets (2 sets) are required.

Linear PHD 2.0 Panel with valve, PHD 2.0 Hygiene Panel with valve Connection methods



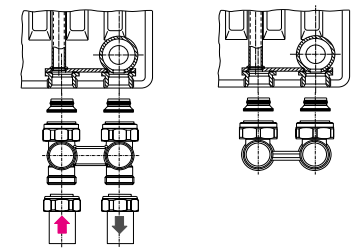
PHD radiators are supplied with preset thermostatic valve. Regulation is based on the 70/55-20 heat output of the radiator and the pressure drop of the insert mounted (0.1 bar).

If resetting is required:

The setting for the thermostatic insert (two-pipe connection) is obtained from the flow rate Q diagrams (expressed in kg/h) – Pressure drop Δp (expressed in bars or kPa). Starting from the Δt set in the system and the power of the radiator (EN442 standard output), the intersection with the pressure drop value on the X axis determines the nearest kv at which to set the insert (for example: position 3 or 4).

Instructions on adjusting the thermostatic insert are provided with every panel.

Two-pipe connection

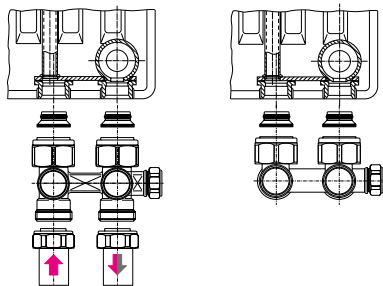


Linear PHD panels can be connected to a two-pipe installation using a straight or square distributor. Our range of distributors are provided with Eurocone insert for connection to the 3/4" externally threaded connections on Plattella Thermostatic radiators. The nozzle on the distributors provided for draining the radiator can be connected to the draining device.

Distributors Two Pipe

Code	Description
5580013600	H distributor straight - TWO PIPE
5580013700	H distributor curved - TWO PIPE
5580103500	H distributor straight (fit for drainoff) - TWO PIPE
5580103600	H distributor curved (fit for drainoff) - TWO PIPE

One-pipe connection

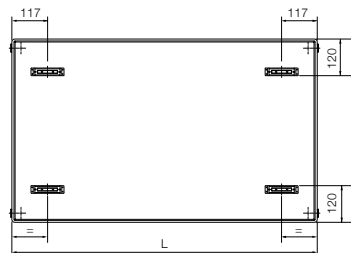


Linear PHD panels can be connected to a one-pipe installation using a straight or square distributor. Our range of distributors are provided with Eurocone insert for connection to the 3/4" externally threaded connections on Plattella Thermostatic radiators. On the distributor side the by-pass must be regulated to define the water flow entering the radiator and the flow bypassing it to continue in the circuit. Place the thermostatic insert in the N position (fully open) then adjust the number of turns of the bypass.

Distributors One Pipe

Code	Description
5580008200	H distributor straight - ONE PIPE
5580008300	H distributor curved - ONE PIPE

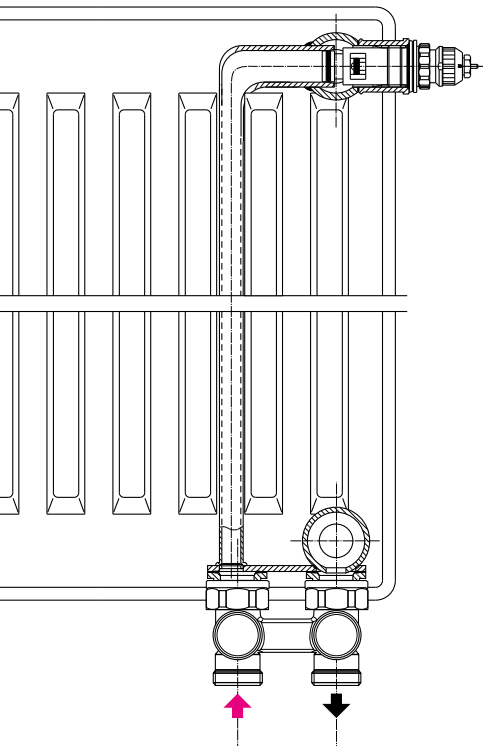
How many brackets are required:



Up to 1600mm, 4 back supports are welded and so 2 brackets (1 set) is required; above 1800mm, 6 back supports are welded and so 3 brackets (2 sets) are required.

Linear PHD 2.0 Panel with valve, Linear PHD 2.0 Hygiene Panel with valve and Linear PHD 2.0 Panel with valve and central connection

Pressure drop and valve regulation panels with valve (Two-Pipe)



