



Merriott

Primo Plus



What does Merriott stand for?

Our bespoke heating and cooling solutions are the better choice for commercial applications across the UK and Ireland.

Merriott offers a diverse and versatile range of designer heating solutions.

Whether they are building consultants, architects or designers, our customers can tailor our bespoke range of products to satisfy their specification requirements.

We have invested in world-class production facilities and manufacture products of the very highest standard - backed by revolutionary technology, rigorous testing and stringent quality control.

As a company, we have an unwavering commitment to innovation and sustainability, pioneering products that lead the way in design, performance and energy efficiency.

Underpinning all of this is our relationship with our customers: ensuring they can rely on best-in-class service and support, from specification right through to delivery.

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Range Overview

The Merriott Primo Plus range comprises of single, double and triple panel radiators with grilles and side panels, in vertical and horizontal options. The horizontal ranges are available in heights from 300mm - 900mm and lengths from 400mm - 2400mm. The vertical ranges are available in 2 heights 1800mm and 1950mm and lengths from 300mm - 750mm.

OUTPUTS

All Merriott Primo Plus radiators are manufactured and tested in accordance with EN442.

FINISH

Every Merriott Primo Plus radiator undergoes an intensive pre-treatment process to protect against rust. In pre-treatment, the radiators are degreased, coated with iron phosphate and rinsed prior to painting. A cathodic electrodeposition primer coating is then applied to give total coverage of the bare steel and maximum corrosion protection. The durable topcoat (epoxy polyester powder) is electrostatically applied and stove enamel baked at 180 °C. The process is monitored to ensure continuous achievement of optimum adhesion, opacity and gloss levels.

PACKAGING

The entire surface of the radiator, including all 4 corners, is protected by cardboard box ends and shrink wrapped using 100% recyclable film.

CONNECTIONS

Horizontal: Standard connections are 4 x 1/2" BSP ABCD connections.

Vertical: 4 x G 1/2" bottom connections, 2 x G 1/2" top connections - for mounting plug and air vent.

TESTING

All Primo Plus radiators are tested to 13 Bar with a maximum working pressure of 10 Bar.

BRACKETS

As standard, Merriott supply Primo Plus radiators with strip brackets.

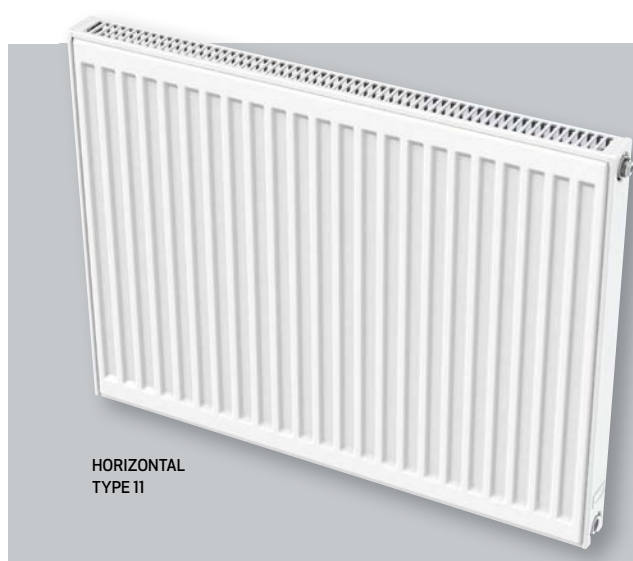
BRACKET LUGS

Two pairs of lugs are fitted on radiators up to and including 1600mm long. A third pair of lugs is fitted centrally on radiators that are 1800mm long and over.

WARRANTY

Merriott radiators are guaranteed for a period of 10 years from date of purchase in respect of defective materials and workmanship. The system should be designed in accordance with British Standard Code of Practice for Water Based Heating Systems in Buildings **BS EN 12828:2012+A1:2014** and **BS EN 12831: 2003**.

The installation and commissioning of the system should comply with **BS EN 14336:2004**. On completion of the installation, the system should be properly flushed and filled in accordance with the British Code of Practice for the Treatment of Water in Domestic Hot Water Central Heating Systems **BS 7593:2006**, Part L of Building Regulations and Good Practice Guidance for Scotland. Merriott strongly recommends the use of corrosion inhibitor for all applications. Failure to observe these standards may invalidate the manufacturer's warranty.



HORIZONTAL
TYPE II



TYPE 21



TYPE 22



TYPE 33



VERTICAL
TYPE 21

Heat Outputs

Horizontal models - Heights: 300, 400 & 500mm

TYPE 11



TYPE 21



TYPE 22



TYPE 33



Nominal Height (mm)	Length (mm)	Single Panel Single Fin			Double Panel Single Fin			Double Panel Double Fin			Triple Panel Triple Fin		
		'n'	Watts $\Delta T50$	Watts $\Delta T30$	'n'	Watts $\Delta T50$	Watts $\Delta T30$	'n'	Watts $\Delta T50$	Watts $\Delta T30$	'n'	Watts $\Delta T50$	Watts $\Delta T30$
300	400	1.3	218	113	1.29	-	-	1.31	-	-	1.31	-	-
	600		328	169		457	238		577	295		808	413
	800		-	-		-	-		769	394		-	-
	1000		546	281		761	396		961	492		1347	688
	1200		-	-		-	-		-	-		1616	826
	1400		764	393		1065	554		1345	689		1886	964
	1800		983	506		-	-		1730	886		2425	1239
	2000		1092	562		1370	713		1922	984		2694	1377
400	2400		1310	674		-	-		2306	1181		-	-
	500	1.3	356	183	1.3	482	249	1.32	611	312	-	-	-
	600		427	220		578	298		733	374		-	-
	700		498	256		674	348		855	436		-	-
	800		569	292		770	398		977	498		-	-
	900		640	329		867	447		1099	561		-	-
	1000		711	365		963	497		1221	623		-	-
	1100		782	402		1059	547		1343	685		-	-
	1200		853	438		1156	596		1465	748		-	-
	1300		924	475		1252	646		1587	810		-	-
	1400		995	512		1348	696		1709	872		-	-
500	1600		1138	585		1541	795		1954	997		-	-
	1800		1280	658		1733	895		2198	1121		-	-
	400	1.31	347	178	1.31	462	237	1.33	588	298	1.34	-	-
	500		434	223		578	296		735	373		-	-
	600		521	268		694	355		882	448		1221	617
	700		608	312		809	414		1029	522		1425	720
	800		694	357		925	474		1176	597		1628	822
	900		781	401		1040	533		1323	671		1832	925
	1000		868	446		1156	592		1470	746		2035	1028
	1100		955	491		-	-		1617	821		2239	1131
	1200		1042	535		1387	710		1764	895		2442	1234
	1300		1128	580		-	-		1911	970		-	-
	1400		1215	624		1618	829		2058	1044		2849	1439
	1500		1302	669		-	-		2205	1119		-	-
	1600		1389	714		1850	947		2352	1194		3256	1645
	1800		1562	803		2081	1066		2646	1343		3663	1850
	2000		1736	892		-	-		2940	1492		4070	2056
	2300		-	-		-	-		-	-		4681	4681
	2400		2083	1070		-	-		3528	1790		-	-

NOTE:

All outputs are in accordance with EN442 certification.

