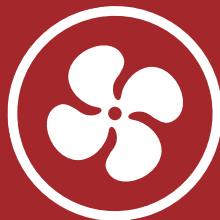




jaga



LOW SURFACE
TEMPERATURE (LST)



JAGA VALUES



Jaga is built on five core values which run through everything we do.

We are devoted to developing heating, cooling and ventilation solutions that use less energy and raw materials. The most environmentally-friendly way is the Jaga way!

RESPECT NATURE

Striking the balance between man and the environment, we must respect our planet and work to preserve it for the future.



RESPECT NATURE

AWAKE THE ARTIST

We create technology to deliver high performance. Our products are also design objects which complement the surroundings.

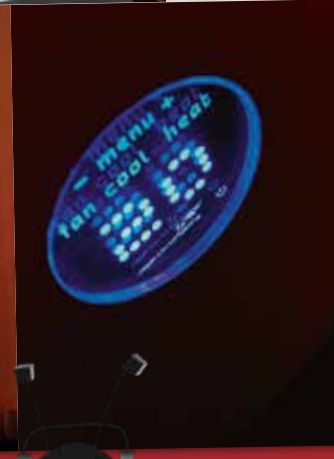
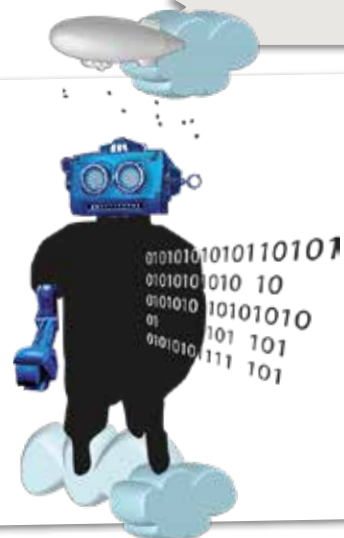


AWAKE THE ARTIST



DREAM A FUTURE

We look to the future when designing products to create a positive impact on people's lives and our planet.



DREAM A FUTURE

CREATE EMOTION

Life is about passion, emotions and experiences and we use all of these to create exciting and unique designs.



CREATE EMOTION

BUILDING BRIDGES



BUILDING BRIDGES

We choose to work with like-minded people and companies to unite forces to build a better world.



THE JAGA LST PORTFOLIO

OUR COMPREHENSIVE RANGE OFFERS YOU THE OPTIMUM SOLUTION FOR ALL APPLICATIONS.

Product	Options	Recommended Application	Key Features	Sizes	Options	Notes
TEMPO LST 	- Wall mounted above skirting - Freestanding - Freestanding with extended foot	- Care & Nursing Homes - Sheltered Housing	- Rounded corners - Easy handling & storage - Great value for money - Split deliveries (if required) - Damaged casing parts easily replaced	Wall: - Heights 200 to 900mm - Lengths 400 to 3000mm Freestanding: - Heights 200 to 500mm - Lengths 400 to 3000mm	- DBE - High level valve - Casing locks - Pencil-proof grille - Continuous casings - Twin emitter - Oxygen ventilation system	- Flat packed for reduced storage - For Tempo Freestanding both fixed and adjustable length feet are available
GUARDIAN LST 	- Wall mounted above skirting (WT) - Wall mounted with casing to finished floor level (FT)	- Care & Nursing Homes - Sheltered Housing - Educational Establishments - Public & Government Buildings - Hotels and Leisure Centres - Hospitals & Healthcare	- One piece casing - Rounded corners - Knock-outs for valves and skirting (FT only) - Many sizes held as stocked items for fast delivery - Casing locks - Split deliveries (if required)	Wall (WT): - Heights 400 to 600mm - Lengths 440 to 2040mm Floor (FT): - Heights 400 to 800mm - Lengths 440 to 2040mm	- DBE - High level valve - Oxygen - Pencil-proof grille - Oxygen ventilation system	- With casing to finished floor level, all pipework is covered preventing access to the underside (FT)
MAXI 2020 LST 	- Wall mounted above skirting - Wall fixed/floor mounted - Top or front face grilles WF - Wall model with front grille WT - Wall model with top grille FF - Floor model with two front grilles FT - Floor model with top grille	- Care & Nursing Homes - Prisons & Secure Facilities - Hospitals & Healthcare - Any Heavy Duty Applications - Hotels and Leisure Centres - Educational Establishments	- Super strong casing - Rounded corners - Split deliveries (if required) - Casing locks	Wall: - Heights 440 to 740mm - Lengths 630 to 2030mm Floor: - Heights 590 to 740mm - Lengths 630 to 2030mm	- DBE - High level valve - Range of colours - Anti bacterial coating - Anti ligature grilles (FT/FF) - Continuous casings - Pencil-proof grille (WT/FT) - Oxygen ventilation system	- Floor model with casing to finished floor level, all pipework is covered preventing access to the underside (FF/FT) - 1.5mm thick steel 'U' channels riveted together for an ultra strong front panel

For information on all of our LST range please contact customer services on 01531 631533 or www.jaga.co.uk

LOW-H₂O: LIGHTER, FASTER AND EFFICIENT

THE LOW WATER CONTENT RADIATOR

Jaga's Low-H₂O radiators contain 90% less water than that of a steel panel radiator, meaning they are faster to heat up and cool down. This means Low-H₂O radiators react faster to the occupants' needs as well as changes to ambient temperature. This ensures better comfort with less energy consumption, no wasteful over-heating and reduced demand on the heating system itself. They also have no heavy steel panels that require pre-heating, are far lighter to install and remain much lighter when fully filled during usage. The ultra-modern aluminium and copper heat exchanger, which comes with a 30 year guarantee provides rapid energy efficient heat to any space.

RESPECT NATURE



Research by KIWA show that Low-H₂O radiators consume between 9 and 16%* less energy than a system with steel panel radiators. They achieve the desired temperature faster with less heat wasted through unnecessary over-heating, common in heavier radiators.



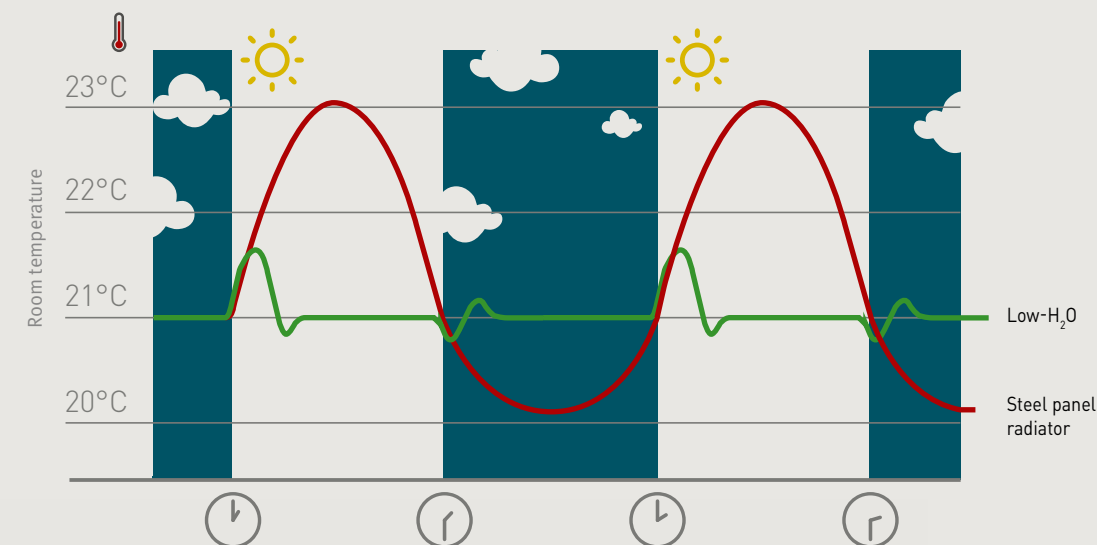
Comparison Low-H₂O/panel radiators

	Water temp. > 50°C Saving	Water temp. ≤ 50°C Saving
Renovation	13%	16%
New-builds	9%	10%

There is a clear connection between the weight of the radiator, its reaction time and the energy savings it offers.

Fastest response time for maximum comfort

COMPARISON OF RESPONSE TIME TO TEMPERATURE CHANGES



PROVEN TO BE THE WORLD'S MOST ECONOMICAL RADIATOR

Jaga's Low-H₂O technology has been thoroughly tested over the years by a variety of independent bodies, receiving the title of Most Economical Radiator following tests carried out by the Dutch testing body KIWA. Jaga's Low-H₂O radiator achieves consistently high efficiency performance standards every time.

Low-H₂O radiators are more efficient at all water temperatures, making them the perfect partner for renewable systems and boilers alike. In all conditions

Low-H₂O radiators achieve the maximum scores set by ISSO. Without a maximum score*, the Low-H₂O exchanger would achieve even higher. KIWA found Low-H₂O to be at least 5% more economical than underfloor heating.

**The minimum required score is 1.00 (100%) for Low-H₂O as per the quality declaration, and average score of 0.05 (95%) for underfloor heating, according to NEN7120, Table 14.1, delivery efficiency up to 8m.*





DYNAMIC BOOST EFFECT (DBE) TECHNOLOGY

RADIATORS THAT ACTUALLY WORK WITH HEAT PUMPS



UP TO
3 TIMES THE
HEATING OUTPUT
AT LOWER WATER
TEMPERATURES

Heat pumps and solar thermal energy generally require much larger radiators as they operate with very low water temperatures that often don't exceed 35°C. Low-H₂O radiators do not need to increase in size when working with lower water temperatures.

With DBE technology the same heat output can be achieved from a similar size radiator compared to a radiator working with a gas or oil fired heating system, allowing the installation of renewable heating systems without compromising on comfort and aesthetics.

Jaga's innovative DBE technology is a self-regulating system which responds automatically to changes in room temperature. When in **comfort mode** the DBE system operates by measuring radiator water temperature and room air temperature to boost outputs as needed. DBE can also be manually triggered to further increase outputs for approximately 15 minutes in boost mode.

Low-H₂O radiators still deliver effective heating even with DBE in standby mode. DBE however is not a standalone fan or air conditioner and needs to be partnered with the Low-H₂O heat exchanger to be effective.



TEMPO LST

SAFE, SUBTLE AND CLASSIC DESIGN

Jaga's Tempo LST is our most popular entry level LST with:

- The widest range of sizes in wall mounted, freestanding and continuous models available
- Energy savings of up to 15%*
- Ease of handling and storage
- Dynamic boost effect (DBE) technology, meaning greater heat output and compact sizes even at low temperatures (see DBE page 10)

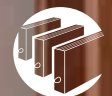
- Parts easily replaced if damaged without the cost of replacing the whole radiator
- Works with Jaga's ventilation solution 'Oxygen' to deliver combined ventilation and heating in one system.

Jaga's Tempo LST is a popular choice for low surface temperature heating solutions. Widely specified in care homes and retirement living for its safety features, energy efficiency, and having been designed to meet the NHS Estates guidelines for heat emitters.

*As tested by BRE



Award winning Low-H₂O technology



Wide range of sizes with a choice of designs



Outstanding performance with low temperature systems



Valve options can be concealed in casing



No radiant heat loss to the wall



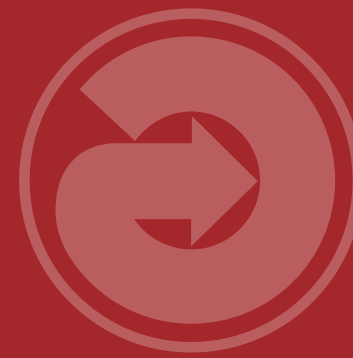
In stock, fast delivery



Split deliveries



BIM files available



jaga

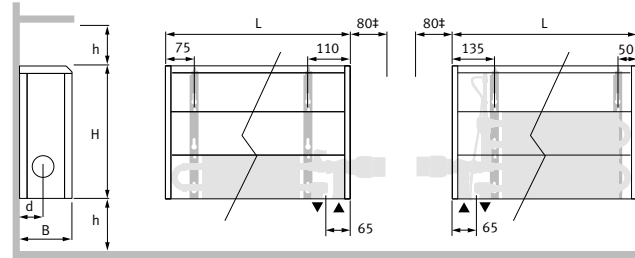
PRESENTING TEMPO LST



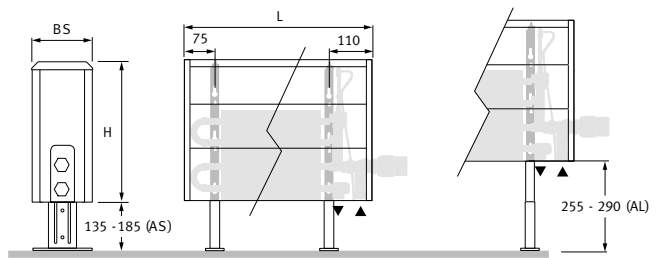
TEMPO LST

DIMENSIONS (in mm)

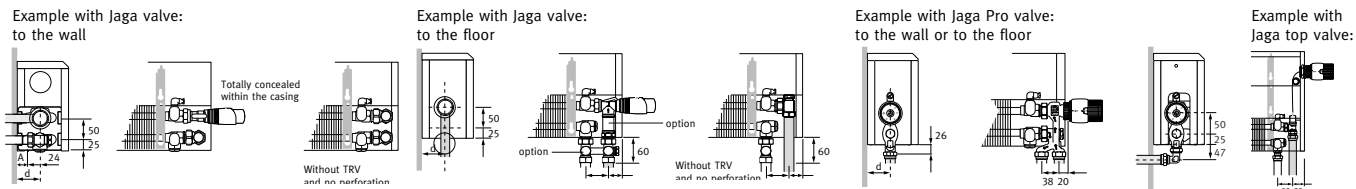
Tempo LST wall mounted



Tempo LST freestanding



≠ Max. when using Jaga TRV and Head

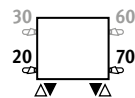


Type	Connection to floor d (mm)	Connection to wall A (mm)	Clearance h (mm)
10/11	53	29	100
15/16	78	53	120
20/21	103	79	150
B		BS	
10/11	119	130	
15/16	169	180	
20/21	129	230	

CONNECTION

Jaga valves can be concealed within the standard casing. Other valves may be partially visible.

High level valve details: see "Valves and TRVs".



COLOURS

Environmentally friendly, scratch-resistant, high UV resistant coating.

Colour:

- White RAL 9010 (101), soft touch satin finish

ORDERING CODE

code height length type colour
TEMW . 040 060 10 . 101

For example using ordering code TEMW 040 060 10 101 will result in a Tempo wall model with white casing, 400mm high, 600mm long and type 10.

ORDERING CODE WITH DBE

code height length type colour Option
TEMW . 040 080 10 . 101 /DBE

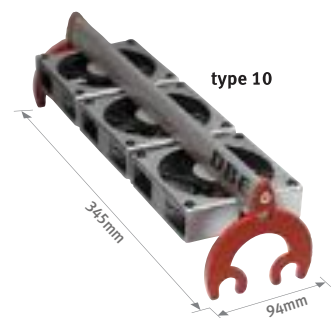
Products with DBE have outputs shown based on 'comfort' mode (see page 9).

For other outputs, please see www.jaga.co.uk



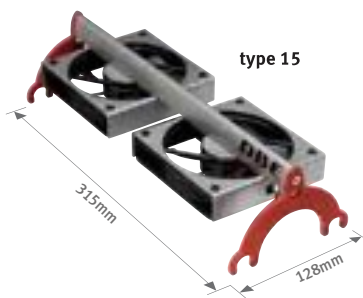
OPTIONAL: DBE

DBE UNIT DBEU.10



To suit types 10 & 11

DBE UNIT DBEU.15



To suit types 15, 16, 20 & 21

STOCK ITEMS

All wall mounted models up to 2000 long in all heights are held in stock, all other sizes are made to order.

All freestanding models are made to order.

Split delivery options available. Please contact our customer service team to discuss your requirements and availability on large quantity orders.



HEIGHT 200 - OUTPUT TABLES

TECHNICAL INFO

TEMW.020 LLL TT.101

Length mm	STANDARD			STANDARD		
	Type	Watts 75/65	Watts 55/45	Type	Weight	Water Content
400	10	262	127	10	2.9	0.25
	15	436	212	15	3.9	0.38
	20	613	299	20	4.8	0.50
500	10	328	159	10	3.4	0.31
	15	545	265	15	4.5	0.47
	20	766	373	20	5.5	0.63
600	10	393	191	10	3.7	0.38
	15	654	319	15	5.0	0.56
	20	919	448	20	6.3	0.75
700	10	459	223	10	4.2	0.44
	15	763	372	15	5.7	0.66
	20	1072	522	20	7.0	0.88
800	10	524	255	10	4.7	0.50
	15	872	425	15	6.2	0.76
	20	1226	597	20	7.7	1.01
900	10	590	287	10	5.2	0.57
	15	981	478	15	6.8	0.86
	20	1379	672	20	8.4	1.14
1000	10	655	318	10	5.5	0.65
	15	1090	531	15	7.4	0.95
	20	1532	746	20	9.2	1.25
1100	10	721	350	10	6.0	0.69
	15	1199	584	15	7.9	1.05
	20	1685	821	20	9.9	1.39
1200	10	786	382	10	6.5	0.76
	15	1308	637	15	8.6	1.14
	20	1838	895	20	10.7	1.52
1400	10	917	446	10	7.5	0.89
	15	1526	743	15	9.9	1.34
	20	2145	1045	20	12.3	1.78
1600	10	1048	509	10	8.4	1.02
	15	1744	850	15	11.2	1.53
	20	2451	1194	20	13.8	2.04
1800	10	1179	573	10	9.3	1.14
	15	1962	956	15	12.3	1.73
	20	2758	1343	20	15.2	2.30
2000	10	1310	637	10	10.2	1.27
	15	2180	1062	15	13.4	1.92
	20	3064	1493	20	16.7	2.56
2200	10	1441	700	10	11.0	1.40
	15	2398	1168	15	14.6	2.11
	20	3370	1642	20	18.2	2.81
2400	10	1572	764	10	12.2	1.53
	15	2616	1274	15	16.0	2.30
	20	3677	1791	20	20.0	3.07
2600	10	1703	827	10	13.1	1.66
	15	2834	1381	15	17.2	2.49
	20	3983	1940	20	21.4	3.33
2800	10	1834	891	10	13.9	1.79
	15	3052	1487	15	18.3	2.69
	20	4290	2090	20	22.8	3.58
3000	10	1965	955	10	14.8	1.92
	15	3270	1593	15	19.5	2.88
	20	4596	2239	20	24.3	3.84

EN442 output at 20°C room temperature

HEIGHT 300 - OUTPUT TABLES

TEMW.030 LLL TT.101						
Length mm	STANDARD			TWIN		
	Type	Watts	Watts	Type	Watts	Watts
		75/65	55/45		75/65	55/45
400	10	330	161	11	448	215
	15	544	267	16	592	281
	20	762	373	21	779	368
500	10	413	202	11	561	269
	15	680	333	16	740	352
	20	953	467	21	974	460
600	10	496	242	11	673	323
	15	815	399	16	888	422
	20	1144	561	21	1169	552
700	10	578	282	11	785	376
	15	951	466	16	1036	492
	20	1334	654	21	1364	644
800	10	661	323	11	897	430
	15	1087	533	16	1184	563
	20	1525	747	21	1558	736
900	10	743	363	11	1009	484
	15	1223	599	16	1332	633
	20	1715	841	21	1753	828
1000	10	826	403	11	1121	537
	15	1359	666	16	1480	703
	20	1906	934	21	1948	920
1100	10	909	444	11	1233	591
	15	1495	733	16	1628	774
	20	2097	1028	21	2143	1012
1200	10	991	484	11	1345	645
	15	1631	799	16	1776	844
	20	2287	1121	21	2338	1105
1400	10	1156	565	11	1569	752
	15	1903	933	16	2072	985
	20	2668	1308	21	2727	1288
1600	10	1322	646	11	1794	860
	15	2174	1066	16	2368	1126
	20	3050	1495	21	3117	1473
1800	10	1487	726	11	2018	967
	15	2446	1199	16	2664	1266
	20	3431	1682	21	3506	1656
2000	10	1652	807	11	2242	1074
	15	2718	1332	16	2960	1407
	20	3812	1868	21	3896	1841
2200	10	1817	887	11	2466	1182
	15	2990	1465	16	3256	1548
	20	4193	2055	21	4286	2025
2400	10	1982	968	11	2690	1289
	15	3262	1599	16	3552	1688
	20	4574	2242	21	4675	2209
2600	10	2148	1049	11	2915	1397
	15	3533	1732	16	3848	1829
	20	4956	2429	21	5065	2393
2800	10	2313	1130	11	3139	1504
	15	3805	1865	16	4144	1970
	20	5337	2616	21	5454	2577
3000	10	2478	1210	11	3363	1612
	15	4077	1998	16	4440	2110
	20	5718	2802	21	5844	2761

TECHNICAL INFO

TEMW.030 LLL TT.101/DBE									
WITH DBE				STANDARD		TWIN & TWIN WITH DBE			
Type	Watts	Watts	Watts	Weight	Water	Weight	Water	Fan	Noise Level
	75/65	55/45	45/38		Content		Content	(Number)	dB(A)
11	N/A	N/A	N/A	3.6	0.25	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	4.8	0.38	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	5.9	0.50	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	4.2	0.31	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	5.5	0.47	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	6.7	0.63	N/A	N/A	N/A	N/A
11	973	584	418	4.7	0.38	6.5	0.73	1 DBEU.10	29.0
16	1368	821	588	6.1	0.56	8.5	1.07	1 DBEU.15	27.0
21	1649	989	709	7.5	0.75	10.2	1.43	1 DBEU.15	27.0
11	1085	651	467	5.3	0.44	7.2	0.86	1 DBEU.10	29.0
16	1516	910	652	6.8	0.66	9.3	1.26	1 DBEU.15	27.0
21	1844	1106	793	8.3	0.88	11.2	1.69	1 DBEU.15	27.0
11	1197	718	515	5.7	0.50	7.8	0.99	1 DBEU.10	29.0
16	1664	998	716	7.5	0.76	10.3	1.46	1 DBEU.15	27.0
21	2038	1223	876	9.1	1.01	12.4	1.95	1 DBEU.15	27.0
11	1609	965	692	6.3	0.57	9.2	1.12	2 DBEU.10	32.0
16	2292	1375	986	8.1	0.86	12.2	1.65	2 DBEU.15	30.0
21	2713	1628	1167	9.9	1.14	14.4	2.21	2 DBEU.15	30.0
11	1721	1033	740	6.8	0.63	9.9	1.25	2 DBEU.10	32.0
16	2440	1464	1049	8.8	0.95	12.9	1.84	2 DBEU.15	30.0
21	2908	1745	1250	10.7	1.27	15.2	2.46	2 DBEU.15	30.0
11	1833	1100	788	7.3	0.69	10.6	1.37	2 DBEU.10	32.0
16	2588	1553	1113	9.4	1.05	13.6	2.03	2 DBEU.15	30.0
21	3103	1862	1334	11.5	1.39	16.3	2.72	2 DBEU.15	30.0
11	1945	1167	836	7.9	0.76	11.4	1.50	2 DBEU.10	32.0
16	2736	1642	1176	10.2	1.14	14.6	2.23	2 DBEU.15	30.0
21	3298	1979	1418	12.3	1.52	17.4	2.97	2 DBEU.15	30.0
11	2169	1301	933	9.2	0.89	13	1.76	2 DBEU.10	32.0
16	3032	1819	1304	11.8	1.34	17.4	2.62	2 DBEU.15	30.0
21	3687	2212	1585	14.3	1.78	21.2	3.50	2 DBEU.15	30.0
11	2994	1796	1287	10.2	1.02	15.6	2.02	4 DBEU.10	35.0
16	4288	2573	1844	13.1	1.53	19.9	3.00	4 DBEU.15	33.0
21	5037	3022	2166	16.0	2.04	23.8	4.00	4 DBEU.15	33.0
11	3218	1931	1384	11.3	1.14	16.9	2.27	4 DBEU.10	35.0
16	4584	2750	1971	14.5	1.73	21.3	3.38	4 DBEU.15	33.0
21	5426	3256	2333	17.6	2.30	26.0	4.51	4 DBEU.15	33.0
11	3442	2065	1480	12.2	1.27	18.2	2.53	4 DBEU.10	35.0
16	4880	2928	2098	15.8	1.92	22.7	3.77	4 DBEU.15	33.0
21	5816	3490	2501	19.2	2.56	28.2	5.04	4 DBEU.15	33.0
11	3666	2200	1576	13.3	1.40	19.5	2.79	4 DBEU.10	35.0
16	5176	3106	2226	17.1	2.11	24.3	4.16	4 DBEU.15	33.0
21	6206	3724	2669	20.8	2.81	30.3	5.55	4 DBEU.15	33.0
11	4490	2694	1931	14.7	1.53	22.5	3.04	6 DBEU.10	36.8
16	6432	3859	2766	18.9	2.30	27.5	4.54	6 DBEU.15	34.8
21	7555	4533	3249	23.0	3.07	34.2	6.05	6 DBEU.15	34.8
11	4715	2829	2027	15.7	1.66	23.9	3.30	6 DBEU.10	36.8
16	6728	4037	2893	20.2	2.49	29.3	4.93	6 DBEU.15	34.8
21	7945	4767	3416	24.5	3.33	36.5	6.58	6 DBEU.15	34.8
11	4939	2963	2124	16.8	1.79	25.1	3.56	6 DBEU.10	36.8
16	7024	4214	3020	21.5	2.69	30.9	5.31	6 DBEU.15	34.8
21	8334	5000	3584	26.1	3.58	38.7	7.09	6 DBEU.15	34.8
11	5163	3098	2220	17.8	1.92	26.5	3.82	6 DBEU.10	36.8
16	7320	4392	3148	22.7	2.88	32.7	5.70	6 DBEU.15	34.8
21	8724	5234	3751	27.7	3.84	41.0	7.61	6 DBEU.15	34.8