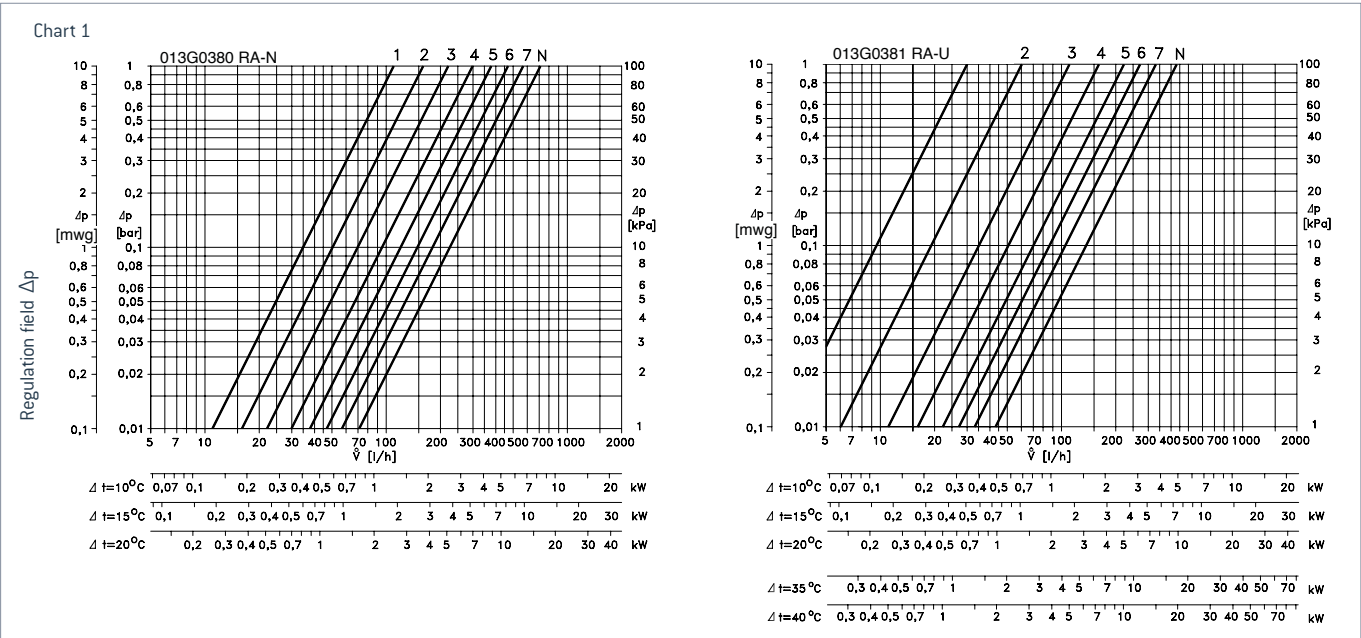
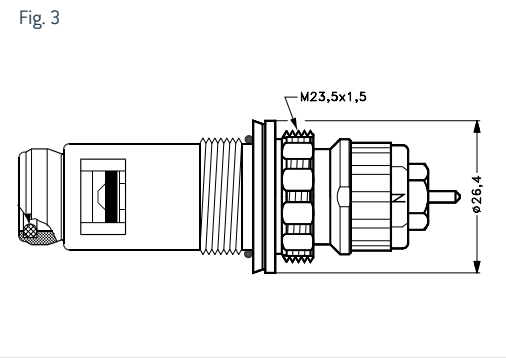
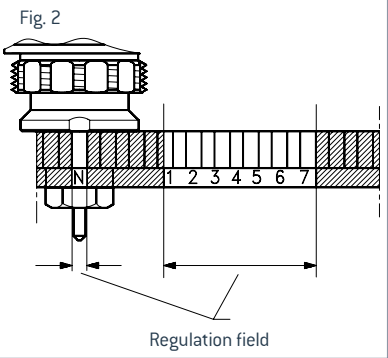
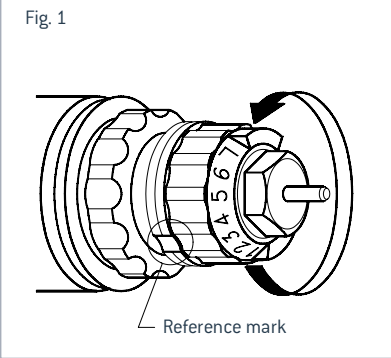
Square or straight distributors can be used in two-pipe installations. These distributors incorporate two gate valves to intercept the input and output flows. PHD series radiators can also be used without distributors. To ensure the thermostatic head maintains room temperature precisely, the built-in Danfoss thermostatic valve must be adjusted to achieve a pressure drop of 0.1 bar in the radiator (use diagram 1).

REGULATION
The value obtained from the diagram can be set on the Danfoss thermostatic valve easily without using tools (for maximum accessibility, it may be more convenient to regulate the valve before assembly):

- Remove the protective cap
- Turn the adjustment ring until the pointer corresponds to the required value on the graduated scale (fig. 1). The setting is continuous from 1 to 7 (fig. 2). In position N, the valve is fully open.

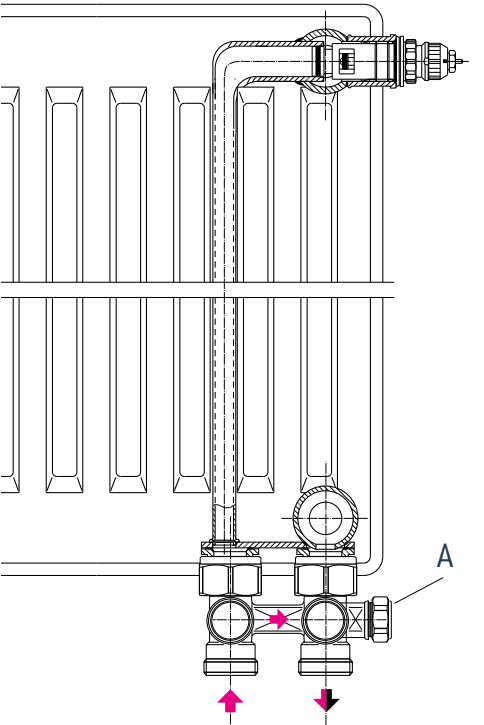
Example:
• Model 21/600-1100
• Power output = 1412 W
• With $\Delta t = 15^\circ\text{C}$ and $\Delta p = 0,1$ bar from chart 1 you obtain the valve regulation value: 3 (water flux)

DL Radiators Code	Danfoss Code	Danfoss Model	Colour Ring	Presetting	Cap
5580115600	013G1489	013G0380	black	N4	red
5580115700	013G1490	013G0380	orange	N6	red
5580115500	013G1488	013G0380	red	NN	red
5580115800	013G1401	013G0381	white	U3	yellow
5580115900	013G1402	013G0381	green	U5	yellow