'n' = average exponent value.

For outputs at other ΔT 's please see calculation example on page 11.

Heat Outputs

Horizontal models - Heights: 600, 750 & 900mm

TYPE 11



TYPE 21



TYPE 22



TYPE 33



Nominal Height (mm)	Length (mm)	Single Panel Single Fin			Double Panel Single Fin			Double Panel Double Fin			Triple Panel Triple Fin		
		'n'	Watts $\Delta T50$	Watts $\Delta T30$	'n'	Watts $\Delta T50$	Watts $\Delta T30$	'n'	Watts $\Delta T50$	Watts $\Delta T30$	'n'	Watts $\Delta T50$	Watts $\Delta T30$
600	400	1.31	407	208	1.32	536	273	1.34	684	346	1.35	942	473
	500		509	261		670	342		855	432		1178	592
	600		611	313		804	410		1025	518		1414	710
	700		713	365		938	478		1196	605		1649	828
	800		814	417		1072	546		1367	691		1885	946
	900		916	469		1206	615		1538	778		2120	1065
	1000		1018	521		1340	683		1709	864		2356	1183
	1100		1120	574		1474	751		1880	950		2592	1301
	1200		1222	626		1608	820		2051	1037		2827	1420
	1300		1323	678		1742	888		2222	1123		-	-
	1400		1425	730		1876	956		2393	1210		3298	1656
	1600		1629	834		2144	1093		2734	1382		3770	1893
	1800		1832	938		2412	1229		3076	1555		4241	2129
	2000		2036	1043		-	-		3418	1728		4712	2366
750	2300		-	-		-	-		-	-		5419	2721
	2400		2240	1251		-	-		4102	2074		-	-
	400	1.31	492	251	1.33	642	326	1.35	822	414	1.35	1127	564
	500		615	314		803	407		1028	517		1409	705
	600		738	377		964	488		1233	620		1691	847
	700		861	440		1124	570		1439	724		1973	988
	800		984	502		1285	651		1644	827		2254	1129
	900		1107	565		1445	733		1850	931		2536	1270
	1000		1230	628		1606	814		2055	1034		2818	1411
	1200		1476	754		1927	977		2466	1241		3382	1693
	1400		1722	879		2248	1140		2877	1448		3945	1975
	1600		1968	1005		2570	1302		3288	1653		-	-
900	400	-	-	-	-	-	-	-	-	-	1.36	1304	651
	500		-	-		-	-		-	-		1630	814
	600		-	-		-	-		-	-		1956	976
	700		-	-		-	-		-	-		2282	1139
	800		-	-		-	-		-	-		2608	1302
	900		-	-		-	-		-	-		2934	1465
	1000		-	-		-	-		-	-		3260	1627
	1200		-	-		-	-		-	-		3912	1953
	1400		-	-		-	-		-	-		4564	2278

Vertical models

TYPE 10



TYPE 20



TYPE 21



TYPE 22



Nominal Height (mm)	Length (mm)	Single Panel			Double Panel			Double Panel Single Fin			Double Panel Double Fin		
		'n'	Watts $\Delta T50$	Watts $\Delta T30$	'n'	Watts $\Delta T50$	Watts $\Delta T30$	'n'	Watts $\Delta T50$	Watts $\Delta T30$	'n'	Watts $\Delta T50$	Watts $\Delta T30$
1800	300	-	-	-	1.29	904	468	1.31	1036	531	1.31	1197	613
	450	1.28	852	443	1.30	1303	671	1.32	1526	779	1.32	1774	905
	600	1.29	1102	571	1.31	1689	866	1.32	2009	1022	1.32	2345	1193
	750	1.30	1346	694	1.32	2065	1054	1.33	2486	1261	1.33	2912	1476
1950	300	-	-	-	1.29	968	500	1.31	1108	567	1.31	1268	649
	450	1.28	919	477	1.30	1395	718	1.32	1632	832	1.31	1879	960
	600	1.29	1189	615	1.31	1807	926	1.33	2148	1091	1.32	2484	1266
	750	1.30	1452	748	1.32	2210	1128	1.33	2658	1345	1.33	3084	1567

NOTE:

All outputs are in accordance with EN442 certification.

'n' = average exponent value.

For outputs at other ΔT 's please see calculation example on page 11.

Weights and Water Contents

Horizontal models

Weights & Water Contents per Metre Length												
Type	Nominal Height (mm)											
	300		400		500		600		750		900	
	Weight (kg)	Water Content (l)	Weight (kg)	Water Content (l)	Weight (kg)	Water Content (l)	Weight (kg)	Water Content (l)	Weight (kg)	Water Content (l)	Weight (kg)	Water Content (l)
11	9.0	1.7	12.1	2.1	15.3	2.6	18.2	3.0	23.5	3.9	-	-
21	14.7	3.4	19.5	4.3	24.5	5.2	29.2	6.2	35.3	7.8	-	-
22	17.2	3.4	22.5	4.3	28.3	5.2	34.0	6.2	42.1	7.6	-	-
33	24.9	5.1	-	-	41.7	8.3	50.1	9.8	69.6	11.5	94.7	16.6

Vertical models

Weights & Water Contents									
Nominal Height (mm)	Length (mm)	Single Panel		Double Panel		Double Panel Single Fin		Double Panel Double Fin	
		Weight (kg)	Water Content (l)	Weight (kg)	Water Content (l)	Weight (kg)	Water Content (l)	Weight (kg)	Water Content (l)
1800	300	-	-	24.2	4.8	25.8	4.8	28.6	4.9
	450	15.9	3.8	33.9	7.2	37.3	7.8	41.2	7.3
	600	20.9	4.9	43.7	9.7	28.9	10.4	53.8	9.7
	750	25.9	6.1	53.5	12.1	60.5	13.0	66.4	12.2
1950	300	-	-	26.1	4.8	27.8	5.2	30.6	5.3
	450	17.2	4.1	36.7	7.8	40.2	7.9	44.0	7.9
	600	22.6	5.4	47.4	10.4	52.6	10.6	57.4	10.5
	750	28.1	6.7	58.0	13.0	65.0	13.3	70.9	13.1

Accessories

Vertical models

Product	Type	Finish	Order Code	
Vertical Valve Set with Design Cover*	Angled	WHITE	EZ13TP0048008330	
		CHROME	EZ13TP004800853SCHRO	
		MATT STAINLESS STEEL	EZ13TP004800873S0112	
	Straight	WHITE	EZ13TP0048008430	
		CHROME	EZ13TP004800863SCHRO	
		MATT STAINLESS STEEL	EZ13TP004800883S0112	
Vertical Valve Set*	Angled	WHITE	EZIXTPS9037005N0	
		CHROME	EZIXTPS9037005NSCHRO	
		MATT ANTHRACITE GREY	EZIXTPS9037005NS0022	
		MATT JET BLACK	EZIXTPS9037005NS0029	
	Straight	WHITE	EZIXTPS9037004N0	
		CHROME	EZIXTPS9037004NSCHRO	
		MATT ANTHRACITE GREY	EZIXTPS9037004NS0022	
		MATT JET BLACK	EZIXTPS9037004NS0029	
Vertical Valve Set VHX-D/RAX*	Angled	WHITE	EZ1TP00VV00010A0	
	Angled	CHROME	EZ1TP00VV00010ASCHRO	