EN442 output at 20°C room temperature

HEIGHT 400 - OUTPUT TABLES

TEMW.040 LLL TT.101						
Length mm	STANDARD			TWIN		
	Type	Watts	Watts	Type	Watts	Watts
		75/65	55/45		75/65	55/45
400	10	385	189	11	506	243
	15	627	309	16	680	323
	20	878	433	21	910	428
500	10	482	236	11	632	303
	15	784	386	16	850	403
	20	1098	541	21	1137	535
600	10	578	284	11	758	363
	15	941	464	16	1020	484
	20	1318	650	21	1364	641
700	10	674	331	11	885	424
	15	1098	541	16	1190	564
	20	1537	758	21	1592	749
800	10	770	378	11	1011	485
	15	1254	618	16	1360	645
	20	1757	866	21	1819	855
900	10	867	425	11	1138	546
	15	1411	695	16	1530	726
	20	1976	974	21	2047	963
1000	10	963	472	11	1264	606
	15	1568	773	16	1700	806
	20	2196	1083	21	2274	1069
1100	10	1059	520	11	1390	666
	15	1725	850	16	1870	887
	20	2416	1191	21	2501	1176
1200	10	1156	567	11	1517	727
	15	1882	928	16	2040	968
	20	2635	1299	21	2729	1283
1400	10	1348	661	11	1770	849
	15	2195	1082	16	2380	1129
	20	3074	1516	21	3184	1497
1600	10	1541	756	11	2022	969
	15	2509	1237	16	2720	1290
	20	3514	1733	21	3638	1711
1800	10	1733	850	11	2275	1091
	15	2822	1391	16	3060	1452
	20	3953	1949	21	4093	1925
2000	10	1926	945	11	2528	1212
	15	3136	1546	16	3400	1613
	20	4392	2166	21	4548	2139
2200	10	2119	1040	11	2781	1333
	15	3450	1700	16	3740	1774
	20	4831	2382	21	5003	2353
2400	10	2311	1134	11	3034	1455
	15	3763	1855	16	4080	1935
	20	5270	2599	21	5458	256

HEIGHT 500 - OUTPUT TABLES

TEMW.050 LLL TT.101						
Length mm	STANDARD			TWIN		
	Type	Watts	Watts	Type	Watts	Watts
		75/65	55/45		75/65	55/45
400	10	430	212	11	554	266
	15	694	344	16	759	359
	20	970	481	21	1033	484
500	10	538	265	11	693	332
	15	867	430	16	949	449
	20	1213	602	21	1291	605
600	10	646	318	11	832	399
	15	1040	516	16	1139	539
	20	1455	722	21	1549	725
700	10	753	371	11	970	465
	15	1214	602	16	1329	629
	20	1698	842	21	1807	846
800	10	861	424	11	1109	532
	15	1387	688	16	1518	719
	20	1940	962	21	2066	968
900	10	968	477	11	1247	598
	15	1561	774	16	1708	809
	20	2183	1083	21	2324	1088
1000	10	1076	530	11	1386	665
	15	1734	860	16	1898	898
	20	2425	1203	21	2582	1209
1100	10	1184	584	11	1525	732
	15	1907	946	16	2088	988
	20	2668	1323	21	2840	1330
1200	10	1291	636	11	1663	798
	15	2081	1032	16	2278	1078
	20	2910	1443	21	3098	1451
1400	10	1506	742	11	1940	931
	15	2428	1204	16	2657	1258
	20	3395	1684	21	3615	1693
1600	10	1722	849	11	2218	1064
	15	2774	1376	16	3037	1438
	20	3880	1924	21	4131	1935
1800	10	1937	955	11	2495	1197
	15	3121	1548	16	3416	1617
	20	4365	2165	21	4648	2177
2000	10	2152	1061	11	2772	1330
	15	3468	1720	16	3796	1797
	20	4850	2405	21	5164	2418
2200	10	2367	1167	11	3049	1463
	15	3815	1892	16	4176	1977
	20	5335	2646	21	5680	2660
2400	10	2582	1273	11	3326	1596
	15	4162	2064	16	4555	2156
	20	5820	2886	21	6197	2902
2600	10	2798	1379	11	3604	1729
	15	4508	2236	16	4935	2336
	20	6305	3127	21	6713	3144
2800	10	3013	1485	11	3881	1862
	15	4855	2408	16	5314	2516
	20	6790	3367	21	7230	3386
3000	10	3228	1591	11	4158	1995
	15	5202	2580	16	5694	2695
	20	7275	3608	21	7746	3628

TEMW.050 LLL TT.101/DBE				
WITH DBE				
Type	Watts	Watts	Watts	
	75/65	55/45	45/38	
11	N/A	N/A	N/A	
16	N/A	N/A	N/A	
21	N/A	N/A	N/A	
11	N/A	N/A	N/A	
16	N/A	N/A	N/A	
21	N/A	N/A	N/A	
11	1132	679	487	
16	1619	971	696	
21	2029	1217	872	
11	1270	762	546	
16	1809	1085	778	
21	2287	1372	983	
11	1409	845	606	
16	1998	1199	859	
21	2546	1528	1095	
11	1847	1108	794	
16	2668	1601	1147	
21	3284	1970	1412	
11	1986	1192	854	
16	2858	1715	1229	
21	3542	2125	1523	
11	2125	1275	914	
16	3048	1829	1311	
21	3800	2280	1634	
11	2263	1358	973	
16	3238	1943	1392	
21	4058	2435	1745	
11	2540	1524	1092	
16	3617	2170	1555	
21	4575	2745	1967	
11	3418	2051	1470	
16	4957	2974	2132	
21	6051	3631	2602	
11	3695	2217	1589	
16	5336	3202	2294	
21	6568	3941	2824	
11	3972	2383	1708	
16	5716	3430	2458	
21	7084	4250	3046	
11	4249	2549	1827	
16	6096	3658	2621	
21	7600	4560	3268	
11	5126	3076	2204	
16	7435	4461	3197	
21	9077	5446	3903	
11	5404	3242	2324	
16	7815	4689	3360	
21	9593	5756	4125	
11	5681	3409	2443	
16	8194	4916	3523	
21	10110	6066	4347	
11	5958	3575	2562	
16	8574	5144	3687	
21	10626	6376	4569	

TECHNICAL INFO

STANDARD		TWIN & TWIN WITH DBE			
Weight	Water	Weight	Water	Fan	Noise Level
	Content		Content	(Number)	dB(A)
5.2	0.25	N/A	N/A	N/A	N/A
6.6	0.38	N/A	N/A	N/A	N/A
8.0	0.50	N/A	N/A	N/A	N/A
5.9	0.31	N/A	N/A	N/A	N/A
7.5	0.47	N/A	N/A	N/A	N/A
9.0	0.63	N/A	N/A	N/A	N/A
6.6	0.38	8.4	0.73	1 DBEU.10	29.0
8.3	0.56	10.6	1.07	1 DBEU.15	27.0
10.0	0.75	12.6	1.43	1 DBEU.15	27.0
7.2	0.44	9.2	0.86	1 DBEU.10	29.0
9.1	0.66	11.6	1.26	1 DBEU.15	27.0
10.9	0.88	13.8	1.69	1 DBEU.15	27.0
7.9	0.50	10.0	0.99	1 DBEU.10	29.0
9.9	0.76	12.7	1.46	1 DBEU.15	27.0
11.9	1.01	15.1	1.95	1 DBEU.15	27.0
8.6	0.57	11.6	1.12	2 DBEU.10	32.0
10.7	0.86	14.8	1.65	2 DBEU.15	30.0
12.8	1.14	17.3	2.21	2 DBEU.15	30.0
6.9	0.63	12.3	1.25	2 DBEU.10	32.0
11.5	0.95	15.6	1.84	2 DBEU.15	30.0
13.8	1.27	18.3	2.46	2 DBEU.15	30.0
9.9	0.69	13.2	1.37	2 DBEU.10	32.0
12.3	1.05	16.4	2.03	2 DBEU.15	30.0
14.7	1.39	19.5	2.72	2 DBEU.15	30.0
10.7	0.76	14.1	1.50	2 DBEU.10	32.0
13.2	1.14	17.6	2.23	2 DBEU.15	30.0
15.7	1.52	20.8	2.97	2 DBEU.15	30.0
12.5	0.89	16.3	1.76	2 DBEU.10	32.0
15.4	1.34	21.0	2.62	2 DBEU.15	30.0
18.4	1.78	25.3	3.50	2 DBEU.15	30.0
13.9	1.02	19.2	2.02	4 DBEU.10	35.0
17.1	1.53	23.8	3.00	4 DBEU.15	33.0
20.3	2.04	28.1	4.00	4 DBEU.15	33.0
15.2	1.14	20.8	2.27	4 DBEU.10	35.0
18.7	1.73	25.5	3.38	4 DBEU.15	33.0
22.2	2.30	30.6	4.51	4 DBEU.15	33.0
16.5	1.27	22.4	2.53	4 DBEU.10	35.0
20.3	1.92	27.2	3.77	4 DBEU.15	33.0
24.1	2.56	33.1	5.04	4 DBEU.15	33.0
17.8	1.40	24.0	2.79	4 DBEU.10	35.0
21.9	2.11	29.1	4.16	4 DBEU.15	33.0
26.1	2.81	35.6	5.55	4 DBEU.15	33.0
19.8	1.53	27.5	3.04	6 DBEU.10	36.8
24.3	2.30	32.9	4.54	6 DBEU.15	34.8
29.0	3.07	40.2	6.05	6 DBEU.15	34.8
21.1	1.66	29.1	3.30	6 DBEU.10	36.8
25.9	2.49	35.0	4.93	6 DBEU.15	34.8
30.8	3.33	42.7	6.58	6 DBEU.15	34.8
22.4	1.79	30.7	3.56	6 DBEU.10	36.8
27.5	2.69	36.9	5.31	6 DBEU.15	34.8
32.7	3.58	45.2	7.09	6 DBEU.15	34.8
23.8	1.92	32.4	3.82	6 DBEU.10	36.8
29.1	2.88	39.0	5.70	6 DBEU.15	34.8
34.6	3.84	47.8	7.61	6 DBEU.15	34.8

EN442 output at 20°C room temperature

HEIGHT 600 - OUTPUT TABLES

TEMW.060 LLL TT.101						
Length mm	STANDARD			TWIN		
	Type	Watts	Watts	Type	Watts	Watts
		75/65	55/45		75/65	55/45
400	10	468	232	11	598	287
	15	746	372	16	834	394
	20	1043	520	21	1153	538
500	10	585	290	11	747	359
	15	933	466	16	1042	492
	20	1304	651	21	1441	672
600	10	702	348	11	896	430
	15	1120	559	16	1250	591
	20	1565	781	21	1729	806
700	10	819	406	11	1046	502
	15	1306	652	16	1459	689
	20	1826	911	21	2017	941
800	10	936	463	11	1195	574
	15	1493	745	16	1667	788
	20	2086	1041	21	2306	1076
900	10	1053	521	11	1345	646
	15	1679	838	16	1876	886
	20	2347	1171	21	2594	1210
1000	10	1170	579	11	1494	717
	15	1866	931	16	2084	985
	20	2608	1301	21	2882	1344
1100	10	1287	637	11	1643	789
	15	2053	1024	16	2292	1083
	20	2869	1432	21	3170	1479
1200	10	1404	695	11	1793	861
	15	2239	1117	16	2501	1182
	20	3130	1562	21	3458	1613
1400	10	1638	811	11	2092	1004
	15	2612	1303	16	2918	1379
	20	3651	1822	21	4035	1882
1600	10	1872	927	11	2390	1147
	15	2986	1490	16	3334	1575
	20	4173	2082	21	4611	2151
1800	10	2106	1043	11	2689	1291
	15	3359	1676	16	3751	1772
	20	4694	2342	21	5188	2420
2000	10	2340	1159	11	2988	14

HEIGHT 700 - OUTPUT TABLES

TEMW.070 LLL TT.101						
Length mm	STANDARD			TWIN		
	Type	Watts	Watts	Type	Watts	Watts
		75/65	55/45		75/65	55/45
400	10	499	248	11	636	305
	15	789	396	16	904	426
	20	1101	553	21	1271	590
500	10	624	311	11	795	382
	15	986	495	16	1130	533
	20	1377	691	21	1589	738
600	10	749	373	11	954	458
	15	1183	594	16	1356	639
	20	1652	829	21	1906	885
700	10	874	435	11	1113	534
	15	1380	692	16	1582	746
	20	1927	967	21	2224	1033
800	10	998	497	11	1272	611
	15	1578	792	16	1808	852
	20	2202	1105	21	2542	1181
900	10	1123	559	11	1431	687
	15	1775	891	16	2034	959
	20	2478	1244	21	2859	1328
1000	10	1248	621	11	1590	764
	15	1972	989	16	2260	1065
	20	2753	1382	21	3177	1476
1100	10	1373	683	11	1749	840
	15	2169	1088	16	2486	1172
	20	3028	1520	21	3495	1623
1200	10	1498	746	11	1908	916
	15	2366	1187	16	2712	1279
	20	3304	1659	21	3812	1771
1400	10	1747	869	11	2226	1069
	15	2761	1385	16	3164	1492
	20	3854	1935	21	4448	2066
1600	10	1997	994	11	2544	1222
	15	3155	1583	16	3616	1705
	20	4405	2211	21	5083	2361
1800	10	2246	1118	11	2862	1374
	15	3550	1781	16	4068	1918
	20	4955	2488	21	5719	2657
2000	10	2496	1242	11	3180	1527
	15	3944	1979	16	4520	2131
	20	5506	2764	21	6354	2952
2200	10	2746	1367	11	3498	1680
	15	4338	2177	16	4972	2344
	20	6057	3041	21	6989	3247
2400	10	2995	1491	11	3816	1832
	15	4733	2375	16	5424	2557
	20	6607	3317	21	7625	3542
2600	10	3245	1615	11	4134	1985
	15	5127	2573	16	5876	2770
	20	7158	3594	21	8260	3837
2800	10	3494	1739	11	4452	2138
	15	5522	2771	16	6328	2983
	20	7708	3870	21	8896	4132
3000	10	3744	1863	11	4770	2291
	15	5916	2968	16	6780	3196
	20	8259	4146	21	9531	4427

TECHNICAL INFO

TEMW.070 LLL TT.101/DBE									
WITH DBE				STANDARD		TWIN & TWIN WITH DBE			
Type	Watts	Watts	Watts	Weight	Water	Weight	Water	Fan	Noise Level
	75/65	55/45	45/38		Content		Content	(Number)	dB(A)
11	N/A	N/A	N/A	6.8	0.25	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	8.5	0.38	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	10.2	0.50	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	7.6	0.31	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	9.4	0.47	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	11.3	0.63	N/A	N/A	N/A	N/A
11	1254	752	539	8.4	0.38	10.3	0.73	1 DBEU.10	29.0
16	1836	1102	789	10.4	0.56	12.8	1.07	1 DBEU.15	27.0
21	2386	1432	1026	12.3	0.75	15.0	1.43	1 DBEU.15	27.0
11	1413	848	608	9.3	0.44	11.3	0.86	1 DBEU.10	29.0
16	2062	1237	887	11.4	0.66	14.0	1.26	1 DBEU.15	27.0
21	2704	1622	1163	13.5	0.88	16.4	1.69	1 DBEU.15	27.0
11	1572	943	676	10.1	0.50	12.2	0.99	1 DBEU.10	29.0
16	2288	1373	984	12.3	0.76	15.2	1.46	1 DBEU.15	27.0
21	3022	1813	1299	14.5	1.01	17.9	1.95	1 DBEU.15	27.0
11	2031	1219	873	10.8	0.57	13.8	1.12	2 DBEU.10	32.0
16	2994	1796	1287	13.3	0.86	17.4	1.65	2 DBEU.15	30.0
21	3819	2291	1642	15.7	1.14	20.2	2.21	2 DBEU.15	30.0
11	2190	1314	942	11.6	0.63	14.8	1.25	2 DBEU.10	32.0
16	3220	1932	1385	14.2	0.95	18.4	1.84	2 DBEU.15	30.0
21	4137	2482	1779	16.7	1.27	21.3	2.46	2 DBEU.15	30.0
11	2349	1409	1010	12.5	0.69	15.9	1.37	2 DBEU.10	32.0
16	3446	2068	1482	15.2	1.05	19.4	2.03	2 DBEU.15	30.0
21	4455	2673	1916	17.9	1.39	22.7	2.72	2 DBEU.15	30.0
11	2508	1505	1078	13.4	0.76	16.9	1.50	2 DBEU.10	32.0
16	3672	2203	1579	16.2	1.14	20.7	2.23	2 DBEU.15	30.0
21	4772	2863	2052	19.1	1.52	24.2	2.97	2 DBEU.15	30.0
11	2826	1696	1215	15.8	0.89	19.6	1.76	2 DBEU.10	32.0
16	4124	2474	1773	19.1	1.34	24.6	2.62	2 DBEU.15	30.0
21	5408	3245	2325	22.5	1.78	29.3	3.50	2 DBEU.15	30.0
11	3744	2246	1610	17.4	1.02	22.8	2.02	4 DBEU.10	35.0
16	5536	3322	2380	21.0	1.53	27.7	3.00	4 DBEU.15	33.0
21	7003	4202	3011	24.7	2.04	32.4	4.00	4 DBEU.15	33.0
11	4062	2437	1747	19.0	1.14	24.6	2.27	4 DBEU.10	35.0
16	5988	3593	2575	22.9	1.73	29.7	3.38	4 DBEU.15	33.0
21	7639	4583	3285	26.9	2.30	35.2	4.51	4 DBEU.15	33.0
11	4380	2628	1883	20.6	1.27	26.6	2.53	4 DBEU.10	35.0
16	6440	3864	2769	24.9	1.92	31.7	3.77	4 DBEU.15	33.0
21	8274	4964	3558	29.1	2.56	38.0	5.04	4 DBEU.15	33.0
11	4698	2819	2020	22.3	1.40	28.5	2.79	4 DBEU.10	35.0
16	6892	4135	2964	26.8	2.11	33.9	4.16	4 DBEU.15	33.0
21	8909	5345	3831	31.3	2.81	40.7	5.55	4 DBEU.15	33.0
11	5616	3370	2415	24.8	1.53	32.5	3.04	6 DBEU.10	36.8
16	8304	4982	3571	29.8	2.30	38.5	4.54	6 DBEU.15	34.8
21	10505	6303	4517	34.8	3.07	46.1	6.05	6 DBEU.15	34.8
11	5934	3560	2552	26.4	1.66	34.5	3.30	6 DBEU.10	36.8
16	8756	5254	3765	31.7	2.49	40.9	4.93	6 DBEU.15	34.8
21	11140	6684	4790	37.0	3.33	48.9	6.58	6 DBEU.15	34.8
11	6252	3751	2688	28.1	1.79	36.4	3.56	6 DBEU.10	36.8
16	9208	5525	3959	33.6	2.69	43.1	5.31	6 DBEU.15	34.8
21	11776	7066	5064	39.2	3.58	51.7	7.09	6 DBEU.15	34.8
11	6570	3942	2825	29.7	1.92	38.4	3.82	6 DBEU.10	36.8
16	9660	5796	4154	35.5	2.88	45.4	5.70	6 DBEU.15	34.8
21	12411	7447	5337	41.4	3.84	54.6	7.61	6 DBEU.15	34.8

EN442 output at 20°C room temperature

HEIGHT 900 - OUTPUT TABLES

TEMW.090 LLL TT.101						
	STANDARD			TWIN		
Length mm	Type	Watts 75/65	Watts 55/45	Type	Watts 75/65	Watts 55/45
400	10	548	275	11	703	338
	15	848	431	16	1038	487
	20	1183	601	21	1508	694
500	10	685	344	11	879	423
	15	1060	538	16	1298	609
	20	1479	751	21	1885	868
600	10	821	412	11	1055	507
	15	1272	646	16	1558	732
	20	1774	901	21	2262	1042
700	10	958	481	11	1231	592
	15	1484	754	16	1817	853
	20	2070	1051	21	2639	1215
800	10	1095	550	11	1406	676
	15	1696	861	16	2077	975
	20	2366	1202	21	3016	1389
900	10	1232	619	11	1582	760
	15	1908	969	16	2336	1097
	20	2661	1352	21	3393	1562
1000	10	1369	688	11	1758	845
	15	2120	1077	16	2596	1219
	20	2957	1502	21	3770	1736
1100	10	1506	756	11	1934	930
	15	2332	1185	16	2856	1341
	20	3253	1652	21	4147	1910
1200	10	1643	825	11	2110	1014
	15	2544	1292	16	3115	1463
	20	3548	1802	21	4524	2083
1400	10	1917	963	11	2461	1183
	15	2968	1508	16	3634	1706
	20	4140	2103	21	5278	2431
1600	10	2190	1100	11	2813	1352
	15	3392	1723	16	4154	1950
	20	4731	2403	21	6032	2778
1800	10	2464	1238	11	3164	1521
	15	3816	1938	16	4673	2194
	20	5323	2704	21	6786	3125
2000	10	2738	1375	11	3516	1690
	15	4240	2154	16	5192	2438
	20	5914	3004	21	7540	3472
2200	10	3012	1513	11	3868	1859
	15	4664	2369	16	5711	2681
	20	6505	3304	21	8294	3819
2400	10	3286	1650	11	4219	2028
	15	5088	2584	16	6230	2925
	20	7097	3605	21	9048	4167
2600	10	3559	1788	11	4571	2197
	15	5512	2800	16	6750	3169
	20	7688	3905	21	9802	4514
2800	10	3833	1925	11	4922	2366
	15	5936	3015	16	7269	3413
	20	8280	4206	21	10556	4861
3000	10	4107	2063	11	5274	2535
	15	6360	3231	16	7788	3657
	20	8871	4506	21	11310	5208

HEIGHT 200 FS - OUTPUT TABLES

TECHNICAL INFO

TEMF.020 LLL TT.101						
Length mm	STANDARD			STANDARD		
	Type	Watts	Watts	Type	Weight	Water
		75/65	55/45			Content
400	10	262	127	10	4.75	0.25
	15	436	212	15	5.8	0.38
	20	613	299	20	6.65	0.5
500	10	328	159	10	5.4	0.31
	15	545	265	15	6.6	0.47
	20	766	373	20	7.6	0.63
600	10	393	191	10	6	0.38
	15	654	319	15	7.35	0.56
	20	919	448	20	8.45	0.75
700	10	459	223	10	6.65	0.44
	15	763	372	15	8.05	0.66
	20	1072	522	20	9.4	0.88
800	10	524	255	10	7.15	0.5
	15	872	425	15	8.85	0.76
	20	1226	597	20	10.2	1.01
900	10	590	287	10	7.8	0.57
	15	981	478	15	9.55	0.86
	20	1379	672	20	11.15	1.14
1000	10	655	318	10	8.4	0.63
	15	1090	531	15	10.3	0.95
	20	1532	746	20	12	1.27
1100	10	721	350	10	9.05	0.69
	15	1199	584	15	11.1	1.05
	20	1685	821	20	12.95	1.39
1200	10	786	382	10	9.65	0.76
	15	1308	637	15	11.85	1.14
	20	1838	895	20	13.85	1.52
1400	10	917	446	10	11.6	0.89
	15	1526	743	15	14.1	1.34
	20	2145	1045	20	16.45	1.78
1600	10	1048	509	10	12.85	1.02
	15	1744	850	15	15.7	1.53
	20	2451	1194	20	18.2	2.04
1800	10	1179	573	10	14	1.14
	15	1962	956	15	17.15	1.73
	20	2758	1343	20	20	2.3
2000	10	1310	637	10	15.25	1.27
	15	2180	1062	15	18.6	1.92
	20	3064	1493	20	21.75	2.56
2200	10	1441	700	10	16.4	1.4
	15	2398	1168	15	20.05	2.11
	20	3370	1642	20	23.5	2.81
2400	10	1572	764	10	18.45	1.53
	15	2616	1274	15	22.5	2.3
	20	3677	1791	20	26.3	3.07
2600	10	1703	827	10	19.7	1.66
	15	2834	1381	15	24	2.49
	20	3983	1940	20	28.05	3.33
2800	10	1834	891	10	20.85	1.79
	15	3052	1487	15	25.45	2.69
	20	4290	2090	20	29.85	3.58
3000	10	1965	955	10	22.1	1.92
	15	3270	1593	15	26.9	2.88
	20	4596	2239	20	31.6	3.84

