



## PRESTANDEDEKLARATION

Nr: DOP201901-0069

- 1. Produkttypens unika identifikationskod:**  
Altech Radiatorer  
Modell: K11, K21, K22, K33
- 2. Avsedd användning:**  
Radiatorer och konvektorer permanentmonterade i centralvärmesystem i byggnader, uppvärmningsvatten tillfört från externa värmekällor.
- 3. Tillverkare:**  
Dahl Sverige AB, Box 67, 177 22 Järfälla  
Telefon: 08-583 595 00, [www.dahl.se](http://www.dahl.se)
- 4. Tillverkarens representant:**  
Ej tillämbart
- 5. System för bedömning och fortlöpande kontroll av prestanda:**  
System 3
- 6. a) Harmoniserad standard:**  
EN 442-1  
**Anmält organ:**  
Namn och identifieringsnummer för de anmälda organen:  
Institut für GebäudeEnergetik, Universität Stuttgart  
Pfaffenwaldring 35  
70569 Stuttgart, Deutschland  
Identification number: 0626



## 7. Prestanda:

Väsentliga egenskaper	Prestanda	Harmoniserad teknisk specifikation
Brandmotståndsklass	A1	EN 442-1:2014
Utsläpp av farliga ämnen	Inga	EN 442-1:2014
Täthet under tryck	Inget läckage vid ett tryck 1,3 gånger högre än det maximalt tillåtna arbetstrycket $P_{max} = 1000 \text{ kPa}^1$	EN 442-1:2014
Motstånd mot tryck	Ingen sönderbrytning vid 1,69 x max driftstryck (kPa)	EN 442-1:2014
Yttemperatur	$T_{max} = 110 \text{ °C}$	EN 442-1:2014
Normal termisk effekt för $\Delta T_{50 \text{ K}}$ $\Phi_{50}$	$1\,709 \text{ W}^2$	EN 442-1:2014
Normal karaktäristisk värmekurva	$\Phi = (K_M \times \Delta T^n) \times L/1000$ ( $K_M$ , n and L : se Bilaga 1)	EN 442-1:2014
Beständighet	Inga tecken på korrosion efter 100 timmars fukttest  Slagtållighet Klass 0	EN 442-1:2014

Anm. 1) och 2): Dessa siffror är exempelvärden. De verkliga värdena för alla produkter som omfattas av denna deklARATION finns angivna på produktens förpackningsetikett samt i bilagan



**8. Lämplig teknisk dokumentation och/eller särskild dokumentation:**

Ej tillämbart

Prestandan för ovanstående produkt överensstämmer med den angivna prestandan. Denna prestandadeklaration har utfärdats i enlighet med förordning (EU) nr 305/2011 på eget ansvar av den tillverkare som anges ovan.



(Underskrift)

Beriar Maroof Kvalitets- och miljöansvarig, produkter  
(namn och befattning)

Bromma, 2019-10-08  
(plats och dag för utfärdande)



Bilaga 1

Altech						
T	H (mm)	L (mm)	Heat output dT30 (W)	Heat output dT50 (W)	n	K <sub>M</sub>
11	300	400	111	214	1,2848	3,5183
11	300	500	139	268	1,2848	3,5183
11	300	600	167	322	1,2848	3,5183
11	300	700	195	375	1,2848	3,5183
11	300	800	222	429	1,2848	3,5183
11	300	900	250	482	1,2848	3,5183
11	300	1000	278	536	1,2848	3,5183
11	300	1100	306	590	1,2848	3,5183
11	300	1200	334	643	1,2848	3,5183
11	300	1300	361	697	1,2848	3,5183
11	300	1400	389	750	1,2848	3,5183
11	300	1500	417	804	1,2848	3,5183
11	300	1600	445	858	1,2848	3,5183
11	300	1700	473	911	1,2848	3,5183
11	300	1800	501	965	1,2848	3,5183
11	300	1900	528	1018	1,2848	3,5183
11	300	2000	556	1072	1,2848	3,5183
11	300	2100	584	1126	1,2848	3,5183
11	300	2200	612	1179	1,2848	3,5183
11	300	2300	640	1233	1,2848	3,5183
11	300	2400	667	1286	1,2848	3,5183
11	300	2500	695	1340	1,2848	3,5183
11	300	2600	723	1394	1,2848	3,5183
11	300	2700	751	1447	1,2848	3,5183
11	300	2800	779	1501	1,2848	3,5183
11	300	2900	806	1554	1,2848	3,5183
11	300	3000	834	1608	1,2848	3,5183
11	400	400	146	282	1,2883	4,5646
11	400	500	183	353	1,2883	4,5646
11	400	600	219	423	1,2883	4,5646
11	400	700	256	494	1,2883	4,5646
11	400	800	292	564	1,2883	4,5646
11	400	900	329	635	1,2883	4,5646
11	400	1000	365	705	1,2883	4,5646
11	400	1100	402	776	1,2883	4,5646
11	400	1200	438	846	1,2883	4,5646
11	400	1300	475	917	1,2883	4,5646
11	400	1400	511	987	1,2883	4,5646
11	400	1500	548	1058	1,2883	4,5646
11	400	1600	584	1128	1,2883	4,5646
11	400	1700	621	1199	1,2883	4,5646
11	400	1800	657	1269	1,2883	4,5646
11	400	1900	694	1340	1,2883	4,5646