NOTE:

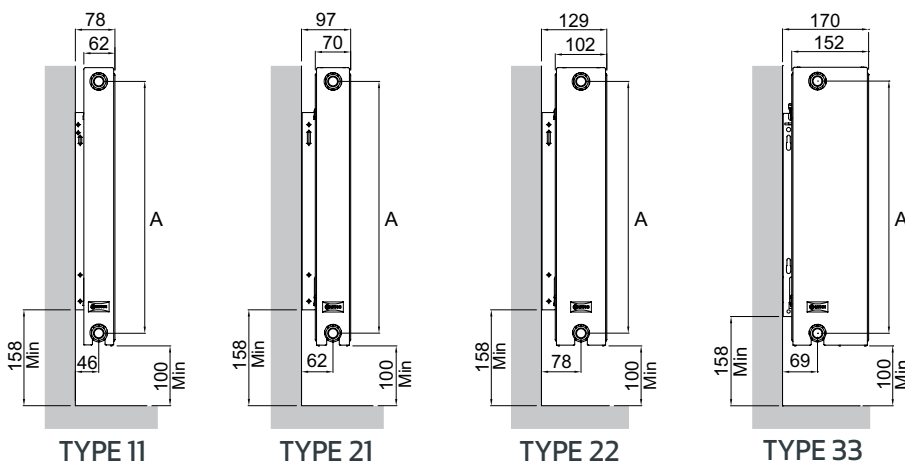
15mm Nut & Olive pack (Copper) required - MERRNOP15

*Not to be used for top connection

Mounting Details

Horizontal models

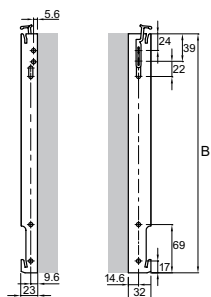
MOUNTING POSITIONS, DIMENSIONS AND WALL BRACKETS



Nominal Height (mm)	A (mm)
300	250
400	350
500	450
600	550
750	700
900	850

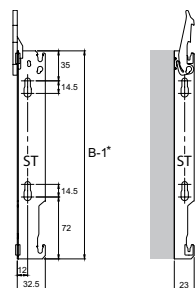
WALL BRACKETS

Supplied with Type 11, 21, 22



Type 11 only Type 21 & 22

Supplied with Type 33

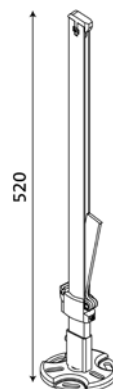


Fixing Hole Dimensions Type 33

Nominal Height (mm)	B (mm)
300	142
400	242
500	342
600	442
750	591
900	742

*Use dimension B+9 for 300mm high Type 33

FLOOR BRACKETS FOR ALL TYPES:

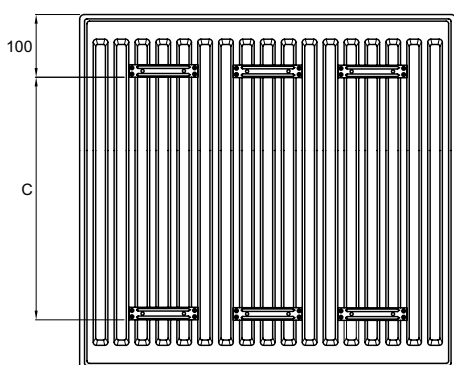


Radiator to wall distance: Any
Maximum load of a single bracket:
Vertically - 180kg
Pulling - 35kg
Order Code: MERRPANELFOOT
(single piece)

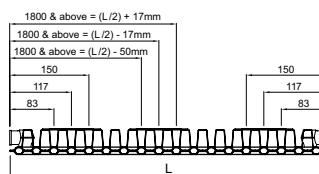
Height 300 - 750mm	
Radiator length (mm)	Quantity of floor brackets*
400 - 1600	2
1800 - 2300	3
2400 - 2600	4

*The floor brackets will support the radiators, however, in certain instances the brackets will flex and where possible the radiator should be fixed to the wall using the top bracket.

