



COCOON LST

The classic LST radiator



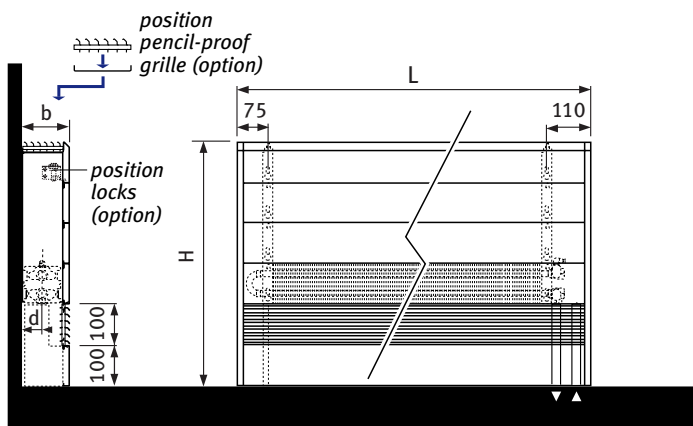
jaga

Cocoon LST

This product is specially designed to achieve cool touch casing temperatures, and to conform to the NHS Estates Health Guidance Note, without any loss of performance. NHS Estates Health Guidance Notes recommend how to meet the legal duty of care, and to avoid the risk of scalding and burning from hot water and hot surfaces.

Dimensions

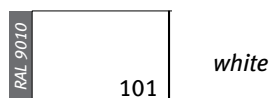
Product code: COCW



Type	b	d
10-11	120	53
15-16	170	78
20-21	220	103

Dimensions in mm

Colour



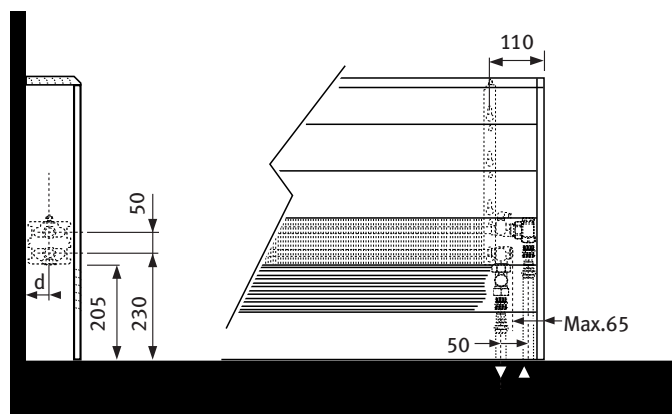
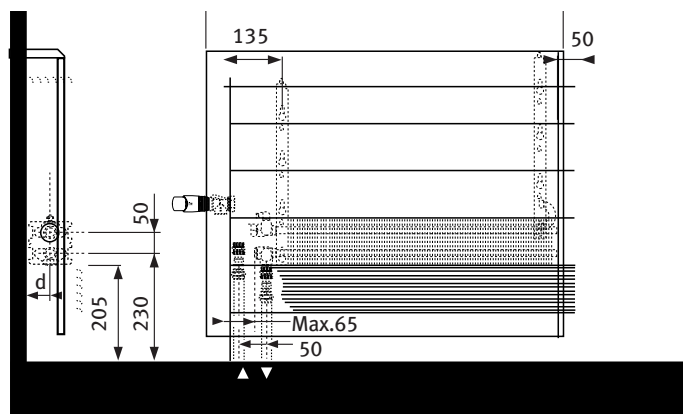
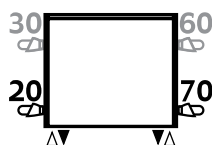
Connections

Standard connection

20 (bottom left) or 70 (bottom right)

Top valve connection

30 (top left) or 60 (top right)



To select 'no perforation' for the thermostatic valve in the side panel - Add 00 to the ordering code COCW/040/040/10/101/00

Options

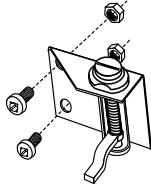
Top valve

Please contact our office for more information and for prices of the high level valve kits available