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11	400	2000	730	1410	1,2883	4,5646
11	400	2100	767	1481	1,2883	4,5646
11	400	2200	803	1551	1,2883	4,5646
11	400	2300	840	1622	1,2883	4,5646
11	400	2400	876	1692	1,2883	4,5646
11	400	2500	913	1763	1,2883	4,5646
11	400	2600	949	1833	1,2883	4,5646
11	400	2700	986	1904	1,2883	4,5646
11	400	2800	1022	1974	1,2883	4,5646
11	400	2900	1059	2045	1,2883	4,5646
11	400	3000	1095	2115	1,2883	4,5646
11	500	400	179	346	1,2919	5,5159
11	500	500	223	432	1,2919	5,5159
11	500	600	268	518	1,2919	5,5159
11	500	700	313	605	1,2919	5,5159
11	500	800	357	691	1,2919	5,5159
11	500	900	402	778	1,2919	5,5159
11	500	1000	447	864	1,2919	5,5159
11	500	1100	491	950	1,2919	5,5159
11	500	1200	536	1037	1,2919	5,5159
11	500	1300	581	1123	1,2919	5,5159
11	500	1400	625	1210	1,2919	5,5159
11	500	1500	670	1296	1,2919	5,5159
11	500	1600	715	1382	1,2919	5,5159
11	500	1700	759	1469	1,2919	5,5159
11	500	1800	804	1555	1,2919	5,5159
11	500	1900	849	1642	1,2919	5,5159
11	500	2000	893	1728	1,2919	5,5159
11	500	2100	938	1814	1,2919	5,5159
11	500	2200	982	1901	1,2919	5,5159
11	500	2300	1027	1987	1,2919	5,5159
11	500	2400	1072	2074	1,2919	5,5159
11	500	2500	1116	2160	1,2919	5,5159
11	500	2600	1161	2246	1,2919	5,5159
11	500	2700	1206	2333	1,2919	5,5159
11	500	2800	1250	2419	1,2919	5,5159
11	500	2900	1295	2506	1,2919	5,5159
11	500	3000	1340	2592	1,2919	5,5159
11	600	400	209	406	1,2954	6,3855
11	600	500	262	507	1,2954	6,3855
11	600	600	314	608	1,2954	6,3855
11	600	700	366	710	1,2954	6,3855
11	600	800	419	811	1,2954	6,3855
11	600	900	471	913	1,2954	6,3855
11	600	1000	523	1014	1,2954	6,3855
11	600	1100	576	1115	1,2954	6,3855
11	600	1200	628	1217	1,2954	6,3855
11	600	1300	680	1318	1,2954	6,3855

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11	600	1400	732	1420	1,2954	6,3855
11	600	1500	785	1521	1,2954	6,3855
11	600	1600	837	1622	1,2954	6,3855
11	600	1700	889	1724	1,2954	6,3855
11	600	1800	942	1825	1,2954	6,3855
11	600	1900	994	1927	1,2954	6,3855
11	600	2000	1046	2028	1,2954	6,3855
11	600	2100	1099	2129	1,2954	6,3855
11	600	2200	1151	2231	1,2954	6,3855
11	600	2300	1203	2332	1,2954	6,3855
11	600	2400	1256	2434	1,2954	6,3855
11	600	2500	1308	2535	1,2954	6,3855
11	600	2600	1360	2636	1,2954	6,3855
11	600	2700	1413	2738	1,2954	6,3855
11	600	2800	1465	2839	1,2954	6,3855
11	600	2900	1517	2941	1,2954	6,3855
11	600	3000	1570	3042	1,2954	6,3855
11	700	400	238	461	1,2963	7,2353
11	700	500	297	577	1,2963	7,2353
11	700	600	357	692	1,2963	7,2353
11	700	700	416	807	1,2963	7,2353
11	700	800	476	922	1,2963	7,2353
11	700	900	535	1038	1,2963	7,2353
11	700	1000	595	1153	1,2963	7,2353
11	700	1100	654	1268	1,2963	7,2353
11	700	1200	714	1384	1,2963	7,2353
11	700	1300	773	1499	1,2963	7,2353
11	700	1400	832	1614	1,2963	7,2353
11	700	1500	892	1730	1,2963	7,2353
11	700	1600	951	1845	1,2963	7,2353
11	700	1700	1011	1960	1,2963	7,2353
11	700	1800	1070	2075	1,2963	7,2353
11	700	1900	1130	2191	1,2963	7,2353
11	700	2000	1189	2306	1,2963	7,2353
11	700	2100	1249	2421	1,2963	7,2353
11	700	2200	1308	2537	1,2963	7,2353
11	700	2300	1368	2652	1,2963	7,2353
11	700	2400	1427	2767	1,2963	7,2353
11	700	2500	1487	2883	1,2963	7,2353
11	700	2600	1546	2998	1,2963	7,2353
11	700	2700	1606	3113	1,2963	7,2353
11	700	2800	1665	3228	1,2963	7,2353
11	700	2900	1724	3344	1,2963	7,2353
11	700	3000	1784	3459	1,2963	7,2353
11	900	400	289	561	1,2981	8,7360
11	900	500	361	701	1,2981	8,7360
11	900	600	433	841	1,2981	8,7360