Linear PHD 2.0 Panel with valve, Linear PHD 2.0 Hygiene Panel with valve and Linear PHD 2.0 Panel with valve and central connection

Pressure drop and valve regulation panels with valve (One-Pipe)



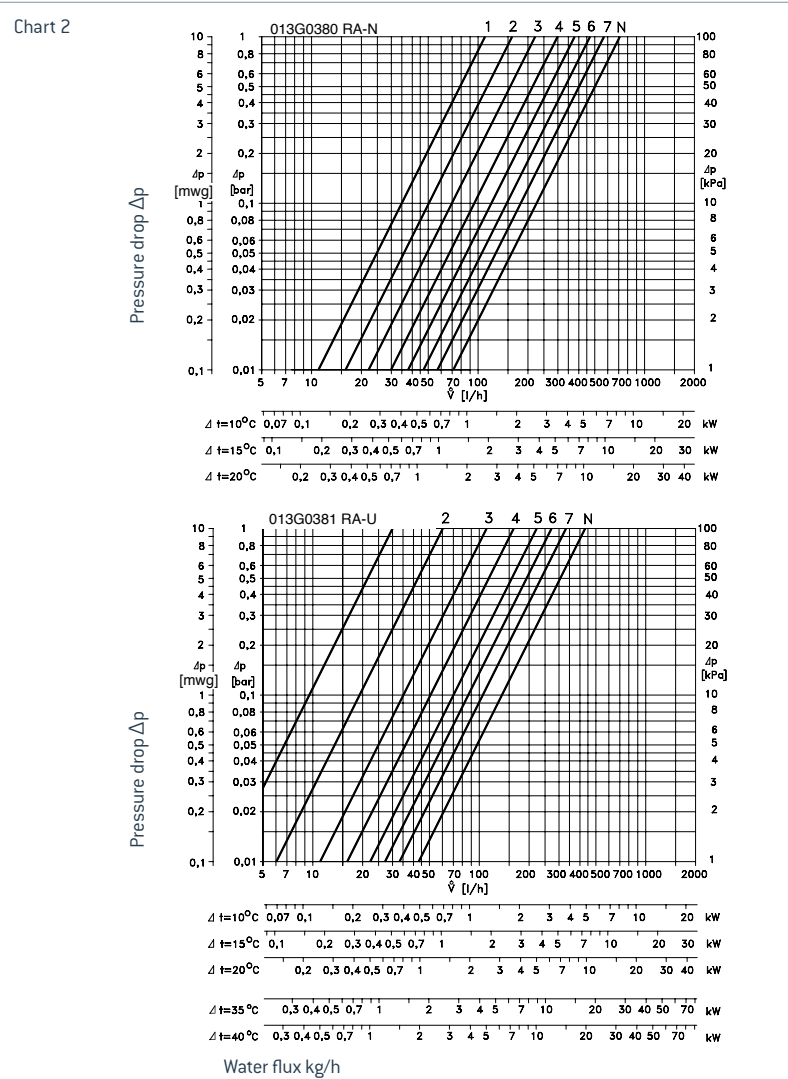
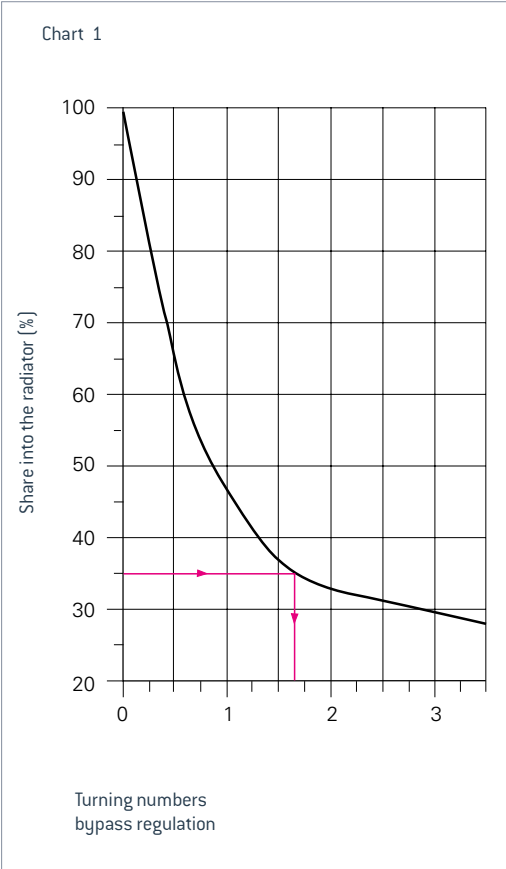
For one-pipe installations, a straight or square distributor with adjustable by-pass is required. The Danfoss thermostatic valve must be placed in the N position. When the percentage flow rate in the radiator is known (with respect to the total flow in the installation), the no. of turns to be set on the by-pass can be obtained from diagram 1. The by-pass under the cover A of the distributor can then be adjusted using an Allen key by the number of turns indicated in the table.

To know the pressure drop in the radiator, use diagram 2. Once the total flow in the installation and the percentage flow in the radiator are known, the pressure drop in metres of water column or bars can be obtained.

