

SDEN
森蒂恩 RADIATORS



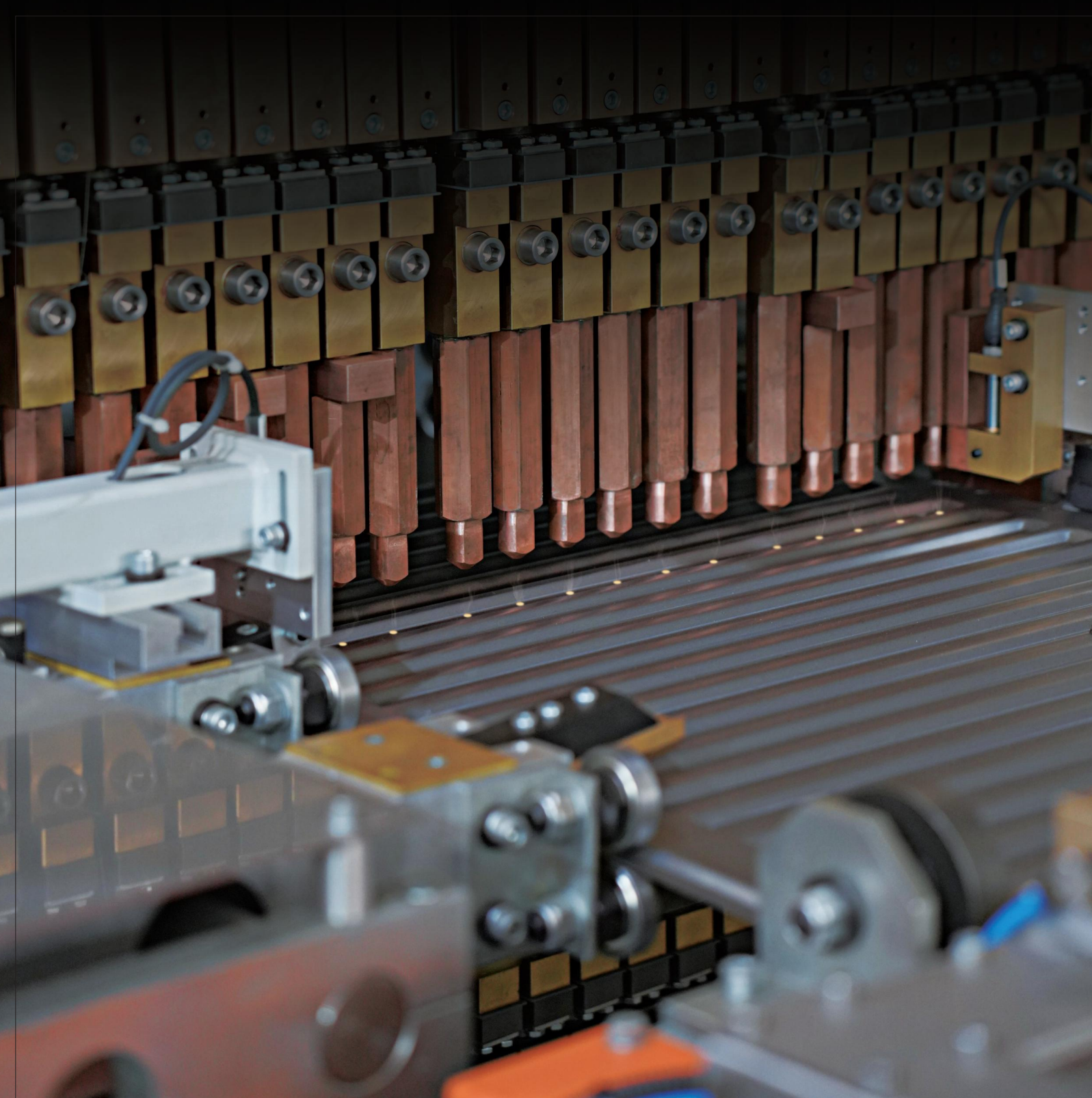
**Brand
radiator**
www.zjsdsy.com

SDEN
森蒂恩 RADIATORS



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2023 International

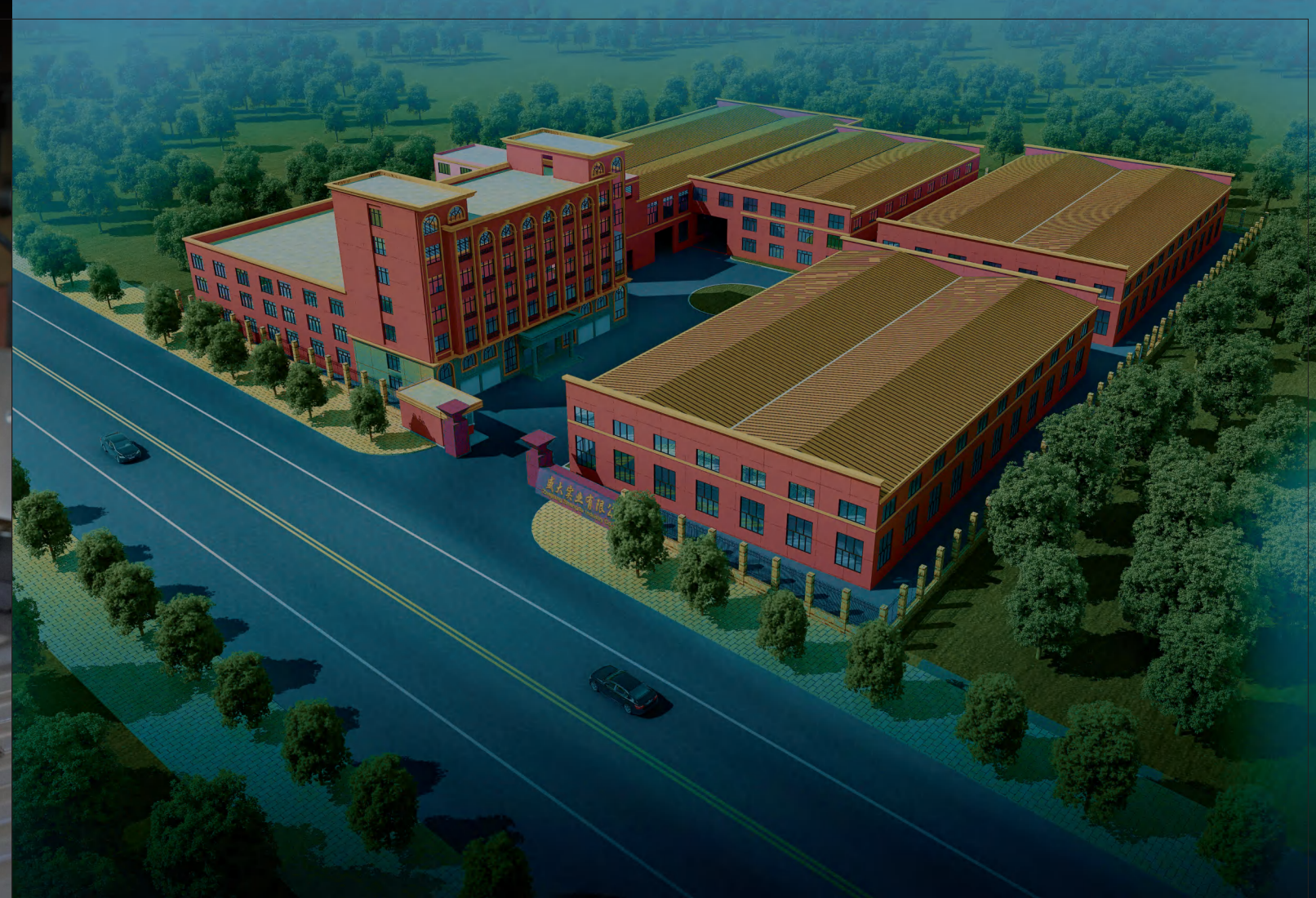


关于我们

浙江缙云盛大实业有限公司成立于1995年，坐落于浙江省省级工业园区——缙云县工业园，公司占地面积36500平方米，固定资产1.2亿元。是一家集研发、制造和营销为一体并具有自营进出口产权的散热器供应商。公司主要生产钢制板式散热器、铝制散热器和双金属散热器。产品远销海内外60多个国家和地区！

公司自创建以来，始终秉承“技术无止、管理无畏、文化无界、团结无敌”的企业经营准则，成功通过并实施 CE、ROHS、EN442、PPT和ISO9001:2000等多项管理体系。目前公司拥有两条全自动的LEAS钢板散热器生产线和全球领先的德国全自动电泳涂装线，1000万吨以上的铝合金铸造、CNC加工。