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11	900	700	506	981	1,2981	8,7360
11	900	800	578	1122	1,2981	8,7360
11	900	900	650	1262	1,2981	8,7360
11	900	1000	722	1402	1,2981	8,7360
11	900	1100	795	1542	1,2981	8,7360
11	900	1200	867	1682	1,2981	8,7360
11	900	1300	939	1823	1,2981	8,7360
11	900	1400	1011	1963	1,2981	8,7360
11	900	1500	1084	2103	1,2981	8,7360
11	900	1600	1156	2243	1,2981	8,7360
11	900	1700	1228	2383	1,2981	8,7360
11	900	1800	1300	2524	1,2981	8,7360
11	900	1900	1373	2664	1,2981	8,7360
11	900	2000	1445	2804	1,2981	8,7360
11	900	2100	1517	2944	1,2981	8,7360
11	900	2200	1589	3084	1,2981	8,7360
11	900	2300	1661	3225	1,2981	8,7360
11	900	2400	1734	3365	1,2981	8,7360
11	900	2500	1806	3505	1,2981	8,7360
11	900	2600	1878	3645	1,2981	8,7360
11	900	2700	1950	3785	1,2981	8,7360
11	900	2800	2023	3926	1,2981	8,7360
11	900	2900	2095	4066	1,2981	8,7360
11	900	3000	2167	4206	1,2981	8,7360

21	300	400	158	306	1,3012	4,7155
21	300	500	197	383	1,3012	4,7155
21	300	600	236	460	1,3012	4,7155
21	300	700	276	536	1,3012	4,7155
21	300	800	315	613	1,3012	4,7155
21	300	900	355	689	1,3012	4,7155
21	300	1000	394	766	1,3012	4,7155
21	300	1100	433	843	1,3012	4,7155
21	300	1200	473	919	1,3012	4,7155
21	300	1300	512	996	1,3012	4,7155
21	300	1400	552	1072	1,3012	4,7155
21	300	1500	591	1149	1,3012	4,7155
21	300	1600	630	1226	1,3012	4,7155
21	300	1700	670	1302	1,3012	4,7155
21	300	1800	709	1379	1,3012	4,7155
21	300	1900	749	1455	1,3012	4,7155
21	300	2000	788	1532	1,3012	4,7155
21	300	2100	828	1609	1,3012	4,7155
21	300	2200	867	1685	1,3012	4,7155
21	300	2300	906	1762	1,3012	4,7155
21	300	2400	946	1838	1,3012	4,7155

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21	300	2500	985	1915	1,3012	4,7155
21	300	2600	1025	1992	1,3012	4,7155
21	300	2700	1064	2068	1,3012	4,7155
21	300	2800	1103	2145	1,3012	4,7155
21	300	2900	1143	2221	1,3012	4,7155
21	300	3000	1182	2298	1,3012	4,7155
21	400	400	200	391	1,3074	5,8703
21	400	500	251	489	1,3074	5,8703
21	400	600	301	586	1,3074	5,8703
21	400	700	351	684	1,3074	5,8703
21	400	800	401	782	1,3074	5,8703
21	400	900	451	879	1,3074	5,8703
21	400	1000	501	977	1,3074	5,8703
21	400	1100	551	1075	1,3074	5,8703
21	400	1200	601	1172	1,3074	5,8703
21	400	1300	651	1270	1,3074	5,8703
21	400	1400	701	1368	1,3074	5,8703
21	400	1500	752	1466	1,3074	5,8703
21	400	1600	802	1563	1,3074	5,8703
21	400	1700	852	1661	1,3074	5,8703
21	400	1800	902	1759	1,3074	5,8703
21	400	1900	952	1856	1,3074	5,8703
21	400	2000	1002	1954	1,3074	5,8703
21	400	2100	1052	2052	1,3074	5,8703
21	400	2200	1102	2149	1,3074	5,8703
21	400	2300	1152	2247	1,3074	5,8703
21	400	2400	1202	2345	1,3074	5,8703
21	400	2500	1253	2443	1,3074	5,8703
21	400	2600	1303	2540	1,3074	5,8703
21	400	2700	1353	2638	1,3074	5,8703
21	400	2800	1403	2736	1,3074	5,8703
21	400	2900	1453	2833	1,3074	5,8703
21	400	3000	1503	2931	1,3074	5,8703
21	450	400	221	431	1,3106	6,3907
21	450	500	276	539	1,3106	6,3907
21	450	600	331	646	1,3106	6,3907
21	450	700	386	754	1,3106	6,3907
21	450	800	441	862	1,3106	6,3907
21	450	900	496	969	1,3106	6,3907
21	450	1000	551	1077	1,3106	6,3907
21	450	1100	607	1185	1,3106	6,3907
21	450	1200	662	1292	1,3106	6,3907
21	450	1300	717	1400	1,3106	6,3907
21	450	1400	772	1508	1,3106	6,3907
21	450	1500	827	1616	1,3106	6,3907
21	450	1600	882	1723	1,3106	6,3907