EXAMPLE: Total thermal flow in the loop (5814 Watt)
 $\Delta t = 10^\circ\text{C}$ (75/65 $^\circ\text{C}$)
35% water capacity in the exchanger
OBTAIN: by-pass regulation value and pressure lost in the radiator
SOLUTION: Capacity in the ring $\dot{m} = \frac{\dot{Q}}{c \times \Delta t} = \frac{5814 \times 0,86}{1 \times 10} = 500 \text{ kg/h}$

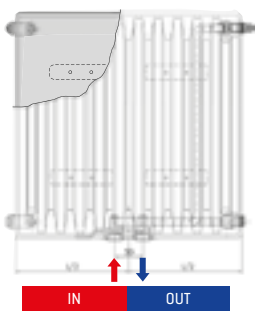
From chart 1 : by-pass turning number = 1 + 3/4
From chart 2 $\Delta p = 0,1$ bar

The flow rate in the radiator can be regulated subsequently, including during operation. The distributor can also be used as a blind bridge if the radiator is mounted subsequently or dismantled, without having to empty the installation.



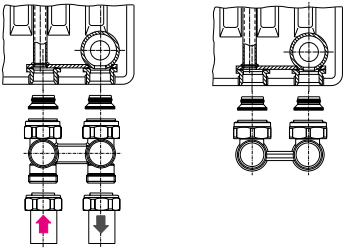
Linear Panels with central connection

Connection methods



The setting for the thermostatic insert (two-pipe connection) is obtained from the flow rate Q diagrams (expressed in kg/h) – Pressure drop Δp (expressed in bars or kPa). Starting from the Δt set in the system and the power of the radiator (EN442 standard output), the intersection with the pressure drop value on the X axis determines the Linear radiators with central connection are supplied with the insert in the N position (valve fully open). Instructions on adjusting the thermostatic insert are provided with every panel. The inlet connection lies always on the left, even by right-valve radiator.

Two-pipe connection

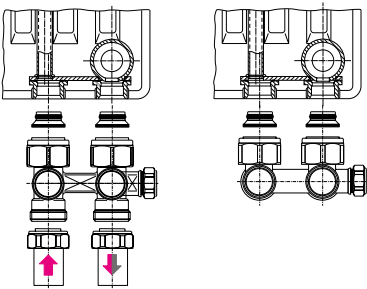


Linear panels with central connection can be connected to a two-pipe installation using a straight or square distributor. Our range of distributors are provided with Eurocone insert for connection to the 3/4" externally threaded connections fitted to Linear radiators with central connection. The nozzle on the distributors provided for draining the radiator can be connected to the draining device.

Distributors Two Pipe

Code	Description
5580013600	H distributor straight - TWO PIPE
5580013600	H distributor straight - TWO PIPE
5580103500	H distributor straight (fit for drainoff) - TWO PIPE
5580103600	H distributor curved (fit for drainoff) - TWO PIPE

One-pipe connection

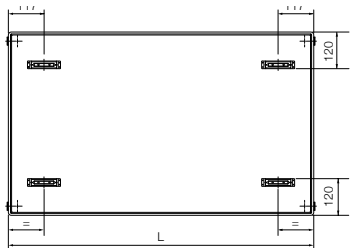


Linear panels with central connection can be connected to a one-pipe installation using a straight or square distributor. Our range of distributors are provided with Eurocone insert for connection to the 3/4" externally threaded connections fitted to Linear radiators with central connection. On the distributor side the by-pass must be regulated to define the water flow entering the radiator and the flow bypassing it to continue in the circuit. Place the thermostatic insert in the N position (fully open) then adjust the number of turns of the bypass.

Distributors One Pipe

Code	Description
5580008200	H distributor straight - ONE PIPE
5580008300	H distributor curved - ONE PIPE

How many brackets are required:



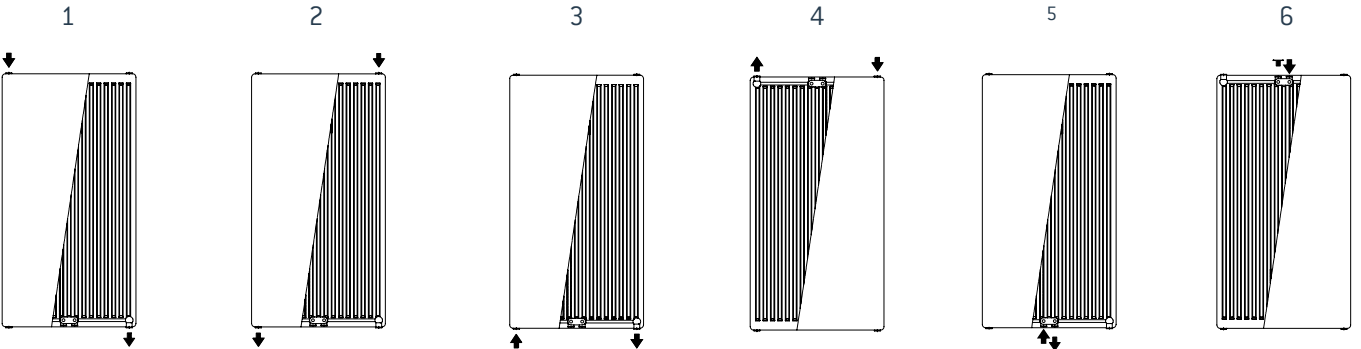
Up to 1600mm, 4 back supports are welded and so 2 brackets (1 set) is required; above 1800mm, 6 back supports are welded and so 3 brackets (2 sets) are required.