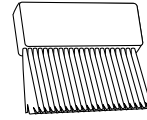
Casing locks

- Comes with two locks per casing
- Requires tools to be detached

Ordering code: 5095.016



Brush

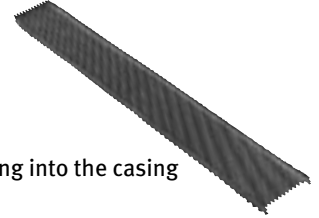


Offers easy cleaning of the underside of the Low-H2O heat exchanger without the need to detach the casing

Order code: 5090.001

Pencil-proof grille

- Prevents smaller objects or waste falling into the casing
- May effect output when used



Outputs

Outputs in watts at 75/65/20°C & 55/45/20°C,
in accordance with EN442

Supplied as Standard

- Colour 101
- Low-H2O heat exchanger
- Wall brackets
- Support(s) for Grille
(1400mm - 3000mm length)
- Complete casing

Wall-mounted Model Type 10, 15 & 20

ORDER CODE: COCW code height length type colour
040 040 10 101 (Example order code shown is for a 400mm high radiator, 400mm long, type 10)

H	T	L	400	500	600	700	800	900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
400	10	75/65/20	262	328	393	459	524	590	655	721	786	917	1048	1179	1310	1441	1572	1703	1834	1965
		55/45/20	127	159	191	223	255	287	318	350	382	446	509	573	637	700	764	827	891	955
	15	75/65/20	409	512	614	716	818	921	1023	1125	1228	1432	1637	1841	2046	2251	2455	2660	2864	3069
		55/45/20	199	249	299	349	398	449	498	548	598	698	797	897	997	1097	1196	1296	1395	1495
	20	75/65/20	557	696	835	974	1114	1253	1392	1531	1670	1949	2227	2506	2784	3062	3341	3619	3898	4176
		55/45/20	271	339	407	474	543	610	678	746	813	949	1085	1221	1356	1492	1627	1763	1899	2034
500	10	75/65/20	330	413	496	578	661	743	826	909	991	1156	1322	1487	1652	1817	1982	2148	2313	2478
		55/45/20	161	202	242	282	323	363	403	444	484	565	646	726	807	887	968	1049	1130	1210
	15	75/65/20	510	638	766	893	1021	1148	1276	1404	1531	1786	2042	2297	2552	2807	3062	3318	3573	3828
		55/45/20	250	313	375	438	500	563	625	688	750	875	1001	1126	1251	1376	1501	1626	1751	1876
	20	75/65/20	693	866	1039	1212	1386	1559	1732	1905	2078	2425	2771	3118	3464	3810	4157	4503	4850	5196
		55/45/20	340	424	509	594	679	764	849	934	1018	1189	1358	1528	1698	1867	2037	2207	2377	2547
600	10	75/65/20	385	482	578	674	770	867	963	1059	1156	1348	1541	1733	1926	2119	2311	2504	2696	2889