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21	450	1700	937	1831	1,3106	6,3907
21	450	1800	993	1939	1,3106	6,3907
21	450	1900	1048	2046	1,3106	6,3907
21	450	2000	1103	2154	1,3106	6,3907
21	450	2100	1158	2262	1,3106	6,3907
21	450	2200	1213	2369	1,3106	6,3907
21	450	2300	1268	2477	1,3106	6,3907
21	450	2400	1323	2585	1,3106	6,3907
21	450	2500	1378	2693	1,3106	6,3907
21	450	2600	1434	2800	1,3106	6,3907
21	450	2700	1489	2908	1,3106	6,3907
21	450	2800	1544	3016	1,3106	6,3907
21	450	2900	1599	3123	1,3106	6,3907
21	450	3000	1654	3231	1,3106	6,3907
21	500	400	240	470	1,3137	6,8881
21	500	500	300	588	1,3137	6,8881
21	500	600	360	705	1,3137	6,8881
21	500	700	420	823	1,3137	6,8881
21	500	800	480	940	1,3137	6,8881
21	500	900	541	1058	1,3137	6,8881
21	500	1000	601	1175	1,3137	6,8881
21	500	1100	661	1293	1,3137	6,8881
21	500	1200	721	1410	1,3137	6,8881
21	500	1300	781	1528	1,3137	6,8881
21	500	1400	841	1645	1,3137	6,8881
21	500	1500	901	1763	1,3137	6,8881
21	500	1600	961	1880	1,3137	6,8881
21	500	1700	1021	1998	1,3137	6,8881
21	500	1800	1081	2115	1,3137	6,8881
21	500	1900	1141	2233	1,3137	6,8881
21	500	2000	1201	2350	1,3137	6,8881
21	500	2100	1261	2468	1,3137	6,8881
21	500	2200	1321	2585	1,3137	6,8881
21	500	2300	1381	2703	1,3137	6,8881
21	500	2400	1441	2820	1,3137	6,8881
21	500	2500	1502	2938	1,3137	6,8881
21	500	2600	1562	3055	1,3137	6,8881
21	500	2700	1622	3173	1,3137	6,8881
21	500	2800	1682	3290	1,3137	6,8881
21	500	2900	1742	3408	1,3137	6,8881
21	500	3000	1802	3525	1,3137	6,8881
21	600	400	278	545	1,3199	7,7930
21	600	500	347	681	1,3199	7,7930
21	600	600	416	817	1,3199	7,7930
21	600	700	486	953	1,3199	7,7930
21	600	800	555	1090	1,3199	7,7930

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21	600	900	625	1226	1,3199	7,7930
21	600	1000	694	1362	1,3199	7,7930
21	600	1100	763	1498	1,3199	7,7930
21	600	1200	833	1634	1,3199	7,7930
21	600	1300	902	1771	1,3199	7,7930
21	600	1400	972	1907	1,3199	7,7930
21	600	1500	1041	2043	1,3199	7,7930
21	600	1600	1110	2179	1,3199	7,7930
21	600	1700	1180	2315	1,3199	7,7930
21	600	1800	1249	2452	1,3199	7,7930
21	600	1900	1319	2588	1,3199	7,7930
21	600	2000	1388	2724	1,3199	7,7930
21	600	2100	1457	2860	1,3199	7,7930
21	600	2200	1527	2996	1,3199	7,7930
21	600	2300	1596	3133	1,3199	7,7930
21	600	2400	1666	3269	1,3199	7,7930
21	600	2500	1735	3405	1,3199	7,7930
21	600	2600	1804	3541	1,3199	7,7930
21	600	2700	1874	3677	1,3199	7,7930
21	600	2800	1943	3814	1,3199	7,7930
21	600	2900	2013	3950	1,3199	7,7930
21	600	3000	2082	4086	1,3199	7,7930
21	700	400	313	616	1,3256	8,6116
21	700	500	391	770	1,3256	8,6116
21	700	600	469	923	1,3256	8,6116
21	700	700	547	1077	1,3256	8,6116
21	700	800	626	1231	1,3256	8,6116
21	700	900	704	1385	1,3256	8,6116
21	700	1000	782	1539	1,3256	8,6116
21	700	1100	860	1693	1,3256	8,6116
21	700	1200	938	1847	1,3256	8,6116
21	700	1300	1016	2001	1,3256	8,6116
21	700	1400	1095	2155	1,3256	8,6116
21	700	1500	1173	2309	1,3256	8,6116
21	700	1600	1251	2462	1,3256	8,6116
21	700	1700	1329	2616	1,3256	8,6116
21	700	1800	1407	2770	1,3256	8,6116
21	700	1900	1486	2924	1,3256	8,6116
21	700	2000	1564	3078	1,3256	8,6116
21	700	2100	1642	3232	1,3256	8,6116
21	700	2200	1720	3386	1,3256	8,6116
21	700	2300	1798	3540	1,3256	8,6116
21	700	2400	1877	3694	1,3256	8,6116
21	700	2500	1955	3848	1,3256	8,6116
21	700	2600	2033	4001	1,3256	8,6116
21	700	2700	2111	4155	1,3256	8,6116

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21	700	2800	2189	4309	1,3256	8,6116
21	700	2900	2268	4463	1,3256	8,6116
21	700	3000	2346	4617	1,3256	8,6116