Linear Vertical Panel

Connection possibilities

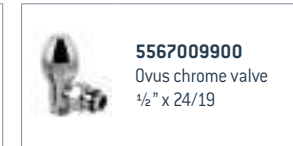
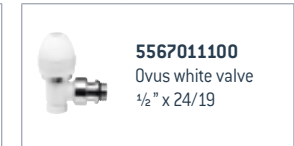
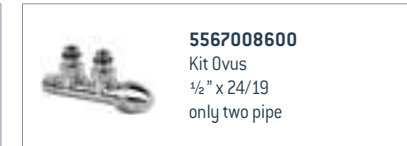
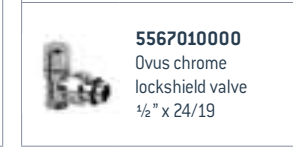
Connection possibilities

Vertical radiators can be connected to a two-pipe connection as follows: top/bottom opposite side (1, 2), bottom/bottom opposite side (3), top/top opposite side (4) connections and in the configuration with bottom (5) or top (6) central connection. The top/top opposite side connection (4) and top central connection (6) are applicable only and exclusively with the panel in configuration AA (top connection) as in this case a deflector is installed in the radiator. - AA Configuration has no grille. Configurations 3, 4, 5 and 6 are symmetrical with respect to the indications in the drawings below (the output and input indicated by the arrows can be reversed). Two-pipe connection with side connections requires a thermostatic valve (possibly with thermostatic head) and lockshield. When connecting with side connections, the central connection must be sealed with two blind caps.

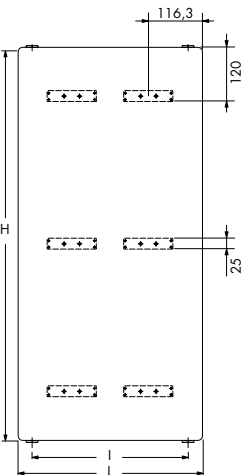


Central connection with valve/lockshield kit

In a two-pipe connection, Vertical radiators can be connected with a central connection using a valve/lockshield group with 50mm tappings centre (to be ordered separately) which can be connected to the central connection of the panel via two 3/4" - 1/2" nipples. The setting for the valve in the valve/lockshield group with 50mm tappings centre (two-pipe connection) is obtained from the flow rate Q diagrams (expressed in kg/h) - Pressure drop Δp (expressed in bars or kPa). Starting from the Δt set in the system and the power of the radiator (EN442 standard output), the intersection with the pressure drop value on the X axis determines the nearest kv at which to set the insert (for example: position 3 or 4). The valve/lockshield group can be thermostatically controlled by fitting the DL Radiators thermostatic head (to be ordered separately).

 5567001000 Chrome Danfoss Kit H-valve tappings centre 50mm	 5567009900 Ovus chrome valve 1/2" x 24/19	 5567011100 Ovus white valve 1/2" x 24/19	 5567008600 Kit Ovus 1/2" x 24/19 only two pipe
 5567010000 Ovus chrome lockshield valve 1/2" x 24/19	 5567011200 Ovus white lockshield valve 1/2" x 24/19	 5567011000 Kit Ovus 1/2" x 24/19 only two pipe	

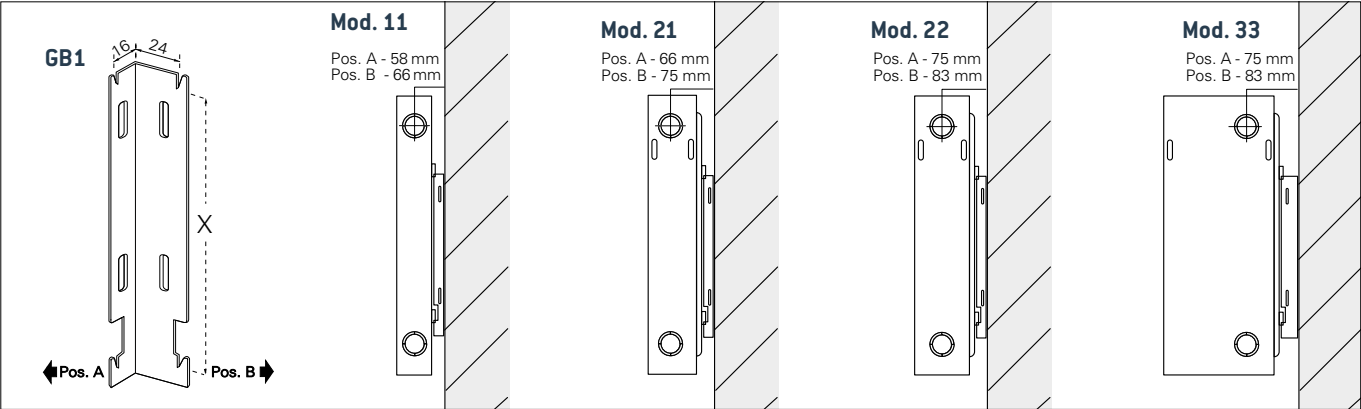
How many brackets are required:



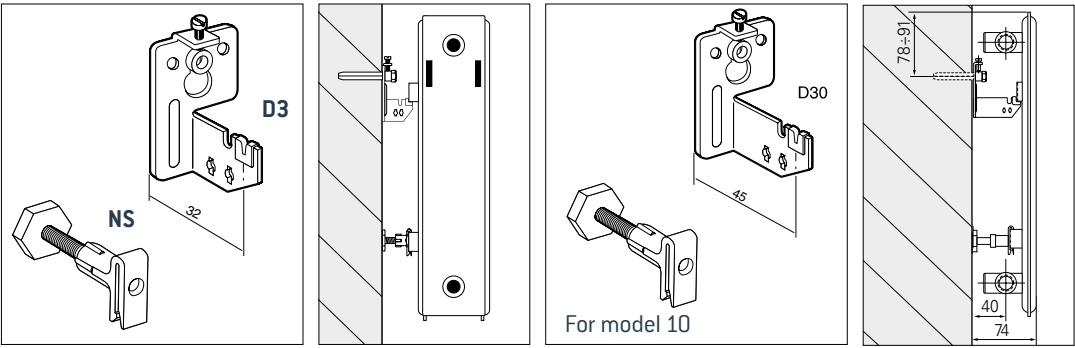
The 300mm wide Vertical radiator needs 1 bracket, (1 set), from the 400mm 2 brackets (2 sets) are required.