EN442 output at 20°C room temperature

HEIGHT 300 FS - OUTPUT TABLES

TECHNICAL INFO

TEMF.030 LLL TT.101							TEMF.030 LLL TT.101/DBE									
	STANDARD			TWIN			WITH DBE				STANDARD		TWIN & TWIN WITH DBE			
Length	Type	Watts	Watts	Type	Watts	Watts	Type	Watts	Watts	Watts	Weight	Water	Weight	Water	Fan	Noise Level
mm		75/65	55/45		75/65	55/45		75/65	55/45	45/38		Content		Content	(Number)	dB(A)
400	10	330	161	11	448	215	11	N/A	N/A	N/A	5.9	0.25	N/A	N/A	N/A	N/A
	15	544	267	16	592	281	16	N/A	N/A	N/A	7.2	0.38	N/A	N/A	N/A	N/A
	20	762	373	21	779	368	21	N/A	N/A	N/A	8.1	0.50	N/A	N/A	N/A	N/A
500	10	413	202	11	561	269	11	N/A	N/A	N/A	6.7	0.31	N/A	N/A	N/A	N/A
	15	680	333	16	740	352	16	N/A	N/A	N/A	8.0	0.47	N/A	N/A	N/A	N/A
	20	953	467	21	974	460	21	N/A	N/A	N/A	9.2	0.63	N/A	N/A	N/A	N/A
600	10	496	242	11	673	323	11	973	584	418	7.4	0.38	8.5	0.73	1 DBEU.10	29.0
	15	815	399	16	888	422	16	1368	821	588	8.9	0.56	10.7	1.07	1 DBEU.15	27.0
	20	1144	561	21	1169	552	21	1649	989	709	10.2	0.75	12.1	1.43	1 DBEU.15	27.0
700	10	578	282	11	785	376	11	1085	651	467	8.2	0.44	9.4	0.86	1 DBEU.10	29.0
	15	951	466	16	1036	492	16	1516	910	652	9.8	0.66	11.8	1.26	1 DBEU.15	27.0
	20	1334	654	21	1364	644	21	1844	1106	793	11.3	0.88	13.4	1.68	1 DBEU.15	27.0
800	10	661	323	11	897	430	11	1197	718	515	8.9	0.50	10.2	0.99	1 DBEU.10	29.0
	15	1087	533	16	1184	563	16	1664	998	716	10.7	0.76	13.0	1.46	1 DBEU.15	27.0
	20	1525	747	21	1558	736	21	2038	1223	876	12.2	1.01	14.7	1.96	1 DBEU.15	27.0
900	10	743	363	11	1009	484	11	1609	965	692	9.7	0.57	11.2	1.12	2 DBEU.10	32.0
	15	1223	599	16	1332	633	16	2292	1375	986	11.6	0.86	14.4	1.65	2 DBEU.15	30.0
	20	1715	841	21	1753	828	21	2713	1628	1167	13.4	1.14	16.4	2.21	2 DBEU.15	30.0
1000	10	826	403	11	1121	537	11	1721	1033	740	10.4	0.63	12.1	1.25	2 DBEU.10	32.0
	15	1359	666	16	1480	703	16	2440	1464	1049	12.4	0.95	15.3	1.85	2 DBEU.15	30.0
	20	1906	934	21	1948	920	21	2908	1745	1250	14.3	1.27	17.4	2.46	2 DBEU.15	30.0
1100	10	909	444	11	1233	591	11	1833	1100	788	11.2	0.69	13.1	1.38	2 DBEU.10	32.0
	15	1495	733	16	1628	774	16	2588	1553	1113	13.4	1.05	16.3	2.04	2 DBEU.15	30.0
	20	2097	1028	21	2143	1012	21	3103	1862	1334	15.4	1.39	18.7	2.72	2 DBEU.15	30.0
1200	10	991	484	11	1345	645	11	1945	1167	836	12.0	0.76	14.1	1.50	2 DBEU.10	32.0
	15	1631	799	16	1776	844	16	2736	1642	1176	14.3	1.14	17.5	2.22	2 DBEU.15	30.0
	20	2287	1121	21	2338	1105	21	3298	1979	1418	16.5	1.52	20.1	2.97	2 DBEU.15	30.0
1400	10	1156	565	11	1569	752	11	2169	1301	933	14.4	0.89	16.9	1.76	2 DBEU.10	32.0
	15	1903	933	16	2072	985	16	3032	1819	1304	17.1	1.34	21.6	2.62	2 DBEU.15	30.0
	20	2668	1308	21	2727	1288	21	3687	2212	1585	19.6	1.78	25.1	3.49	2 DBEU.15	30.0
1600	10	1322	646	11	1794	860	11	2994	1796	1287	15.9	1.02	18.7	2.02	4 DBEU.10	35.0
	15	2174	1066	16	2368	1126	16	4288	2573	1844	18.9	1.53	23.3	3.00	4 DBEU.15	33.0
	20	3050	1495	21	3117	1473	21	5037	3022	2166	21.7	2.04	26.8	4.01	4 DBEU.15	33.0
1800	10	1487	726	11	2018	967	11	3218	1931	1384	17.4	1.14	20.4	2.27	4 DBEU.10	35.0
	15	2446	1199	16	2664	1266	16	4584	2750	1971	20.7	1.73	25.1	3.38	4 DBEU.15	33.0
	20	3431	1682	21	3506	1656	21	5426	3256	2333	23.7	2.30	29.4	4.51	4 DBEU.15	33.0
2000	10	1652	807	11	2242	1074	11	3442	2065	1480	18.9	1.27	22.3	2.54	4 DBEU.10	35.0
	15	2718	1332	16	2960	1407	16	4880	2928	2098	22.5	1.92	27.0	3.78	4 DBEU.15	33.0
	20	3812	1868	21	3896	1841	21	5816	3490	2501	25.8	2.56	32.1	5.03	4 DBEU.15	33.0
2200	10	1817	887	11	2466	1182	11	3666	2200	1576	20.4	1.40	24.0	2.79	4 DBEU.10	35.0
	15	2990	1465	16	3256	1548	16	5176	3106	2226	24.2	2.11	29.0	4.16	4 DBEU.15	33.0
	20	4193	2055	21	4286	2025	21	6206	3724	2669	27.9	2.81	34.7	5.55	4 DBEU.15	33.0
2400	10	1982	968	11	2690	1289	11	4490	2694	1931	22.8	1.53	26.8	3.04	6 DBEU.10	36.8
	15	3262	1599	16	3552	1688	16	6432	3859	2766	27.1	2.30	32.3	4.53	6 DBEU.15	34.8
	20	4574	2242	21	4675	2209	21	7555	4533	3249	31.1	3.07	38.4	6.05	6 DBEU.15	34.8
2600	10	2148	1049	11	2915	1397	11	4715	2829	2027	24.4	1.66	28.7	3.31	6 DBEU.10	36.8
	15	3533	1732	16	3848	1829	16	6728	4037	2893	28.9	2.49	34.6	4.93	6 DBEU.15	34.8
	20	4956	2429	21	5065	2393	21	7945	4767	3416	33.2	3.33	41.1	6.57	6 DBEU.15	34.8
2800	10	2313	1130	11	3139	1504	11	4939	2963	2124	25.8	1.79	30.4	3.56	6 DBEU.10	36.8
	15	3805	1865	16	4144	1970	16	7024	4214	3020	30.7	2.69	36.6	5.31	6 DBEU.15	34.8
	20	5337	2616	21	5454	2577	21	8334	5000	3584	35.3	3.58	43.8	7.09	6 DBEU.15	34.8
3000	10	2478	1210	11	3363	1612	11	5163	3098	2220	27.3	1.92	32.3	3.82	6 DBEU.10	36.8
	15	4077	1998	16	4440	2110	16	7320	4392	3148	32.5	2.88	38.9	5.70	6 DBEU.15	34.8
	20	5718	2802	21	5844	2761	21	8724	5234	3751	37.3	3.84	46.5	7.61	6 DBEU.15	34.8

HEIGHT 400 FS - OUTPUT TABLES

TECHNICAL INFO

TEMF.040 LLL TT.101							TEMF.040 LLL TT.101/DBE									
	STANDARD			TWIN			WITH DBE				STANDARD		TWIN & TWIN WITH DBE			
Length	Type	Watts	Watts	Type	Watts	Watts	Type	Watts	Watts	Watts	Weight	Water	Weight	Water	Fan	Noise Level
mm		75/65	55/45		75/65	55/45		75/65	55/45	45/38		Content		Content	(Number)	dB(A)
400	10	385	189	11	506	243	11	N/A	N/A	N/A	7.0	0.25	N/A	N/A	N/A	N/A
	15	627	309	16	680	323	16	N/A	N/A	N/A	8.4	0.38	N/A	N/A	N/A	N/A
	20	878	433	21	910	428	21	N/A	N/A	N/A	9.5	0.50	N/A	N/A	N/A	N/A
500	10	482	236	11	632	303	11	N/A	N/A	N/A	7.9	0.31	N/A	N/A	N/A	N/A
	15	784	386	16	850	403	16	N/A	N/A	N/A	9.4	0.47	N/A	N/A	N/A	N/A
	20	1098	541	21	1137	535	21	N/A	N/A	N/A	10.8	0.63	N/A	N/A	N/A	N/A
600	10	578	284	11	758	363	11	1058	635	455	8.9	0.38	10.0	0.73	1 DBEU.10	29.0
	15	941	464	16	1020	484	16	1500	900	645	10.4	0.56	12.2	1.07	1 DBEU.15	27.0
	20	1318	650	21	1364	641	21	1844	1106	793	11.9	0.75	13.8	1.43	1 DBEU.15	27.0
700	10	674	331	11	885	424	11	1185	711	510	9.8	0.44	11.0	0.86	1 DBEU.10	29.0
	15	1098	541	16	1190	564	16	1670	1002	718	11.6	0.66	13.5	1.26	1 DBEU.15	27.0
	20	1537	758	21	1592	749	21	2072	1243	891	13.1	0.88	15.2	1.68	1 DBEU.15	27.0
800	10	770	378	11	1011	485	11	1311	787	564	10.6	0.50	12.0	0.99	1 DBEU.10	29.0
	15	1254	618	16	1360	645	16	1840	1104	791	12.5	0.76	14.8	1.46	1 DBEU.15	27.0
	20	1757	866	21	1819	855	21	2299	1379	989	14.2	1.01	16.7	1.96	1 DBEU.15	27.0
900	10	867	425	11	1138	546	11	1738	1043	747	11.6	0.57	13.1	1.12	2 DBEU.10	32.0
	15	1411	695	16	1530	726	16	2490	1494	1071	13.6	0.86	16.4	1.65	2 DBEU.15	30.0
	20	1976	974	21	2047	963	21	3007	1804	1293	15.5	1.14	18.5	2.21	2 DBEU.15	30.0
1000	10	963	472	11	1264	606	11	1864	1118	802	12.4	0.63	14.1	1.25	2 DBEU.10	32.0
	15	1568	773	16	1700	806	16	2660	1596	1144	14.6	0.95	17.5	1.85	2 DBEU.15	30.0
	20	2196	1083	21	2274	1069	21	3234	1940	1391	16.6	1.27	19.7	2.46	2 DBEU.15	30.0
1100	10	1059	520	11	1390	666	11	1990	1194	856	13.3	0.69	15.3	1.38	2 DBEU.10	32.0
	15	1725	850	16	1870	887	16	2830	1698	1217	15.7	1.05	18.6	2.04	2 DBEU.15	30.0
	20	2416	1191	21	2501	1176	21	3461	2077	1488	17.9	1.39	21.2	2.72	2 DBEU.15	30.0
1200	10	1156	567	11	1517	727	11	2117	1270	910	14.3	0.76	16.4	1.50	2 DBEU.10	32.0
	15	1882	928	16	2040	968	16	3000	1800	1290	16.8	1.14	20.0	2.22	2 DBEU.15	30.0
	20	2635	1299	21	2729	1283	21	3689	2213	1586	19.1	1.52	22.7	2.97	2 DBEU.15	30.0
1400	10	1348	661	11	1770	849	11	2370	1422	1019	17.1	0.89	19.7	1.76	2 DBEU.10	32.0
	15	2195	1082	16	2380	1129	16	3340	2004	1436	20.0	1.34	24.5	2.62	2 DBEU.15	30.0
	20	3074	1516	21	3184	1497	21	4144	2486	1782	22.7	1.78	28.2	3.49	2 DBEU.15	30.0
1600	10	1541	756	11	2022	969	11	3222	1933	1385	18.9	1.02	21.7	2.02	4 DBEU.10	35.0
	15	2509	1237	16	2720	1290	16	4640	2784	1995	22.1	1.53	26.5	3.00	4 DBEU.15	33.0
	20	3514	1733	21	3638	1711	21	5558	3335	2390	25.1	2.04	30.2	4.01	4 DBEU.15	33.0
1800	10	1733	850	11	2275	1091	11	3475	2085	1494	20.7	1.14	23.8	2.27	4 DBEU.10	35.0
	15	2822	1391	16	3060	1452	16	4980	2988	2141	24.2	1.73	28.7	3.38	4 DBEU.15	33.0
	20	3953	1949	21	4093	1925	21	6013	3608	2586	27.4	2.30	33.1	4.51	4 DBEU.15	33.0
2000	10	1926	945	11	2528	1212	11	3728	2237	1603	22.5	1.27	25.9	2.54	4 DBEU.10	35.0
	15	3136	1546	16	3400	1613	16	5320	3192	2288	26.3	1.92	30.8	3.78	4 DBEU.15	33.0
	20	4392	2166	21	4548	2139	21	6468	3881	2781	29.8	2.56	36.1	5.03	4 DBEU.15	33.0
2200	10	2119	1040	11	2781	1333	11	3981	2389	1712	24.3	1.40	28.0	2.79	4 DBEU.10	35.0
	15	3450	1700	16	3740	1774	16	5660	3396	2434	28.4	2.11	33.2	4.16	4 DBEU.15	33.0
	20	4831	2382	21	5003	2353	21	6923	4154	2977	32.2	2.81	39.0	5.55	4 DBEU.15	33.0
2400	10	2311	1134	11	3034	1455	11	4834	2900	2079	27.2	1.53	31.2	3.04	6 DBEU.10	36.8
	15	3763	1855	16	4080	1935	16	6960	4176	2993	31.7	2.30	36.8	4.53	6 DBEU.15	34.8
	20	5270	2599	21	5458	2567	21	8338	5003	3585	35.9	3.07	43.2	6.05	6 DBEU.15	34.8
2600	10	2504	1229	11	3286	1576	11	5086	3052	2187	29.0	1.66	33.4	3.31	6 DBEU.10	36.8
	15	4077	2009	16	4420	2097	16	7300	4380	3139	33.8	2.49	39.4	4.93	6 DBEU.15	34.8
	20	5710	2816	21	5912	2780	21	8792	5275	3781	38.3	3.33	46.2	6.57	6 DBEU.15	34.8
2800	10	2696	1323	11	3539	1697	11	5339	3203	2296	30.8	1.79	35.4	3.56	6 DBEU.10	36.8
	15	4390	2164	16	4760	2258	16	7640	4584	3285	35.8	2.69	41.7	5.31	6 DBEU.15	34.8
	20	6149	3032	21	6367	2994	21	9247	5548	3976	40.7	3.58	49.2	7.09	6 DBEU.15	34.8
3000	10	2889	1417	11	3792	1818	11	5592	3355	2405	32.6	1.92	37.6	3.82	6 DBEU.10	36.8
	15	4704	2318	16	5100	2419	16	7980	4788	3431	37.9	2.88	44.3	5.70	6 DBEU.15	34.8
	20	6588	3249	21	6822	3208	21	9702	5821	4172	43.0	3.84	52.2	7.61	6 DBEU.15	34.8

EN442 output at 20°C room temperature

HEIGHT 500 FS - OUTPUT TABLES

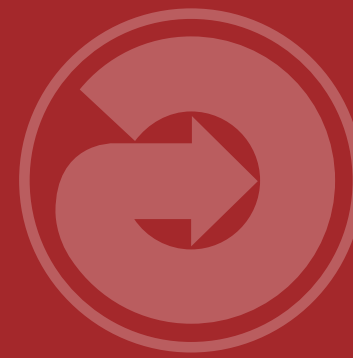
TECHNICAL INFO

TEMF.050 LLL TT.101							TEMF.050 LLL TT.101/DBE									
	STANDARD			TWIN			WITH DBE				STANDARD		TWIN & TWIN WITH DBE			
Length	Type	Watts	Watts	Type	Watts	Watts	Type	Watts	Watts	Watts	Weight	Water	Weight	Water	Fan	Noise Level
mm		75/65	55/45		75/65	55/45		75/65	55/45	45/38		Content		Content	(Number)	dB(A)
400	10	430	212	11	554	266	11	N/A	N/A	N/A	8.1	0.25	N/A	N/A	N/A	N/A
	15	694	344	16	759	359	16	N/A	N/A	N/A	9.6	0.38	N/A	N/A	N/A	N/A
	20	970	481	21	1033	484	21	N/A	N/A	N/A	10.9	0.50	N/A	N/A	N/A	N/A
500	10	538	265	11	693	332	11	N/A	N/A	N/A	9.2	0.31	N/A	N/A	N/A	N/A
	15	867	430	16	949	449	16	N/A	N/A	N/A	10.8	0.47	N/A	N/A	N/A	N/A
	20	1213	602	21	1291	605	21	N/A	N/A	N/A	12.3	0.63	N/A	N/A	N/A	N/A
600	10	646	318	11	832	399	11	1132	679	487	10.2	0.38	11.3	0.73	1 DBEU.10	29.0
	15	1040	516	16	1139	539	16	1619	971	696	12.0	0.56	13.8	1.07	1 DBEU.15	27.0
	20	1455	722	21	1549	725	21	2029	1217	872	13.5	0.75	15.4	1.43	1 DBEU.15	27.0
700	10	753	371	11	970	465	11	1270	762	546	11.3	0.44	12.5	0.86	1 DBEU.10	29.0
	15	1214	602	16	1329	629	16	1809	1085	778	13.3	0.66	15.2	1.26	1 DBEU.15	27.0
	20	1698	842	21	1807	846	21	2287	1372	983	15.0	0.88	17.1	1.68	1 DBEU.15	27.0
800	10	861	424	11	1109	532	11	1409	845	606	12.4	0.50	13.7	0.99	1 DBEU.10	29.0
	15	1387	688	16	1518	719	16	1998	1199	859	14.3	0.76	16.6	1.46	1 DBEU.15	27.0
	20	1940	962	21	2066	968	21	2546	1528	1095	16.2	1.01	18.7	1.96	1 DBEU.15	27.0
900	10	968	477	11	1247	598	11	1847	1108	794	13.4	0.57	15.0	1.12	2 DBEU.10	32.0
	15	1561	774	16	1708	809	16	2668	1601	1147	15.6	0.86	18.4	1.65	2 DBEU.15	30.0
	20	2183	1083	21	2324	1088	21	3284	1970	1412	17.7	1.14	20.7	2.21	2 DBEU.15	30.0
1000	10	1076	530	11	1386	665	11	1986	1192	854	14.4	0.63	16.1	1.25	2 DBEU.10	32.0
	15	1734	860	16	1898	898	16	2858	1715	1229	16.7	0.95	19.6	1.85	2 DBEU.15	30.0
	20	2425	1203	21	2582	1209	21	3542	2125	1523	18.9	1.27	22.0	2.46	2 DBEU.15	30.0
1100	10	1184	584	11	1525	732	11	2125	1275	914	15.5	0.69	17.4	1.38	2 DBEU.10	32.0
	15	1907	946	16	2088	988	16	3048	1829	1311	18.0	1.05	20.9	2.04	2 DBEU.15	30.0
	20	2668	1323	21	2840	1330	21	3800	2280	1634	20.3	1.39	23.6	2.72	2 DBEU.15	30.0
1200	10	1291	636	11	1663	798	11	2263	1358	973	16.6	0.76	18.7	1.50	2 DBEU.10	32.0
	15	2081	1032	16	2278	1078	16	3238	1943	1392	19.2	1.14	22.4	2.22	2 DBEU.15	30.0
	20	2910	1443	21	3098	1451	21	4058	2435	1745	21.7	1.52	25.3	2.97	2 DBEU.15	30.0
1400	10	1506	742	11	1940	931	11	2540	1524	1092	19.9	0.89	22.4	1.76	2 DBEU.10	32.0
	15	2428	1204	16	2657	1258	16	3617	2170	1555	23.0	1.34	27.4	2.62	2 DBEU.15	30.0
	20	3395	1684	21	3615	1693	21	4575	2745	1967	25.8	1.78	31.3	3.49	2 DBEU.15	30.0
1600	10	1722	849	11	2218	1064	11	3418	2051	1470	21.9	1.02	24.7	2.02	4 DBEU.10	35.0
	15	2774	1376	16	3037	1438	16	4957	2974	2132	25.4	1.53	29.7	3.00	4 DBEU.15	33.0
	20	3880	1924	21	4131	1935	21	6051	3631	2602	28.5	2.04	33.6	4.01	4 DBEU.15	33.0
1800	10	1937	955	11	2495	1197	11	3695	2217	1589	24.1	1.14	27.1	2.27	4 DBEU.10	35.0
	15	3121	1548	16	3416	1617	16	5336	3202	2294	27.7	1.73	32.1	3.38	4 DBEU.15	33.0
	20	4365	2165	21	4648	2177	21	6568	3941	2824	31.1	2.30	36.8	4.51	4 DBEU.15	33.0
2000	10	2152	1061	11	2772	1330	11	3972	2383	1708	26.1	1.27	29.5	2.54	4 DBEU.10	35.0
	15	3468	1720	16	3796	1797	16	5716	3430	2458	30.1	1.92	34.6	3.78	4 DBEU.15	33.0
	20	4850	2405	21	5164	2418	21	7084	4250	3046	33.8	2.56	40.1	5.03	4 DBEU.15	33.0
2200	10	2367	1167	11	3049	1463	11	4249	2549	1827	28.3	1.40	31.9	2.79	4 DBEU.10	35.0
	15	3815	1892	16	4176	1977	16	6096	3658	2621	32.4	2.11	37.2	4.16	4 DBEU.15	33.0
	20	5335	2646	21	5680	2660	21	7600	4560	3268	36.5	2.81	43.3	5.55	4 DBEU.15	33.0
2400	10	2582	1273	11	3326	1596	11	5126	3076	2204	31.6	1.53	35.5	3.04	6 DBEU.10	36.8
	15	4162	2064	16	4555	2156	16	7435	4461	3197	36.3	2.30	41.4	4.53	6 DBEU.15	34.8
	20	5820	2886	21	6197	2902	21	9077	5446	3903	40.7	3.07	48.0	6.05	6 DBEU.15	34.8
2600	10	2798	1379	11	3604	1729	11	5404	3242	2324	33.7	1.66	38.0	3.31	6 DBEU.10	36.8
	15	4508	2236	16	4935	2336	16	7815	4689	3360	38.6	2.49	44.2	4.93	6 DBEU.15	34.8
	20	6305	3127	21	6713	3144	21	9593	5756	4125	43.4	3.33	51.3	6.57	6 DBEU.15	34.8
2800	10	3013	1485	11	3881	1862	11	5681	3409	2443	35.8	1.79	40.3	3.56	6 DBEU.10	36.8
	15	4855	2408	16	5314	2516	16	8194	4916	3523	41.0	2.69	46.9	5.31	6 DBEU.15	34.8
	20	6790	3367	21	7230	3386	21	10110	6066	4347	46.1	3.58	54.6	7.09	6 DBEU.15	34.8
3000	10	3228	1591	11	4158	1995	11	5958	3575	2562	37.8	1.92	42.7	3.82	6 DBEU.10	36.8
	15	5202	2580	16	5694	2695	16	8574	5144	3687	43.4	2.88	49.8	5.70	6 DBEU.15	34.8
	20	7275	3608	21	7746	3628	21	10626	6376	4569	48.8	3.84	58.0	7.61	6 DBEU.15	34.8

GUARDIAN LST

STRONG SINGLE PIECE CASING FOR FAST INSTALLATION

- Stylish casing with rounded corners stays safe to touch, even at high flow temperatures
- Extensive range and compact sizes even at low temperatures (see DBE page 10)
- Works with Jaga's ventilation solution 'Oxygen' to deliver combined ventilation and heating in one system



jaga

PRESENTING GUARDIAN LST



Award winning Low-H₂O technology



Quick to install, pre-assembled casing



Outstanding performance with low temperature systems



No radiant heat loss to the wall



Wide range of sizes with a choice of designs



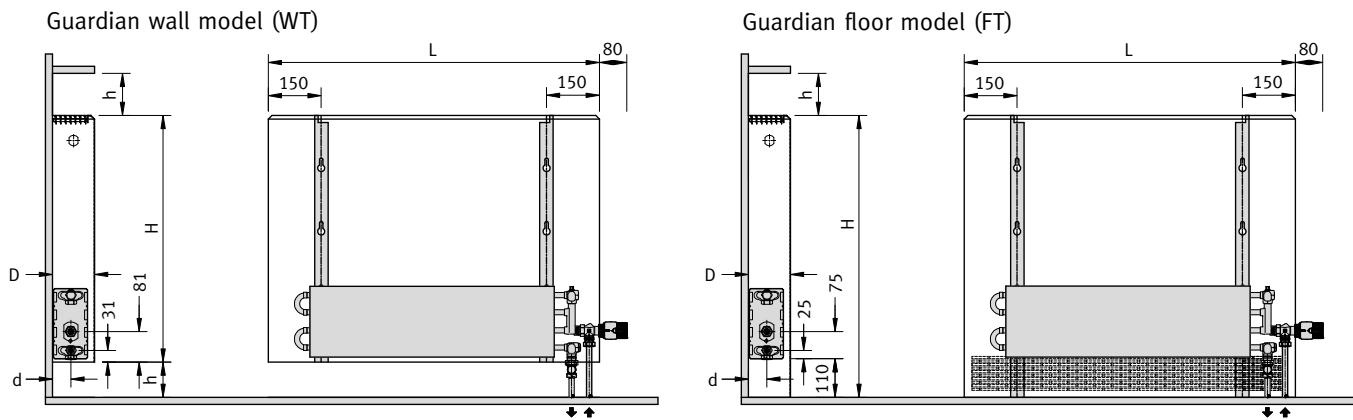
Split deliveries



In stock, fast delivery

GUARDIAN LST

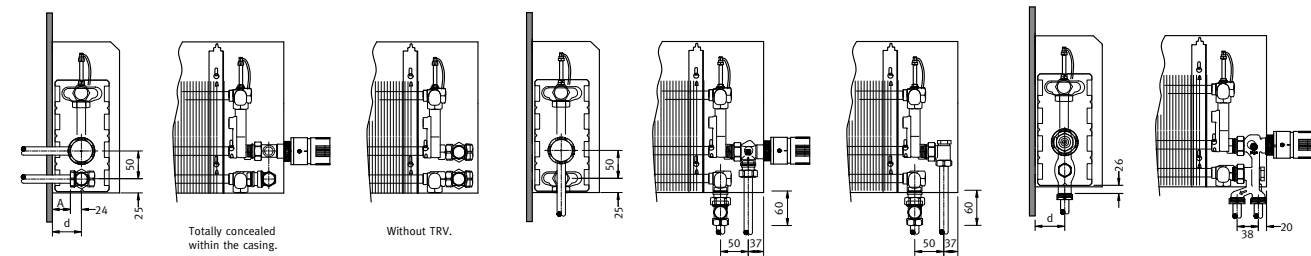
DIMENSIONS (in mm)



Example with Jaga valve: to the wall.