21	900	400	377	747	1,3369	10,0005
21	900	500	472	934	1,3369	10,0005
21	900	600	566	1121	1,3369	10,0005
21	900	700	661	1308	1,3369	10,0005
21	900	800	755	1494	1,3369	10,0005
21	900	900	849	1681	1,3369	10,0005
21	900	1000	944	1868	1,3369	10,0005
21	900	1100	1038	2055	1,3369	10,0005
21	900	1200	1132	2242	1,3369	10,0005
21	900	1300	1227	2428	1,3369	10,0005
21	900	1400	1321	2615	1,3369	10,0005
21	900	1500	1415	2802	1,3369	10,0005
21	900	1600	1510	2989	1,3369	10,0005
21	900	1700	1604	3176	1,3369	10,0005
21	900	1800	1698	3362	1,3369	10,0005
21	900	1900	1793	3549	1,3369	10,0005
21	900	2000	1887	3736	1,3369	10,0005
21	900	2100	1982	3923	1,3369	10,0005
21	900	2200	2076	4110	1,3369	10,0005
21	900	2300	2170	4296	1,3369	10,0005
21	900	2400	2265	4483	1,3369	10,0005
21	900	2500	2359	4670	1,3369	10,0005
21	900	2600	2453	4857	1,3369	10,0005
21	900	2700	2548	5044	1,3369	10,0005
21	900	2800	2642	5230	1,3369	10,0005
21	900	2900	2736	5417	1,3369	10,0005
21	900	3000	2831	5604	1,3369	10,0005
22	300	400	201	393	1,3128	5,7829
22	300	500	251	492	1,3128	5,7829
22	300	600	302	590	1,3128	5,7829
22	300	700	352	688	1,3128	5,7829
22	300	800	402	786	1,3128	5,7829
22	300	900	452	885	1,3128	5,7829
22	300	1000	503	983	1,3128	5,7829
22	300	1100	553	1081	1,3128	5,7829
22	300	1200	603	1180	1,3128	5,7829
22	300	1300	654	1278	1,3128	5,7829
22	300	1400	704	1376	1,3128	5,7829
22	300	1500	754	1475	1,3128	5,7829
22	300	1600	804	1573	1,3128	5,7829

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22	300	1700	855	1671	1,3128	5,7829
22	300	1800	905	1769	1,3128	5,7829
22	300	1900	955	1868	1,3128	5,7829
22	300	2000	1005	1966	1,3128	5,7829
22	300	2100	1056	2064	1,3128	5,7829
22	300	2200	1106	2163	1,3128	5,7829
22	300	2300	1156	2261	1,3128	5,7829
22	300	2400	1206	2359	1,3128	5,7829
22	300	2500	1257	2458	1,3128	5,7829
22	300	2600	1307	2556	1,3128	5,7829
22	300	2700	1357	2654	1,3128	5,7829
22	300	2800	1408	2752	1,3128	5,7829
22	300	2900	1458	2851	1,3128	5,7829
22	300	3000	1508	2949	1,3128	5,7829
22	400	400	256	504	1,3237	7,0974
22	400	500	320	630	1,3237	7,0974
22	400	600	384	755	1,3237	7,0974
22	400	700	448	881	1,3237	7,0974
22	400	800	512	1007	1,3237	7,0974
22	400	900	576	1133	1,3237	7,0974
22	400	1000	640	1259	1,3237	7,0974
22	400	1100	704	1385	1,3237	7,0974
22	400	1200	768	1511	1,3237	7,0974
22	400	1300	832	1637	1,3237	7,0974
22	400	1400	896	1763	1,3237	7,0974
22	400	1500	960	1889	1,3237	7,0974
22	400	1600	1024	2014	1,3237	7,0974
22	400	1700	1088	2140	1,3237	7,0974
22	400	1800	1152	2266	1,3237	7,0974
22	400	1900	1217	2392	1,3237	7,0974
22	400	2000	1281	2518	1,3237	7,0974
22	400	2100	1345	2644	1,3237	7,0974
22	400	2200	1409	2770	1,3237	7,0974
22	400	2300	1473	2896	1,3237	7,0974
22	400	2400	1537	3022	1,3237	7,0974
22	400	2500	1601	3148	1,3237	7,0974
22	400	2600	1665	3273	1,3237	7,0974
22	400	2700	1729	3399	1,3237	7,0974
22	400	2800	1793	3525	1,3237	7,0974
22	400	2900	1857	3651	1,3237	7,0974
22	400	3000	1921	3777	1,3237	7,0974

22	450	400	281	555	1,3297	7,6581
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22	450	500	352	694	1,3297	7,6581
22	450	600	422	833	1,3297	7,6581
22	450	700	493	972	1,3297	7,6581
22	450	800	563	1110	1,3297	7,6581
22	450	900	633	1249	1,3297	7,6581
22	450	1000	704	1388	1,3292	7,6581
22	450	1100	774	1527	1,3297	7,6581
22	450	1200	844	1666	1,3297	7,6581
22	450	1300	915	1804	1,3297	7,6581
22	450	1400	985	1943	1,3297	7,6581
22	450	1500	1056	2082	1,3297	7,6581
22	450	1600	1126	2221	1,3297	7,6581
22	450	1700	1196	2360	1,3297	7,6581
22	450	1800	1267	2498	1,3297	7,6581
22	450	1900	1337	2637	1,3297	7,6581
22	450	2000	1407	2776	1,3297	7,6581
22	450	2100	1478	2915	1,3297	7,6581
22	450	2200	1548	3054	1,3297	7,6581
22	450	2300	1619	3192	1,3297	7,6581
22	450	2400	1689	3331	1,3297	7,6581
22	450	2500	1759	3470	1,3297	7,6581
22	450	2600	1830	3609	1,3297	7,6581
22	450	2700	1900	3748	1,3297	7,6581
22	450	2800	1970	3886	1,3297	7,6581
22	450	2900	2041	4025	1,3297	7,6581
22	450	3000	2111	4164	1,3297	7,6581
22	500	400	306	605	1,3347	8,1700
22	500	500	383	757	1,3347	8,1700
22	500	600	459	908	1,3347	8,1700
22	500	700	536	1059	1,3347	8,1700
22	500	800	612	1210	1,3347	8,1700
22	500	900	689	1362	1,3347	8,1700
22	500	1000	765	1513	1,3347	8,1700
22	500	1100	842	1664	1,3347	8,1700
22	500	1200	918	1816	1,3347	8,1700
22	500	1300	995	1967	1,3347	8,1700
22	500	1400	1071	2118	1,3347	8,1700
22	500	1500	1148	2270	1,3347	8,1700
22	500	1600	1224	2421	1,3347	8,1700
22	500	1700	1301	2572	1,3347	8,1700
22	500	1800	1377	2723	1,3347	8,1700
22	500	1900	1454	2875	1,3347	8,1700
22	500	2000	1530	3026	1,3347	8,1700
22	500	2100	1607	3177	1,3347	8,1700
22	500	2200	1683	3329	1,3347	8,1700