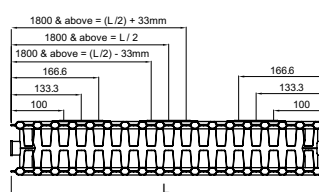
BRACKET POSITIONS AND DIMENSIONS



TYPE 11



TYPE 21, 22 & 33

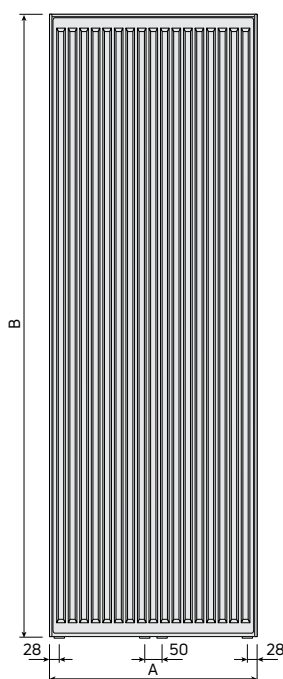


Nominal Height (mm)	C (mm)
300	120
400	220
500	320
600	420
750	570
900	720

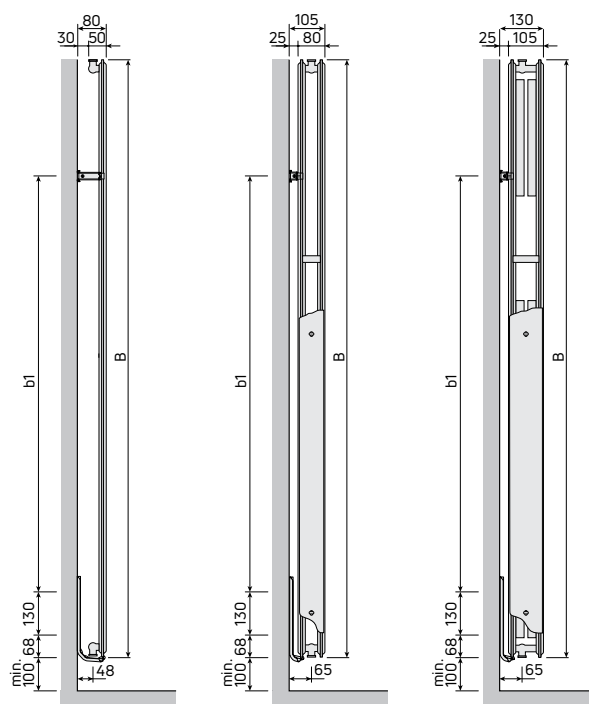
Mounting Details

Vertical models

FRONT VIEW



SIDE VIEWS

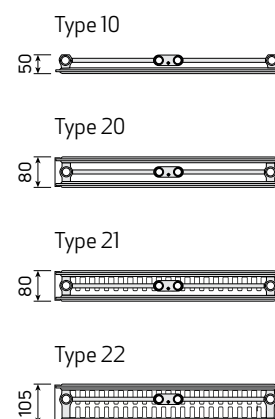


TYPE 10

TYPE 20 & 21

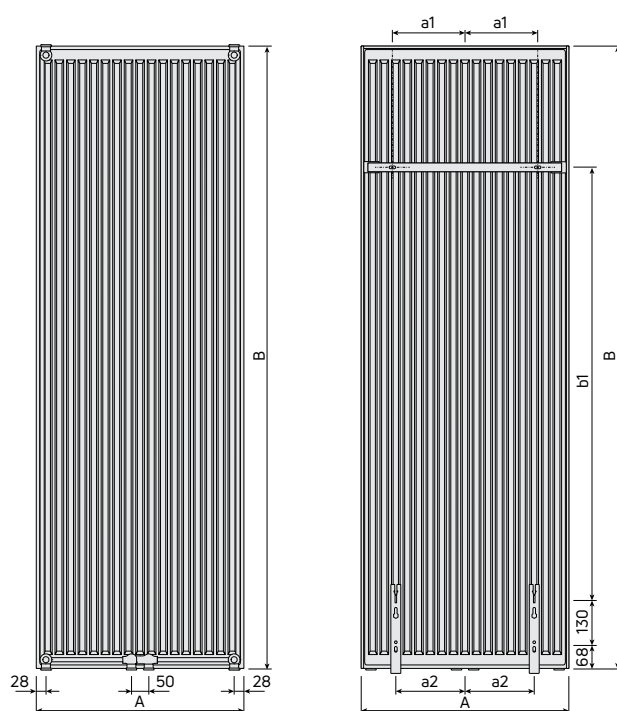
TYPE 22

TOP VIEWS



A = width
B = height
All dimensions in mm

REAR VIEWS WITH BRACKETS

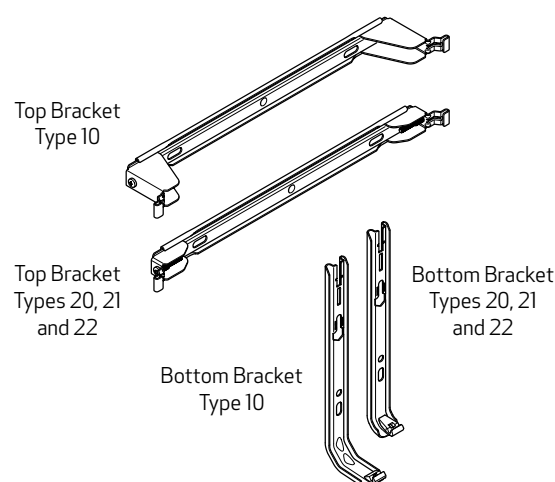


TYPE 10

TYPE 20, 21 & 22

MOUNTING DISTANCES

B (mm)	1800	1950	2100	2300
b1	1252	1402	1552	1752
A (mm)	300	450	600	750
a1	60	135	210	285
a2	75	125	200	250



NOTE:
The radiators are supplied for a two-pipe system. The radiator is reversible top/bottom.
(Please note: for top connection, the radiator must be turned 180°)



Primo Plus Vertical

Correction Factors

How to calculate a corrected output

1. Calculate the Delta T including air temperature - example:
Mean Water Temperature (MWT) = (°C Flow + °C Return) / 2 = (65 + 55) / 2 = 60 °C
Required Air Temperature = 21 °C
Delta T (ΔT) = Mean Water Temperature - Required Air Temperature = 60 - 21 = 39 °C
2. Note the Delta T 50 output shown for the specific size you require.
3. Locate the Exponent ('n') for the product you have selected within the Correction Factor table and your calculated Delta T (ΔT).
4. Multiply the Delta T 50 output noted, by the correction factor shown.

Outputs stated within this catalogue are shown at ΔT50 °C and also calculated at ΔT30 °C.

Multiplying factors required to calculate outputs at different Delta Ts (ΔTs) between 15 °C and 60 °C are shown in the Correction Factor tables on the following pages.

EXAMPLE:

Radiator selected =

Type 22 (Primo Plus), 600mm x 1000mm

Delta T of System (ΔT) =

39 °C

Exponent ('n') =

1.34

Output @ Delta T50 =

1709(w)

Corrected Output =

1709 (w) x 0.7162 (Correction Factor) = 1224 (w) at ΔT39

Nominal Height (mm)	Length (mm)	Double Panel Double Fin		
		'n'	Watts ΔT50	Watts ΔT30
600	800	1.34	1367	691
	900		1538	778
	1000		1709	864
	1100		1880	950
	1200		2051	1037
	1300		2222	1123

Product example: Type 22 extracted from page 06.