Example with Jaga valve: to the floor.

Example with Jaga Pro valve: to the floor - WT only.

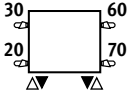


Depth mm	Connection to floor d (mm)	Connection to wall A (mm)	Clearance h (mm)
119	52	29	100
169	77	53	120
219	77	53	150

CONNECTION

Standard connection:
Casing features multiple knockouts to suit high and low level valves, on either left or right. On FT models there are additional knockouts to allow for pipework or skirting at a low level.

High level valve details: see “Valves and TRVs”.



ORDERING CODE

code height length depth colour model
GUAR . 040 064 119 . 233 /WT

For example using ordering code GUAR 040 064 119 233 / WT will result in a Guardian wall model with white casing, 400mm high, 640mm long and 119 deep.

ORDERING CODE WITH DBE

code height length depth colour model Option
GUAR . 040 084 169 . 233 /WT /DBE

Products with DBE have outputs shown based on ‘comfort’ mode (see page 10).

For other outputs, please see www.jaga.co.uk



COLOURS

Environmentally friendly, scratch-resistant, high UV resistant powder coating.

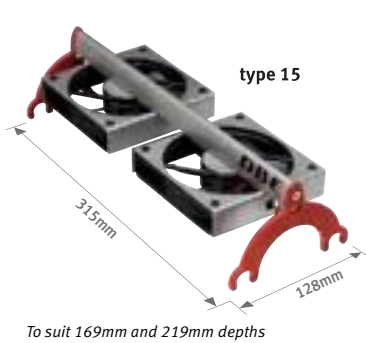
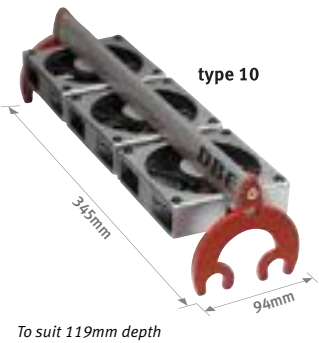
Standard colour:

- White RAL 9016 (233), satin gloss finish.

OPTIONAL: DBE See page 10 for more information on DBE technology

DBE UNIT DBEU.10

DBE UNIT DBEU.15



STOCK ITEMS

All items are stocked except casing heights 700 and lengths 1640 and 2040 which are made to order.

All elements and brackets are in stock.

Contact the office for availability on larger quantities.



HEIGHT 400 - OUTPUT TABLES - WT - TECHNICAL INFO

GUAR.040 LLL Dep.233/WT				GUAR.040 LLL Dep.233/WT/DBE				GUAR.040 LLL Dep.233/WT				
	STANDARD			WITH DBE				STANDARD			WITH DBE	
Length mm	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
440	119	234	109	N/A	N/A	N/A	N/A	119	4.5	0.53	N/A	N/A
	169	351	164	N/A	N/A	N/A	N/A	169	5.9	0.79	N/A	N/A
	219	446	206	N/A	N/A	N/A	N/A	219	7.1	1.06	N/A	N/A
640	119	467	218	N/A	N/A	N/A	N/A	119	6.6	0.8	N/A	N/A
	169	703	329	N/A	N/A	N/A	N/A	169	8.6	1.19	N/A	N/A
	219	893	412	N/A	N/A	N/A	N/A	219	10.4	1.6	N/A	N/A
840	119	701	327	119	1001	601	430	119	8.7	1.06	1 DBEU.10	29.0
	169	1054	493	169	1534	920	660	169	11.3	1.58	1 DBEU.15	27.0
	219	1339	613	219	1819	1091	782	219	13.6	2.13	1 DBEU.15	27.0
1040	119	934	436	119	1534	920	660	119	10.7	1.33	2 DBEU.10	32.0
	169	1406	657	169	2366	1420	1017	169	13.9	1.98	2 DBEU.15	30.0
	219	1786	818	219	2746	1648	1181	219	16.8	2.66	2 DBEU.15	30.0
1240	119	1168	545	119	1768	1061	760	119	12.8	1.6	2 DBEU.10	32.0
	169	1757	822	169	2717	1630	1168	169	16.6	2.38	2 DBEU.15	30.0
	219	2232	1030	219	3192	1915	1373	219	20.1	3.19	2 DBEU.15	30.0
1440	119	1402	654	119	2302	1381	990	119	14.8	1.86	2 DBEU.10	32.0
	169	2108	986	169	3548	2129	1526	169	19.3	2.77	2 DBEU.15	30.0
	219	2678	1236	219	4118	2471	1771	219	23.3	3.72	2 DBEU.15	30.0
1640	119	1635	763	119	2535	1521	1090	119	16.9	2.13	4 DBEU.10	35.0
	169	2460	1150	169	3900	2340	1677	169	22	3.17	4 DBEU.15	33.0
	219	3125	1443	219	4565	2739	1963	219	26.6	4.26	4 DBEU.15	33.0
1840	119	1869	872	119	3069	1841	1320	119	19	2.39	4 DBEU.10	35.0
	169	2811	1314	169	4731	2839	2034	169	24.7	3.56	4 DBEU.15	33.0
	219	3571	1648	219	5491	3295	2361	219	29.8	4.79	4 DBEU.15	33.0
2040	119	2102	981	119	3302	1981	1420	119	21	2.66	4 DBEU.10	35.0
	169	3163	1479	169	5083	3050	2186	169	27.3	3.96	4 DBEU.15	33.0
	219	N/A	N/A	219	N/A	N/A	N/A	219	N/A	N/A	4 DBEU.15	33.0

EN442 output at 20°C room temperature

HEIGHT 500

OUTPUT TABLES - WT

TECHNICAL INFO

GUAR.050 LLL Dep.233/WT				GUAR.050 LLL Dep.233/WT/DBE				GUAR.050 LLL Dep.233/WT				
	STANDARD			WITH DBE				STANDARD			WITH DBE	
Length mm	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
440	119	259	123	N/A	N/A	N/A	N/A	119	5.2	0.53	N/A	N/A
	169	394	187	N/A	N/A	N/A	N/A	169	6.6	0.79	N/A	N/A
	219	522	241	N/A	N/A	N/A	N/A	219	7.2	1.06	N/A	N/A
640	119	519	246	N/A	N/A	N/A	N/A	119	7.6	0.8	N/A	N/A
	169	788	374	N/A	N/A	N/A	N/A	169	9.6	1.19	N/A	N/A
	219	1044	482	N/A	N/A	N/A	N/A	219	10.5	1.6	N/A	N/A
840	119	778	368	119	1078	647	464	119	9.9	1.06	1 DBEU.10	29.0
	169	1181	560	169	1661	997	714	169	12.6	1.58	1 DBEU.15	27.0
	219	1566	723	219	2046	1228	880	219	13.8	2.13	1 DBEU.15	27.0
1040	119	1038	491	119	1638	983	704	119	12.3	1.33	2 DBEU.10	32.0
	169	1311	747	169	2535	1521	1090	169	15.6	1.98	2 DBEU.15	30.0
	219	2088	963	219	3048	1829	1311	219	17.1	2.66	2 DBEU.15	30.0
1240	119	1297	614	119	1897	1138	816	119	14.6	1.6	2 DBEU.10	32.0
	169	1969	934	169	2929	1757	1259	169	18.6	2.38	2 DBEU.15	30.0
	219	2610	1204	219	3570	2142	1535	219	20.3	3.19	2 DBEU.15	30.0
1440	119	1556	736	119	2456	1474	1056	119	17	1.86	2 DBEU.10	32.0
	169	2363	1121	169	3803	2282	1635	169	21.6	2.77	2 DBEU.15	30.0
	219	3132	1445	219	4572	2743	1966	219	23.6	3.72	2 DBEU.15	30.0
1640	119	1816	859	119	2716	1630	1168	119	19.4	2.13	4 DBEU.10	35.0
	169	2757	1308	169	4197	2518	1805	169	24.6	3.17	4 DBEU.15	33.0
	219	3654	1686	219	5094	3056	2190	219	26.9	4.26	4 DBEU.15	33.0
1840	119	2075	982	119	3275	1965	1408	119	21.7	2.39	4 DBEU.10	35.0
	169	3150	1494	169	5070	3042	2180	169	27.6	3.56	4 DBEU.15	33.0
	219	4176	1927	219	6096	3658	2621	219	30.2	4.79	4 DBEU.15	33.0
2040	119	2335	1105	119	3535	2121	1520	119	24.1	2.66	4 DBEU.10	35.0
	169	3544	1681	169	5464	3278	2350	169	30.6	3.96	4 DBEU.15	33.0
	219	N/A	N/A	219	N/A	N/A	N/A	219	N/A	N/A	4 DBEU.15	33.0

EN442 output at 20°C room temperature

HEIGHT 600

OUTPUT TABLES - WT

TECHNICAL INFO

GUAR.060 LLL Dep.233/WT				GUAR.060 LLL Dep.233/WT/DBE				GUAR.060 LLL Dep.233/WT				
	STANDARD			WITH DBE				STANDARD			WITH DBE	
Length mm	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
440	119	277	133	N/A	N/A	N/A	N/A	119	7.1	0.53	N/A	N/A
	169	425	204	N/A	N/A	N/A	N/A	169	8.4	0.79	N/A	N/A
	219	593	273	N/A	N/A	N/A	N/A	219	8.8	1.06	N/A	N/A
640	119	554	266	N/A	N/A	N/A	N/A	119	10.4	0.8	N/A	N/A
	169	850	409	N/A	N/A	N/A	N/A	169	12.2	1.19	N/A	N/A
	219	1187	547	N/A	N/A	N/A	N/A	219	12.9	1.6	N/A	N/A
840	119	831	399	119	1131	679	486	119	13.6	1.06	1 DBEU.10	29.0
	169	1275	613	169	1755	1053	755	169	16	1.58	1 DBEU.15	27.0
	219	1780	821	219	2260	1356	972	219	16.9	2.13	1 DBEU.15	27.0
1040	119	1108	532	119	1708	1025	734	119	16.8	1.33	2 DBEU.10	32.0
	169	1700	818	169	2660	1596	1144	169	19.8	1.98	2 DBEU.15	30.0
	219	2374	1095	219	3334	2000	1434	219	20.9	2.66	2 DBEU.15	30.0
1240	119	1385	665	119	1985	1191	854	119	20.1	1.6	2 DBEU.10	32.0
	169	2125	1022	169	3085	1851	1327	169	23.6	2.38	2 DBEU.15	30.0
	219	2967	1368	219	3927	2356	1689	219	24.9	3.19	2 DBEU.15	30.0
1440	119	1662	798	119	2562	1537	1102	119	23.3	1.86	2 DBEU.10	32.0
	169	2550	1227	169	3990	2394	1716	169	27.4	2.77	2 DBEU.15	30.0
	219	3560	1642	219	5000	3000	2150	219	28.9	3.72	2 DBEU.15	30.0
1640	119	1939	931	119	2839	1703	1221	119	26.6	2.13	4 DBEU.10	35.0
	169	2975	1431	169	4415	2649	1898	169	31.2	3.17	4 DBEU.15	33.0
	219	4154	1916	219	5594	3356	2405	219	33	4.26	4 DBEU.15	33.0
1840	119	2216	1064	119	3416	2050	1469	119	29.8	2.39	4 DBEU.10	35.0
	169	3400	1635	169	5320	3192	2288	169	35	3.56	4 DBEU.15	33.0
	219	4747	2189	219	6667	4000	2867	219	37	4.79	4 DBEU.15	33.0
2040	119	2493	1197	119	3693	2216	1588	119	33	2.66	4 DBEU.10	35.0
	169	3825	1840	169	5745	3447	2470	169	38.8	3.96	4 DBEU.15	33.0
	219	N/A	N/A	219	N/A	N/A	N/A	219	N/A	N/A	N/A	N/A

EN442 output at 20°C room temperature

HEIGHT 400

OUTPUT TABLES - FT

TECHNICAL INFO

GUAR.040 LLL Dep.233/FT				GUAR.040 LLL Dep.233/FT/DBE				GUAR.040 LLL Dep.233/FT				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
440	119	193	90	N/A	N/A	N/A	N/A	119	3.4	0.53	N/A	N/A
	169	277	128	N/A	N/A	N/A	N/A	169	4.5	0.79	N/A	N/A
	219	339	160	N/A	N/A	N/A	N/A	219	6.9	1.06	N/A	N/A
640	119	385	179	N/A	N/A	N/A	N/A	119	4.9	0.8	N/A	N/A
	169	553	256	N/A	N/A	N/A	N/A	169	6.6	1.19	N/A	N/A
	219	677	320	N/A	N/A	N/A	N/A	219	10	1.6	N/A	N/A
840	119	578	269	119	878	527	378	119	6.5	1.06	1 DBEU.10	29.0
	169	830	384	169	1310	786	563	169	8.7	1.58	1 DBEU.15	27.0
	219	1016	481	219	1496	898	643	219	13.1	2.13	1 DBEU.15	27.0
1040	119	770	358	119	1370	822	589	119	8	1.33	2 DBEU.10	32.0
	169	1106	512	169	2066	1240	888	169	10.7	1.98	2 DBEU.15	30.0
	219	1354	641	219	2314	1388	995	219	16.2	2.66	2 DBEU.15	30.0
1240	119	963	448	119	1563	938	672	119	9.5	1.6	2 DBEU.10	32.0
	169	1383	640	169	2343	1406	1007	169	12.8	2.38	2 DBEU.15	30.0
	219	1693	801	219	2653	1592	1141	219	19.3	3.19	2 DBEU.15	30.0
1440	119	1156	537	119	2056	1234	884	119	11.1	1.86	2 DBEU.10	32.0
	169	1660	769	169	3100	1860	1333	169	14.8	2.77	2 DBEU.15	30.0
	219	2032	961	219	3472	2083	1493	219	22.5	3.72	2 DBEU.15	30.0
1640	119	1348	626	119	2248	1349	967	119	12.6	2.13	4 DBEU.10	35.0
	169	1936	896	169	3376	2026	1452	169	16.9	3.17	4 DBEU.15	33.0
	219	2370	1121	219	3810	2286	1638	219	25.6	4.26	4 DBEU.15	33.0
1840	119	1541	716	119	2741	1645	1179	119	14.2	2.39	4 DBEU.10	35.0
	169	2213	1025	169	4133	2480	1777	169	19	3.56	4 DBEU.15	33.0
	219	2709	1282	219	4629	2777	1990	219	28.7	4.79	4 DBEU.15	33.0
2040	119	1733	805	119	2933	1760	1261	119	15.7	2.66	4 DBEU.10	35.0
	169	2489	1152	169	4409	2645	1896	169	21	3.96	4 DBEU.15	33.0
	219	N/A	N/A	219	N/A	N/A	N/A	219	N/A	N/A	4 DBEU.15	33.0

EN442 output at 20°C room temperature

HEIGHT 500

OUTPUT TABLES - FT

TECHNICAL INFO

GUAR.050 LLL Dep.233/FT				GUAR.050 LLL Dep.233/FT/DBE				GUAR.050 LLL Dep.233/FT				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
440	119	221	103	N/A	N/A	N/A	N/A	119	4	0.53	N/A	N/A
	169	320	149	N/A	N/A	N/A	N/A	169	5.2	0.79	N/A	N/A
	219	377	176	N/A	N/A	N/A	N/A	219	7.1	1.06	N/A	N/A
640	119	442	206	N/A	N/A	N/A	N/A	119	5.8	0.8	N/A	N/A
	169	639	297	N/A	N/A	N/A	N/A	169	7.6	1.19	N/A	N/A
	219	754	352	N/A	N/A	N/A	N/A	219	10.4	1.6	N/A	N/A
840	119	663	309	119	963	578	414	119	7.6	1.06	1 DBEU.10	29.0
	169	959	445	169	1439	863	619	169	10	1.58	1 DBEU.15	27.0
	219	1132	529	219	1612	967	693	219	13.6	2.13	1 DBEU.15	27.0
1040	119	884	412	119	1484	890	638	119	9.4	1.33	2 DBEU.10	32.0
	169	1278	593	169	2238	1343	962	169	12.4	1.98	2 DBEU.15	30.0
	219	1509	705	219	2469	1481	1062	219	16.8	2.66	2 DBEU.15	30.0
1240	119	1105	515	119	1705	1023	733	119	11.2	1.6	2 DBEU.10	32.0
	169	1598	742	169	2558	1535	1100	169	14.8	2.38	2 DBEU.15	30.0
	219	1886	881	219	2846	1708	1224	219	20.1	3.19	2 DBEU.15	30.0
1440	119	1326	618	119	2226	1336	957	119	13	1.86	2 DBEU.10	32.0
	169	1918	891	169	3358	2015	1444	169	17.1	2.77	2 DBEU.15	30.0
	219	2263	1057	219	3703	2222	1592	219	23.3	3.72	2 DBEU.15	30.0
1640	119	1547	721	119	2447	1468	1052	119	14.8	2.13	4 DBEU.10	35.0
	169	2237	1039	169	3677	2206	1581	169	19.5	3.17	4 DBEU.15	33.0
	219	2640	1233	219	4080	2448	1754	219	26.6	4.26	4 DBEU.15	33.0
1840	119	1768	823	119	2968	1781	1276	119	16.6	2.39	4 DBEU.10	35.0
	169	2557	1187	169	4477	2686	1925	169	21.9	3.56	4 DBEU.15	33.0
	219	3018	1410	219	4938	2963	2123	219	29.8	4.79	4 DBEU.15	33.0
2040	119	1989	926	119	3189	1913	1371	119	18.4	2.66	4 DBEU.10	35.0
	169	2876	1335	169	4796	2878	2062	169	24.3	3.96	4 DBEU.15	33.0
	219	N/A	N/A	219	N/A	N/A	N/A	219	N/A	N/A	N/A	N/A

EN442 output at 20°C room temperature

HEIGHT 600

OUTPUT TABLES - FT

TECHNICAL INFO

GUAR.060 LLL Dep.233/FT				GUAR.060 LLL Dep.233/FT/DBE				GUAR.060 LLL Dep.233/FT				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
440	119	247	115	N/A	N/A	N/A	N/A	119	4.5	0.53	N/A	N/A
	169	358	167	N/A	N/A	N/A	N/A	169	5.9	0.79	N/A	N/A
	219	419	193	N/A	N/A	N/A	N/A	219	8.1	1.06	N/A	N/A
640	119	493	230	N/A	N/A	N/A	N/A	119	6.6	0.8	N/A	N/A
	169	716	333	N/A	N/A	N/A	N/A	169	8.6	1.19	N/A	N/A
	219	839	387	N/A	N/A	N/A	N/A	219	11.7	1.6	N/A	N/A
840	119	740	345	119	1040	624	447	119	8.7	1.06	1 DBEU.10	29.0
	169	1075	501	169	1555	933	669	169	11.3	1.58	1 DBEU.15	27.0
	219	1258	580	219	1738	1043	747	219	15.4	2.13	1 DBEU.15	27.0
1040	119	986	460	119	1586	952	682	119	10.7	1.33	2 DBEU.10	32.0
	169	1433	667	169	2393	1436	1029	169	13.9	1.98	2 DBEU.15	30.0
	219	1678	774	219	2638	1583	1134	219	19	2.66	2 DBEU.15	30.0
1240	119	1233	576	119	1833	1100	788	119	12.8	1.6	2 DBEU.10	32.0
	169	1791	834	169	2751	1651	1183	169	16.6	2.38	2 DBEU.15	30.0
	219	2097	967	219	3057	1834	1315	219	22.7	3.19	2 DBEU.15	30.0
1440	119	1480	691	119	2380	1428	1023	119	14.8	1.86	2 DBEU.10	32.0
	169	2149	1001	169	3589	2153	1543	169	19.3	2.77	2 DBEU.15	30.0
	219	2516	1160	219	3956	2374	1701	219	26.4	3.72	2 DBEU.15	30.0
1640	119	1726	806	119	2626	1576	1129	119	16.9	2.13	4 DBEU.10	35.0
	169	2507	1168	169	3947	2368	1697	169	22	3.17	4 DBEU.15	33.0
	219	2936	1354	219	4376	2626	1882	219	30	4.26	4 DBEU.15	33.0
1840	119	1973	921	119	3173	1904	1364	119	19	2.39	4 DBEU.10	35.0
	169	2866	1335	169	4786	2872	2058	169	24.7	3.56	4 DBEU.15	33.0
	219	3355	1547	219	5275	3165	2268	219	33.7	4.79	4 DBEU.15	33.0
2040	119	2219	1036	119	3419	2051	1470	119	21	2.66	4 DBEU.10	35.0
	169	3224	1502	169	5144	3086	2212	169	27.3	3.96	4 DBEU.15	33.0
	219	N/A	N/A	219	N/A	N/A	N/A	219	N/A	N/A	N/A	N/A