盛大以博大的胸怀容纳百川，以超人的毅力搏击商海。盛大坚信：千里之行始于足下！

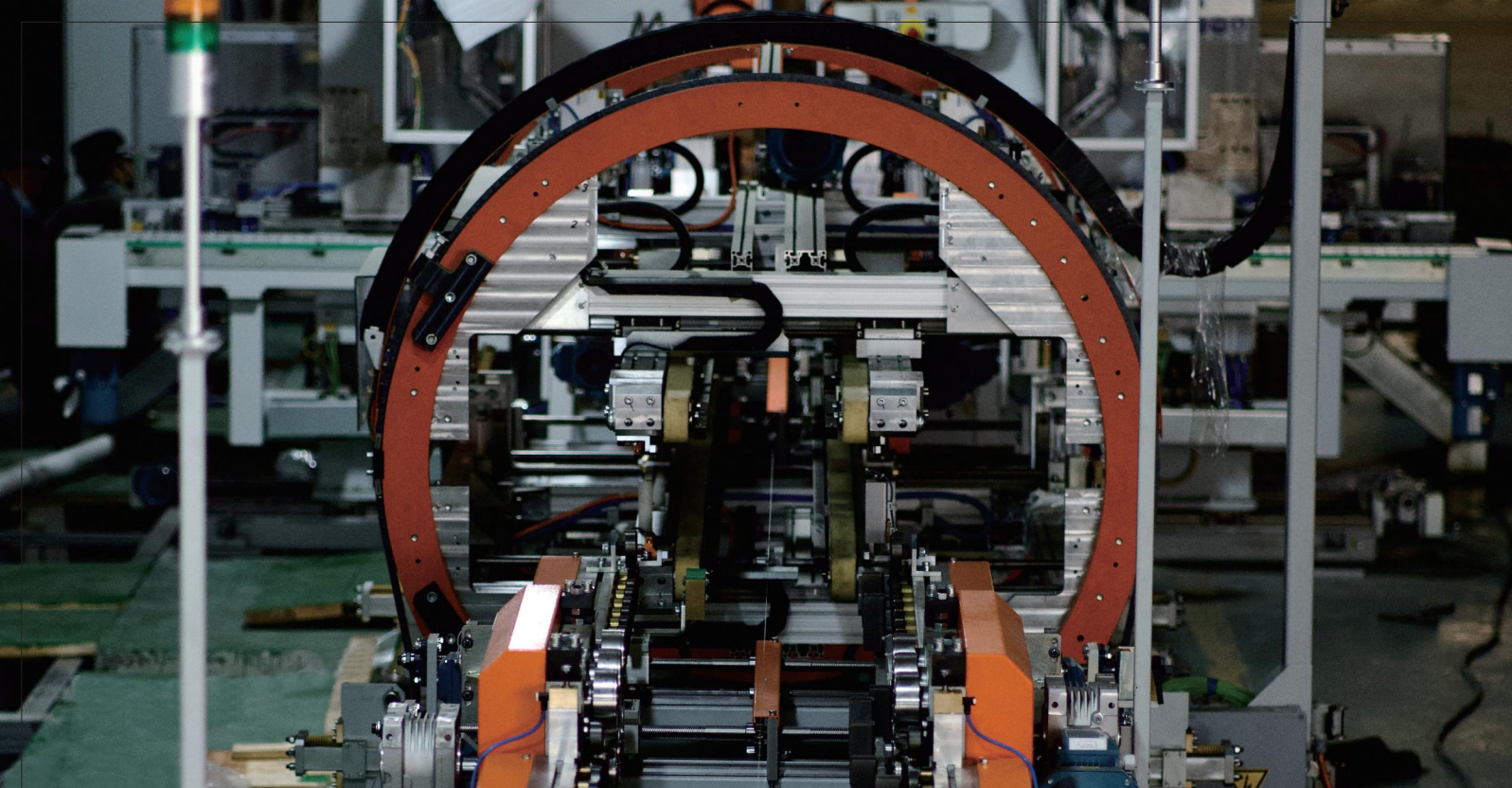


About Us

Zhejiang Jinyun Shengda Industry Co., Ltd. was established in 1995, located in Zhejiang provincial industrial zone – Jinyun Industrial Zone, the company covers an area of 36,500 square meters, fixed assets of 120 million Yuan. It is a research and development, manufacturing and marketing as one of the radiator suppliers with import and export rights. The company mainly produces steel panel radiators, aluminum radiators and bimetal radiators. Products are exported to more than 60 countries and regions domestic and abroad.

Since its establishment, Shengda has always been adhering to the "endless technology, fearless management, boundless culture, invincible unity" business principles, successfully passed and implemented CE, ROHS, EN442, PPT, ISO9001:2000 and other management systems. At present, the company has two fully automatic LEAS steel radiator production lines and the world's leading German fully automatic electrophoresis coating line, more than 10 million tons of aluminum alloy casting, CNC processing.

SDEN accepts a broad mind to superhuman will power fighting to the sea. And SDEN always believes a thousand miles begins with single step.



世界顶级焊接生产线

SDEN采用的是意大利进口的LEAS Super Line(超级线)。智能化高，无人值守。例如，一组常规尺寸的钢板型散热器Type22 H600*1000 mm，拥有1600多个焊点。这样精密的焊接工艺只有最先进的LEAS全自动焊接线才能够完美的完成。

The world's top welding production line

SDEN uses LEAS Super Line imported from Italy. High Intelligent, Unattended. For example, a group of regular-sized steel type radiators Type22 H600*1000mm has more than 1600 solder joints. Only the most advanced LEAS automatic welding line can perfectly complete such a precise welding process.



WAGNER German Spraying Equipment



Electrophoresis tank

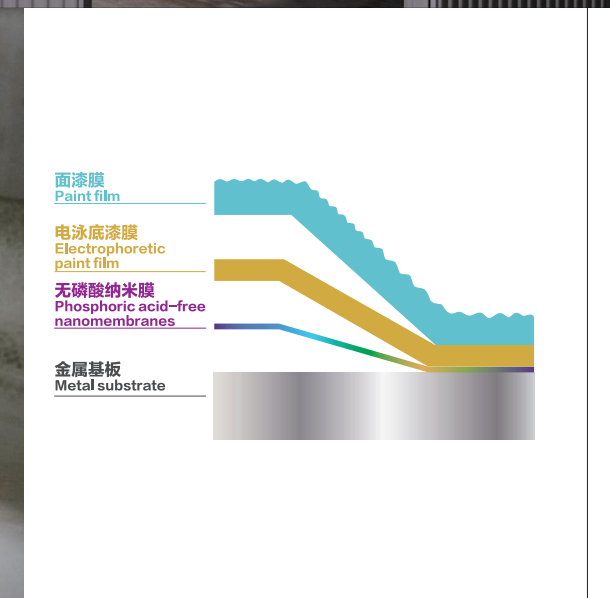


KTL电泳及涂装工艺

SDEN散热器采用的是汽车专用的第二代KTL电泳工艺，使散热器超强耐腐蚀，再采用表面环氧树脂粉末喷涂、200℃高温烘烤，漆膜色泽鲜亮丽，持久如新，是普通散热器三倍。

KTL electrophoresis process

SDEN radiator adopts the second generation of KTL electrophoresis technology for automobile, which makes the radiator super corrosion resistant, and then adopts the surface epoxy resin powder spraying, high temperature baking at 200℃, the paint film is bright and bright, lasting as new, three times as the ordinary radiator.



涂装前处理

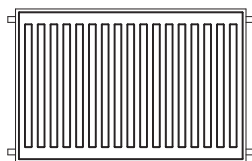
SDEN散热器在脱脂后采用无磷酸盐纳米膜处理技术，这项技术在散热器行业中首次采用，它增强了与油漆的结合力，其防腐性是酸洗磷化处理的2.5倍，大大延长了散热器的使用寿命。

Coating pretreatment

The SDEN radiator is degreased with a phosphate free nanofilm treatment, the first of its kind in the radiator industry, which enhances the adhesion to paint and is 2.5 times more resistant to corrosion than pickling phosphating, greatly extending the life of the radiator.