Correction Factors

Horizontal models

ΔT	TYPE 11 (SINGLE PANEL SINGLE FIN)					TYPE 21 (DOUBLE PANEL SINGLE FIN)				
	H300	H400	H500	H600	H750	H300	H400	H500	H600	H750
	Exponent 'n'									
	1.30	1.30	1.31	1.31	1.31	1.29	1.30	1.31	1.32	1.33
60	1.2670	1.2681	1.2691	1.2701	1.2708	1.2654	1.2675	1.2696	1.2718	1.2745
59	1.2397	1.2406	1.2415	1.2424	1.2430	1.2382	1.2401	1.2420	1.2439	1.2463
58	1.2125	1.2133	1.2141	1.2149	1.2154	1.2112	1.2129	1.2145	1.2162	1.2183
57	1.1854	1.1861	1.1868	1.1875	1.1879	1.1843	1.1857	1.1872	1.1886	1.1904
56	1.1585	1.1591	1.1597	1.1602	1.1606	1.1576	1.1588	1.1600	1.1612	1.1627
55	1.1317	1.1322	1.1327	1.1331	1.1335	1.1309	1.1319	1.1329	1.1339	1.1352
54	1.1051	1.1054	1.1058	1.1062	1.1064	1.1045	1.1052	1.1060	1.1068	1.1078
53	1.0786	1.0789	1.0791	1.0794	1.0796	1.0781	1.0787	1.0793	1.0799	1.0806
52	1.0522	1.0524	1.0526	1.0528	1.0529	1.0519	1.0523	1.0527	1.0531	1.0536
51	1.0260	1.0261	1.0262	1.0263	1.0264	1.0259	1.0261	1.0263	1.0265	1.0267
50	1	1	1	1	1	1	1	1	1	1
49	0.9741	0.9740	0.9739	0.9739	0.9738	0.9743	0.9741	0.9739	0.9737	0.9735
48	0.9484	0.9482	0.9480	0.9479	0.9478	0.9487	0.9483	0.9480	0.9476	0.9471
47	0.9228	0.9226	0.9223	0.9221	0.9219	0.9232	0.9227	0.9222	0.9217	0.9210
46	0.8974	0.8971	0.8967	0.8964	0.8962	0.8979	0.8973	0.8966	0.8959	0.8950
45	0.8722	0.8718	0.8714	0.8709	0.8707	0.8728	0.8720	0.8711	0.8703	0.8692
44	0.8471	0.8466	0.8461	0.8456	0.8453	0.8479	0.8469	0.8459	0.8449	0.8436
43	0.8222	0.8216	0.8211	0.8205	0.8202	0.8231	0.8219	0.8208	0.8197	0.8182
42	0.7975	0.7968	0.7962	0.7956	0.7952	0.7984	0.7972	0.7959	0.7946	0.7930
41	0.7729	0.7722	0.7715	0.7708	0.7704	0.7740	0.7726	0.7712	0.7698	0.7680
40	0.7485	0.7478	0.7470	0.7463	0.7458	0.7497	0.7482	0.7466	0.7451	0.7432
39	0.7243	0.7235	0.7227	0.7219	0.7214	0.7256	0.7239	0.7223	0.7206	0.7186
38	0.7003	0.6994	0.6986	0.6977	0.6972	0.7017	0.6999	0.6981	0.6964	0.6942
37	0.6765	0.6756	0.6747	0.6737	0.6732	0.6779	0.6760	0.6742	0.6723	0.6700
36	0.6528	0.6519	0.6509	0.6500	0.6494	0.6544	0.6524	0.6504	0.6485	0.6460
35	0.6294	0.6284	0.6274	0.6264	0.6258	0.6310	0.6289	0.6269	0.6248	0.6222
34	0.6061	0.6051	0.6041	0.6030	0.6024	0.6078	0.6057	0.6035	0.6014	0.5987
33	0.5831	0.5820	0.5810	0.5799	0.5792	0.5848	0.5826	0.5804	0.5782	0.5754
32	0.5603	0.5592	0.5581	0.5569	0.5562	0.5621	0.5598	0.5575	0.5552	0.5523
31	0.5377	0.5365	0.5354	0.5342	0.5335	0.5395	0.5371	0.5348	0.5324	0.5295
30	0.5153	0.5141	0.5129	0.5117	0.5110	0.5171	0.5147	0.5123	0.5099	0.5069
29	0.4931	0.4919	0.4907	0.4895	0.4887	0.4950	0.4925	0.4900	0.4876	0.4845
28	0.4711	0.4699	0.4687	0.4675	0.4667	0.4731	0.4705	0.4680	0.4655	0.4624
27	0.4494	0.4481	0.4469	0.4457	0.4449	0.4514	0.4488	0.4463	0.4437	0.4406
26	0.4279	0.4266	0.4254	0.4242	0.4234	0.4299	0.4273	0.4248	0.4222	0.4190
25	0.4067	0.4054	0.4042	0.4029	0.4021	0.4087	0.4061	0.4035	0.4009	0.3977
24	0.3857	0.3844	0.3832	0.3819	0.3811	0.3877	0.3851	0.3825	0.3799	0.3767
23	0.3649	0.3637	0.3624	0.3612	0.3604	0.3670	0.3643	0.3618	0.3592	0.3560
22	0.3445	0.3432	0.3420	0.3407	0.3399	0.3465	0.3439	0.3413	0.3387	0.3355
21	0.3243	0.3230	0.3218	0.3205	0.3198	0.3263	0.3237	0.3211	0.3186	0.3154
20	0.3044	0.3031	0.3019	0.3007	0.2999	0.3064	0.3038	0.3013	0.2987	0.2956
19	0.2848	0.2835	0.2823	0.2811	0.2804	0.2867	0.2842	0.2817	0.2792	0.2761
18	0.2655	0.2643	0.2631	0.2619	0.2611	0.2674	0.2649	0.2624	0.2600	0.2569
17	0.2465	0.2453	0.2441	0.2430	0.2422	0.2484	0.2459	0.2435	0.2411	0.2381
16	0.2278	0.2267	0.2255	0.2244	0.2237	0.2297	0.2273	0.2249	0.2226	0.2197
15	0.2095	0.2084	0.2073	0.2062	0.2055	0.2113	0.2090	0.2067	0.2044	0.2016