EN442 output at 20°C room temperature

HEIGHT 700

OUTPUT TABLES - FT

TECHNICAL INFO

GUAR.070 LLL Dep.233/FT				GUAR.070 LLL Dep.233/FT/DBE				GUAR.070 LLL Dep.233/FT				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
440	119	270	126	N/A	N/A	N/A	N/A	119	5.1	0.53	N/A	N/A
	169	393	184	N/A	N/A	N/A	N/A	169	6.6	0.79	N/A	N/A
	219	N/A	N/A	N/A	N/A	N/A	N/A	219	N/A	N/A	N/A	N/A
640	119	540	253	N/A	N/A	N/A	N/A	119	7.5	0.8	N/A	N/A
	169	786	367	N/A	N/A	N/A	N/A	169	9.5	1.19	N/A	N/A
	219	N/A	N/A	N/A	N/A	N/A	N/A	219	N/A	N/A	N/A	N/A
840	119	810	379	119	1110	666	477	119	9.8	1.06	1 DBEU.10	29.0
	169	1179	551	169	1659	995	713	169	12.5	1.58	1 DBEU.15	27.0
	219	N/A	N/A	219	N/A	N/A	N/A	219	N/A	N/A	N/A	N/A
1040	119	1080	505	119	1680	1008	722	119	12.2	1.33	2 DBEU.10	32.0
	169	1572	734	169	2532	1519	1089	169	15.5	1.98	2 DBEU.15	30.0
	219	N/A	N/A	219	N/A	N/A	N/A	219	N/A	N/A	N/A	N/A
1240	119	1350	632	119	1950	1170	839	119	14.5	1.6	2 DBEU.10	32.0
	169	1965	918	169	2925	1755	1258	169	18.5	2.38	2 DBEU.15	30.0
	219	N/A	N/A	219	N/A	N/A	N/A	219	N/A	N/A	N/A	N/A
1440	111	1620	758	119	2520	1512	1084	119	16.8	1.86	2 DBEU.10	32.0
	169	2358	1101	169	3798	2279	1633	169	21.5	2.77	2 DBEU.15	30.0
	219	N/A	N/A	219	N/A	N/A	N/A	219	N/A	N/A	N/A	N/A
1640	119	1890	884	119	2790	1674	1200	119	19.2	2.13	4 DBEU.10	35.0
	169	2751	1285	169	4191	2515	1802	169	24.4	3.17	4 DBEU.15	33.0
	219	N/A	N/A	219	N/A	N/A	N/A	219	N/A	N/A	N/A	N/A
1840	119	2160	1010	119	3360	2016	1445	119	21.5	2.39	4 DBEU.10	35.0
	169	3144	1469	169	5064	3038	2178	169	27.4	3.56	4 DBEU.15	33.0
	219	N/A	N/A	219	N/A	N/A	N/A	219	N/A	N/A	N/A	N/A
2040	119	2430	1137	119	3630	2178	1561	119	23.9	2.66	4 DBEU.10	35.0
	169	3537	1652	169	5457	3274	2347	169	30.4	3.96	4 DBEU.15	33.0
	219	N/A	N/A	219	N/A	N/A	N/A	219	N/A	N/A	N/A	N/A

EN442 output at 20°C room temperature

HEIGHT 800

OUTPUT TABLES - FT

TECHNICAL INFO

GUAR.080 LLL Dep.233/FT				GUAR.080 LLL Dep.233/FT/DBE				GUAR.080 LLL Dep.233/FT				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
440	119	291	136	N/A	N/A	N/A	N/A	119	5.8	0.53	N/A	N/A
	169	425	199	N/A	N/A	N/A	N/A	169	7.2	0.79	N/A	N/A
	219	517	232	N/A	N/A	N/A	N/A	219	9.6	1.06	N/A	N/A
640	119	582	273	N/A	N/A	N/A	N/A	119	8.4	0.8	N/A	N/A
	169	849	398	N/A	N/A	N/A	N/A	169	10.5	1.19	N/A	N/A
	219	1035	465	N/A	N/A	N/A	N/A	219	14	1.6	N/A	N/A
840	119	874	410	119	1174	704	505	119	11	1.06	1 DBEU.10	29.0
	169	1274	597	169	1754	1052	754	169	13.8	1.58	1 DBEU.15	27.0
	219	1552	697	219	2032	1219	874	219	18.4	2.13	1 DBEU.15	27.0
1040	1119	1165	546	119	1765	1059	759	119	13.6	1.33	2 DBEU.10	32.0
	169	1698	796	169	2658	1595	1143	169	17.1	1.98	2 DBEU.15	30.0
	219	2070	930	219	3030	1818	1303	219	22.8	2.66	2 DBEU.15	30.0
1240	119	1456	683	119	2056	1234	884	119	16.2	1.6	2 DBEU.10	32.0
	169	2123	995	169	3083	1850	1326	169	20.3	2.38	2 DBEU.15	30.0
	219	2587	1162	219	3547	2128	1525	219	27.2	3.19	2 DBEU.15	30.0
1440	119	1747	819	119	2647	1588	1138	119	18.9	1.86	2 DBEU.10	32.0
	169	2548	1194	169	3988	2393	1715	169	23.6	2.77	2 DBEU.15	30.0
	219	3104	1395	219	4544	2726	1954	219	31.5	3.72	2 DBEU.15	30.0
1640	119	2038	955	119	2938	1763	1263	119	21.5	2.13	4 DBEU.10	35.0
	169	2972	1392	169	4412	2647	1897	169	26.9	3.17	4 DBEU.15	33.0
	219	3622	1627	219	5062	3037	2177	219	35.9	4.26	4 DBEU.15	33.0
1840	119	2330	1092	119	3530	2118	1518	119	24.1	2.39	4 DBEU.10	35.0
	169	3397	1592	169	5317	3190	2286	169	30.2	3.56	4 DBEU.15	33.0
	219	4139	1859	219	6059	3635	2605	219	40.3	4.79	4 DBEU.15	33.0
2040	119	2621	1229	119	3821	2293	1643	119	26.7	2.66	4 DBEU.10	35.0
	169	3821	1790	169	5741	3445	2469	169	33.5	3.96	4 DBEU.15	33.0
	219	N/A	N/A	219	N/A	N/A	N/A	219	N/A	N/A	N/A	N/A

EN442 output at 20°C room temperature



MAXI 2020 LST

SAFETY, EFFICIENCY AND FUTURE PROOF IN ONE SOLUTION

Designed to deliver the most efficient heating outputs with the lowest energy consumption, the Jaga Maxi 2020 combines:

- The cost saving energy efficiency and reaction time of Jaga's Low-H₂O technology
- The assurances and safety attributes of Jaga's strongest and safest LST
- The ability to work with low temperature systems like heat pumps and in the future the option to provide dry cooling with low energy consumption
- Works with Jaga's ventilation solution 'Oxygen' to deliver combined ventilation and heating in one system

The new Jaga Maxi 2020 has been designed specifically to meet ambitious Nearly Zero Energy Building (NZEB) regulations - providing peace of mind about possible future regulatory requirements.



PRESENTING MAXI 2020 LST



Award winning Low-H₂O technology



Safe and strong design



Outstanding performance with low temperature systems (see page 10)



Quick to install, pre-assembled casing



No radiant heat loss to the wall



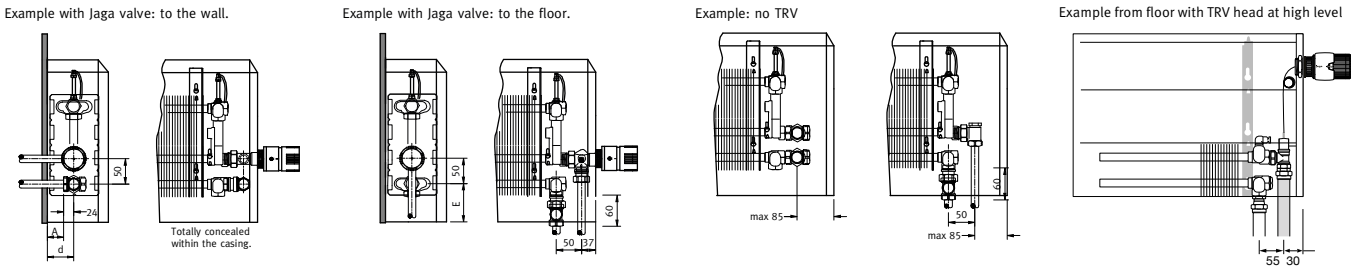
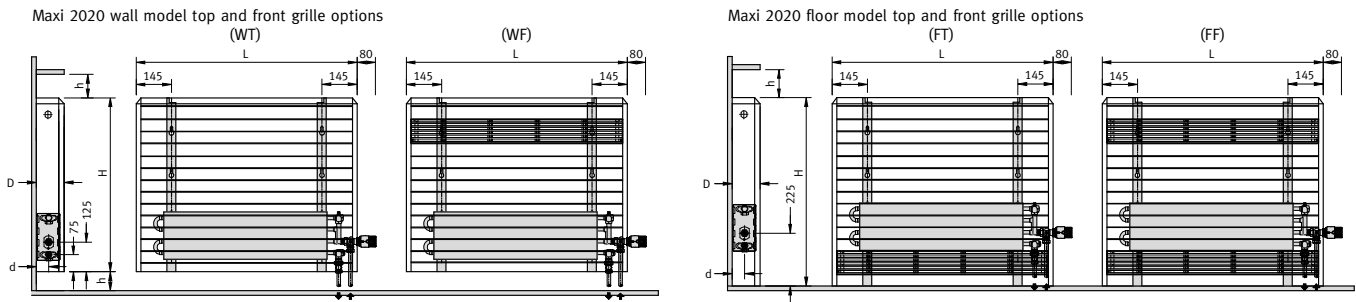
Split deliveries



Wide range of sizes with a choice of designs

MAXI 2020 LST

DIMENSIONS (in mm)



Depth mm	Connection to floor d (mm)	Connection to wall A (mm)	Clearance h (mm)
130	53	29	100
180	78	53	120
230	103	79	150

CONNECTION

When ordering a Jaga Maxi 2020 radiator you will be asked where the valve will be placed as valve cut outs are required on order, see examples below.

Optional high level valve:
add to the code of the radiator /30 (left) or /60 (right)
Ex. MAXW.059 063 180.xxx/WT/60

ORDERING CODE

code height length depth colour model
MAXW . 044 083 180 . XXX /WT
enter colour code ↵

For example: using ordering code: MAXW 044 083 180 233 / WT will result in a Maxi 2020 wall model, with white casing, 440mm high, 830mm long and 180 deep.

ORDERING CODE WITH DBE

code height length depth colour model Option
MAXW . 044 063 180 . XXX FT /DBE
enter colour code ↵

Products with DBE have outputs shown based on 'comfort' mode (see page 10).
For other outputs, please see www.jaga.co.uk

COLOURS

Environmentally friendly, scratch-resistant, high UV resistant powder coating.

Standard colours:

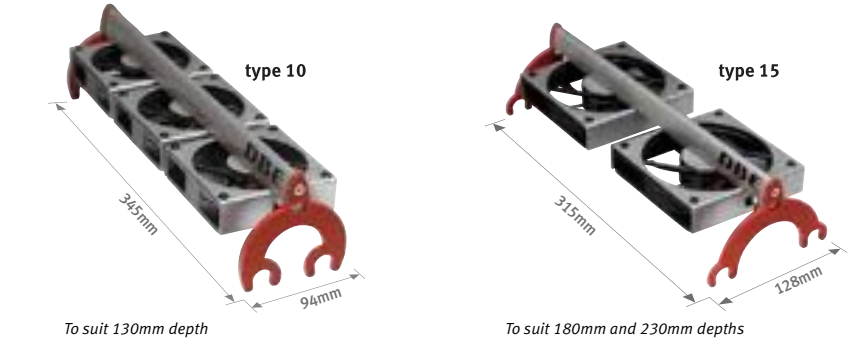
- traffic white RAL 9016: 233: smooth glossy finish
- sandblast grey 001: fine texture metallic lacquer

Other colours: see colour chart. High UV resistance to ASTM G53.

OPTIONAL: DBE See page 10 for more information on DBE technology

DBE UNIT DBEU.10

DBE UNIT DBEU.15



DELIVERY

Split deliveries option available
Elements and brackets are stock items
Casings made to order
Please contact our customer service team to discuss your requirements

HEIGHT 440 - OUTPUT TABLES - WT - TECHNICAL INFO

MAXW2020.044 LLL Dep.XXX/WT					MAXW2020.044 LLL Dep.XXX/WT/DBE					MAXW2020.044 LLL Dep.XXX/WT				
Length mm	STANDARD				WITH DBE					STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45		Depth mm	Watts 75/65	Watts 55/45	Watts 45/38		Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
630	130	478	223		130	778	467	335		130	14.5	0.8	1 DBEU.10	29.0
	180	718	333		180	1198	719	515		180	16.6	1.1	1 DBEU.15	27.0
	230	964	441		230	1444	866	621		230	18.5	1.5	1 DBEU.15	27.0
830	130	704	329		130	1004	602	432		130	19.1	1.0	1 DBEU.10	29.0
	180	1057	490		180	1537	922	661		180	21.9	1.5	1 DBEU.15	27.0
	230	1418	649		230	1898	1139	816		230	24.4	2.1	1 DBEU.15	27.0
1030	130	929	434		130	1529	918	658		130	23.8	1.3	2 DBEU.10	32.0
	180	1396	648		180	2356	1414	1013		180	27.2	1.9	2 DBEU.15	30.0
	230	1873	857		230	2833	1700	1218		230	30.2	2.6	2 DBEU.15	30.0
1230	130	1155	539		130	1755	1053	755		130	28.4	1.5	2 DBEU.10	32.0
	180	1735	805		180	2695	1617	1159		180	32.5	2.3	2 DBEU.15	30.0
	230	2328	1065		230	3288	1973	1414		230	36.1	3.1	2 DBEU.15	30.0
1430	130	1381	645		130	2281	1368	981		130	33.0	1.8	2 DBEU.10	32.0
	180	2074	962		180	3514	2108	1511		180	37.8	2.7	2 DBEU.15	30.0
	230	2782	1273		230	4222	2533	1816		230	42.0	3.7	2 DBEU.15	30.0
1630	130	1606	750		130	2506	1504	1078		130	37.6	2.1	4 DBEU.10	35.0
	180	2413	1119		180	3853	2312	1657		180	43.0	3.1	4 DBEU.15	33.0
	230	3237	1481		230	4677	2806	2011		230	47.8	4.2	4 DBEU.15	33.0
1830	130	1832	855		130	3032	1819	1304		130	42.2	2.3	4 DBEU.10	35.0
	180	2752	1276		180	4672	2803	2009		180	48.3	3.5	4 DBEU.15	33.0
	230	3692	1689		230	5612	3367	2413		230	53.7	4.7	4 DBEU.15	33.0
2030	130	2057	960		130	3257	1954	1401		130	46.8	2.6	4 DBEU.10	35.0
	180	3091	1433		180	5011	3006	2155		180	53.6	3.9	4 DBEU.15	33.0
	230	4146	1897		230	6066	3640	2609		230	59.6	5.2	4 DBEU.15	33.0

EN442 output at 20°C room temperature

HEIGHT 590

OUTPUT TABLES - WT

TECHNICAL INFO

MAXW2020.059 LLL Dep.XXX/WT				MAXW2020.059 LLL Dep.XXX/WT/DBE				MAXW2020.059 LLL Dep.XXX/WT				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
630	130	573	271	130	873	524	375	130	17.7	0.7	1 DBEU.10	29.0
	180	877	412	180	1357	814	583	180	20.6	1.1	1 DBEU.15	27.0
	230	1166	542	230	1646	988	708	230	22.7	1.5	1 DBEU.15	27.0
830	130	844	399	130	1144	686	492	130	23.3	1.0	1 DBEU.10	29.0
	180	1290	607	180	1770	1062	761	180	27.2	1.5	1 DBEU.15	27.0
	230	1716	798	230	2196	1318	944	230	29.8	2.1	1 DBEU.15	27.0
1030	130	1114	528	130	1714	1028	737	130	28.9	1.3	2 DBEU.10	32.0
	180	1704	801	180	2664	1598	1145	180	33.7	1.9	2 DBEU.15	30.0
	230	2267	1054	230	3227	1936	1387	230	37.0	2.6	2 DBEU.15	30.0
1230	130	1384	656	130	1984	1191	853	130	34.5	1.5	2 DBEU.10	32.0
	180	2117	995	180	3077	1846	1323	180	40.3	2.3	2 DBEU.15	30.0
	230	2817	1310	230	3777	2266	1624	230	44.2	3.1	2 DBEU.15	30.0
1430	130	1655	784	130	2555	1533	1099	130	40.1	1.8	2 DBEU.10	32.0
	180	2531	1190	180	3971	2382	1707	180	46.8	2.7	2 DBEU.15	30.0
	230	3367	1566	230	4807	2884	2067	230	51.4	3.7	2 DBEU.15	30.0
1630	130	1925	912	130	2825	1695	1215	130	45.7	2.1	4 DBEU.10	35.0
	180	2944	1384	180	4384	2630	1885	180	53.4	3.1	4 DBEU.15	33.0
	230	3917	1822	230	5357	3214	2304	230	58.6	4.2	4 DBEU.15	33.0
1830	130	2196	1040	130	3396	2037	1460	130	51.3	2.3	4 DBEU.10	35.0
	180	3358	1579	180	5278	3167	2269	180	59.9	3.5	4 DBEU.15	33.0
	230	4467	2078	230	6387	3832	2747	230	65.8	4.7	4 DBEU.15	33.0
2030	130	2466	1168	130	3666	2200	1576	130	57.0	2.6	4 DBEU.10	35.0
	180	3771	1773	180	5691	3415	2447	180	66.5	3.9	4 DBEU.15	33.0
	230	5017	2333	230	6937	4162	2983	230	73.0	5.2	4 DBEU.15	33.0

EN442 output at 20°C room temperature

HEIGHT 740

OUTPUT TABLES - WT

TECHNICAL INFO

MAXW2020.074 LLL Dep.XXX/WT				MAXW2020.074 LLL Dep.XXX/WT/DBE				MAXW2020.074 LLL Dep.XXX/WT				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
630	130	631	300	130	931	558	400	130	22.5	0.7	1 DBEU.10	29.0
	180	958	453	180	1438	863	618	180	25.0	1.1	1 DBEU.15	27.0
	230	1347	635	230	1827	1096	786	230	27.1	1.5	1 DBEU.15	27.0
830	130	928	441	130	1228	737	528	130	29.7	1.0	1 DBEU.10	29.0
	180	1410	667	180	1890	1134	813	180	32.9	1.5	1 DBEU.15	27.0
	230	1982	935	230	2462	1477	1059	230	35.7	2.1	1 DBEU.15	27.0
1030	130	1225	583	130	1825	1095	785	130	36.8	1.3	2 DBEU.10	32.0
	180	1862	880	180	2822	1693	1213	180	40.8	1.9	2 DBEU.15	30.0
	230	2617	1235	230	3577	2146	1538	230	44.3	2.6	2 DBEU.15	30.0
1230	130	1523	724	130	2123	1274	913	130	44.0	1.5	2 DBEU.10	32.0
	180	2314	1094	180	3274	1964	1408	180	48.7	2.3	2 DBEU.15	30.0
	230	3253	1534	230	4213	2528	1811	230	52.8	3.1	2 DBEU.15	30.0
1430	130	1820	866	130	2720	1632	1170	130	51.1	1.8	2 DBEU.10	32.0
	180	2766	1308	180	4206	2523	1808	180	56.6	2.7	2 DBEU.15	30.0
	230	3888	1834	230	5328	3197	2291	230	61.4	3.7	2 DBEU.15	30.0
1630	130	2118	1007	130	3018	1811	1298	130	58.3	2.1	4 DBEU.10	35.0
	180	3218	1521	180	4658	2795	2003	180	64.6	3.1	4 DBEU.15	33.0
	230	4523	2134	230	5963	3578	2564	230	70.0	4.2	4 DBEU.15	33.0
1830	130	2415	1149	130	3615	2169	1554	130	65.4	2.3	4 DBEU.10	35.0
	180	3669	1735	180	5589	3354	2403	180	72.5	3.5	4 DBEU.15	33.0
	230	5158	2433	230	7078	4247	3044	230	78.6	4.7	4 DBEU.15	33.0
2030	130	2713	1290	130	3913	2348	1682	130	72.6	2.6	4 DBEU.10	35.0
	180	4121	1949	180	6041	3625	2598	180	80.4	3.9	4 DBEU.15	33.0
	230	5794	2733	230	7714	4628	3317	230	87.2	5.2	4 DBEU.15	33.0

EN442 output at 20°C room temperature

HEIGHT 590

OUTPUT TABLES - FF

TECHNICAL INFO

MAXW2020.059 LLL Dep.XXX/FF				MAXW2020.059 LLL Dep.XXX/FF/DBE				MAXW2020.059 LLL Dep.XXX/FF				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
630	130	378	174	130	678	407	292	130	16.3	0.7	1 DBEU.10	29.0
	180	521	240	180	1001	601	430	180	19.1	1.1	1 DBEU.15	27.0
	230	660	302	230	1140	684	490	230	21.6	1.5	1 DBEU.15	27.0
830	130	557	257	130	857	514	368	130	21.4	1.0	1 DBEU.10	29.0
	180	767	352	180	1247	748	536	180	25.1	1.5	1 DBEU.15	27.0
	230	971	445	230	1451	871	624	230	28.4	2.1	1 DBEU.15	27.0
1030	130	735	339	130	1335	801	574	130	26.6	1.3	2 DBEU.10	32.0
	180	1013	465	180	1973	1184	848	180	31.2	1.9	2 DBEU.15	30.0
	230	1282	587	230	2242	1345	964	230	35.3	2.6	2 DBEU.15	30.0
1230	130	913	421	130	1513	908	651	130	31.8	1.5	2 DBEU.10	32.0
	180	1259	578	180	2219	1331	954	180	37.2	2.3	2 DBEU.15	30.0
	230	1593	730	230	2553	1532	1098	230	42.2	3.1	2 DBEU.15	30.0
1430	130	1092	504	130	1992	1195	856	130	36.9	1.8	2 DBEU.10	32.0
	180	1504	691	180	2944	1767	1266	180	43.3	2.7	2 DBEU.15	30.0
	230	1904	873	230	3344	2007	1438	230	49.0	3.7	2 DBEU.15	30.0
1630	130	1270	586	130	2170	1302	933	130	42.1	2.1	4 DBEU.10	35.0
	180	1750	804	180	3190	1914	1372	180	49.3	3.1	4 DBEU.15	33.0
	230	2216	1015	230	3656	2193	1572	230	55.9	4.2	4 DBEU.15	33.0
1830	130	1448	668	130	2648	1589	1139	130	47.3	2.3	4 DBEU.10	35.0
	180	1996	917	180	3916	2350	1684	180	55.4	3.5	4 DBEU.15	33.0
	230	2527	1158	230	4447	2668	1912	230	62.7	4.7	4 DBEU.15	33.0
2030	130	1627	751	130	2827	1696	1216	130	52.4	2.6	4 DBEU.10	35.0
	180	2242	1030	180	4162	2497	1790	180	61.4	3.9	4 DBEU.15	33.0
	230	2838	1300	230	4758	2855	2046	230	69.6	5.2	4 DBEU.15	33.0

EN442 output at 20°C room temperature

HEIGHT 740

OUTPUT TABLES - FF

TECHNICAL INFO

MAXW2020.074 LLL Dep.XXX/FF				MAXW2020.074 LLL Dep.XXX/FF/DBE				MAXW2020.074 LLL Dep.XXX/FF				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
630	130	476	222	130	776	466	334	130	20.4	0.7	1 DBEU.10	29.0
	180	660	307	180	1140	684	490	180	23.4	1.1	1 DBEU.15	27.0
	230	831	385	230	1311	786	564	230	26.1	1.5	1 DBEU.15	27.0
830	130	701	327	130	1001	601	430	130	26.9	1.0	1 DBEU.10	29.0
	180	971	451	180	1451	871	624	180	30.9	1.5	1 DBEU.15	27.0
	230	1222	566	230	1702	1021	732	230	34.3	2.1	1 DBEU.15	27.0
1030	130	926	431	130	1526	915	656	130	33.4	1.3	2 DBEU.10	32.0
	180	1282	596	180	2242	1345	964	180	38.3	1.9	2 DBEU.15	30.0
	230	1614	748	230	2574	1545	1107	230	42.6	2.6	2 DBEU.15	30.0
1230	130	1150	536	130	1750	1050	753	130	39.9	1.5	2 DBEU.10	32.0
	180	1594	741	180	2554	1532	1098	180	45.8	2.3	2 DBEU.15	30.0
	230	2006	929	230	2966	1780	1275	230	50.9	3.1	2 DBEU.15	30.0
1430	130	1375	641	130	2275	1365	978	130	46.4	1.8	2 DBEU.10	32.0
	180	1905	885	180	3345	2007	1438	180	53.2	2.7	2 DBEU.15	30.0
	230	2398	1111	230	3838	2303	1650	230	59.2	3.7	2 DBEU.15	30.0
1630	130	1600	745	130	2500	1500	1075	130	52.9	2.1	4 DBEU.10	35.0
	180	2216	1030	180	3656	2194	1572	180	60.6	3.1	4 DBEU.15	33.0
	230	2790	1292	230	4230	2538	1819	230	67.5	4.2	4 DBEU.15	33.0
1830	130	1824	850	130	3024	1815	1300	130	59.3	2.3	4 DBEU.10	35.0
	180	2527	1174	180	4447	2668	1912	180	68.1	3.5	4 DBEU.15	33.0
	230	3182	1474	230	5102	3061	2194	230	75.7	4.7	4 DBEU.15	33.0
2030	130	2049	955	130	3249	1949	1397	130	65.8	2.6	4 DBEU.10	35.0
	180	2838	1319	180	4758	2855	2046	180	75.5	3.9	4 DBEU.15	33.0
	230	3573	1655	230	5493	3296	2362	230	84.0	5.2	4 DBEU.15	33.0