Wall brackets

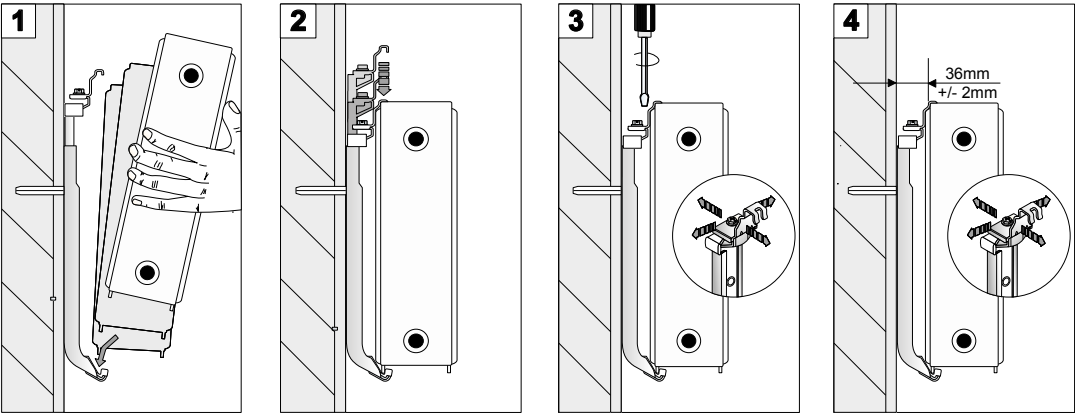
BRACKETS GB1



BRACKETS D3 - D30

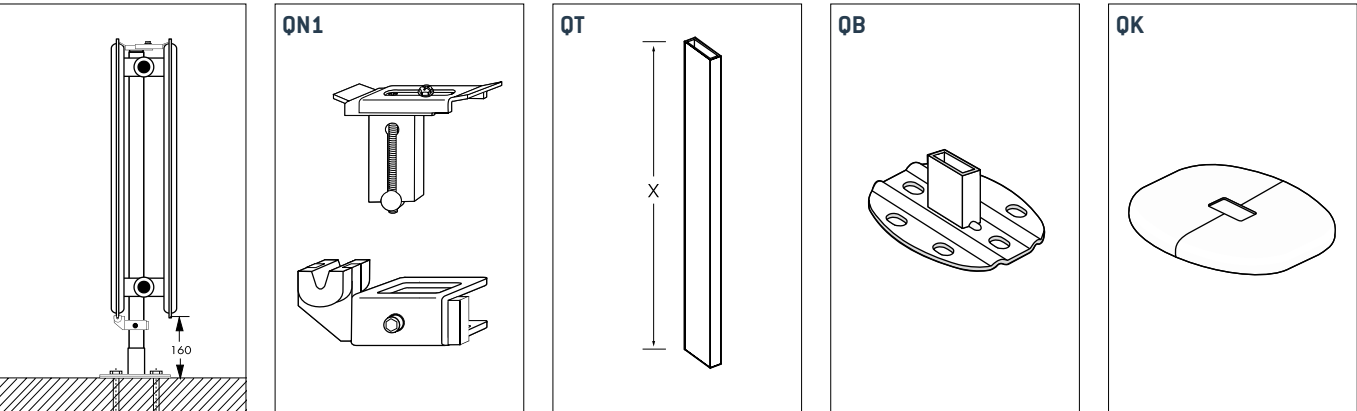


BRACKETS F7

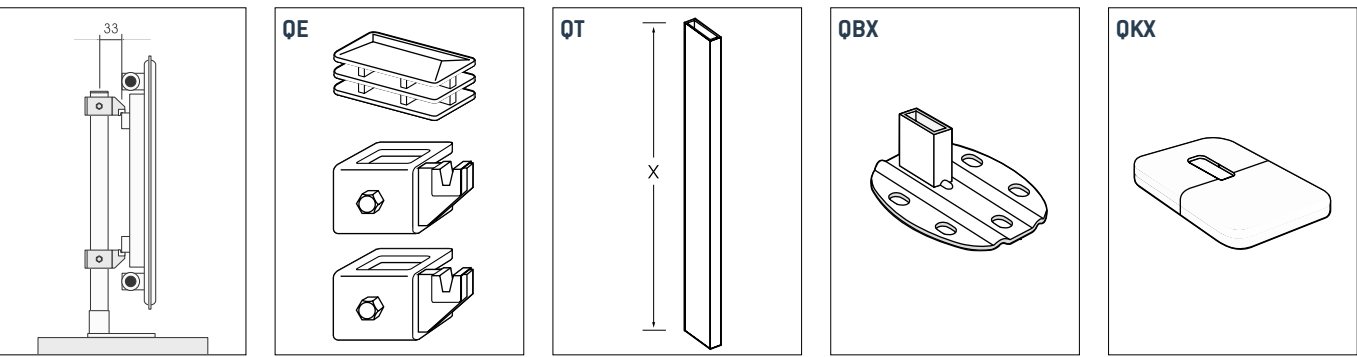


Floor brackets

KIT QT with QN1 For models Linear compact panel type 21 - 22 - 33, Linear PHD 2.0 Panel type 21 - 22 - 33, Linear Hygiene Compact panel type 20 - 30 and Linear Hygiene PHD 2.0 type 20 - 30