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22	500	2300	1760	3480	1,3347	8,1700
22	500	2400	1836	3631	1,3347	8,1700
22	500	2500	1913	3783	1,3347	8,1700
22	500	2600	1989	3934	1,3347	8,1700
22	500	2700	2066	4085	1,3347	8,1700
22	500	2800	2142	4236	1,3347	8,1700
22	500	2900	2219	4388	1,3347	8,1700
22	500	3000	2295	4539	1,3347	8,1700
22	600	400	351	699	1,3456	9,0398
22	600	500	439	874	1,3456	9,0398
22	600	600	527	1048	1,3456	9,0398
22	600	700	615	1223	1,3456	9,0398
22	600	800	703	1398	1,3456	9,0398
22	600	900	791	1572	1,3456	9,0398
22	600	1000	879	1747	1,3456	9,0398
22	600	1100	966	1922	1,3456	9,0398
22	600	1200	1054	2096	1,3456	9,0398
22	600	1300	1142	2271	1,3456	9,0398
22	600	1400	1230	2446	1,3456	9,0398
22	600	1500	1318	2621	1,3456	9,0398
22	600	1600	1406	2795	1,3456	9,0398
22	600	1700	1494	2970	1,3456	9,0398
22	600	1800	1581	3145	1,3456	9,0398
22	600	1900	1669	3319	1,3456	9,0398
22	600	2000	1757	3494	1,3456	9,0398
22	600	2100	1845	3669	1,3456	9,0398
22	600	2200	1933	3843	1,3456	9,0398
22	600	2300	2021	4018	1,3456	9,0398
22	600	2400	2109	4193	1,3456	9,0398
22	600	2500	2196	4368	1,3456	9,0398
22	600	2600	2284	4542	1,3456	9,0398
22	600	2700	2372	4717	1,3456	9,0398
22	600	2800	2460	4892	1,3456	9,0398
22	600	2900	2548	5066	1,3456	9,0398
22	600	3000	2636	5241	1,3456	9,0398
22	700	400	395	785	1,3455	10,1615
22	700	500	494	982	1,3455	10,1615
22	700	600	592	1178	1,3455	10,1615
22	700	700	691	1374	1,3455	10,1615
22	700	800	790	1570	1,3455	10,1615
22	700	900	889	1767	1,3455	10,1615
22	700	1000	987	1963	1,3455	10,1615
22	700	1100	1086	2159	1,3455	10,1615
22	700	1200	1185	2356	1,3455	10,1615
22	700	1300	1283	2552	1,3455	10,1615

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22	700	1400	1382	2748	1,3455	10,1615
22	700	1500	1481	2945	1,3455	10,1615
22	700	1600	1580	3141	1,3455	10,1615
22	700	1700	1678	3337	1,3455	10,1615
22	700	1800	1777	3533	1,3455	10,1615
22	700	1900	1876	3730	1,3455	10,1615
22	700	2000	1974	3926	1,3455	10,1615
22	700	2100	2073	4122	1,3455	10,1615
22	700	2200	2172	4319	1,3455	10,1615
22	700	2300	2271	4515	1,3455	10,1615
22	700	2400	2369	4711	1,3455	10,1615
22	700	2500	2468	4908	1,3455	10,1615
22	700	2600	2567	5104	1,3455	10,1615
22	700	2700	2666	5300	1,3455	10,1615
22	700	2800	2764	5496	1,3455	10,1615
22	700	2900	2863	5693	1,3455	10,1615
22	700	3000	2962	5889	1,3455	10,1615
22	900	400	471	937	1,3452	12,1428
22	900	500	589	1172	1,3452	12,1428
22	900	600	707	1406	1,3452	12,1428
22	900	700	825	1640	1,3452	12,1428
22	900	800	943	1874	1,3452	12,1428
22	900	900	1061	2109	1,3452	12,1428
22	900	1000	1179	2343	1,3452	12,1428
22	900	1100	1296	2577	1,3452	12,1428
22	900	1200	1414	2812	1,3452	12,1428
22	900	1300	1532	3046	1,3452	12,1428
22	900	1400	1650	3280	1,3452	12,1428
22	900	1500	1768	3515	1,3452	12,1428
22	900	1600	1886	3749	1,3452	12,1428
22	900	1700	2004	3983	1,3452	12,1428
22	900	1800	2121	4217	1,3452	12,1428
22	900	1900	2239	4452	1,3452	12,1428
22	900	2000	2357	4686	1,3452	12,1428
22	900	2100	2475	4920	1,3452	12,1428
22	900	2200	2593	5155	1,3452	12,1428
22	900	2300	2711	5389	1,3452	12,1428
22	900	2400	2828	5623	1,3452	12,1428
22	900	2500	2946	5858	1,3452	12,1428
22	900	2600	3064	6092	1,3452	12,1428
22	900	2700	3182	6326	1,3452	12,1428
22	900	2800	3300	6560	1,3452	12,1428
22	900	2900	3418	6795	1,3452	12,1428
22	900	3000	3536	7029	1,3452	12,1428