EN442 output at 20°C room temperature

HEIGHT 440

OUTPUT TABLES - FT

TECHNICAL INFO

MAXW2020.044 LLL Dep.XXX/FT				MAXW2020.044 LLL Dep.XXX/FT/DBE				MAXW2020.044 LLL Dep.XXX/FT				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
630	130	391	180	130	691	414	297	130	13.0	0.8	1 DBEU.10	29.0
	180	560	256	180	1040	624	447	180	15.1	1.1	1 DBEU.15	27.0
	230	722	328	230	1202	721	517	230	16.9	1.5	1 DBEU.15	27.0
830	130	575	264	130	875	525	376	130	17.2	1.0	1 DBEU.10	29.0
	180	824	377	180	1304	782	561	180	19.9	1.5	1 DBEU.15	27.0
	230	1063	483	230	1543	926	663	230	22.3	2.1	1 DBEU.15	27.0
1030	130	759	349	130	1359	815	584	130	21.3	1.3	2 DBEU.10	32.0
	180	1088	497	180	2048	1229	881	180	24.7	1.9	2 DBEU.15	30.0
	230	1404	638	230	2364	1418	1016	230	27.7	2.6	2 DBEU.15	30.0
1230	130	943	434	130	1543	926	664	130	25.4	1.5	2 DBEU.10	32.0
	180	1352	618	180	2312	1387	994	180	29.5	2.3	2 DBEU.15	30.0
	230	1744	793	230	2704	1623	1163	230	33.1	3.1	2 DBEU.15	30.0
1430	130	1127	519	130	2027	1216	872	130	29.6	1.8	2 DBEU.10	32.0
	180	1616	739	180	3056	1833	1314	180	34.3	2.7	2 DBEU.15	30.0
	230	2085	948	230	3525	2115	1516	230	38.5	3.7	2 DBEU.15	30.0
1630	130	1312	603	130	2212	1327	951	130	33.7	2.1	4 DBEU.10	35.0
	180	1880	859	180	3320	1992	1428	180	39.1	3.1	4 DBEU.15	33.0
	230	2426	1102	230	3866	2319	1662	230	43.8	4.2	4 DBEU.15	33.0
1830	130	1496	688	130	2696	1617	1159	130	37.9	2.3	4 DBEU.10	35.0
	180	2144	980	180	4064	2438	1747	180	43.9	3.5	4 DBEU.15	33.0
	230	2766	1257	230	4686	2812	2015	230	49.2	4.7	4 DBEU.15	33.0
2030	130	1680	773	130	2880	1728	1238	130	42.0	2.6	4 DBEU.10	35.0
	180	2408	1101	180	4328	2597	1861	180	48.7	3.9	4 DBEU.15	33.0
	230	3107	1412	230	5027	3016	2162	230	54.6	5.2	4 DBEU.15	33.0

EN442 output at 20°C room temperature

HEIGHT 590

OUTPUT TABLES - FT

TECHNICAL INFO

MAXW2020.059 LLL Dep.XXX/FT				MAXW2020.059 LLL Dep.XXX/FT/DBE				MAXW2020.059 LLL Dep.XXX/FT				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
630	130	498	230	130	798	479	343	130	16.9	0.7	1 DBEU.10	29.0
	180	732	337	180	1212	727	521	180	19.1	1.1	1 DBEU.15	27.0
	230	948	434	230	1428	857	614	230	21.1	1.5	1 DBEU.15	27.0
830	130	732	338	130	1032	619	444	130	22.2	1.0	1 DBEU.10	29.0
	180	1078	495	180	1558	935	670	180	25.2	1.5	1 DBEU.15	27.0
	230	1395	639	230	1875	1125	806	230	27.8	2.1	1 DBEU.15	27.0
1030	130	967	447	130	1567	940	674	130	27.6	1.3	2 DBEU.10	32.0
	180	1423	654	180	2383	1430	1025	180	31.3	1.9	2 DBEU.15	30.0
	230	1842	843	230	2802	1681	1205	230	34.5	2.6	2 DBEU.15	30.0
1230	130	1202	555	130	1802	1081	775	130	32.9	1.5	2 DBEU.10	32.0
	180	1768	813	180	2728	1637	1173	180	37.3	2.3	2 DBEU.15	30.0
	230	2289	1048	230	3249	1949	1397	230	41.2	3.1	2 DBEU.15	30.0
1430	130	1437	664	130	2337	1402	1005	130	38.3	1.8	2 DBEU.10	32.0
	180	2114	972	180	3554	2132	1528	180	43.4	2.7	2 DBEU.15	30.0
	230	2736	1253	230	4176	2506	1796	230	47.9	3.7	2 DBEU.15	30.0
1630	130	1671	772	130	2571	1543	1106	130	43.7	2.1	4 DBEU.10	35.0
	180	2459	1131	180	3899	2339	1677	180	49.5	3.1	4 DBEU.15	33.0
	230	3183	1458	230	4623	2774	1988	230	54.6	4.2	4 DBEU.15	33.0
1830	130	1906	881	130	3106	1864	1336	130	49.0	2.3	4 DBEU.10	35.0
	180	2804	1289	180	4724	2835	2031	180	55.5	3.5	4 DBEU.15	33.0
	230	3630	1662	230	5550	3330	2387	230	61.3	4.7	4 DBEU.15	33.0
2030	130	2141	989	130	3341	2005	1437	130	54.4	2.6	4 DBEU.10	35.0
	180	3150	1448	180	5070	3042	2180	180	61.6	3.9	4 DBEU.15	33.0
	230	4078	1867	230	5998	3599	2579	230	68.0	5.2	4 DBEU.15	33.0

EN442 output at 20°C room temperature

HEIGHT 740

OUTPUT TABLES - FT

TECHNICAL INFO

MAXW2020.074 LLL Dep.XXX/FT				MAXW2020.074 LLL Dep.XXX/FT/DBE				MAXW2020.074 LLL Dep.XXX/FT				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
630	130	594	278	130	894	536	384	130	21.0	0.7	1 DBEU.10	29.0
	180	885	414	180	1365	819	587	180	23.4	1.1	1 DBEU.15	27.0
	230	1080	501	230	1560	936	671	230	25.6	1.5	1 DBEU.15	27.0
830	130	874	409	130	1174	704	505	130	27.7	1.0	1 DBEU.10	29.0
	180	1302	610	180	1782	1069	766	180	30.9	1.5	1 DBEU.15	27.0
	230	1590	737	230	2070	1242	890	230	33.7	2.1	1 DBEU.15	27.0
1030	130	1154	541	130	1754	1052	754	130	34.4	1.3	2 DBEU.10	32.0
	180	1720	806	180	2680	1608	1152	180	38.3	1.9	2 DBEU.15	30.0
	230	2100	974	230	3060	1836	1316	230	41.8	2.6	2 DBEU.15	30.0
1230	130	1434	672	130	2034	1221	875	130	41.1	1.5	2 DBEU.10	32.0
	180	2137	1001	180	3097	1858	1332	180	45.8	2.3	2 DBEU.15	30.0
	230	2609	1210	230	3569	2142	1535	230	50.0	3.1	2 DBEU.15	30.0
1430	130	1714	803	130	2614	1569	1124	130	47.7	1.8	2 DBEU.10	32.0
	180	2555	1197	180	3995	2397	1718	180	53.2	2.7	2 DBEU.15	30.0
	230	3119	1446	230	4559	2735	1960	230	58.1	3.7	2 DBEU.15	30.0
1630	130	1994	934	130	2894	1737	1245	130	54.4	2.1	4 DBEU.10	35.0
	180	2972	1392	180	4412	2647	1897	180	60.6	3.1	4 DBEU.15	33.0
	230	3628	1683	230	5068	3041	2179	230	66.2	4.2	4 DBEU.15	33.0
1830	130	2275	1066	130	3475	2085	1615	130	61.1	2.3	4 DBEU.10	35.0
	180	3390	1588	180	5310	3186	2463	180	68.1	3.5	4 DBEU.15	33.0
	230	4138	1919	230	6058	3635	2824	230	74.3	4.7	4 DBEU.15	33.0
2030	130	2555	1197	130	3755	2253	1864	130	67.8	2.6	4 DBEU.10	35.0
	180	3807	1783	180	5727	3436	2849	180	75.5	3.9	4 DBEU.15	33.0
	230	4648	2155	230	6568	3941	3250	230	82.5	5.2	4 DBEU.15	33.0

EN442 output at 20°C room temperature

HEIGHT 440

OUTPUT TABLES - WF

TECHNICAL INFO

MAXW2020.044 LLL Dep.XXX/WF				MAXW2020.044 LLL Dep.XXX/WF/DBE				MAXW2020.044 LLL Dep.XXX/WF				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
630	130	334	159	130	634	380	273	130	14.0	0.8	1 DBEU.10	29.0
	180	497	228	180	977	586	420	180	16.6	1.1	1 DBEU.15	27.0
	230	620	284	230	1100	660	473	230	19.0	1.5	1 DBEU.15	27.0
830	130	491	234	130	791	475	340	130	18.4	1.0	1 DBEU.10	29.0
	180	732	336	180	1212	727	521	180	21.9	1.5	1 DBEU.15	27.0
	230	913	418	230	1393	836	599	230	25.0	2.1	1 DBEU.15	27.0
1030	130	649	309	130	1249	749	537	130	22.9	1.3	2 DBEU.10	32.0
	180	967	444	180	1927	1156	828	180	27.2	1.9	2 DBEU.15	30.0
	230	1206	553	230	2166	1299	931	230	31.0	2.6	2 DBEU.15	30.0
1230	130	807	384	130	1407	844	605	130	27.3	1.5	2 DBEU.10	32.0
	180	1201	551	180	2161	1297	929	180	32.5	2.3	2 DBEU.15	30.0
	230	1498	687	230	2458	1475	1057	230	37.0	3.1	2 DBEU.15	30.0
1430	130	964	459	130	1864	1118	802	130	31.8	1.8	2 DBEU.10	32.0
	180	1436	659	180	2876	1725	1237	180	37.8	2.7	2 DBEU.15	30.0
	230	1791	821	230	3231	1939	1389	230	43.0	3.7	2 DBEU.15	30.0
1630	130	1122	534	130	2022	1213	869	130	36.2	2.1	4 DBEU.10	35.0
	180	1670	767	180	3110	1866	1337	180	43.0	3.1	4 DBEU.15	33.0
	230	2084	955	230	3524	2114	1515	230	49.1	4.2	4 DBEU.15	33.0
1830	130	1279	609	130	2479	1487	1066	130	40.6	2.3	4 DBEU.10	35.0
	180	1905	874	180	3825	2295	1645	180	48.3	3.5	4 DBEU.15	33.0
	230	2376	1089	230	4296	2578	1847	230	55.1	4.7	4 DBEU.15	33.0
2030	130	1437	684	130	2637	1582	1134	130	45.1	2.6	4 DBEU.10	35.0
	180	2140	982	180	4060	2436	1746	180	53.6	3.9	4 DBEU.15	33.0
	230	2669	1223	230	4589	2753	1973	230	61.1	5.2	4 DBEU.15	33.0

EN442 output at 20°C room temperature

HEIGHT 590

OUTPUT TABLES - WF

TECHNICAL INFO

MAXW2020.059 LLL Dep.XXX/WF				MAXW2020.059 LLL Dep.XXX/WF/DBE				MAXW2020.059 LLL Dep.XXX/WF				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
630	130	458	215	130	758	455	326	130	17.7	0.7	1 DBEU.10	29.0
	180	664	308	180	1144	687	492	180	20.5	1.1	1 DBEU.15	27.0
	230	868	402	230	1348	809	580	230	23.1	1.5	1 DBEU.15	27.0
830	130	674	316	130	974	584	419	130	23.3	1.0	1 DBEU.10	29.0
	180	978	453	180	1458	875	627	180	27.0	1.5	1 DBEU.15	27.0
	230	1277	592	230	1757	1054	756	230	30.5	2.1	1 DBEU.15	27.0
1030	130	890	417	130	1490	894	641	130	29.0	1.3	2 DBEU.10	32.0
	180	1291	598	180	2251	1351	968	180	33.5	1.9	2 DBEU.15	30.0
	230	1686	782	230	2646	1588	1138	230	37.8	2.6	2 DBEU.15	30.0
1230	130	1105	518	130	1705	1023	733	130	34.6	1.5	2 DBEU.10	32.0
	180	1605	743	180	2565	1539	1103	180	40.1	2.3	2 DBEU.15	30.0
	230	2096	972	230	3056	1833	1314	230	45.2	3.1	2 DBEU.15	30.0
1430	130	1321	619	130	2221	1333	955	130	40.2	1.8	2 DBEU.10	32.0
	180	1918	888	180	3358	2015	1444	180	46.6	2.7	2 DBEU.15	30.0
	230	2505	1162	230	3945	2367	1696	230	52.5	3.7	2 DBEU.15	30.0
1630	130	1537	720	130	2437	1462	1048	130	45.8	2.1	4 DBEU.10	35.0
	180	2231	1033	180	3671	2203	1579	180	53.1	3.1	4 DBEU.15	33.0
	230	2914	1352	230	4354	2613	1872	230	59.9	4.2	4 DBEU.15	33.0
1830	130	1753	822	130	2953	1772	1270	130	51.4	2.3	4 DBEU.10	35.0
	180	2545	1178	180	4465	2679	1920	180	59.6	3.5	4 DBEU.15	33.0
	230	3324	1542	230	5244	3146	2255	230	67.2	4.7	4 DBEU.15	33.0
2030	130	1969	923	130	3169	1901	1363	130	57.1	2.6	4 DBEU.10	35.0
	180	2858	1323	180	4778	2867	2055	180	66.1	3.9	4 DBEU.15	33.0
	230	3733	1731	230	5653	3392	2431	230	74.5	5.2	4 DBEU.15	33.0

EN442 output at 20°C room temperature

HEIGHT 740

OUTPUT TABLES - WF

TECHNICAL INFO

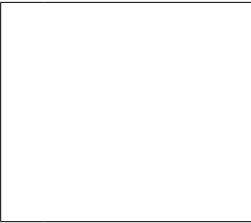
MAXW2020.074 LLL Dep.XXX/WF				MAXW2020.074 LLL Dep.XXX/WF/DBE				MAXW2020.074 LLL Dep.XXX/WF				
Length mm	STANDARD			WITH DBE				STANDARD			WITH DBE	
	Depth mm	Watts 75/65	Watts 55/45	Depth mm	Watts 75/65	Watts 55/45	Watts 45/38	Depth mm	Weight	Water Content	Fan (Number)	Noise Level dB(A)
630	130	569	265	130	869	522	374	130	21.9	0.7	1 DBEU.10	29.0
	180	798	373	180	1278	767	550	180	24.9	1.1	1 DBEU.15	27.0
	230	992	461	230	1472	883	633	230	27.6	1.5	1 DBEU.15	27.0
830	130	838	389	130	1138	683	489	130	28.9	1.0	1 DBEU.10	29.0
	180	1175	549	180	1655	993	712	180	32.8	1.5	1 DBEU.15	27.0
	230	1461	678	230	1941	1164	834	230	36.3	2.1	1 DBEU.15	27.0
1030	130	1107	514	130	1707	1024	734	130	35.8	1.3	2 DBEU.10	32.0
	180	1552	725	180	2512	1507	1080	180	40.7	1.9	2 DBEU.15	30.0
	230	1929	895	230	2889	1733	1242	230	45.0	2.6	2 DBEU.15	30.0
1230	130	1375	639	130	1975	1185	849	130	42.8	1.5	2 DBEU.10	32.0
	180	1928	901	180	2888	1733	1242	180	48.6	2.3	2 DBEU.15	30.0
	230	2397	1113	230	3357	2014	1443	230	53.8	3.1	2 DBEU.15	30.0
1430	130	1644	764	130	2544	1526	1094	130	49.8	1.8	2 DBEU.10	32.0
	180	2305	1077	180	3745	2247	1610	180	56.5	2.7	2 DBEU.15	30.0
	230	2865	1330	230	4305	2583	1851	230	62.5	3.7	2 DBEU.15	30.0
1630	130	1913	889	130	2813	1688	1209	130	56.7	2.1	4 DBEU.10	35.0
	180	2681	1253	180	4121	2473	1772	180	64.4	3.1	4 DBEU.15	33.0
	230	3333	1547	230	4773	2864	2052	230	71.3	4.2	4 DBEU.15	33.0
1830	130	2181	1014	130	3381	2029	1454	130	63.7	2.3	4 DBEU.10	35.0
	180	3058	1429	180	4978	2987	2141	180	72.3	3.5	4 DBEU.15	33.0
	230	3801	1765	230	5721	3433	2460	230	80.0	4.7	4 DBEU.15	33.0
2030	130	2450	1139	130	3650	2190	1569	130	70.7	2.6	4 DBEU.10	35.0
	180	3435	1605	180	5355	3213	2302	180	80.2	3.9	4 DBEU.15	33.0
	230	4270	1982	230	6190	3714	2662	230	88.8	5.2	4 DBEU.15	33.0

EN442 output at 20°C room temperature

JAGA COLOUR CHART



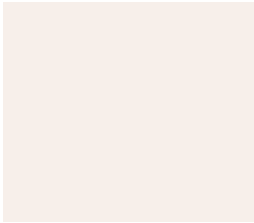
233 Traffic white RAL 9016



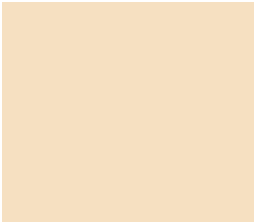
201 White RAL 9010

Jaga Maxi 2020 is available in a smooth glossy finish in the following colours.

Jaga has two environmentally friendly electrostatic powder coating lines with recuperation and without the use of solvents. After a thorough pre-treatment, the radiators are painted and baked at a temperature of approximately 200°C. This ensures a highly UV and scratch resistant finish.



205 Pergamon



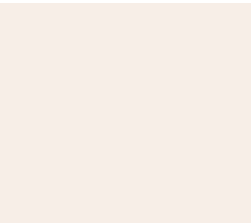
223 Natural



212 Bahama



234 Warm brown RAL 070 60 10



202 Off-white RAL 9001



235 Traffic yellow RAL 1023



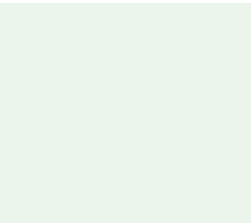
236 Orange



211 Flaming Red RAL 3000



226 Ruby red RAL 3003



220 Aegean



237 Yellow green RAL 110 80 60



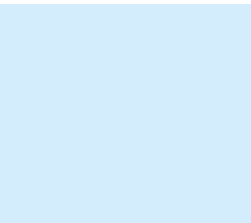
238 Green



221 Calypso



213 English green RAL 6009



239 Azure



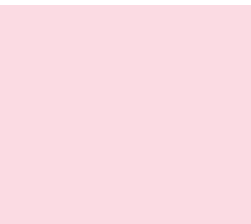
240 Ocean blue RAL 230 70 30



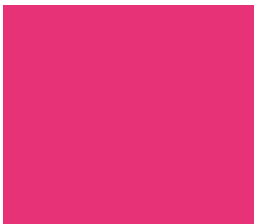
208 Sapphire blue RAL 5003



241 Night blue RAL 5011



242 Pink



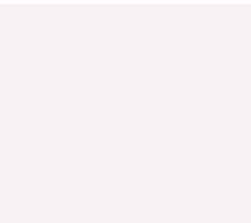
243 Magenta RAL 010 50 50



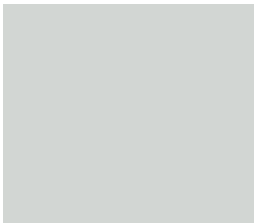
219 Violet RAL 4008



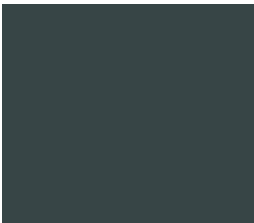
244 Purple



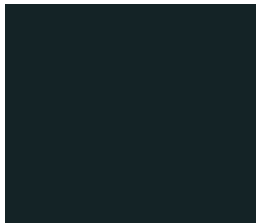
228 Classic white



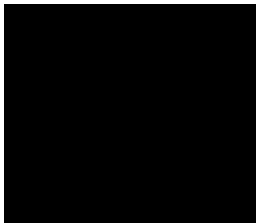
203 Light grey RAL 7035



209 Dark grey RAL 7011



231 Anthracite grey RAL 7016



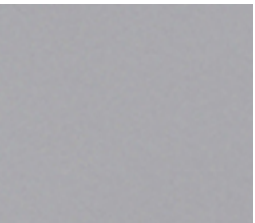
204 Black RAL 9005

SPECIAL COLOURS

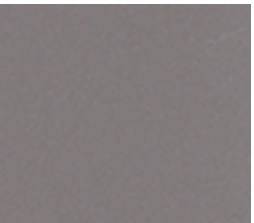
SMOOTH METALLICS



006 Aluminium RAL 9006



049 Anodic grey



005 Gunmetal grey



007 Anthracite

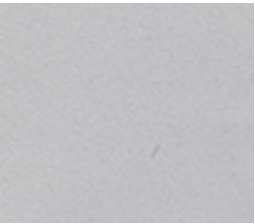


051 Yellow gold



050 Old gold

FINE TEXTURE METALLIC



035 Silver grey



036 Warm grey



045 Concrete grey



001 Sandblast grey



018 Pearl black



037 Cream



039 Grey brown



038 Cappuccino

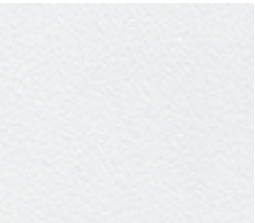


042 Chocolate

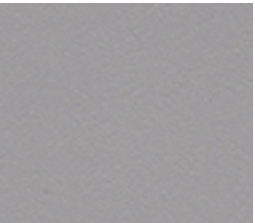


017 Pearl brown

FINE TEXTURE



053 Pure white



026 Platinum grey



028 Granite grey



046 Graphite black



040 Copper



041 Cinnamon



043 Khaki



044 Navy blue

This colour chart is only indicative. It's impossible to obtain a 100% exact colour reproduction in printing. A colour chart can be obtained on request.

TEMPO LST CONTINUOUS



CONTINUOUS CASING FROM WALL-TO-WALL BASED ON THE TEMPO LST CASING.

Jaga's innovative 'click' system allows for assembly of all components without tools. Suitable for a range of applications no matter how large or small.

With Jaga Continuous Tempo LST heights start from 200mm increasing in 100mm increments up to a recommended maximum height of 700mm. Lengths are made up of standard Tempo casings ranging from 400mm up to 3000mm with joining strips to make bespoke runs, that can include sections with no elements going into the casings for aesthetic or heat load requirements.

JAGA TEMPO LST CONTINUOUS OPTIONS & FEATURES:

- Brackets with cut outs for pipe work (subject to height and element type)
- Wall to wall casings for aesthetic appearance.
- Can be made up of active and inactive units.
- Internal & external corner sections
- Split deliveries available of elements & brackets with casings to follow
- A full site survey by a Jaga product specialist to site measure and offer advice can be arranged.



MAXI 2020 LST CONTINUOUS



CREATE
EMOTION

CONTINUOUS CASING **FROM WALL-TO-WALL** BASED ON THE STRONG, ROBUST MAXI 2020 LST CASING.

When a radiator is installed it protrudes from the wall and may result in a potential physical hazard for any vulnerable individuals. Limiting these hazards by using Jaga Maxi 2020 LST Continuous can help reduce this potential harm while giving an aesthetically pleasing finish.

With welded infills connected to the Maxi 2020 LST side panels, the continuous sections are as strong as the actual casing. If the casing is locked the joining strip is secure and cannot be removed, making the Maxi 2020 LST Continuous a safe, strong and robust option.

JAGA MAXI 2020 LST CONTINUOUS OPTIONS & FEATURES:

- Can run wall-to-wall
- Dynamic Boost effect (DBE)
- Anti-Bacterial paint finish
- Can be used with Jaga's ventilation solution 'Oxygen'
- Anti-ligature grilles
- Dummy casings for aesthetic and continuous appearance
- Split deliveries available





LST GUARANTEE & DELIVERY

DURATION OF THE GUARANTEE



Type equipment	Low-H ₂ O heat exchanger	Electric spare parts	Other spare parts
Tempo LST/Guardian LST/Maxi 2020 LST	30 years	---	10 years
Tempo DBE/Guardian DBE/Maxi 2020 DBE	30 years	2 years	10 years
DBE unit	---	2 years	---
Valves for Low-H ₂ O heat exchangers	---	---	3 years

Full Guarantee and Conditions of Sales available on request.

DELIVERY

Our Guardian LST and Maxi 2020 LST completet products are delivered in a strong cardboard packaging.