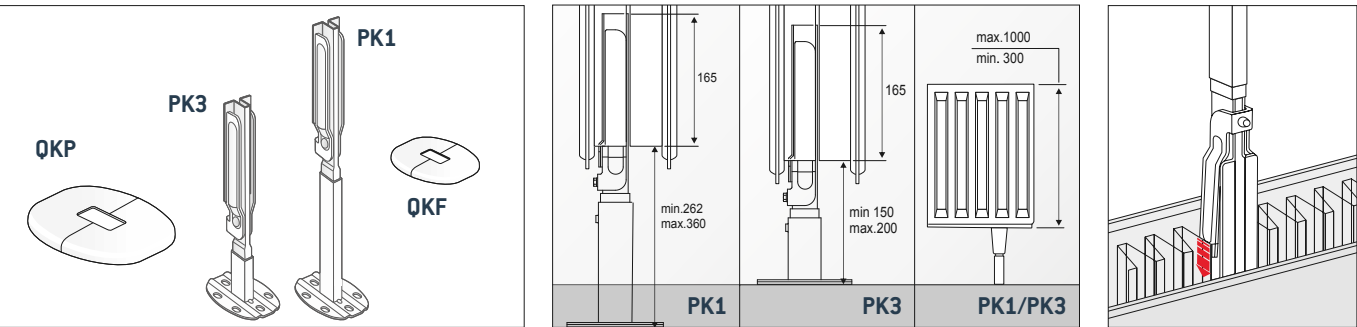
KIT QT with QE For models Linear Compact panel type 21 - 22 - 33, Linear PHD 2.0 Panel type 21 - 22 - 33, Linear Panel with central connection 21 - 22 - 33, Linear Hygiene Compact panel type 10 - 20 - 30 and Linear Hygiene PHD 2.0 10 - 20 - 30



Code	Description	Code	Description
552309	QT floor anchor 460mm (H=300)	552314	QT base for QB
552310	QT floor anchor 560mm (H=400)	5580013400	QKP base cover
552311	QT floor anchor 660mm (H=500)	552317	2 x QE fixing with tube cover
552312	QT floor anchor 760mm (H=600)	5580005700	QN1 fixing for type 20, 30
552649	QT floor anchor 860mm (H=700)		
552313	QT floor anchor 1060mm (H=900)		

radiators up to 1600 mm long: two kits required;
1800 mm long: three kits required

PK anchor For models Linear Compact panel type 21 - 22 - 33, Linear PHD 2.0 Panel type 21 - 22 - 33



5580103300	Kit 2 x PK3 adjustable feet + base cover QKP Height from floor adjustable from 150 - 200 mm	5580104400	Kit 2 x PK1 adjustable feet + base cover QKF Height from floor adjustable from 262 - 360 mm
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All the colours of warmth

PEARL SHINE



PEARL SHINE WHITE

••



PEARL SHINE SILVER

••



PEARL SHINE GOLD

••



PEARL SHINE COPPER

••

BRILLIANT



BRILLIANT STARS

•••



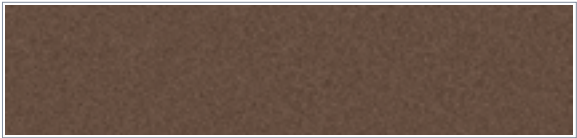
BRILLIANT DESERT ROSE

•••



BRILLIANT GREY

••



BRILLIANT CHOCOLATE

••



TITANIUM

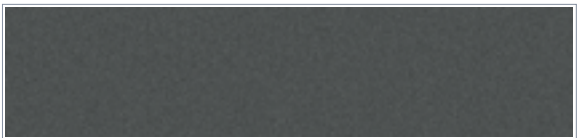
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ROUGH



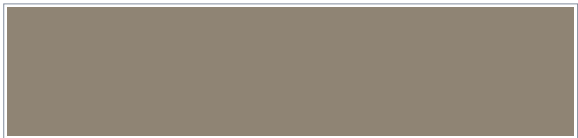
ROUGH VINTAGE

••



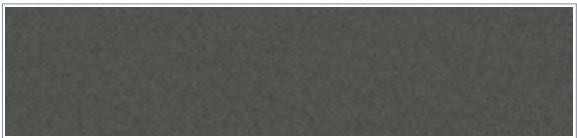
ROUGH DARK GREY

••



ROUGH TAUPE

••



ROUGH ANTHRACITE

••

REAL



REAL GYPSUM

••



REAL RED LEAF

••



REAL GOLD CURRY

••



REAL GREEN MINT

••

TEXTILE



SILKY GOLD

•••



SILKY VIOLET

•••

HAMMERED



HAMMERED COPPER

••



HAMMERED GREY

••

SPECIAL TEXTURE



INOX

•••



CORTEN

••

RAL



RAW STEEL

••



RAL 9010

gloss - satin - matt

•



RAL 1002

gloss - satin - matt

•



RAL 9016

gloss - satin - matt

•



RAL 1023

gloss - satin - matt

•



RAL 9001

gloss - satin - matt

•



RAL 1004

gloss

•



RAL 1013

gloss - satin - matt

•



RAL 1019

gloss - satin - matt

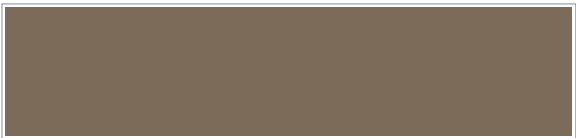
•



RAL 1015

gloss - satin - matt

•



RAL 7006

gloss - satin - matt

•

All the colours of warmth

RAL



RAL 9018 gloss - satin - matt •



RAL 7047 gloss - satin - matt •



RAL 7035 gloss - satin - matt •



RAL 7038 gloss - satin - matt •



RAL 7030 gloss - satin - matt •



RAL 7042 gloss - satin - matt •



RAL 8011 gloss - satin - matt •



RAL 8019 gloss - satin - matt •



RAL 9005 gloss - satin - matt •



RAL 7015 gloss - satin - matt •



RAL 7011 gloss - satin - matt •



RAL 7016 gloss - satin - matt •



RAL 7026 gloss - satin - matt •



RAL 5010 gloss - satin - matt •



RAL 6027 gloss - satin - matt •



RAL 3000 gloss - satin - matt •

Finishing can be custom made. DL Radiators can offer this option thanks to the new and advanced in-house painting line. Our customers will be able to choose between our wide range of colours divided into themed colour groups or their own colour (RAL) code for a unique product. In this way, we can satisfy any individual requirement and need, and do so in a short time.