ΔT	TYPE 22 (DOUBLE PANEL DOUBLE FIN)					TYPE 33 (TRIPLE PANEL TRIPLE FIN)				
	H300	H400	H500	H600	H750	H300	H500	H600	H750	H900
	Exponent 'n'									
	1.31	1.32	1.33	1.34	1.35	1.31	1.34	1.35	1.35	1.36
60	1.2700	1.2725	1.2750	1.2775	1.2781	1.2707	1.2761	1.2787	1.2801	1.2814
59	1.2423	1.2445	1.2468	1.2490	1.2495	1.2429	1.2477	1.2501	1.2513	1.2524
58	1.2148	1.2167	1.2187	1.2206	1.2211	1.2153	1.2195	1.2216	1.2226	1.2237
57	1.1874	1.1891	1.1908	1.1924	1.1929	1.1879	1.1915	1.1933	1.1942	1.1951
56	1.1602	1.1616	1.1630	1.1644	1.1648	1.1606	1.1636	1.1651	1.1659	1.1666
55	1.1331	1.1342	1.1354	1.1366	1.1369	1.1334	1.1359	1.1372	1.1378	1.1384
54	1.1062	1.1071	1.1080	1.1089	1.1091	1.1064	1.1084	1.1094	1.1099	1.1103
53	1.0794	1.0801	1.0807	1.0814	1.0816	1.0796	1.0810	1.0818	1.0821	1.0825
52	1.0528	1.0532	1.0537	1.0541	1.0542	1.0529	1.0538	1.0543	1.0546	1.0548
51	1.0263	1.0265	1.0267	1.0270	1.0270	1.0264	1.0268	1.0271	1.0272	1.0273
50	1	1	1	1	1	1	1	1	1	1
49	0.9739	0.9737	0.9734	0.9732	0.9732	0.9738	0.9733	0.9731	0.9730	0.9729
48	0.9479	0.9475	0.9471	0.9466	0.9465	0.9478	0.9469	0.9464	0.9462	0.9460
47	0.9221	0.9215	0.9209	0.9202	0.9201	0.9219	0.9206	0.9199	0.9196	0.9193
46	0.8964	0.8957	0.8948	0.8940	0.8938	0.8962	0.8945	0.8936	0.8932	0.8928
45	0.8710	0.8700	0.8690	0.8680	0.8678	0.8707	0.8686	0.8675	0.8670	0.8665
44	0.8457	0.8445	0.8434	0.8422	0.8419	0.8454	0.8429	0.8416	0.8410	0.8404
43	0.8206	0.8193	0.8179	0.8166	0.8163	0.8202	0.8174	0.8160	0.8153	0.8146
42	0.7957	0.7942	0.7927	0.7912	0.7908	0.7952	0.7921	0.7905	0.7897	0.7889
41	0.7709	0.7693	0.7676	0.7660	0.7656	0.7705	0.7669	0.7652	0.7643	0.7635
40	0.7464	0.7446	0.7428	0.7410	0.7406	0.7459	0.7420	0.7401	0.7392	0.7382
39	0.7220	0.7201	0.7182	0.7162	0.7157	0.7215	0.7173	0.7153	0.7143	0.7133
38	0.6978	0.6958	0.6937	0.6917	0.6912	0.6973	0.6928	0.6907	0.6896	0.6885
37	0.6738	0.6717	0.6695	0.6673	0.6668	0.6732	0.6686	0.6663	0.6651	0.6640
36	0.6501	0.6478	0.6455	0.6432	0.6426	0.6494	0.6445	0.6421	0.6409	0.6397
35	0.6265	0.6241	0.6217	0.6193	0.6187	0.6258	0.6207	0.6182	0.6169	0.6156
34	0.6031	0.6007	0.5982	0.5957	0.5951	0.6024	0.5971	0.5945	0.5932	0.5919
33	0.5800	0.5774	0.5748	0.5723	0.5716	0.5793	0.5737	0.5710	0.5697	0.5683
32	0.5571	0.5544	0.5517	0.5491	0.5484	0.5563	0.5506	0.5478	0.5464	0.5450
31	0.5343	0.5316	0.5289	0.5262	0.5255	0.5336	0.5277	0.5248	0.5234	0.5220
30	0.5119	0.5091	0.5063	0.5035	0.5028	0.5111	0.5051	0.5021	0.5007	0.4992
29	0.4896	0.4868	0.4839	0.4811	0.4804	0.4888	0.4827	0.4797	0.4782	0.4767
28	0.4676	0.4647	0.4618	0.4590	0.4582	0.4668	0.4606	0.4575	0.4560	0.4545
27	0.4458	0.4429	0.4400	0.4371	0.4363	0.4450	0.4387	0.4356	0.4341	0.4326
26	0.4243	0.4213	0.4184	0.4155	0.4147	0.4235	0.4171	0.4140	0.4125	0.4109
25	0.4030	0.4001	0.3971	0.3941	0.3934	0.4022	0.3958	0.3927	0.3911	0.3896
24	0.3820	0.3791	0.3761	0.3731	0.3723	0.3812	0.3748	0.3716	0.3701	0.3685
23	0.3613	0.3583	0.3553	0.3524	0.3516	0.3605	0.3541	0.3509	0.3494	0.3478
22	0.3409	0.3379	0.3349	0.3320	0.3312	0.3400	0.3336	0.3305	0.3289	0.3274
21	0.3207	0.3177	0.3148	0.3119	0.3111	0.3199	0.3135	0.3104	0.3089	0.3073
20	0.3008	0.2979	0.2949	0.2921	0.2913	0.3000	0.2937	0.2906	0.2891	0.2876
19	0.2813	0.2784	0.2755	0.2726	0.2719	0.2804	0.2742	0.2712	0.2697	0.2682
18	0.2620	0.2592	0.2563	0.2535	0.2528	0.2612	0.2551	0.2521	0.2507	0.2492
17	0.2431	0.2403	0.2375	0.2348	0.2341	0.2423	0.2363	0.2334	0.2320	0.2306
16	0.2245	0.2218	0.2191	0.2164	0.2157	0.2238	0.2179	0.2151	0.2137	0.2123
15	0.2063	0.2037	0.2010	0.1985	0.1978	0.2056	0.1999	0.1972	0.1958	0.1945