Standard delivery

Tempo LST:

- Low-H₂O heat exchanger with wall brackets, modular easy to handle casing with cutout for valves, fixing kit, extended air vent 1/8” and drain plug 1/2”
- cover plate in white effect for the side panel at the opposite end from the valve

Guardian LST:

- Low-H₂O heat exchanger with wall brackets, one piece casing with multiple cutouts for valves, fixing kit, extended air vent 1/8” and drain plug 1/2”
- cover plate in white effect for the side panel at the opposite end from the valve

Maxi 2020 LST:

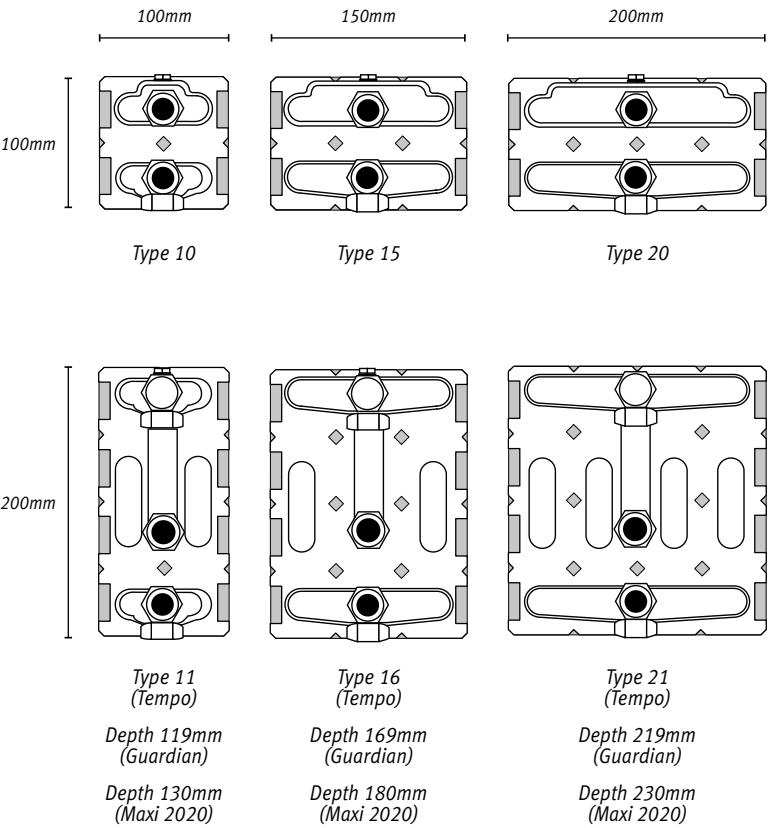
- Low-H₂O heat exchanger with wall brackets, fixing kit, extended air vent 1/8” and drain plug 1/2”
- pre assembled casing

Delivery with (optional) DBE:

- number of DBE unit(s) varies according to the length
- operation, control and power supply 12VDC
- mounting instructions included



HEAT EXCHANGERS OVERVIEW & PRESSURE DROP



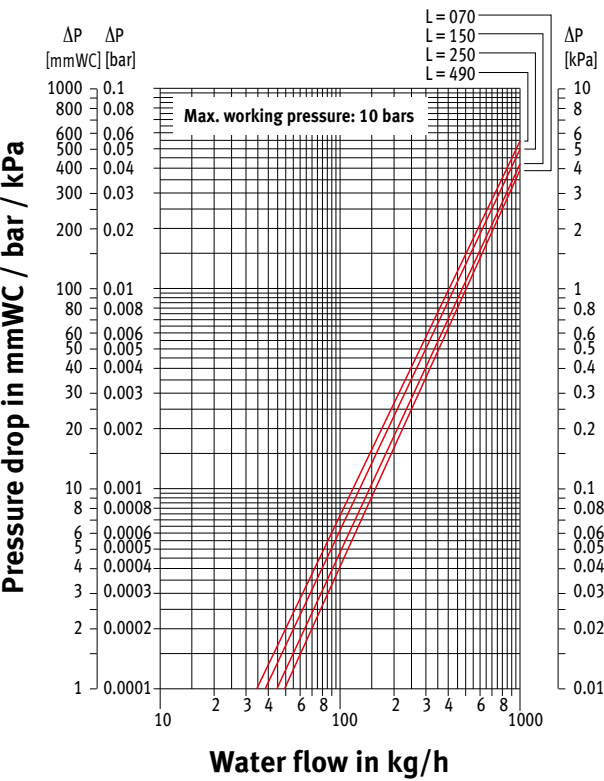
TO CALCULATE FLOW RATE:

Corrected output [Watts] x 3600
Specific heat capacity [J/kg.°C] x [flow temp – return temp]

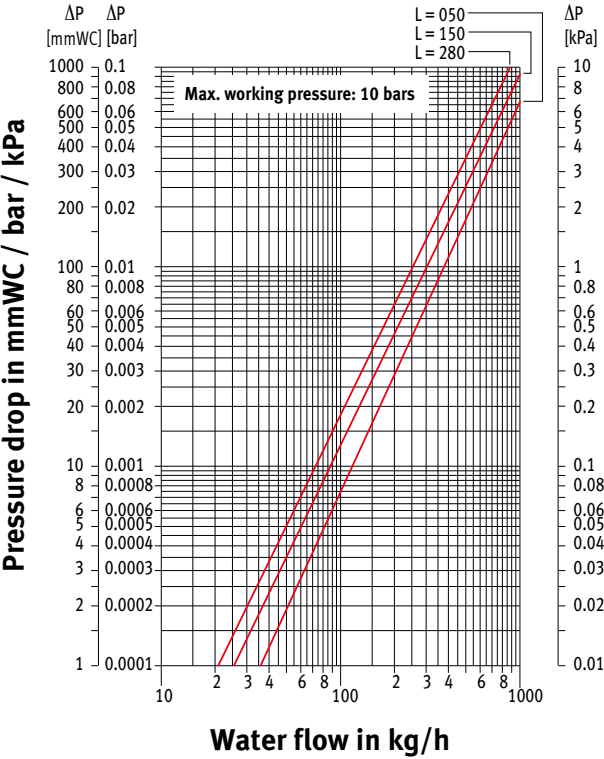
For central heating hot water systems
the specific heat capacity of 4187 can be used:
e.g. for a radiator with a 1000 Watt output with
a flow temp of 70°C and a return temp of 50°C.

Mass flow = $\frac{1000 \times 3600}{4187 \times (70 - 50)}$
= 42.99 kg/hr

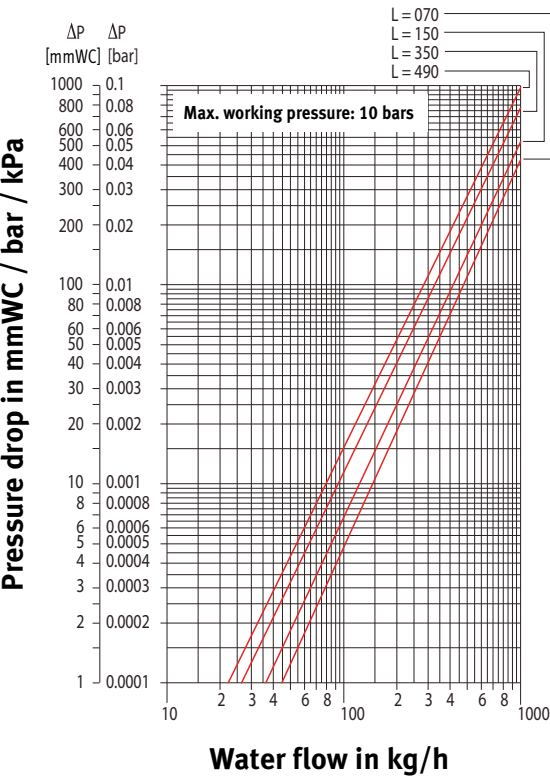
PRESSURE DROP - TYPE 20 (TEMPO ONLY)



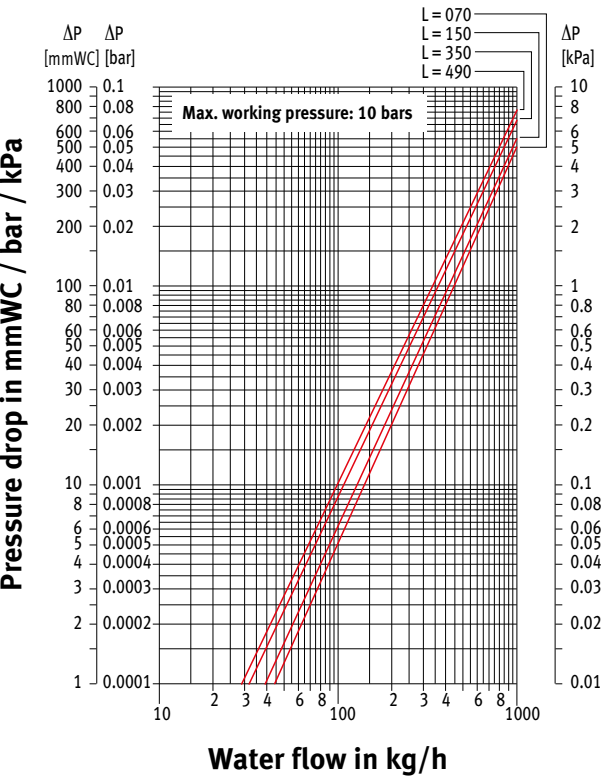
PRESSURE DROP - TYPE 11 (TEMPO), DEPTH 119MM (GUARDIAN), DEPTH 130MM (MAXI 2020)



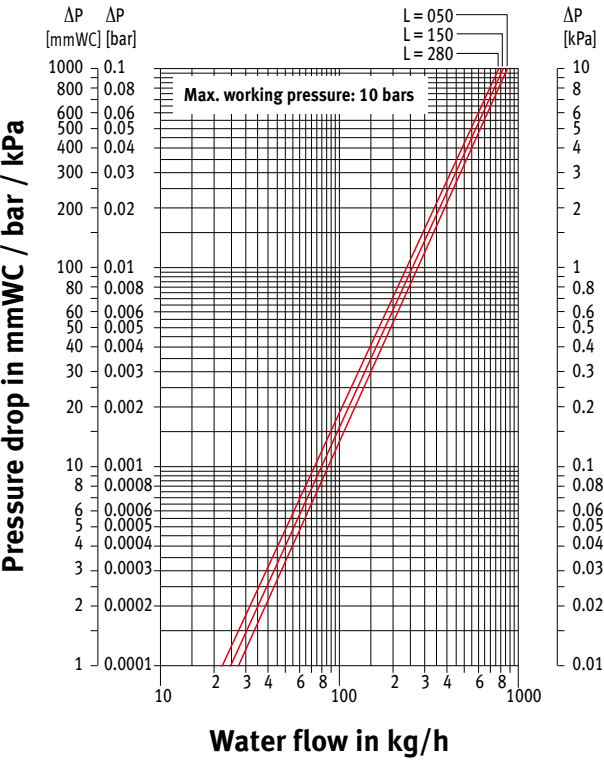
PRESSURE DROP - TYPE 10 (TEMPO ONLY)



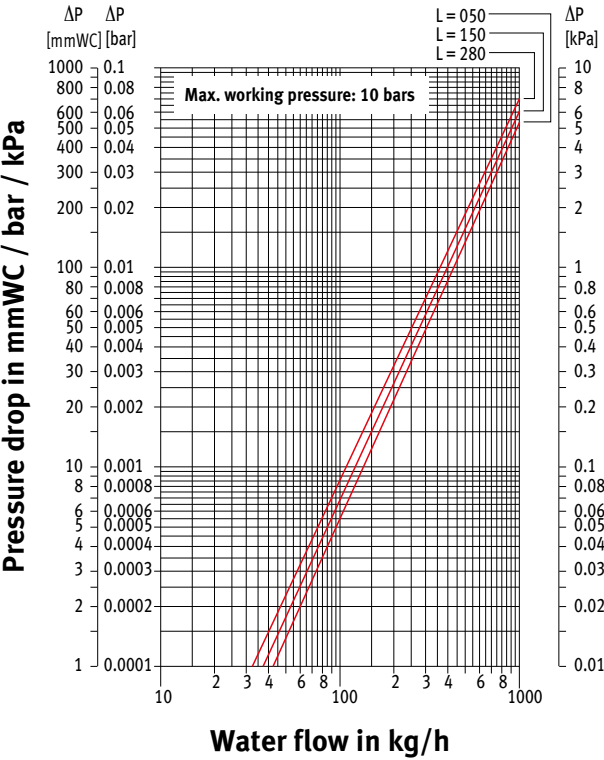
PRESSURE DROP - TYPE 15 (TEMPO ONLY)



PRESSURE DROP - TYPE 16 (TEMPO), DEPTH 169MM (GUARDIAN), DEPTH 180MM (MAXI 2020)



PRESSURE DROP - TYPE 21 (TEMPO), DEPTH 219MM (GUARDIAN), DEPTH 230MM (MAXI 2020)



DEMAND CONTROLLED HEATING & MECHANICAL VENTILATION

Jaga Oxygen works alongside our Low-H₂O radiators to deliver an energy-efficient, intelligent and fully programmable heating and ventilation solution.

This supply and extract system brings in fresh air at low-levels and extracts stale room air at high-levels creating optimal air movement, ensuring optimum indoor air quality (IAQ).

Due to its modular design this system is particularly effective for rooms with high occupancy such as classrooms, and rooms of lower occupancy such as offices and care homes.

Oxygen delivers clean, filtered, fresh air on demand and efficiently, in buildings of any age or type.



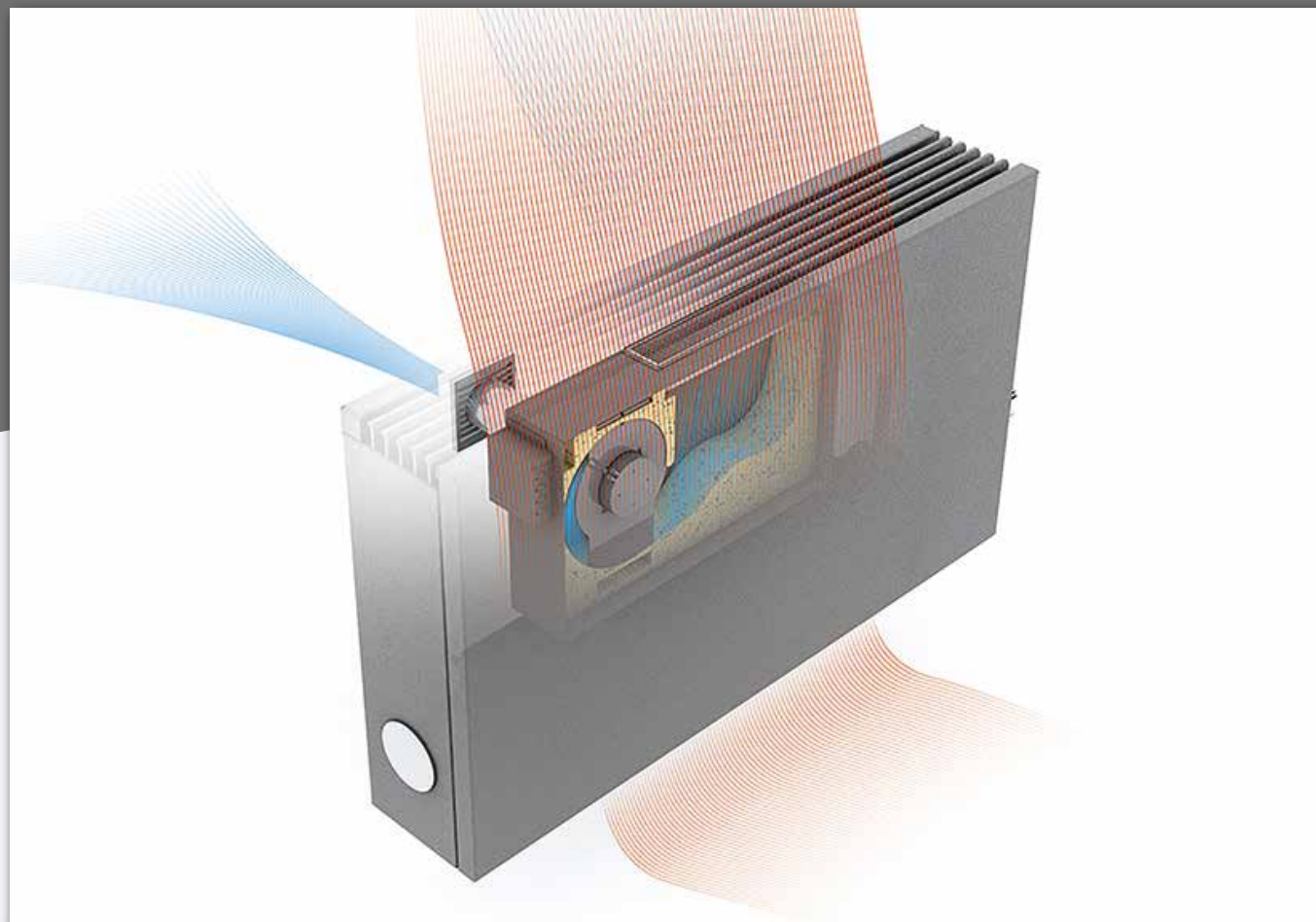
WHY CHOOSE DEMAND CONTROLLED MECHANICAL VENTILATION?

Demand Controlled Mechanical Ventilation only vents fresh filtered air when required, meaning that it is the most energy efficient method of ventilation whilst also eliminating the drawbacks of draughts and noise pollution. CO₂ levels are constantly monitored meaning that if occupancy levels rise or fall the system will draw in more or less fresh air, ensuring good indoor air quality is always present.

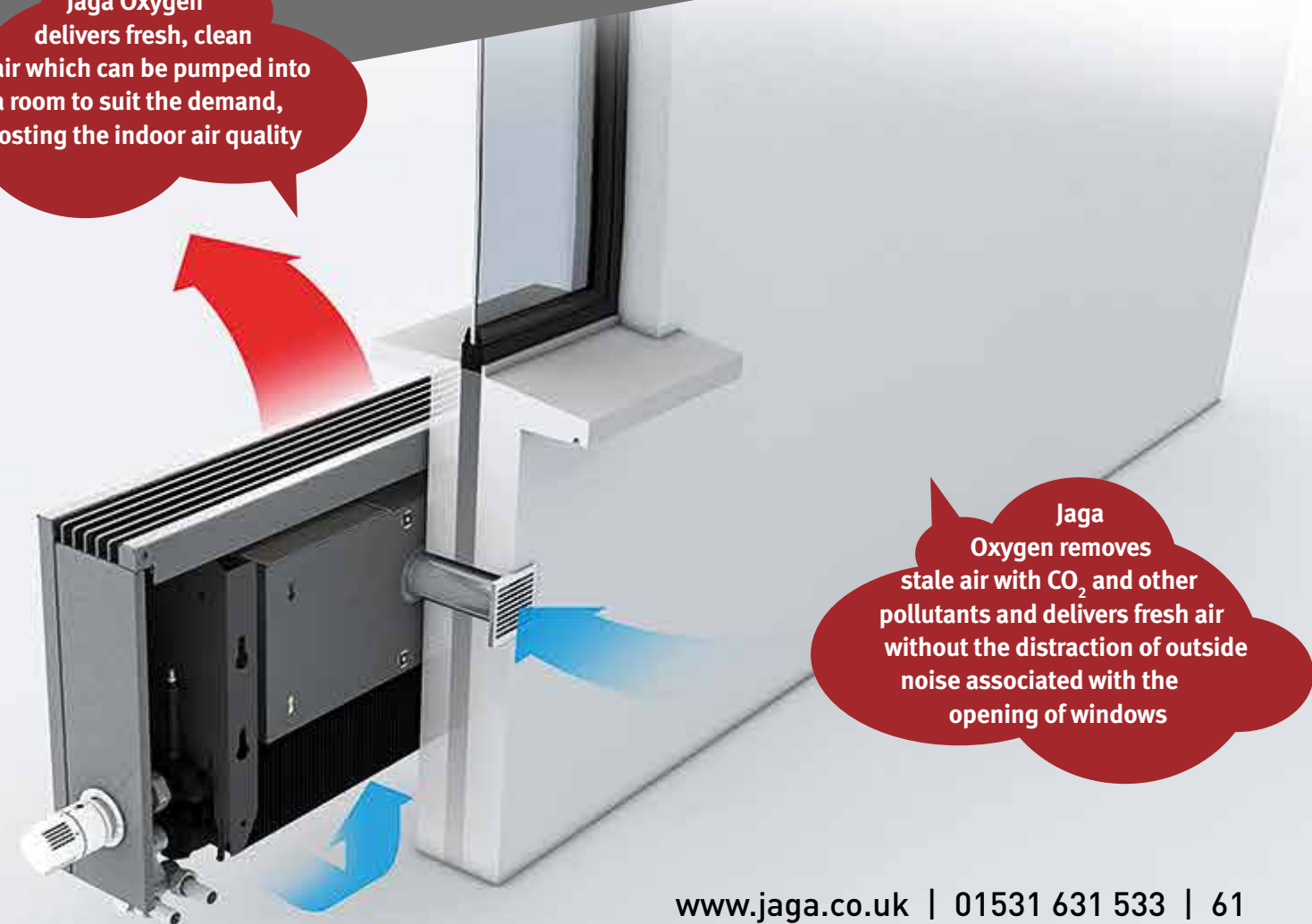
This control method also allows the system to react to other parameters such as temperature, thus also increasing comfort.

Jaga Oxygen is an energy efficient, innovative and highly responsive heating and ventilation solution providing automated:

- CO₂ monitoring
- Clean, fresh air on demand – adapting to the changing requirements of the room
- Heating even at low water temperatures
- Free night-time 'cooling' for energy efficient secure summer time cooling



Jaga Oxygen delivers fresh, clean air which can be pumped into a room to suit the demand, boosting the indoor air quality



Jaga Oxygen removes stale air with CO₂ and other pollutants and delivers fresh air without the distraction of outside noise associated with the opening of windows

LST - CORRECTION FACTORS

AVERAGE CORRECTION FACTORS
ACCORDING TO EN442 - 75/65/20°C

Tv	Tl	Tr	25	30	35	40	45	50	55	60	65	70	75	80	85
90	18		0.45	0.58	0.69	0.79	0.89	0.98	1.07	1.16	1.24	1.34	1.41	1.49	1.56
	20		0.38	0.52	0.63	0.74	0.83	0.92	1.01	1.10	1.18	1.28	1.35	1.43	1.50
	22		0.30	0.46	0.57	0.68	0.78	0.87	0.96	1.04	1.13	1.22	1.30	1.37	1.44
	24		0.20	0.39	0.52	0.62	0.72	0.81	0.90	0.99	1.07	1.15	1.24	1.31	1.38
85	18		0.42	0.54	0.65	0.75	0.84	0.93	1.01	1.10	1.20	1.27	1.34	1.41	
	20		0.36	0.49	0.59	0.69	0.79	0.87	0.96	1.04	1.12	1.21	1.28	1.35	
	22		0.28	0.42	0.54	0.64	0.73	0.82	0.90	0.99	1.06	1.15	1.22	1.30	
	24		0.19	0.36	0.48	0.58	0.68	0.76	0.85	0.93	1.01	1.10	1.17	1.24	
80	18		0.39	0.51	0.61	0.70	0.79	0.88	0.96	1.04	1.12	1.20	1.27		
	20		0.33	0.45	0.56	0.65	0.74	0.82	0.90	0.98	1.07	1.14	1.21		
	22		0.26	0.39	0.50	0.60	0.68	0.77	0.85	0.93	1.01	1.08	1.15		
	24		0.17	0.34	0.45	0.54	0.63	0.72	0.80	0.87	0.96	1.03	1.10		
75	18		0.37	0.47	0.57	0.66	0.74	0.82	0.90	0.99	1.05	1.12			
	20		0.30	0.42	0.52	0.61	0.69	0.77	0.85	0.93	1.00	1.07			
	22		0.24	0.36	0.46	0.55	0.64	0.72	0.79	0.88	0.95	1.01			
	24		0.16	0.31	0.41	0.50	0.59	0.67	0.74	0.83	0.89	0.96			
70	18		0.34	0.44	0.53	0.61	0.69	0.77	0.85	0.92	0.99				
	20		0.28	0.39	0.48	0.56	0.64	0.72	0.80	0.87	0.93				
	22		0.22	0.33	0.43	0.51	0.59	0.67	0.74	0.81	0.88				
	24		0.14	0.28	0.38	0.46	0.54	0.62	0.69	0.76	0.83				
65	18		0.31	0.40	0.49	0.57	0.64	0.71	0.79	0.85					
	20		0.25	0.35	0.44	0.52	0.59	0.66	0.74	0.80					
	22		0.19	0.30	0.39	0.47	0.54	0.61	0.69	0.75					
	24		0.12	0.25	0.34	0.42	0.50	0.57	0.64	0.70					
60	18		0.28	0.37	0.45	0.52	0.59	0.66	0.73						
	20		0.23	0.32	0.40	0.47	0.54	0.62	0.68						
	22		0.17	0.27	0.35	0.43	0.50	0.57	0.63						
	24		0.11	0.23	0.31	0.38	0.45	0.52	0.58						
55	18		0.25	0.33	0.40	0.47	0.55	0.60							
	20		0.20	0.29	0.36	0.43	0.50	0.56							
	22		0.15	0.24	0.32	0.38	0.45	0.51							
	24		0.09	0.20	0.27	0.34	0.40	0.47							
50	18		0.22	0.30	0.36	0.43	0.49								
	20		0.18	0.25	0.32	0.38	0.44								
	22		0.13	0.21	0.28	0.34	0.40								
	24		0.08	0.17	0.24	0.30	0.36								
45	18		0.19	0.26	0.32	0.38									
	20		0.15	0.22	0.28	0.34									
	22		0.11	0.18	0.24	0.30									
	24		0.06	0.14	0.20	0.26									
40	18		0.16	0.22	0.28										
	20		0.12	0.18	0.24										
	22		0.09	0.15	0.20										
	24		0.05	0.12	0.17										
35	18		0.13	0.19											
	20		0.10	0.15											
	22		0.07	0.12											
	24		0.03	0.09											
30	18		0.10												
	20		0.07												
	22		0.04												
	24		0.02												
The indicated outputs with ΔT 50 are the exact outputs, measured in accordance with EN 442. An average correction factor is given in this table for all other ΔT outputs, applicable for all dimensions. These correction factors are to be used for guidance only.															