Packaging and safety of the product

The following images are indicative of the packaging used for DL Radiators products.

Vertical transport



DL Radiators Plattella panels are packed with cardboard strips reinforced at the top and bottom and further reinforced by plastic corner elements to avoid damage to the corners. The complete packaging is covered with heat shrink tape for storage in damp conditions.

The images illustrate vertical and horizontal stacking on pallets (the stacking shown and pallets used in these photographs are not standard DL Radiators, nor exclusive, but merely illustrative. Palletising is part of commercial agreements).

Linear steel panels are packed with though cardboard strips at the top and bottom. On the front they are packed with cardboard and plasticfoam. Then they are finisched with heat shrink tape to protect from damp.

The accessories inlcuded in the packaging, if so, (brackets, screws, ecc.) are packed in plastic bag.

Horinzontal transport



Model	Pieces for pallett
30, 32, 33	7
22	10
21	11
20, 10, 11	14

Warranty

GENERAL CONDITIONS

The warranty conditions set forth in this section shall be valid for all products comprising the DL Radiators Srl range (otherwise denominated DLR). Any derogation from these conditions shall require DL Radiators' prior written consent.

WARRANTY

The supplier guarantees, starting from the invoice date, for a period of X years (the number of years guaranteed depends on the product category. Each Warranty period is shown at the beeginning of each product category):

- The good quality of the materials supplied
- The good workmanship of invoiced and supplied materials.

The supplier undertakes, within the warranty period, to repair or replace, at its own discretion, and on a gratuitous basis, those parts that, with respect to the specifications, exhibit material defects, construction faults or deformities, such as to render the component unsuitable for use. The supplier shall not accept other replacement costs.

The warranty shall take effect after the examination of the defects and their causes, by DLR and at the premises it shall indicated. New or repaired material shall be supplied EXW supplier's warehouse.

Any work forming part of the warranty shall not extend or renew the original warranty term.

WARRANTY INVALIDITY

- if the buyer does not comply with the agreed payment conditions;
- if a claim against warranty is not lodged within the terms indicated and in accordance to law;
- if the product is installed by unqualified persons and/or in a manner contrary to the supplier's instructions;
- if the use and/or maintenance of the system has not been carried out according to the suppliers' instructions.
- if the product has been tampered with by adjustments or repairs conducted without the supplier's prior written authorisation;
- if the products incurs accidental damage or damage caused by natural calamities;
- if the products incurs damages caused by shipping not organized by DL Radiators;
- if the presence of air and/or the lack of liquid in the circuit is detected;

RESERVATIONS

DLR reserves the rights to make modification to products, technical data and sizes at any time and without prior notice.

DLR shall remain proprietor of the product until such time as Customer makes full payment.

General sales conditions

The Customer implicitly accepts the following payment conditions when he receives the confirmation of the order by DL Radiators Srl.

PAYMENT CONDITIONS

- Unless contrary expressed agreement, delivery terms shall always be understood as approximate;
- Goods are transported at the Customer's own risk, even if sold carriage paid;
- Special packaging not otherwise provided for shall be invoiced separately;
- Delays in delivery attributable to the carrier shall not be the liability of DLR;
- Extraordinary events, natural calamities or other causes of force majeure shall release DL Radiators from any mandatory delivery terms.

TRANSPORT OF GOODS, PACKAGING AND CONSIGNMENT

- Unless contrary expressed agreement, delivery terms shall always be understood as approximate;
- Goods are transported at the Customer's own risk, even if sold carriage paid;
- Special packaging not otherwise provided for shall be invoiced separately;
- Delays in delivery attributable to the carrier shall not be the liability of DLR;
- Extraordinary events, natural calamities or other causes of force majeure shall release DL Radiators from any mandatory delivery terms.

CLAIMS AND RETURNED GOODS

- Claims for visible defects must be made within 8 days from the receipt of goods;
- For other defects the foregoing warranty conditions shall remain valid;
- The prices are subject to revision according to variations that may come into effect prior to delivery;
- No claims shall be accepted for goods altered or damaged by third parties or the Customer;
- Goods must be returned at the Customer's expense to DL Radiators Srl (or Moimacco UD or Fossalta di Piave VE - ITALY);
- DL Radiators Srl disclaims any obligation to replace its radiators for defects attributable to insufficient surveillance or irregular maintenance;
- The installer must take out insurance against any damage that water may determine.

TECHNICAL DATA

- The surface areas, performance, weights and all other data referring to the radiators, as stated in pricelists and catalogues, shall be understood as indicative and comprehend working tolerances that are not subject to price adjustments;
- DL Radiators Srl reserves the right to replace its radiator models without prior notice.

COURT WITH JURISDICTION

For any controversy the sole court with jurisdiction shall be the Court of Treviso (Italy), excluding any derogations.



RADIATORS

ITALIAN PREMIUM HEATING

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