Classic Radiators

PG ISO9001:2015 CE EN 442 ROHS



Technical data: EN 442-1

Color: RAL 9010

Pressure of work(Max): 8 bar (Test pressure 13 bar)

Height: 300 / 400 / 500 / 550 / 600 / 900 mm

Length: 400-3000 mm

Connections: 4*1/2"

Model: Type11, Type22, Type33

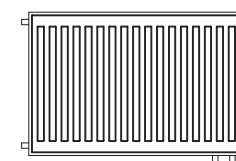
Surface treatmentr with SDEN five-step:

- ★ Degreasing
- ★ Phosphating
- ★ The second generation KTL electrophoretic primer is baked at 200 °C
- ★ Spraying of epoxy resin
- ★ Bake at 200 degrees.



Classic Ventil V6 Radiators

PG ISO9001:2015 CE EN 442 ROHS



Technical data: EN 442-1

Color: RAL 9010

Pressure of work(Max): 8 bar (Test pressure 13 bar)

Height: 300 / 400 / 500 / 550 / 600 / 900 mm

Length: 400-3000 mm

Connections: 6*1/2"

Model: Type11, Type22, Type33

Surface treatment with SDEN five-step:

- ★ Degreasing
- ★ Phosphating
- ★ The second generation KTL electrophoretic primer is baked at 200 °C
- ★ Spraying of epoxy resin
- ★ Bake at 200 degrees.



SDEN
森蒂恩 RADIATORS

GB/T 13754-2008(W)	T95°/70°/18°C
EN442(W)	T75°/65°/20°C
GB/T 13754-2008(W)	T75°/50°/18°C

H	L	300			
		Type 11	Type 21	Type 22	Type 33
400					
500					
600		492	657	809	1130
		365	472	594	801
		319	406	516	685
700		574	767	944	1318
		426	550	693	935
		372	473	602	799
800		656	876	1079	1506
		487	629	792	1068
		425	541	688	913
900		738	986	1214	1695
		548	707	891	1202
		478	608	774	1027
1000		820	1095	1349	1883
		609	786	990	1335
		531	676	860	1141
1100		902	1205	1484	2071
		670	864	1089	1469
		584	744	946	1255
1200		984	1314	1619	2260
		731	943	1188	1602
		637	811	1032	1369
1400		1148	1533	1889	2636
		852	1100	1386	1869
		743	946	1204	1597
1600		1312	1752	2158	3013
		974	1257	1584	2136
		850	1082	1376	1825
1800		1476	1971	2428	3389
		1096	1415	1782	2403
		956	1217	1548	2054
2000		1640	2190	2698	3766
		1218	1572	1980	2670
		1062	1352	1720	2282
2200		1804	2409	2968	4143
		1339	1729	2178	2937
		1168	1487	1892	2510
2400		1968	2628	3238	4519
		1461	1886	2376	3204
		1274	1622	2063	2738
2600		2132	2847	3507	4896
		1583	2043	2574	3471
		1381	1757	2235	2966
2800		2296	3066	3777	5272
		1705	2200	2772	3738
		1487	1893	2407	3195
3000		2460	3285	4047	5649
		1827	2358	2970	4005
		1593	2028	2579	3423

400			
Type 11	Type 21	Type 22	Type 33
652	845	1020	1456
472	607	733	1032
407	522	630	882
760	986	1190	1698
550	709	855	1204
474	609	734	1029
869	1127	1360	1941
629	810	977	1376
542	696	839	1175
977	1268	1530	2183
707	911	1099	1548
610	782	944	1322
1086	1409	1700	2426
786	1012	1221	1720
678	869	1049	1469
1195	1550	1870	2669
865	1114	1343	1892
745	956	1154	1616
1303	1691	2040	2911
943	1215	1465	2064
813	1043	1259	1763
1520	1972	2380	3396
1100	1417	1710	2408
949	1217	1469	2057
1738	2254	2720	3882
1257	1620	1954	2752
1084	1391	1679	2351
1955	2536	3060	4367
1415	1822	2198	3097
1220	1565	1889	2645
2172	2818	3400	4852
1572	2025	2442	3441
1355	1739	2098	2939
2389	3100	3740	5337
1729	2227	2686	3785
1491	1913	2308	3233
2606	3381	4080	5822
1886	2430	2931	4129
1626	2087	2518	3526
2824	3663	4420	6307
2043	2632	3175	4473
1762	2260	2728	3820
3041	3945	4760	6793
2201	2835	3419	4817
1897	2434	2938	4114
3258	4227	5100	7278
2358	3037	3663	5161
2033	2608	3148	4408

500			
Type 11	Type 21	Type 22	Type 33
782	993	1244	1769
566	713	900	1254
488	613	776	1071
912	1159	1451	2063
660	832	1050	1463
569	715	906	1250
1042	1324	1658	2358
754	951	1200	1671
650	817	1035	1428
1172	1490	1865	2653
849	1069	1350	1880
731	919	1164	1607
1303	1655	2073	2948
943	1188	1500	2089
813	1021	1294	1785
1433	1821	2280	3242
1037	1307	1650	2298
894	1124	1423	1964
1563	1986	2487	3537
1131	1426	1800	2507
975	1226	1552	2142
1824	2317	2902	4127
1320	1664	2100	2925
1138	1430	1811	2499
2084	2649	3316	4716
1509	1901	2401	3343
1300	1634	2070	2856
2345	2980	3731	5306
1697	2139	2701	3761
1463	1839	2329	3213
2605	3311	4145	5895
1886	2377	3001	4179
1626	2043	2587	3571
2866	3642	4560	6485
2074	2614	3301	4597
1788	2247	2846	3928
3126	3973	4974	7074
2263	2852	3601	5014
1951	2451	3105	4285
3387	4304	5389	7664
2452	3090	3901	5432
2113	2656	3363	4642
3647	4635	5803	8253
2640	3327	4201	5850
2276	2860	3622	4999
3908	4966	6218	8843
2829	3565	4501	6268
2438	3064	3881	5356

