

Arto Horizontal Single

Declaration of Performance



DOP No.	2608-04	Unique Product Code	ARTHS
Trading Name	Arto Horizontal Single	Type, Batch, or Serial Number	ARTHS _ _ _ _

Manufacturer:

MHS Radiators Ltd, Unit 4 Genesis, Endeavour Drive, Basildon, SS14 3WF

Tel: 0345 521 5666 | Email: mhs@modularhg.co.uk | Website: www.mhsradiators.co.uk

System of ACVP:

System 3

Declared uses of the product, within the scope of the applicable harmonised technical specification:

Radiators for heating emission meant for permanent installation in heating systems of domestic buildings, supplied by a remote source of hot water or steam with temperature inferior to 110° C (EN 442-1-2 2014).

Notified Laboratory:

CETIAT – Centre Technique Des Industries Aerauliques et Thermiques – Notified Body Number: 1623
Domaine Scientifique de la Doua – 25, avenue des Arts – 69100 Villeurbanne

Tel: +33 0472444900 | E-mail: cetiat.commercial@cetiat.fr | Website: www.cetiat.fr

The notified body performed tests according to harmonised standard UNI EN 442 and released:

Test Report for the determination of the thermal power of an heating element:
N° 005-194, 2005-196, 2005-197, 2005-198 – 27/10/2005; integrazione: 16/06/2008;

Pressure Resistance Test Report:
N°2005-194, 2005-196, 2005-197, 2005-198 – 27/10/2005; integrazione: 16/06/2008.

Harmonised technical specifications:

EN 442-1:2014, PCR-ed4-EN-2021 09 06,
PSR-0011-ed2.0 EN-2023 06 06, ISO 14025:2006, EN15804+A2.

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Declared performance:

Performance of the essential characteristics defined by the harmonised technical specification:

Essential Characteristics	Performance
Fire reaction	A1
Release of dangerous substances	NO
Maximum working pressure	5 bar
Pressure tightness	No leakage at 1.3 x working pressure
Pressure resistance	No leakage at 1.69 x working pressure
Maximum surface temperature	110°C
Rated thermal output	See Appendix 1
Thermal output in different operating conditions	See Appendix 1
Characteristic curve	$\Phi = K_m \times \Delta T^n$
Resistance against corrosion	No > 100h
Resistance against minor impact	Class 0

Signed for and on behalf of the manufacturer by:

Alex Bradley
Commercial Director
10/09/26

A handwritten signature in black ink, appearing to read 'ABradley', written over a horizontal dotted line.

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Appendix 1 - Declared performance:

Performance of the essential characteristics defined by the harmonised technical specification:

Rated thermal output	Width: 400mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	138	71	1.0855	1.2378
	336	162	83	1.2802	1.2380
	392	187	96	1.4708	1.2383
	448	211	109	1.6609	1.2386
	504	235	121	1.8475	1.2389
	560	259	133	2.0305	1.2392
	616	282	145	2.2139	1.2394
	672	306	158	2.3961	1.2397
	728	329	169	2.5748	1.2400
	784	352	181	2.7530	1.2403
	840	376	194	2.9319	1.2405

Rated thermal output	Width: 500mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	172	89	1.3569	1.2378
	336	203	105	1.6002	1.2380
	392	234	121	1.8385	1.2383
	448	264	136	2.0762	1.2386
	504	294	151	2.3094	1.2389
	560	324	167	2.5381	1.2392
	616	353	182	2.7674	1.2394
	672	383	197	2.9952	1.2397
	728	412	212	3.2185	1.2400
	784	441	227	3.4413	1.2403
	840	470	242	3.6649	1.2405

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Appendix 1 - Declared performance:

Performance of the essential characteristics defined by the harmonised technical specification:

Rated thermal output	Width: 600mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	206	106	1.6283	1.2378
	336	244	126	1.9202	1.2380
	392	280	144	2.2061	1.2383
	448	317	163	2.4914	1.2386
	504	353	182	2.7712	1.2389
	560	388	200	3.0457	1.2392
	616	424	218	3.3209	1.2394
	672	459	236	3.5942	1.2397
	728	494	254	3.8621	1.2400
	784	529	272	4.1295	1.2403
	840	563	290	4.3979	1.2405

Rated thermal output	Width: 700mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	241	124	1.8997	1.2378
	336	284	146	2.2403	1.2380
	392	327	168	2.5738	1.2383
	448	370	191	2.9066	1.2386
	504	412	212	3.2331	1.2389
	560	453	233	3.5533	1.2392
	616	494	254	3.8744	1.2394
	672	536	276	4.1932	1.2397
	728	576	297	4.5058	1.2400
	784	617	318	4.8178	1.2403
	840	657	338	5.1309	1.2405

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Appendix 1 - Declared performance:

Performance of the essential characteristics defined by the harmonised technical specification:

Rated thermal output	Width: 800mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	275	142	2.1710	1.2378
	336	325	167	2.5603	1.2380
	392	374	193	2.9415	1.2383
	448	422	217	3.3218	1.2386
	504	470	242	3.6950	1.2389
	560	518	267	4.0610	1.2392
	616	565	291	4.4278	1.2394
	672	612	315	4.7922	1.2397
	728	658	339	5.1495	1.2400
	784	705	363	5.5060	1.2403
	840	751	387	5.8638	1.2405

Rated thermal output	Width: 1000mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	344	183	2.7138	1.2378
	336	406	216	3.2004	1.2380
	392	467	248	3.6769	1.2383
	448	528	280	4.1523	1.2386
	504	588	312	4.6187	1.2389
	560	647	344	5.0762	1.2392
	616	706	375	5.5348	1.2394
	672	765	406	5.9903	1.2397
	728	823	437	6.4369	1.2400
	784	881	468	6.8825	1.2403
	840	939	498	7.3298	1.2405

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Appendix 1 - Declared performance:

Performance of the essential characteristics defined by the harmonised technical specification:

Rated thermal output	Width: 1200mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	413	213	3.2566	1.2378
	336	487	251	3.8405	1.2380
	392	560	288	4.4123	1.2383
	448	634	327	4.9828	1.2386
	504	706	364	5.5424	1.2389
	560	776	400	6.0914	1.2392
	616	847	436	6.6418	1.2394
	672	918	473	7.1884	1.2397
	728	988	509	7.7243	1.2400
	784	1057	544	8.2590	1.2403
	840	1127	580	8.7958	1.2405

Rated thermal output	Width: 1400mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	482	248	3.7993	1.2378
	336	568	293	4.4806	1.2380
	392	654	337	5.1477	1.2383
	448	739	381	5.8132	1.2386
	504	823	424	6.4662	1.2389
	560	906	467	7.1067	1.2392
	616	988	509	7.7487	1.2394
	672	1071	552	8.3864	1.2397
	728	1152	593	9.0117	1.2400
	784	1233	635	9.6355	1.2403
	840	1315	677	10.2617	1.2405

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Appendix 1 - Declared performance:

Performance of the essential characteristics defined by the harmonised technical specification:

Rated thermal output	Width: 1500mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	516	266	4.0707	1.2378
	336	609	314	4.8006	1.2380
	392	701	361	5.5154	1.2383
	448	792	408	6.2285	1.2386
	504	882	454	6.9281	1.2389
	560	971	500	7.6143	1.2392
	616	1059	545	8.3022	1.2394
	672	1148	591	8.9855	1.2397
	728	1235	636	9.6554	1.2400
	784	1322	681	10.3238	1.2403
	840	1409	726	10.9947	1.2405