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33	300	400	287	559	1,3029	8,5491
33	300	500	359	699	1,3029	8,5491
33	300	600	431	839	1,3029	8,5491
33	300	700	503	979	1,3029	8,5491
33	300	800	575	1118	1,3029	8,5491
33	300	900	647	1258	1,3029	8,5491
33	300	1000	719	1398	1,3029	8,5491
33	300	1100	790	1538	1,3029	8,5491
33	300	1200	862	1678	1,3029	8,5491
33	300	1300	934	1817	1,3029	8,5491
33	300	1400	1006	1957	1,3029	8,5491
33	300	1500	1078	2097	1,3029	8,5491
33	300	1600	1150	2237	1,3029	8,5491
33	300	1700	1222	2377	1,3029	8,5491
33	300	1800	1293	2516	1,3029	8,5491
33	300	1900	1365	2656	1,3029	8,5491
33	300	2000	1437	2796	1,3029	8,5491
33	300	2100	1509	2936	1,3029	8,5491
33	300	2200	1581	3076	1,3029	8,5491
33	300	2300	1653	3215	1,3029	8,5491
33	300	2400	1725	3355	1,3029	8,5491
33	300	2500	1796	3495	1,3029	8,5491
33	300	2600	1868	3635	1,3029	8,5491
33	300	2700	1940	3775	1,3029	8,5491
33	300	2800	2012	3914	1,3029	8,5491
33	300	2900	2084	4054	1,3029	8,5491
33	300	3000	2156	4194	1,3029	8,5491
33	400	400	367	716	1,3099	10,6565
33	400	500	459	896	1,3099	10,6565
33	400	600	550	1075	1,3099	10,6565
33	400	700	642	1254	1,3099	10,6565
33	400	800	734	1433	1,3099	10,6565
33	400	900	826	1612	1,3099	10,6565
33	400	1000	917	1791	1,3099	10,6565
33	400	1100	1009	1970	1,3099	10,6565
33	400	1200	1101	2149	1,3099	10,6565
33	400	1300	1192	2328	1,3099	10,6565
33	400	1400	1284	2507	1,3099	10,6565
33	400	1500	1376	2687	1,3099	10,6565
33	400	1600	1468	2866	1,3099	10,6565
33	400	1700	1559	3045	1,3099	10,6565
33	400	1800	1651	3224	1,3099	10,6565
33	400	1900	1743	3403	1,3099	10,6565
33	400	2000	1835	3582	1,3099	10,6565

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33	400	2100	1926	3761	1,3099	10,6565
33	400	2200	2018	3940	1,3099	10,6565
33	400	2300	2110	4119	1,3099	10,6565
33	400	2400	2201	4298	1,3099	10,6565
33	400	2500	2293	4478	1,3099	10,6565
33	400	2600	2385	4657	1,3099	10,6565
33	400	2700	2477	4836	1,3099	10,6565
33	400	2800	2568	5015	1,3099	10,6565
33	400	2900	2660	5194	1,3099	10,6565
33	400	3000	2752	5373	1,3099	10,6565
33	450	400	404	790	1,3134	11,5974
33	450	500	505	988	1,3134	11,5974
33	450	600	606	1186	1,3134	11,5974
33	450	700	707	1383	1,3134	11,5974
33	450	800	808	1581	1,3134	11,5974
33	450	900	909	1778	1,3134	11,5974
33	450	1000	1010	1976	1,3134	11,5974
33	450	1100	1111	2174	1,3134	11,5974
33	450	1200	1212	2371	1,3134	11,5974
33	450	1300	1313	2569	1,3134	11,5974
33	450	1400	1414	2766	1,3134	11,5974
33	450	1500	1515	2964	1,3134	11,5974
33	450	1600	1616	3162	1,3134	11,5974
33	450	1700	1717	3359	1,3134	11,5974
33	450	1800	1818	3557	1,3134	11,5974
33	450	1900	1919	3754	1,3134	11,5974
33	450	2000	2020	3952	1,3134	11,5974
33	450	2100	2121	4150	1,3134	11,5974
33	450	2200	2222	4347	1,3134	11,5974
33	450	2300	2323	4545	1,3134	11,5974
33	450	2400	2424	4742	1,3134	11,5974
33	450	2500	2526	4940	1,3134	11,5974
33	450	2600	2627	5138	1,3134	11,5974
33	450	2700	2728	5335	1,3134	11,5974
33	450	2800	2829	5533	1,3134	11,5974
33	450	2900	2930	5730	1,3134	11,5974
33	450	3000	3031	5928	1,3134	11,5974

33	500	400	440	861	1,3168	12,4692
33	500	500	549	1077	1,3168	12,4692
33	500	600	659	1292	1,3168	12,4692
33	500	700	769	1507	1,3168	12,4692
33	500	800	879	1722	1,3168	12,4692
33	500	900	989	1938	1,3168	12,4692
33	500	1000	1099	2153	1,3168	12,4692
33	500	1100	1209	2368	1,3168	12,4692
33	500	1200	1319	2584	1,3168	12,4692