GB/T 13754-2008(W)	T95°/70°/18°C
EN442(W)	T75°/65°/20°C
GB/T 13754-2008(W)	T75°/50°/18°C

H	L	550			
		Type 11	Type 21	Type 22	Type 33
400					
500					
600		833	1085	1365	1899
		605	778	989	1347
		522	668	853	1151
700		972	1266	1593	2216
		706	908	1154	1571
		609	779	995	1342
800		1111	1447	1821	2532
		806	1037	1318	1795
		696	891	1137	1534
900		1250	1628	2048	2849
		907	1167	1483	2020
		783	1002	1279	1726
1000		1389	1809	2276	3166
		1008	1297	1648	2244
		870	1113	1421	1918
1100		1528	1990	2503	3482
		1109	1426	1813	2469
		957	1225	1563	2109
1200		1667	2171	2731	3799
		1210	1556	1977	2693
		1044	1336	1706	2301
1400		1945	2532	3186	4432
		1411	1815	2307	3142
		1218	1559	1990	2685
1600		2222	2894	3641	5065
		1613	2075	2637	3591
		1392	1781	2274	3068
1800		2500	3256	4096	5698
		1814	2334	2966	4040
		1566	2004	2558	3452
2000		2778	3618	4552	6331
		2016	2593	3296	4489
		1740	2227	2843	3835
2200		3056	3979	5007	6964
		2218	2853	3625	4938
		1914	2449	3127	4219
2400		3334	4341	5462	7597
		2419	3112	3955	5386
		2088	2672	3411	4602
2600		3611	4703	5917	8230
		2621	3371	4284	5835
		2262	2895	3695	4986
2800		3889	5065	6372	8864
		2822	3631	4614	6284
		2436	3117	3980	5369
3000		4167	5426	6827	9497
		3024	3890	4944	6733
		2610	3340	4264	5753

600			
Type 11	Type 21	Type 22	Type 33
590	785	992	1353
429	562	718	960
371	482	620	820
738	981	1239	1692
537	702	898	1200
464	603	775	1025
885	1177	1487	2030
644	843	1077	1440
556	723	929	1230
1033	1374	1735	2368
751	983	1257	1680
649	844	1084	1435

High Convector

PG ISO9001:2015 CE EN 442 ROHS



Technical data: EN 442-1
Color: RAL 9010
Pressure of work(Max): 8 bar (Test pressure 13 bar)
Height: 300 / 400 / 500 / 550 / 600 / 900 mm
Length: 400-3000mm
Model: Type11, Type22, Type33

High Heat Output
More Energy Saving

Panel Plus Radiators

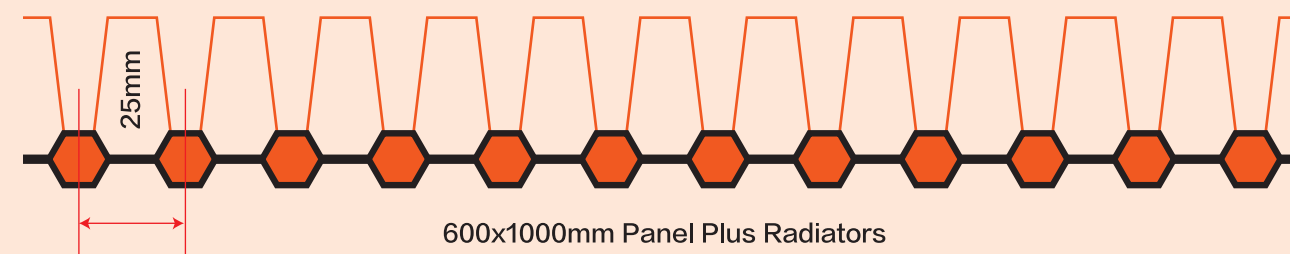
25mm

Give out 12-18% more heat than ordinary radiator at the same size.



Hi efficiency-Lo Water Content
Hi Performance-Lo Heat-up time
Hi output-Lo Carbon footprint.

Technical data: EN 442-1
Color: RAL 9010
Pressure of work(Max): 8 bar (Test pressure 13 bar)
Height: 300 / 400 / 500 / 550 / 600 / 900 mm
Length: 400-3000mm
Model: Type11, Type22, Type33