		55/45/20	189	236	284	331	378	425	472	520	567	661	756	850	945	1040	1134	1229	1323	1417
	15	75/65/20	589	736	883	1030	1178	1325	1472	1619	1766	2061	2355	2650	2944	3238	3533	3827	4122	4416
		55/45/20	290	363	435	508	581	653	726	798	870	1016	1161	1306	1451	1596	1741	1886	2032	2177
	20	75/65/20	798	998	1198	1397	1597	1796	1996	2196	2395	2794	3194	3593	3992	4391	4790	5190	5589	5988
		55/45/20	394	492	591	689	788	886	984	1083	1181	1378	1575	1772	1969	2165	2362	2559	2756	2953
700	10	75/65/20	430	538	646	753	861	968	1076	1184	1291	1506	1722	1937	2152	2367	2582	2798	3013	3228
		55/45/20	212	265	318	371	424	477	530	584	636	742	849	955	1061	1167	1273	1379	1485	1591
	15	75/65/20	651	814	977	1140	1302	1465	1628	1791	1954	2279	2605	2930	3256	3582	3907	4233	4558	4884
		55/45/20	323	404	485	565	646	727	807	888	969	1130	1292	1453	1615	1776	1938	2099	2260	2422
	20	75/65/20	882	1102	1322	1543	1763	1984	2204	2424	2645	3086	3526	3967	4408	4849	5290	5730	6171	6612
		55/45/20	437	546	656	765	874	984	1093	1202	1312	1530	1749	1967	2186	2405	2623	2842	3060	3279
800	10	75/65/20	468	585	702	819	936	1053	1170	1287	1404	1638	1872	2106	2340	2574	2808	3042	3276	3510
		55/45/20	232	290	348	406	463	521	579	637	695	811	927	1043	1159	1275	1390	1506	1622	1738
	15	75/65/20	701	876	1051	1226	1402	1577	1752	1927	2102	2453	2803	3154	3504	3854	4205	4555	4906	5256
		55/45/20	350	437	524	612	700	787	874	961	1049	1224	1399	1574	1748	1923	2098	2273	2448	2623
	20	75/65/20	948	1185	1422	1659	1896	2133	2370	2607	2844	3318	3792	4266	4740	5214	5688	6162	6636	7110
		55/45/20	473	591	710	828	946	1064	1183	1301	1419	1656	1892	2129	2365	2602	2838	3075	3311	3548
900	10	75/65/20	499	624	749	874	998	1123	1248	1373	1498	1747	1997	2246	2496	2746	2995	3245	3494	3744
		55/45/20	248	311	373	435	497	559	621	683	746	869	994	1118	1242	1367	1491	1615	1739	1863
	15	75/65/20	740	926	1111	1296	1481	1666	1851	2036	2221	2591	2962	3332	3702	4072	4442	4813	5183	5553
		55/45/20	371	465	557	650	743	836	929	1022	1114	1300	1486	1672	1858	2043	2229	2415	2601	2786
	20	75/65/20	1001	1251	1501	1751	2002	2252	2502	2752	3002	3503	4003	4504	5004	5504	6005	6505	7006	7506
		55/45/20	503	628	754	879	1005	1131	1256	1382	1507	1759	2010	2261	2512	2763	3015	3266	3517	3768