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33	500	1300	1428	2799	1,3168	12,4692
33	500	1400	1538	3014	1,3168	12,4692
33	500	1500	1648	3230	1,3168	12,4692
33	500	1600	1758	3445	1,3168	12,4692
33	500	1700	1868	3660	1,3168	12,4692
33	500	1800	1978	3875	1,3168	12,4692
33	500	1900	2088	4091	1,3168	12,4692
33	500	2000	2198	4306	1,3168	12,4692
33	500	2100	2307	4521	1,3168	12,4692
33	500	2200	2417	4737	1,3168	12,4692
33	500	2300	2527	4952	1,3168	12,4692
33	500	2400	2637	5167	1,3168	12,4692
33	500	2500	2747	5383	1,3168	12,4692
33	500	2600	2857	5598	1,3168	12,4692
33	500	2700	2967	5813	1,3168	12,4692
33	500	2800	3077	6028	1,3168	12,4692
33	500	2900	3186	6244	1,3168	12,4692
33	500	3000	3296	6459	1,3168	12,4692
33	600	400	505	994	1,3238	13,9976
33	600	500	632	1242	1,3238	13,9976
33	600	600	758	1490	1,3238	13,9976
33	600	700	884	1739	1,3238	13,9976
33	600	800	1011	1987	1,3238	13,9976
33	600	900	1137	2236	1,3238	13,9976
33	600	1000	1263	2484	1,3238	13,9976
33	600	1100	1390	2732	1,3238	13,9976
33	600	1200	1516	2981	1,3238	13,9976
33	600	1300	1642	3229	1,3238	13,9976
33	600	1400	1768	3478	1,3238	13,9976
33	600	1500	1895	3726	1,3238	13,9976
33	600	1600	2021	3974	1,3238	13,9976
33	600	1700	2147	4223	1,3238	13,9976
33	600	1800	2274	4471	1,3238	13,9976
33	600	1900	2400	4720	1,3238	13,9976
33	600	2000	2526	4968	1,3238	13,9976
33	600	2100	2653	5216	1,3238	13,9976
33	600	2200	2779	5465	1,3238	13,9976
33	600	2300	2905	5713	1,3238	13,9976
33	600	2400	3032	5962	1,3238	13,9976
33	600	2500	3158	6210	1,3238	13,9976
33	600	2600	3284	6458	1,3238	13,9976
33	600	2700	3411	6707	1,3238	13,9976
33	600	2800	3537	6955	1,3238	13,9976
33	600	2900	3663	7204	1,3238	13,9976
33	600	3000	3790	7452	1,3238	13,9976
33	700	400	566	1115	1,3282	15,4426
33	700	500	707	1394	1,3282	15,4426
33	700	600	849	1673	1,3282	15,4426
33	700	700	990	1952	1,3282	15,4426
33	700	800	1132	2230	1,3282	15,4426
33	700	900	1273	2509	1,3282	15,4426
33	700	1000	1415	2788	1,3282	15,4426
33	700	1100	1556	3067	1,3282	15,4426
33	700	1200	1698	3346	1,3282	15,4426
33	700	1300	1839	3624	1,3282	15,4426
33	700	1400	1980	3903	1,3282	15,4426
33	700	1500	2122	4182	1,3282	15,4426

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33	700	1600	2263	4461	1,3282	15,4426
33	700	1700	2405	4740	1,3282	15,4426
33	700	1800	2546	5018	1,3282	15,4426
33	700	1900	2688	5297	1,3282	15,4426
33	700	2000	2829	5576	1,3282	15,4426
33	700	2100	2971	5855	1,3282	15,4426
33	700	2200	3112	6134	1,3282	15,4426
33	700	2300	3254	6412	1,3282	15,4426
33	700	2400	3395	6691	1,3282	15,4426
33	700	2500	3536	6970	1,3282	15,4426
33	700	2600	3678	7249	1,3282	15,4426
33	700	2700	3819	7528	1,3282	15,4426
33	700	2800	3961	7806	1,3282	15,4426
33	700	2900	4102	8085	1,3282	15,4426
33	700	3000	4244	8364	1,3282	15,4426
33	900	400	670	1326	1,337	17,7456
33	900	500	837	1658	1,337	17,7456
33	900	600	1005	1990	1,337	17,7456
33	900	700	1172	2321	1,337	17,7456
33	900	800	1340	2653	1,337	17,7456
33	900	900	1507	2984	1,337	17,7456
33	900	1000	1675	3316	1,337	17,7456
33	900	1100	1842	3648	1,337	17,7456
33	900	1200	2010	3979	1,337	17,7456
33	900	1300	2177	4311	1,337	17,7456
33	900	1400	2345	4642	1,337	17,7456
33	900	1500	2512	4974	1,337	17,7456
33	900	1600	2680	5306	1,337	17,7456
33	900	1700	2847	5637	1,337	17,7456
33	900	1800	3015	5969	1,337	17,7456
33	900	1900	3182	6300	1,337	17,7456
33	900	2000	3350	6632	1,337	17,7456
33	900	2100	3517	6964	1,337	17,7456
33	900	2200	3685	7295	1,337	17,7456
33	900	2300	3852	7627	1,337	17,7456
33	900	2400	4020	7958	1,337	17,7456
33	900	2500	4187	8290	1,337	17,7456
33	900	2600	4355	8622	1,337	17,7456
33	900	2700	4522	8953	1,337	17,7456
33	900	2800	4690	9285	1,337	17,7456
33	900	2900	4857	9616	1,337	17,7456
33	900	3000	5025	9948	1,337	17,7456

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