Rated thermal output	Width: 1600mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	550	283	4.3421	1.2378
	336	650	335	5.1206	1.2380
	392	747	385	5.8830	1.2383
	448	845	435	6.6437	1.2386
	504	941	485	7.3899	1.2389
	560	1035	533	8.1219	1.2392
	616	1130	582	8.8557	1.2394
	672	1224	630	9.5845	1.2397
	728	1317	678	10.2990	1.2400
	784	1410	726	11.0120	1.2403
	840	1502	774	11.7277	1.2405

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Appendix 1 - Declared performance:

Performance of the essential characteristics defined by the harmonised technical specification:

Rated thermal output	Width: 1700mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	585	301	4.6135	1.2378
	336	690	355	5.4407	1.2380
	392	794	409	6.2507	1.2383
	448	898	462	7.0589	1.2386
	504	1000	515	7.8518	1.2389
	560	1100	567	8.6295	1.2392
	616	1200	618	9.4092	1.2394
	672	1301	670	10.1835	1.2397
	728	1399	720	10.9427	1.2400
	784	1498	771	11.7003	1.2403
	840	1596	822	12.4607	1.2405

Rated thermal output	Width: 1800mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	619	319	4.8848	1.2378
	336	731	376	5.7607	1.2380
	392	841	433	6.6184	1.2383
	448	950	489	7.4741	1.2386
	504	1058	545	8.3137	1.2389
	560	1165	600	9.1372	1.2392
	616	1271	655	9.9626	1.2394
	672	1377	709	10.7825	1.2397
	728	1481	763	11.5864	1.2400
	784	1586	817	12.3885	1.2403
	840	1690	870	13.1936	1.2405

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Appendix 1 - Declared performance:

Performance of the essential characteristics defined by the harmonised technical specification:

Rated thermal output	Width: 1900mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	654	337	5.1562	1.2378
	336	771	397	6.0808	1.2380
	392	841	433	6.9861	1.2383
	448	1003	517	7.8894	1.2386
	504	1117	575	8.7755	1.2389
	560	1229	633	9.6448	1.2392
	616	1341	691	10.5161	1.2394
	672	1454	749	11.3816	1.2397
	728	1564	805	12.2301	1.2400
	784	1674	862	13.0768	1.2403
	840	1784	919	13.9266	1.2405

Rated thermal output	Width: 2000mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	688	354	5.4276	1.2378
	336	812	418	6.4008	1.2380
	392	934	481	7.3538	1.2383
	448	1056	544	8.3046	1.2386
	504	1176	606	9.2374	1.2389
	560	1294	666	10.1524	1.2392
	616	1412	727	11.0696	1.2394
	672	1530	788	11.9806	1.2397
	728	1646	848	12.8738	1.2400
	784	1762	907	13.7650	1.2403
	840	1878	967	14.6596	1.2405

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Performance of the essential characteristics defined by the harmonised technical specification:

Rated thermal output	Width: 2200mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	757	390	5.9704	1.2378
	336	893	460	7.0409	1.2380
	392	1027	529	8.0892	1.2383
	448	1162	598	9.1351	1.2386
	504	1294	666	10.1611	1.2389
	560	1423	733	11.1676	1.2392
	616	1553	800	12.1766	1.2394
	672	1683	867	13.1787	1.2397
	728	1811	933	14.1612	1.2400
	784	1938	998	15.1415	1.2403
	840	2066	1064	16.1256	1.2405

Rated thermal output	Width: 2400mm				
	Height mm	Output ΔT 50°C watts	Output ΔT 30°C watts	K_m	n
	280	826	425	6.5131	1.2378
	336	974	502	7.6810	1.2380
	392	1121	577	8.8246	1.2383
	448	1267	653	9.9655	1.2386
	504	1411	727	11.0849	1.2389
	560	1553	800	12.1829	1.2392
	616	1694	872	13.2835	1.2394
	672	1836	946	14.3767	1.2397
	728	1975	1017	15.4486	1.2400
	784	2114	1089	16.5180	1.2403
	840	2254	1161	17.5915	1.2405