Output ($\Delta t=50^{\circ}\text{C}$)
2010w
More heat



LESS
Water to heat



FASTER
Heat-up time



SMALLER
Carbon footprint



LOWER
Running cost



Vertical Radiators

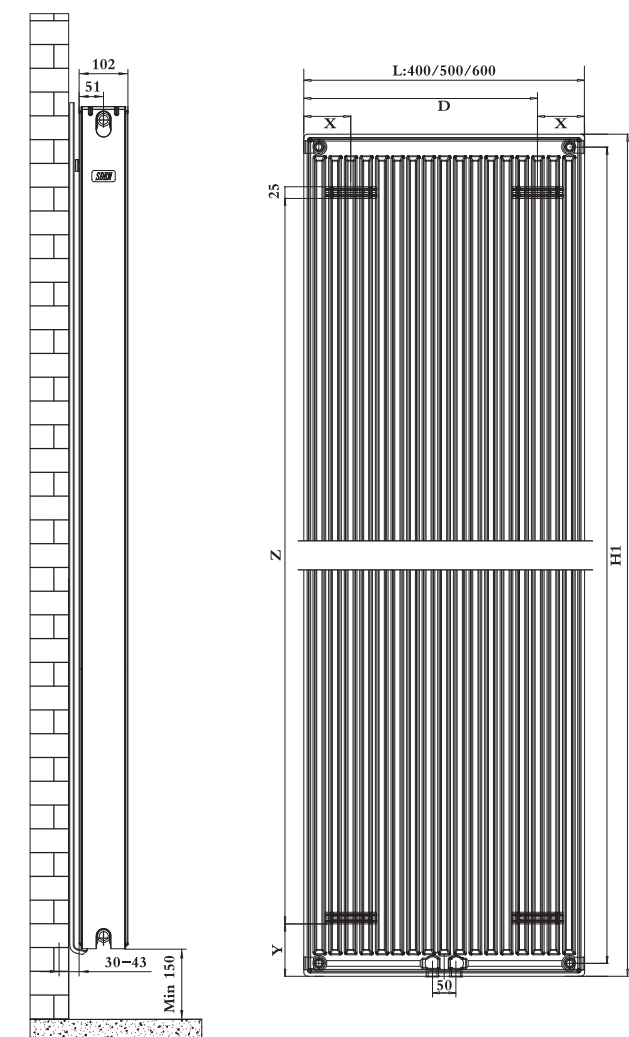
PG ISO9001:2015 CE EN 442 ROHS

Technical data: EN 442-1
 Color: RAL 9010
 Pressure of work(Max): 10 bar (Test pressure 13 bar)
 Height: 1200 / 1400 / 1600 / 1800 / 2000 / 2200mm
 Length: 400 / 500 / 600 mm
 Connections: 4*1/2" 6*1/2"
 Model: Type10, Type11, Type20, Type21, Type22

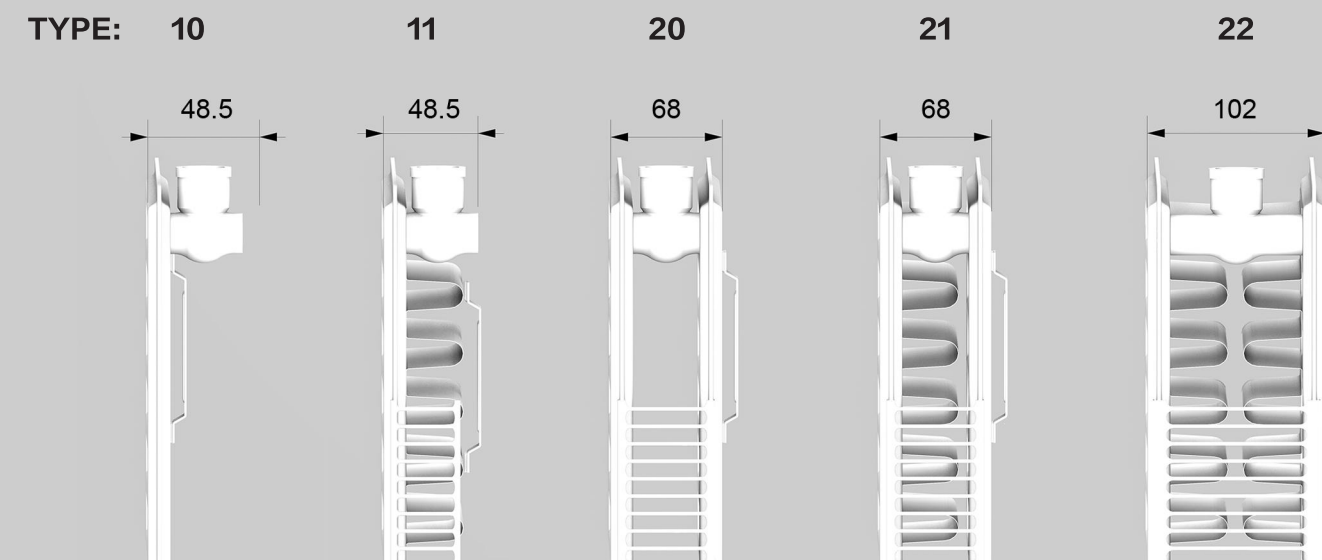
GB/T 13754-2008(W)	T95/70/18°C
EN442(W)	T75/65/20°C
GB/T 13754-2008(W)	T75/50/18°C

Specification

H L	1600					1800				
	10	11	20	21	22	10	11	20	21	22
400	872	1105	1208	1558	1864	965	1221	1343	1625	1930
	684	880	1058	1236	1481	760	971	1169	1359	1616
	588	756	909	1063	1274	654	835	1005	1168	1389
500	1090	1381	1510	1947	2331	1206	1526	1679	2031	2412
	856	1100	1322	1546	1852	950	1214	1461	1699	2020
	736	946	1137	1329	1592	817	1044	1256	1461	1737
600	1307	1657	1811	2336	2797	1447	1831	2015	2437	2894
	1027	1320	1586	1855	2222	1140	1456	1753	2038	2423
	883	1135	1364	1595	1910	980	1252	1507	1753	2084