Correction Factors

Vertical models

ΔT	TYPE 10 (SINGLE PANEL)						TYPE 20 (DOUBLE PANEL)							
	H1800			H1950			H1800				H1950			
	L450	L600	L750	L450	L600	L750	L300	L450	L600	L750	L300	L450	L600	L750
	Exponent 'n'													
	1.279	1.288	1.297	1.284	1.291	1.297	1.289	1.298	1.307	1.317	1.294	1.302	1.309	1.317
60	1.2626	1.2646	1.2667	1.2637	1.2653	1.2669	1.2649	1.2670	1.2692	1.2713	1.2661	1.2678	1.2695	1.2713
59	1.2357	1.2375	1.2394	1.2367	1.2381	1.2395	1.2378	1.2397	1.2416	1.2435	1.2388	1.2404	1.2419	1.2435
58	1.2090	1.2106	1.2122	1.2099	1.2111	1.2123	1.2108	1.2125	1.2142	1.2158	1.2117	1.2131	1.2144	1.2158
57	1.1824	1.1838	1.1852	1.1832	1.1842	1.1853	1.1839	1.1854	1.1869	1.1883	1.1848	1.1859	1.1871	1.1883
56	1.1559	1.1571	1.1583	1.1566	1.1575	1.1584	1.1573	1.1585	1.1597	1.1609	1.1579	1.1589	1.1599	1.1609
55	1.1296	1.1306	1.1315	1.1301	1.1309	1.1316	1.1307	1.1317	1.1327	1.1337	1.1312	1.1321	1.1329	1.1337
54	1.1034	1.1042	1.1049	1.1038	1.1044	1.1050	1.1043	1.1051	1.1059	1.1066	1.1047	1.1054	1.1060	1.1066
53	1.0774	1.0779	1.0785	1.0777	1.0781	1.0785	1.0780	1.0786	1.0792	1.0797	1.0783	1.0788	1.0793	1.0797
52	1.0514	1.0518	1.0522	1.0516	1.0519	1.0522	1.0518	1.0522	1.0526	1.0530	1.0521	1.0524	1.0527	1.0530
51	1.0256	1.0258	1.0260	1.0257	1.0259	1.0260	1.0258	1.0260	1.0262	1.0264	1.0260	1.0261	1.0263	1.0264
50	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49	0.9745	0.9743	0.9741	0.9744	0.9743	0.9741	0.9743	0.9741	0.9739	0.9737	0.9742	0.9740	0.9739	0.9738
48	0.9491	0.9488	0.9484	0.9489	0.9487	0.9484	0.9488	0.9484	0.9480	0.9477	0.9486	0.9483	0.9480	0.9477
47	0.9239	0.9234	0.9229	0.9236	0.9233	0.9229	0.9234	0.9228	0.9223	0.9218	0.9231	0.9226	0.9222	0.9218
46	0.8989	0.8982	0.8975	0.8985	0.8980	0.8975	0.8981	0.8974	0.8967	0.8960	0.8977	0.8972	0.8966	0.8960
45	0.8740	0.8731	0.8723	0.8735	0.8729	0.8722	0.8730	0.8722	0.8713	0.8705	0.8726	0.8719	0.8712	0.8705
44	0.8492	0.8482	0.8473	0.8487	0.8479	0.8472	0.8481	0.8471	0.8461	0.8451	0.8476	0.8467	0.8459	0.8451
43	0.8246	0.8235	0.8224	0.8240	0.8231	0.8223	0.8234	0.8222	0.8210	0.8199	0.8227	0.8218	0.8208	0.8199
42	0.8002	0.7989	0.7977	0.7995	0.7985	0.7976	0.7988	0.7975	0.7962	0.7949	0.7980	0.7970	0.7959	0.7949
41	0.7759	0.7745	0.7731	0.7751	0.7741	0.7730	0.7743	0.7729	0.7715	0.7700	0.7735	0.7724	0.7712	0.7701
40	0.7518	0.7503	0.7488	0.7509	0.7498	0.7486	0.7501	0.7485	0.7470	0.7454	0.7492	0.7479	0.7467	0.7454
39	0.7278	0.7262	0.7246	0.7269	0.7257	0.7244	0.7260	0.7243	0.7226	0.7210	0.7251	0.7237	0.7224	0.7210
38	0.7040	0.7023	0.7006	0.7031	0.7018	0.7004	0.7021	0.7003	0.6985	0.6967	0.7011	0.6996	0.6982	0.6968
37	0.6804	0.6786	0.6768	0.6794	0.6780	0.6766	0.6784	0.6765	0.6746	0.6727	0.6773	0.6758	0.6743	0.6727
36	0.6570	0.6551	0.6532	0.6559	0.6545	0.6530	0.6549	0.6529	0.6508	0.6489	0.6537	0.6521	0.6505	0.6489
35	0.6338	0.6317	0.6297	0.6326	0.6311	0.6295	0.6315	0.6294	0.6273	0.6252	0.6303	0.6286	0.6270	0.6253
34	0.6107	0.6086	0.6065	0.6095	0.6079	0.6063	0.6084	0.6062	0.6040	0.6018	0.6071	0.6054	0.6036	0.6018
33	0.5878	0.5856	0.5835	0.5866	0.5850	0.5833	0.5854	0.5831	0.5809	0.5786	0.5841	0.5823	0.5805	0.5786
32	0.5651	0.5629	0.5607	0.5639	0.5622	0.5605	0.5626	0.5603	0.5580	0.5556	0.5613	0.5594	0.5576	0.5557
31	0.5427	0.5403	0.5380	0.5414	0.5396	0.5378	0.5401	0.5377	0.5353	0.5329	0.5387	0.5368	0.5349	0.5329
30	0.5204	0.5180	0.5156	0.5191	0.5173	0.5154	0.5177	0.5153	0.5128	0.5104	0.5164	0.5144	0.5124	0.5104
29	0.4983	0.4959	0.4935	0.4969	0.4951	0.4933	0.4956	0.4931	0.4906	0.4881	0.4942	0.4922	0.4901	0.4881
28	0.4764	0.4740	0.4715	0.4751	0.4732	0.4713	0.4737	0.4711	0.4686	0.4661	0.4723	0.4702	0.4681	0.4661
27	0.4548	0.4523	0.4498	0.4534	0.4515	0.4496	0.4520	0.4494	0.4468	0.4443	0.4506	0.4484	0.4464	0.4443
26	0.4334	0.4308	0.4283	0.4320	0.4300	0.4281	0.4305	0.4279	0.4253	0.4227	0.4291	0.4270	0.4249	0.4228
25	0.4122	0.4096	0.4071	0.4107	0.4088	0.4069	0.4093	0.4067	0.4040	0.4015	0.4078	0.4057	0.4036	0.4015
24	0.3912	0.3886	0.3861	0.3898	0.3878	0.3859	0.3883	0.3857	0.3830	0.3804	0.3869	0.3847	0.3826	0.3805
23	0.3705	0.3679	0.3654	0.3690	0.3671	0.3651	0.3676	0.3650	0.3623	0.3597	0.3661	0.3640	0.3619	0.3597
22	0.3500	0.3474	0.3449	0.3486	0.3466	0.3447	0.3472	0.3445	0.3419	0.3393	0.3457	0.3435	0.3414	0.3393
21	0.3298	0.3272	0.3247	0.3284	0.3264	0.3245	0.3270	0.3243	0.3217	0.3191	0.3255	0.3233	0.3212	0.3191
20	0.3099	0.3073	0.3048	0.3084	0.3065	0.3046	0.3070	0.3044	0.3018	0.2992	0.3056	0.3034	0.3014	0.2993
19	0.2902	0.2877	0.2852	0.2888	0.2869	0.2850	0.2874	0.2848	0.2822	0.2797	0.2859	0.2838	0.2818	0.2797
18	0.2708	0.2683	0.2659	0.2694	0.2676	0.2657	0.2680	0.2655	0.2630	0.2605	0.2666	0.2646	0.2625	0.2605
17	0.2517	0.2493	0.2469	0.2504	0.2485	0.2467	0.2490	0.2465	0.2440	0.2416	0.2476	0.2456	0.2436	0.2416
16	0.2329	0.2306	0.2282	0.2316	0.2298	0.2280	0.2303	0.2279	0.2254	0.2231	0.2289	0.2270	0.2250	0.2231
15	0.2145	0.2122	0.2099	0.2132	0.2115	0.2097	0.2119	0.2096	0.2072	0.2049	0.2106	0.2087	0.2068	0.2049