CORRECTION FACTORS - LST WITH DBE

AVERAGE CORRECTION FACTORS
ACCORDING TO EN442 - 75/65/20°C

Tv	Tl	Tr	25	30	35	40	45	50	55	60	65	70	75	80	85
90	18		0.56	0.67	0.76	0.84	0.92	0.99	1.05	1.11	1.17	1.24	1.29	1.34	1.39
	20		0.49	0.62	0.71	0.80	0.87	0.94	1.01	1.07	1.13	1.20	1.25	1.30	1.35
	22		0.42	0.56	0.66	0.75	0.83	0.90	0.97	1.03	1.09	1.16	1.21	1.26	1.31
	24		0.31	0.50	0.61	0.71	0.79	0.86	0.93	0.99	1.05	1.11	1.17	1.22	1.27
85	18		0.53	0.64	0.73	0.81	0.88	0.95	1.01	1.07	1.14	1.19	1.24	1.29	
	20		0.47	0.59	0.68	0.76	0.84	0.91	0.97	1.03	1.09	1.15	1.20	1.25	
	22		0.39	0.53	0.63	0.72	0.79	0.86	0.93	0.99	1.05	1.11	1.16	1.21	
	24		0.29	0.47	0.58	0.67	0.75	0.82	0.89	0.95	1.01	1.07	1.12	1.17	
80	18		0.50	0.61	0.70	0.77	0.84	0.91	0.97	1.03	1.09	1.14	1.19		
	20		0.44	0.56	0.65	0.73	0.80	0.87	0.93	0.99	1.05	1.10	1.15		
	22		0.37	0.50	0.60	0.68	0.76	0.82	0.89	0.95	1.01	1.06	1.11		
	24		0.27	0.45	0.55	0.64	0.71	0.78	0.85	0.91	0.97	1.02	1.07		
75	18		0.48	0.58	0.66	0.74	0.80	0.87	0.93	0.99	1.04	1.09			
	20		0.42	0.53	0.62	0.69	0.76	0.82	0.88	0.95	1.00	1.05			
	22		0.35	0.48	0.57	0.65	0.72	0.78	0.84	0.91	0.96	1.01			
	24		0.25	0.42	0.52	0.60	0.68	0.74	0.80	0.87	0.92	0.97			
70	18		0.45	0.55	0.63	0.70	0.76	0.82	0.89	0.94	0.99				
	20		0.39	0.50	0.58	0.65	0.72	0.78	0.85	0.90	0.95				
	22		0.32	0.45	0.54	0.61	0.68	0.74	0.80	0.86	0.91				
	24		0.24	0.39	0.49	0.57	0.64	0.70	0.76	0.82	0.87				
65	18		0.42	0.51	0.59	0.66	0.72	0.78	0.84	0.89					
	20		0.36	0.47	0.55	0.62	0.68	0.74	0.80	0.85					
	22		0.30	0.42	0.50	0.57	0.64	0.70	0.76	0.81					
	24		0.22	0.36	0.46	0.53	0.60	0.66	0.72	0.77					
60	18		0.39	0.48	0.55	0.62	0.68	0.74	0.79						
	20		0.34	0.43	0.51	0.58	0.64	0.70	0.75						
	22		0.28	0.39	0.47	0.54	0.60	0.66	0.71						
	24		0.20	0.33	0.42	0.49	0.56	0.62	0.67						
55	18		0.36	0.44	0.51	0.58	0.64	0.69							
	20		0.31	0.40	0.47	0.54	0.60	0.65							
	22		0.25	0.35	0.43	0.49	0.55	0.61							
	24		0.17	0.30	0.39	0.45	0.51	0.57							
50	18		0.33	0.41	0.47	0.53	0.59								
	20		0.28	0.36	0.43	0.49	0.55								
	22		0.22	0.32	0.39	0.45	0.51								
	24		0.15	0.27	0.35	0.41	0.47								
45	18		0.30	0.37	0.43	0.49									
	20		0.25	0.33	0.39	0.45									
	22		0.20	0.28	0.35	0.41									
	24		0.13	0.24	0.31	0.37									
40	18		0.26	0.33	0.39										
	20		0.22	0.29	0.35										
	22		0.17	0.25	0.31										
	24		0.11	0.20	0.27										
35	18		0.23	0.29											
	20		0.18	0.25											
	22		0.14	0.21											
	24		0.08	0.16											
30	18		0.19												
	20		0.14												
	22		0.10												
	24		0.06												
The indicated outputs with ΔT 50 are the exact outputs, measured in accordance with EN 442. An average correction factor is given in this table for all other ΔT outputs, applicable for all dimensions. These correction factors are to be used for guidance only.															

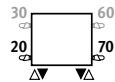
VALVES, TRV HEADS & ACCESSORIES

OUR SPECIALLY SHORTENED VALVES CAN BE CONCEALED WITHIN THE STANDARD CASING. OTHER VALVES MAY BE PARTIALLY VISIBLE.

JAGA PRO THERMOSTATIC VALVE (for Tempo LST & Guardian LST – WT only)



- with pre-setting
- for two pipe
- for connection to the floor
- complies to European standard EN 215.1



SLEEVE COUPLING M24

Copper Tube

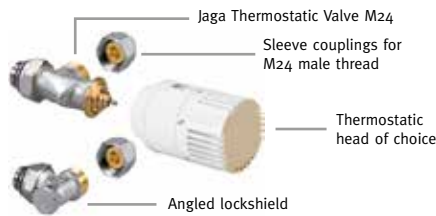
CODE	Tube Ø
5094.110	10/1
5094.115	15/1

Steel Tube for C.H

CODE	Tube Ø
5094.501	1/2"

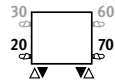
Please note other couplings are available on request.

JAGA THERMOSTATIC VALVE – WALL (suitable for all LST Radiators)

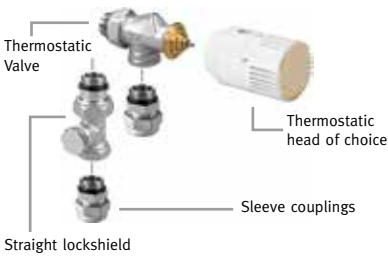


- Consists of the following :
- 5090.407 type o6 angled TRV
 - 5090.111 type o6 angled lockshield valve
 - 5090.1125 white TRV head
 - Adaptors to suit 15mm copper pipe as standard

To suit pipework to wall (Same end 20/70 connections).

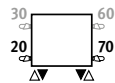


JAGA THERMOSTATIC VALVE – FLOOR (suitable for all LST Radiators)



- Consists of the following :
- 5090.405 angled TRV
 - 5090.109 straight lockshield valve
 - 5090.1125 white TRV head
 - Adaptors to suit 15mm copper pipe as standard

To suit pipework from the floor (Same end 20/70 connections).



SLEEVE COUPLING 1/2"

Copper Tube

CODE	Tube Ø
5098.110	10/1
5098.115	15/1

Steel Tube for C.H

CODE	Tube Ø
5094.502	1/2"

Please note other couplings are available on request.

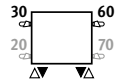
HIGH LEVEL JAGA TOP VALVE* (suitable for all LST Radiators)



- Consists of the following :
- 5090.13001 High Level TRV set (including valve, capillary and head)
 - 5090.109 straight lockshield valve (floor connections) or 5090.110 angled lockshield valve (wall connections)
 - Adaptors to suit 15mm copper pipe as standard

Same end 30/60 connections.

* Minimum height 300mm



TRV HEADS



CODE 5090.1125

CODE 5090.1151

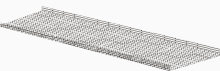


CODE 5090.1150

CODE 5090.1152

PENCIL PROOF GRILLE (TEMPO & GUARDIAN)

Same colour as casing.

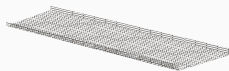


CODE	H	L	D
5606	000	064*	119*

* to suit casing length, depth (Guardian) or type (Tempo)

PENCIL PROOF GRILLE WT/FT ONLY (MAXI 2020)

Same colour as casing.

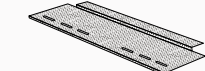


CODE	H	L	D	Colour
5612	000	083*	230*	233

* to suit casing length and depth

BASE GRILLE WT/WT ONLY (MAXI 2020)

Same colour as casing.



CODE	H	L	D	Colour
5613	000	083*	130*	233

* to suit casing length and depth

ARTHRITIC AID



CODE
5090.ARTH

SAFETY WITH DESIGN IN MIND

LOW SURFACE TEMPERATURE (LST) RADIATORS COMPRISE OF HEAT EMITTERS WITHIN SPECIALLY DESIGNED OUTER CASINGS.

The emitter convects heat, but a small air gap between the emitter and the surface of the casings prevents any point on the surface ever getting hotter than 43°C.

LST radiators provide safe to touch solutions for heating many types of buildings – the most practical way to prevent vulnerable people from coming into direct contact with hot surfaces.

Prolonged contact with higher temperatures can cause severe burns, particularly to those most vulnerable such as young children, the elderly and the infirm. The low surface temperature of Jaga LST heating solutions makes them ideal in situations where safety is paramount.

Jaga LST radiators can be installed in commercial and public buildings running heating systems with high flow temperatures with total public safety assured, as the maximum casing temperature will remain safe at all times.



This is why Jaga LST heating solutions must be the first and safest choice for:



Educational Establishments



Hospitals & Healthcare



Care & Nursing Homes



Hotels and Leisure Centres



Sheltered Housing



Prisons & Secure Facilities



Public & Government Buildings



Nurseries and Primary Schools

Meeting and exceeding the regulations to maximise overall safety

Jaga's LST radiators offer safe, yet stylish heating solutions for any areas where children or vulnerable adults may be present.

Our radiators have been designed to conform to the NHS Estates Health Guidance Notes on surface temperature and casing design. They are tested and certified to BS EN 442-2, 'Specification for radiators and convectors – Test methods and rating for their performance and quality'.

Heat emitters and valve bodies are totally enclosed within casings. Outer casings remain cool to touch, even at high



flow temperatures, reducing the risk of burns. To put this into context, standard steel panel radiators can reach a surface temperature of up to 75°C, which could cause serious burns within seconds. The radiators are designed with rounded grilles and chamfered front and side panels for maximum safety.

Where necessary, allen key fixings are used to discourage unauthorised tampering and simple locking devices can be supplied to prevent unauthorised casing removal. On certain models, bottom grilles can be supplied to conceal all valves and pipework; they can be assembled to run full width. Anti-ligature grilles and arthritic TRV adaptors are also available as options.

The Jaga project management team have a clear understanding of how heating engineers and contractors operate and exactly where and when products are needed on site. We can also deliver heating elements, brackets and valves early enough for you to install and commission the system, whilst holding back casings until you need them, avoiding unnecessary storage or damage of units. We know that storage on site is often an issue which is why we offer phased or split deliveries, so that you can call-off products only when you need them.

Improved performance through Low-H₂O Technology

Jaga's Low-H₂O radiators are low-mass, low water content products, which use only a tenth of the water

and weight of conventional steel panel radiators. This means a faster response, improved comfort and lower fuel bills (as confirmed in testing at BRE and KIWA).

Compared to steel panel radiators with separate covers, the purpose designed Jaga LST radiators with Low-H₂O heat emitters are considerably more efficient, providing maximum power from minimum dimensions. Jaga LST radiators incorporate this technology, making each product cheaper to run and environmentally-friendly.

See page 6 for more information on Low-H₂O Technology.

Easy installation, minimal maintenance

The design of our LST radiators features with no visible welds. All of our LST radiators have been designed and constructed to enable cleaning and maintenance to be carried out easily without disturbance to plumbing.

Grilles can be removed independently of the outer casing or, if necessary, the complete casing can be removed for decoration without draining the central heating system.

Some of our LST radiators are available with anti-bacterial coatings for use in clinical areas.



DESIGN CONSIDERATIONS AND 'DUTY OF CARE'



REGULATIONS FOR HOT SURFACES ARE GOVERNED BY TWO MAJOR BODIES:

- THE NHS WHICH COVERS ITS OWN ESTATES
- THE HSE (HEALTH AND SAFETY EXECUTIVE) WHICH COVERS OTHER WORKING ENVIRONMENTS

HSE HSE Information Sheet, 'Managing the risks from hot water and surfaces in health and social care'.

The HSE's job is to prevent people being killed, injured or made ill by work. This covers burning risks from hot surfaces in health and social care.

Chief executives, general managers and managers under the Health and Safety at Work Act 1974 have a 'duty of care' and should demonstrate that they are providing care in a safe environment; this is equally applicable to new and existing premises.

Recommendations regarding water and surface temperature apply to all ward accommodation, residents' rooms and those areas to which patients, residents and visitors have free access (including public areas).

Guidance sheet from the Health and Safety Executive states the following when it comes to hot surfaces:

'Contact with surfaces above 43°C can lead to serious injury. Prolonged contact often occurs because people have fallen and are unable to move, or are trapped by furniture. Incidents can occur in areas where there are low levels of supervision, e.g. in bedrooms,

bathrooms and some communal areas...'

'Many radiators and associated pipework are likely to operate at temperatures which may present a burn risk.

Where assessment identifies that vulnerable people may come into prolonged contact, such equipment should be designed or covered so that the maximum accessible surface temperature does not exceed 43°C.

The risk of burns from hot surfaces may be reduced by:

- *providing low surface temperature heat emitters*
- *locating sources of heat out of reach*
- *guarding the heated areas (e.g. providing radiator covers, covering exposed pipework)*
- *reducing the flow temperatures, although this should not reduce the effectiveness or increase risk from legionella.*

DN4 NHS Estates Health Guidance Notes – DN4

The ramifications of the judgements are considered

within the Health Service, for instance, to be so serious, that NHSE issued guidelines to advise of the potential dangers of uncovered radiators or pipework that can be hot enough to cause serious injury or even death to those who fall onto them and be unable, through infirmity, to move away.

This covers 'Safe hot water and surface temperatures'.

This booklet was issued following a number of serious accidents.

This guidance should be followed in all healthcare and personal social services premises and those premises registered under the Registered Homes Act 1984.

It may also be appropriate in non-registered premises, for example sheltered accommodation, where the occupants are equally at risk.

BS EN 442

BS EN 442-2: 1997, 'Specification for radiators and convectors – Test methods and rating for their performance and quality' is the British Standard test for heat output – it requires that water enters and leaves the radiator at definite temperatures. Flow into the radiator will be at 75°C. Return out (from) the radiator will be at 65°C. And the room temperature will be at a steady 20°C.

Part M Part M, Section 5: Sanitary accommodation in buildings other than dwellings

Section 5 states that sanitary accommodation will satisfy requirement Part M1 or M3 if...

'any heat emitters are either screened or have their exposed

surfaces kept at a temperature below 43°C'.

and that

'any heat emitters are located so that they do not restrict the minimum clear wheelchair manoeuvring space, nor the space beside the WC used for transfer from the wheelchair to the WC.'

BS 8300

BS 8300: 2009, 'Design of buildings and their approaches to meet the needs of disabled people – Code of practice' makes recommendations for the provision of 'Changing Places'.

These are new toilet and sanitary/changing facilities for use by disabled persons and their carers where conventional accessible toilets are inadequate. They offer adequate space for the disabled person and up to two carers and incorporate a centrally placed toilet, height adjustable adult-sized changing bench, hoist, screen or curtain and often have washdown facilities.

They are recommended for large publicly accessible places such as shopping malls, airports, or motorway service stations.

'Changing Places' make it possible for more people, especially those with profound and multiple learning difficulties, to get out and enjoy facilities most of us take for granted, and to do so with dignity.



WHAT MAKES JAGA SUSTAINABLE?

Sustainability does not just start when the product is in use, but from the sourcing of the materials and throughout the product life cycle. Being sustainable and reducing our impact on the environment is what we do. There is no Planet B*. The values are the ethos on which the company bases everything.

HIGHEST EFFICIENCY RATINGS

Jaga's Low-H₂O uses less energy than any other radiator and contains 90% less water than that of an equivalent steel panel. Meaning faster response times and no wasteful over-heating.

BUILT TO LAST

The heat exchanger consists of aluminium heating fins, copper and brass irrigation tubes and brass collectors. Totally rust-free, resistant to very high working pressures and with a 30-year guarantee. A long life means lower environmental impact.

EFFICIENT USE OF MATERIALS

Since copper and aluminium are such efficient heat conductors, only a relatively small quantity of these materials are required, this includes the casing. A Low-H₂O radiator weighs much less and uses a lot less materials than a steel panel radiator.

FULLY RECYCLABLE

Copper and aluminium may not seem like the most ecological choice, but due to their high efficiency, long life, and the fact that these valuable materials are always fully recyclable. It will ultimately result in an improved LCA score.

"Low-H₂O radiators reduce the CO₂ emissions of an average house by about 1000 kg."



**RESPECT
NATURE**

**Ban Ki-Moon,
Former Secretary General
of the UN*

JAGA LOW-H₂O RADIATORS REDUCE WASTE

Life cycle analysis (LCA) according to the Ovam Ecolizer database and weight.
Example for a 10 kW heating system, 45/35/20 temperature profile.

	underfloor heating	cast iron radiator	steel panel radiator	Jaga Low-H ₂ O radiator
LCA Score	248700	248744	185853	66517
Total weight incl. water (kg)	6252	360	216.7	48.8

What is an LCA score?

LCA or 'Life Cycle Assessment' is a system designed to compare products and their overall impact on the environment. This looks at all processes from design, materials sourced, manufacturing, energy usage until the product is ultimately 'retired'. Governments are trying to standardise LCA systems and to integrate them into the legislation. Jaga uses Ovam's Ecoliser 2.0 based on the Eco-Indicator EI-99 database. The lower the LCA score, the less adverse impact on the environment. Jaga Low-H₂O radiators score significantly better than other radiators or heating systems.

BEST LCA - SCORE



OTHER PRODUCTS

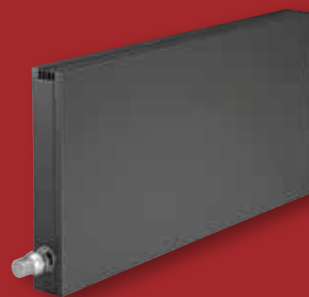
WALL MOUNTED



PLAY



KNOCKONWOOD

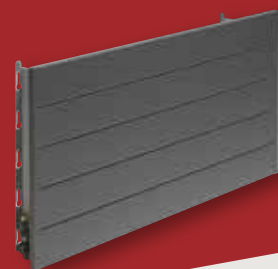


STRADA



LINEA PLUS

INSTALLATION IN
A WALL RECESS



BRIZA



MINI WALL



OXYGEN



JAGA'S OXYGEN SYSTEM WORKS WITH ANY OF
OUR LOW SURFACE TEMPERATURE (LST)
AND WALL-MOUNTED PRODUCTS.

FREESTANDING



MINI



KNOCKONWOOD DBE



MINI DBE



LINEA PLUS



PANEL PLUS

LOW SURFACE TEMPERATURE (LST)



GUARDIAN LST
(AVAILABLE IN WALL
AND FLOOR MODELS)

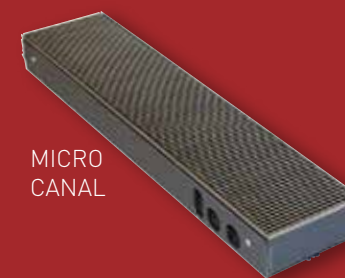


MAXI 2020 LST
(AVAILABLE IN WALL
AND FLOOR MODELS)

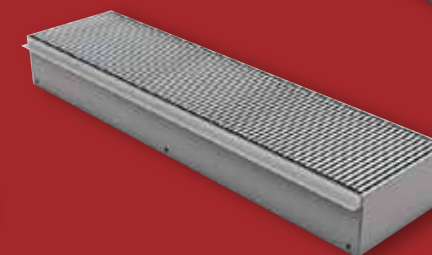
TRENCH HEATING



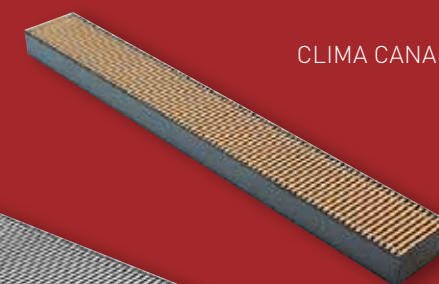
MINI CANAL
DBE



MICRO
CANAL



QUATRO CANAL



CLIMA CANAL

DESIGNER

HEATWAVE



GEO



VERTIGA



TETRA



DECO
PANEL



ORECA
CROSSROADS



IGUANA &
IGUANA PLUS

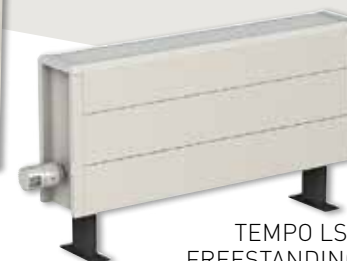


ORECA
MOON

DECO
SPACE



PANEL
PLUS



CPD SEMINAR REQUEST



VENTILATION IN SCHOOLS

Jaga UK's one-hour Ventilation in Schools CPD seminar certified by RIBA and CIBSE is designed to keep HVAC professionals abreast of recent advances and compliance in educational based environments.

This includes the techniques and challenges faced by specifiers in designing the most appropriate solutions.

Each seminar addresses current practices whilst helping designers to identify technical solutions and harness the benefits of various systems.

Jaga UK CPD seminars can be held at a venue of your choice.

CONTENT OF CPD:

How to meet BB101 requirements

How to maintain acceptable indoor air quality (IAQ)

Effects of poor IAQ

The importance of maintaining ideal CO2 levels

Relevant regulatory requirements

Natural and powered solutions

How to achieve effective ventilation



To arrange a CPD or to request more information please contact CPD Coordinator on the details below:
 Jaga House, Orchard Business Park, Ledbury, HR8 1LG - ☎ 01531 631 533 - email us @ cpd@jaga.co.uk
 You can also register online at www.jaga.co.uk/technical-support/cpd-seminar-request



AT THE END OF THE LINE... HEAT EMITTER SELECTION CRITERIA

Jaga UK's one-hour Heat Emitter CPD seminar is designed to keep HVAC professionals up-to-date with the choice of heat emitters available. We look at their effect on the energy performance and running costs of the building before exploring in-depth the challenges faced in designing the most appropriate heating solution.

This CPD aims to address some of the issues that building service engineers and designers can face when looking at heat emitters and the knock on effect of the chosen selection.

Jaga UK CPD seminars are accredited by CIBSE, and can be held at a venue of your choice.

CONTENT OF CPD:

The basics covering heat sources & distribution

Regulations: building and specific regulations for different buildings

The types of heat emitters available

Looking at combined approaches

Designing the best solution



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TRENCH & PERIMETER HEATING

Jaga UK's one-hour Facade Heating CPD-certified seminars is designed to keep HVAC professionals abreast of recent advances in facade heating techniques before exploring, in depth, the challenges faced by building services engineers in designing the most appropriate solution.

The seminar addresses current practices whilst helping design engineers to identify technical solutions and harness the benefits of the latest natural and fan-assisted trench and perimeter heating systems.

Jaga UK CPD seminars are accredited by CIBSE, and can be held at a venue of your choice.

CONTENT OF CPD:

Design considerations for trench heating

Influences of trench configuration

When to use low level floor mounted heating

Working with renewable energy sources

Calculating heat outputs

Case studies of recent facade heating projects

EN16430 legislation

Design & performance criteria



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BUILDING
BRIDGES



Jaga runs accredited CIBSE and RIBA Continuous Professional Development seminars on:

- Heat Emitter Selection
- Facade Heating
- Ventilation in Schools

Register your interest on our website:

www.jaga.co.uk/technical-support/cpd-seminar-request/



Award winning Low-H₂O technology



Eco design up to 30 year guarantee



Outstanding performance with low temperature systems



Split deliveries



Wide range of sizes with a choice of designs



Valve options can be concealed in casing



Design support and site assistance



Award winning customer service



BIM files available



www.jaga.co.uk



Climate Designers -
Heating, Cooling
and Ventilation

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Fax: +32 11 32 35 78
Email: info@jaga.be

About Jaga

Jaga manufactures a wide range of energy-efficient, heating, ventilation and cooling solutions.

Originally founded in Belgium in 1962 and established in the UK in 1991, Jaga UK is now one of the UK's leading distributors of award-winning, energy-saving, low-water content and designer products.

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