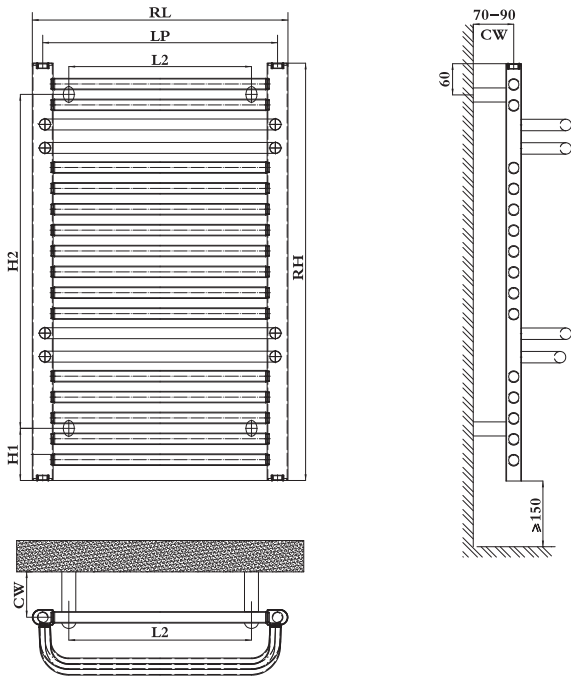


PG ISO9001:2015 CE EN 442 ROHS





Bathroom Radiators



RH [mm]	H1 [mm]	H2 [mm]	CW [mm]
800	100	640	70-90
800	100	640	70-90
1000	100	800	70-90
1000	100	800	70-90
1200	100	1000	70-90

Specification

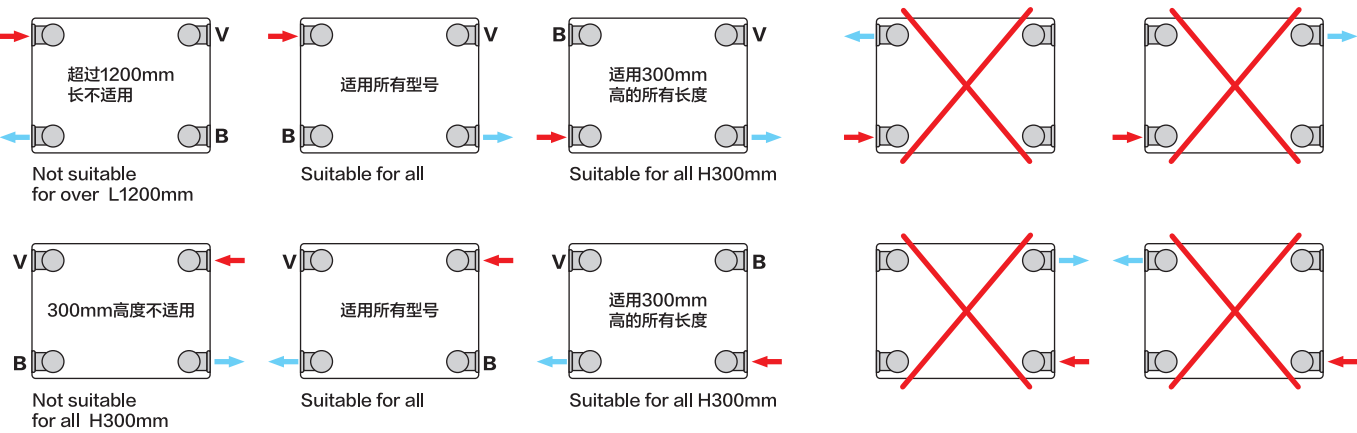
Code	RL [mm]	LP [mm]	L2 [mm]	Pipe Quantity [dm ³]	Output 75/65/20°C	Output 95/70/18°C
SDBR 08040	440	400	300	19(2-2-8-2-5)	343	545
SDBR 08045	490	450	350	19(2-2-8-2-5)	390	620
SDBR 10040	440	400	300	24(3-2-12-2-5)	477	758
SDBR 10045	490	450	350	24(3-2-12-2-5)	531	844
SDBR 12045	490	450	350	29(4-2-16-2-5)	630	1002

Technical data: EN 442-1
Color: RAL9010
Pressure of work(Max): 8 bar (Test pressure 13 bar)
Maximum operating water temperature: 95°C
Horizontal pipe: Ø22mm
Vertical pipe:Type-D 40x40/40x35/40x30mm
Connections: 4*1/2" /3/4"