ΔT	TYPE 21 (DOUBLE PANEL SINGLE FIN)								TYPE 22 (DOUBLE PANEL DOUBLE FIN)							
	H1800				H1950				H1800				H1950			
	L300	L450	L600	L750	L300	L450	L600	L750	L300	L450	L600	L750	L300	L450	L600	L750
	Exponent 'n'															
	1.309	1.316	1.322	1.329	1.310	1.318	1.326	1.334	1.310	1.317	1.323	1.330	1.310	1.315	1.320	1.325
60	1.2696	1.2711	1.2726	1.2741	1.2699	1.2717	1.2735	1.2753	1.2698	1.2713	1.2729	1.2744	1.2697	1.2709	1.2721	1.2733
59	1.2419	1.2433	1.2446	1.2460	1.2422	1.2438	1.2454	1.2471	1.2421	1.2435	1.2449	1.2462	1.2421	1.2431	1.2442	1.2453
58	1.2145	1.2156	1.2168	1.2180	1.2147	1.2161	1.2175	1.2190	1.2146	1.2158	1.2170	1.2182	1.2146	1.2155	1.2164	1.2174
57	1.1871	1.1881	1.1892	1.1902	1.1873	1.1885	1.1898	1.1910	1.1872	1.1883	1.1893	1.1904	1.1872	1.1880	1.1888	1.1896
56	1.1599	1.1608	1.1617	1.1625	1.1601	1.1611	1.1622	1.1632	1.1600	1.1609	1.1618	1.1627	1.1600	1.1607	1.1614	1.1620
55	1.1329	1.1336	1.1343	1.1350	1.1330	1.1339	1.1347	1.1356	1.1330	1.1337	1.1344	1.1351	1.1330	1.1335	1.1341	1.1346
54	1.1060	1.1066	1.1071	1.1077	1.1061	1.1068	1.1074	1.1081	1.1061	1.1066	1.1072	1.1078	1.1061	1.1065	1.1069	1.1074
53	1.0793	1.0797	1.0801	1.0805	1.0793	1.0798	1.0803	1.0808	1.0793	1.0797	1.0802	1.0806	1.0793	1.0796	1.0800	1.0803
52	1.0527	1.0530	1.0532	1.0535	1.0527	1.0531	1.0534	1.0537	1.0527	1.0530	1.0533	1.0535	1.0527	1.0529	1.0531	1.0533
51	1.0263	1.0264	1.0265	1.0267	1.0263	1.0264	1.0266	1.0268	1.0263	1.0264	1.0266	1.0267	1.0263	1.0264	1.0265	1.0266
50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49	0.9739	0.9738	0.9736	0.9735	0.9739	0.9737	0.9736	0.9734	0.9739	0.9738	0.9736	0.9735	0.9739	0.9738	0.9737	0.9736
48	0.9480	0.9477	0.9475	0.9472	0.9479	0.9476	0.9473	0.9470	0.9479	0.9477	0.9474	0.9472	0.9479	0.9477	0.9475	0.9473
47	0.9222	0.9218	0.9214	0.9211	0.9221	0.9217	0.9212	0.9208	0.9221	0.9218	0.9214	0.9210	0.9222	0.9219	0.9216	0.9213
46	0.8966	0.8961	0.8956	0.8951	0.8965	0.8959	0.8953	0.8947	0.8965	0.8960	0.8955	0.8950	0.8965	0.8962	0.8958	0.8954
45	0.8712	0.8706	0.8700	0.8694	0.8710	0.8703	0.8696	0.8689	0.8711	0.8705	0.8699	0.8692	0.8711	0.8706	0.8702	0.8697
44	0.8459	0.8452	0.8445	0.8438	0.8458	0.8449	0.8441	0.8432	0.8458	0.8451	0.8444	0.8436	0.8458	0.8453	0.8447	0.8442
43	0.8208	0.8200	0.8192	0.8184	0.8207	0.8197	0.8187	0.8178	0.8207	0.8199	0.8191	0.8182	0.8207	0.8201	0.8195	0.8188
42	0.7959	0.7950	0.7941	0.7932	0.7957	0.7947	0.7936	0.7925	0.7958	0.7949	0.7940	0.7930	0.7958	0.7951	0.7944	0.7937
41	0.7712	0.7702	0.7692	0.7682	0.7710	0.7698	0.7686	0.7674	0.7711	0.7701	0.7690	0.7680	0.7711	0.7703	0.7695	0.7688
40	0.7467	0.7456	0.7445	0.7434	0.7465	0.7452	0.7439	0.7425	0.7465	0.7454	0.7443	0.7432	0.7466	0.7457	0.7449	0.7440
39	0.7223	0.7212	0.7200	0.7188	0.7221	0.7207	0.7193	0.7179	0.7222	0.7210	0.7198	0.7186	0.7222	0.7213	0.7204	0.7195
38	0.6982	0.6969	0.6957	0.6944	0.6979	0.6964	0.6949	0.6934	0.6980	0.6968	0.6955	0.6942	0.6981	0.6971	0.6961	0.6951
37	0.6742	0.6729	0.6716	0.6702	0.6740	0.6724	0.6708	0.6692	0.6741	0.6727	0.6714	0.6700	0.6741	0.6731	0.6720	0.6710
36	0.6505	0.6491	0.6477	0.6463	0.6502	0.6485	0.6469	0.6452	0.6503	0.6489	0.6475	0.6460	0.6503	0.6492	0.6481	0.6470
35	0.6269	0.6255	0.6240	0.6225	0.6266	0.6249	0.6231	0.6214	0.6267	0.6253	0.6238	0.6223	0.6268	0.6256	0.6245	0.6233
34	0.6036	0.6020	0.6005	0.5990	0.6033	0.6015	0.5996	0.5978	0.6034	0.6018	0.6003	0.5987	0.6034	0.6022	0.6010	0.5998
33	0.5805	0.5789	0.5773	0.5757	0.5801	0.5783	0.5764	0.5745	0.5803	0.5786	0.5770	0.5754	0.5803	0.5791	0.5778	0.5766
32	0.5575	0.5559	0.5543	0.5527	0.5572	0.5553	0.5533	0.5514	0.5573	0.5557	0.5540	0.5524	0.5574	0.5561	0.5548	0.5535
31	0.5348	0.5332	0.5315	0.5298	0.5345	0.5325	0.5305	0.5285	0.5346	0.5329	0.5312	0.5295	0.5347	0.5334	0.5320	0.5307
30	0.5124	0.5106	0.5089	0.5072	0.5120	0.5100	0.5079	0.5059	0.5122	0.5104	0.5087	0.5069	0.5122	0.5108	0.5095	0.5082
29	0.4901	0.4884	0.4866	0.4849	0.4898	0.4877	0.4856	0.4835	0.4899	0.4881	0.4863	0.4846	0.4899	0.4886	0.4872	0.4858
28	0.4681	0.4663	0.4646	0.4628	0.4678	0.4657	0.4635	0.4614	0.4679	0.4661	0.4643	0.4625	0.4679	0.4665	0.4651	0.4638
27	0.4464	0.4445	0.4428	0.4410	0.4460	0.4439	0.4417	0.4396	0.4461	0.4443	0.4425	0.4406	0.4462	0.4448	0.4433	0.4419
26	0.4248	0.4230	0.4212	0.4194	0.4245	0.4223	0.4201	0.4180	0.4246	0.4228	0.4209	0.4191	0.4246	0.4232	0.4218	0.4204
25	0.4036	0.4017	0.3999	0.3981	0.4032	0.4010	0.3988	0.3967	0.4033	0.4015	0.3996	0.3978	0.4034	0.4020	0.4005	0.3991
24	0.3826	0.3807	0.3789	0.3771	0.3822	0.3800	0.3778	0.3756	0.3823	0.3805	0.3786	0.3767	0.3824	0.3809	0.3795	0.3781
23	0.3618	0.3600	0.3582	0.3563	0.3615	0.3593	0.3571	0.3549	0.3616	0.3597	0.3579	0.3560	0.3616	0.3602	0.3588	0.3573
22	0.3414	0.3395	0.3377	0.3359	0.3410	0.3388	0.3367	0.3345	0.3412	0.3393	0.3374	0.3356	0.3412	0.3398	0.3383	0.3369
21	0.3212	0.3194	0.3176	0.3158	0.3209	0.3187	0.3165	0.3144	0.3210	0.3191	0.3173	0.3154	0.3210	0.3196	0.3182	0.3168
20	0.3013	0.2995	0.2977	0.2959	0.3010	0.2988	0.2967	0.2945	0.3011	0.2993	0.2974	0.2956	0.3011	0.2997	0.2983	0.2969
19	0.2818	0.2800	0.2782	0.2764	0.2814	0.2793	0.2772	0.2751	0.2816	0.2797	0.2779	0.2761	0.2816	0.2802	0.2788	0.2774
18	0.2625	0.2608	0.2590	0.2573	0.2622	0.2601	0.2580	0.2559	0.2623	0.2605	0.2587	0.2570	0.2623	0.2610	0.2596	0.2582
17	0.2436	0.2419	0.2402	0.2385	0.2432	0.2412	0.2392	0.2371	0.2434	0.2416	0.2399	0.2382	0.2434	0.2421	0.2407	0.2394
16	0.2250	0.2233	0.2217	0.2200	0.2247	0.2227	0.2207	0.2187	0.2248	0.2231	0.2214	0.2197	0.2248	0.2235	0.2222	0.2209
15	0.2068	0.2051	0.2035	0.2019	0.2065	0.2045	0.2026	0.2007	0.2066	0.2049	0.2033	0.2016	0.2066	0.2053	0.2041	0.2028

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