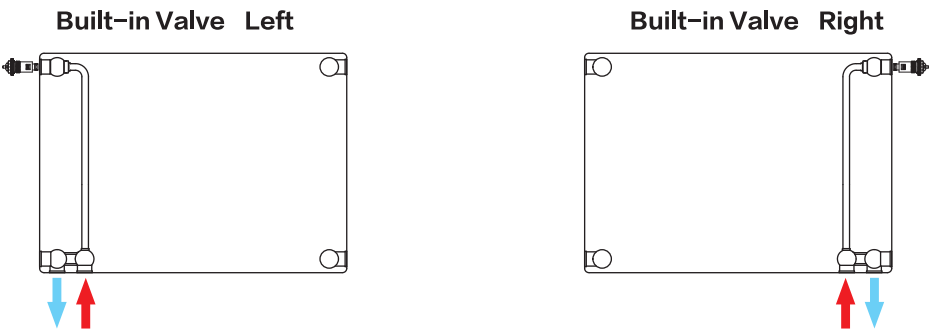
C Series Connection - No Built-in Valve

C系列经典款适用连接方式

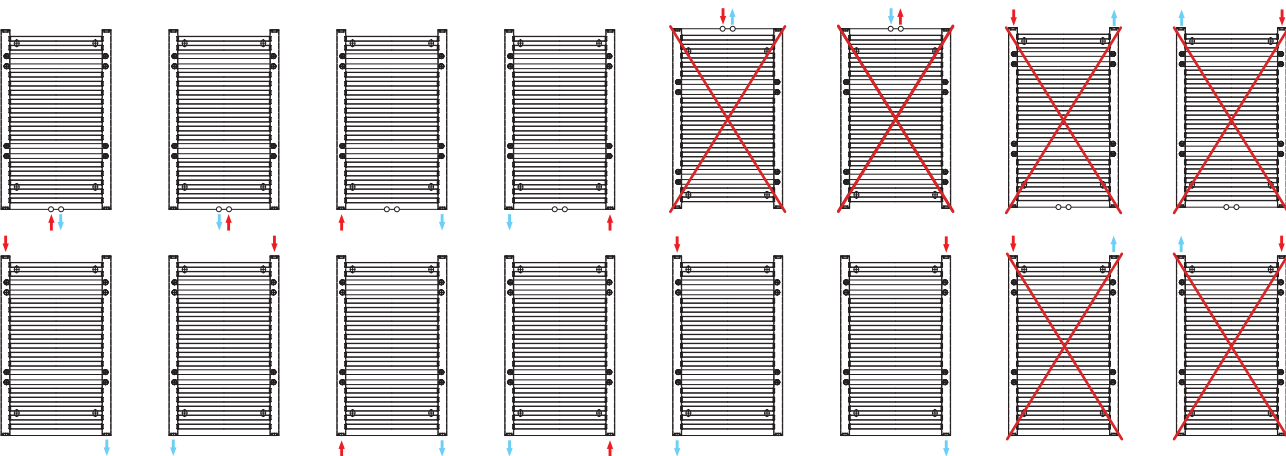
V=Vent B=Blind
V=排气阀 B=堵头



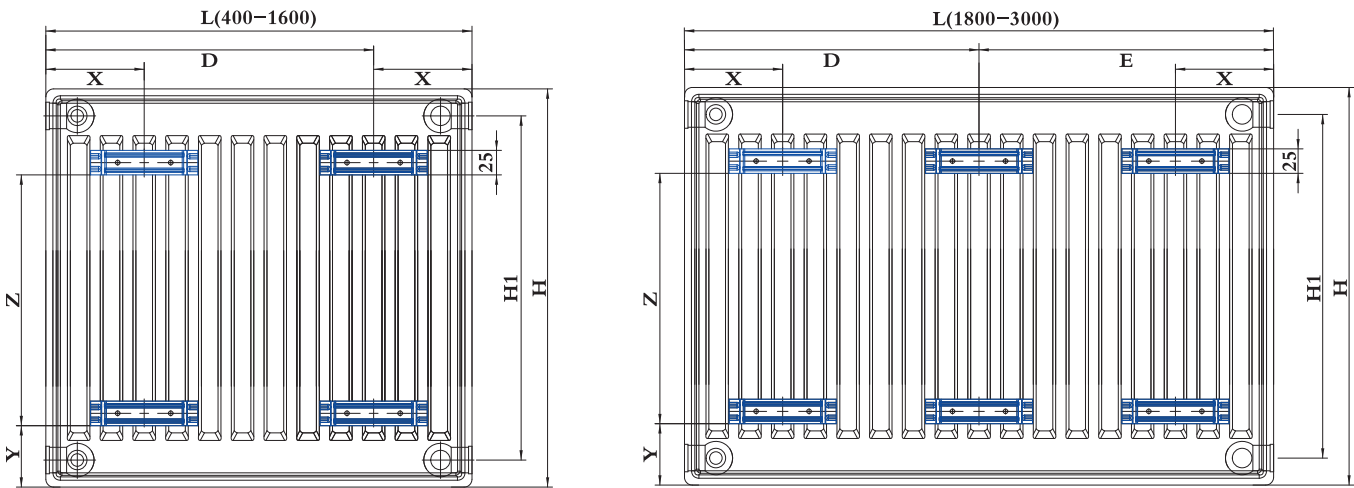
CV Series Connection - Built in Valve CV底进底系列内置阀芯适用连接方式



Towel Rack Connection 毛巾架系列适用连接方式



C Series Suspension Bracket C系列经典款挂架参数



For radiators longer than 1600mm, each group of radiators will be equipped with three groups of wall mounting supports.

长度超过1600mm散热器每组需要配备3组壁挂支架。

L(MM)	TYPE/11			挂架数量 Bracket
	X(mm)	D(mm)	E(mm)	
400MM	117	283		2
500MM	117	383		2
600MM	117	483		2
700MM	117	583		2
800MM	117	683		2
900MM	117	783		2
1000MM	117	883		2
1100MM	117	983		2
1200MM	117	1083		2
1400MM	117	1283		2
1600MM	117	1483		2
1800MM	117	883	917	3
2000MM	117	983	1017	3
2200MM	117	1083	1117	3
2600MM	117	1283	1317	3
3000MM	117	1483	1517	3

L(MM)	TYPE/10-21-22-33			挂架数量 Bracket
	X(mm)	D(mm)	E(mm)	
400MM	100	300		2
500MM	100	400		2
600MM	100	500		2
700MM	100	600		2
800MM	100	700		2
900MM	100	800		2
1000MM	100	900		2
1100MM	100	1000		2
1200MM	100	1100		2
1400MM	100	1300		2
1600MM	100	1500		2
1800MM	100	900	900	3
2000MM	100	1000	1000	3
2200MM	100	1100	1100	3
2600MM	100	1300	1300	3
3000MM	100	1500	1500	3

HEIGHT OF RADIATOR	305	405	505	555	605	655	705	905	1600	1800
H1(mm)G1/2 G3/4	250	350	450	500	550	600	650	850	1550	1750
Y(mm)	63	112	112	112	112	112	112	112	112	112
Z(mm)	155	155	255	305	355	405	455	655	1355	1555