All dimensions are shown in millimetres



Output measured in accordance with EN442, at a water temperature of 75/65°C and a room temperature of 20°C (ΔT=50).

Outputs

Outputs in watts at 75/65/20°C & 55/45/20°C, in accordance with EN442

Supplied as Standard

- Colour 101
- Low-H2O heat exchanger
- Wall brackets
- Support(s) for Grille (1400mm - 3000mm length)
- Complete casing

Wall-mounted Model Twin Type 11, 16 & 21

ORDER CODE: COCW code height length type colour (Example order code shown is for a 500mm high radiator, 400mm long, type 11)

H	T		L 400	500	600	700	800	900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
500	11	75/65/20	448	561	673	785	897	1009	1121	1233	1345	1569	1794	2018	2242	2466	2690	2915	3139	3363
		55/45/20	215	269	323	376	430	484	537	591	645	752	860	967	1074	1182	1289	1397	1504	1612
	16	75/65/20	558	697	836	976	1115	1255	1394	1533	1673	1952	2230	2509	2788	3067	3346	3624	3903	4182
		55/45/20	265	331	397	464	530	597	663	729	795	928	1060	1193	1325	1458	1590	1723	1855	1988
	21	75/65/20	710	888	1066	1243	1421	1598	1776	1954	2131	2486	2842	3197	3552	3907	4262	4618	4973	5328
		55/45/20	335	420	504	587	671	755	839	923	1007	1174	1343	1510	1678	1846	2013	2182	2349	2517
600	11	75/65/20	506	632	758	885	1011	1138	1264	1390	1517	1770	2022	2275	2528	2781	3034	3286	3539	3792
		55/45/20	243	303	363	424	485	546	606	666	727	849	969	1091	1212	1333	1455	1576	1697	1818
	16	75/65/20	640	800	960	1120	1280	1440	1600	1760	1920	2240	2560	2880	3200	3520	3840	4160	4480	4800
		55/45/20	304	379	455	531	607	683	759	835	911	1063	1214	1366	1518	1670	1822	1973	2125	2277
	21	75/65/20	829	1037	1244	1451	1658	1866	2073	2280	2488	2902	3317	3731	4146	4561	4975	5390	5804	6219
		55/45/20	390	488	585	682	780	877	975	1072	1170	1365	1560	1755	1950	2145	2339	2535	2729	2924
700	11	75/65/20	554	693	832	970	1109	1247	1386	1525	1663	1940	2218	2495	2772	3049	3326	3604	3881	4158
		55/45/20	266	332	399	465	532	598	665	732	798	931	1064	1197	1330	1463	1596	1729	1862	1995
	16	75/65/20	715	894	1072	1251	1430	1608	1787	1966	2144	2502	2859	3217	3574	3931	4289	4646	5004	5361
		55/45/20	338	423	507	592	677	761	846	931	1015	1184	1353	1523	1692	1861	2030	2199	2369	2538
	21	75/65/20	942	1177	1412	1648	1883	2119	2354	2589	2825	3296	3766	4237	4708	5179	5650	6120	6591	7062
		55/45/20	441	551	661	772	882	992	1102	1213	1323	1544	1764	1984	2205	2425	2646	2866	3087	3307
800	11	75/65/20	598	747	896	1046	1195	1345	1494	1643	1793	2092	2390	2689	2988	3287	3586	3884	4183	4482
		55/45/20	287	359	430	502	574	646	717	789	861	1004	1147	1291	1434	1578	1721	1864	2008	2151
	16	75/65/20	785	981	1177	1373	1570	1766	1962	2158	2354	2747	3139	3532	3924	4316	4709	5101	5494	5886
		55/45/20	371	463	556	649	742	834	927	1019	1112	1298	1483	1669	1854	2039	2225	2410	2595	2781
	21	75/65/20	1051	1314	1576	1839	2102	2364	2627	2890	3152	3678	4203	4729	5254	5779	6305	6830	7356	7881
		55/45/20	490	613	735	858	980	1103	1225	1348	1470	1716	1960	2206	2451	2695	2941	3186	3431	3676
900	11	75/65/20	636	795	954	1113	1272	1431	1590	1749	1908	2226	2544	2862	3180	3498	3816	4134	4452	4770
		55/45/20	305	382	458	534	611	687	764	840	916	1069	1222	1374	1527	1680	1832	1985	2138	2291
	16	75/65/20	851	1064	1277	1490	1702	1915	2128	2341	2554	2979	3405	3830	4256	4682	5107	5533	5958	6384
		55/45/20	401	502	602	702	802	903	1003	1104	1204	1404	1605	1806	2007	2207	2408	2609	2809	3010
	21	75/65/20	1158	1448	1738	2027	2317	2606	2896	3186	3475	4054	4634	5213	5792	6371	6950	7530	8109	8688
		55/45/20	538	673	807	942	1076	1211	1345	1480	1614	1883	2153	2422	2691	2959	3228	3498	3767	4036
1000	11	75/65/20	671	839	1007	1175	1342	1510	1678	1846	2014	2349	2685	3020	3356	3692	4027	4363	4698	5034
		55/45/20	322	403	484	565	645	725	806	887	968	1129	1290	1451	1612	1774	1935	2096	2257	2419
	16	75/65/20	915	1144	1373	1602	1830	2059	2288	2517	2746	3203	3661	4118	4576	5034	5491	5949	6406	6864
		55/45/20	430	538	646	754	861	969	1076	1184	1292	1507	1722	1937	2153	2368	2583	2799	3014	3229
	21	75/65/20	1266	1583	1899	2216	2532	2849	3165	3482	3798	4431	5064	5697	6330	6963	7596	8229	8862	9495
		55/45/20	585	732	878	1025	1171	1317	1463	1610	1756	2049	2342	2634	2927	3220	3512	3805	4098	4390

All dimensions are shown in millimetres



Output measured in accordance with EN442, at a water temperature of 75/65°C and a room temperature of 20°C (ΔT=50).

Connection Sets





The order code of the connection set will be completed with the sleeve coupling code

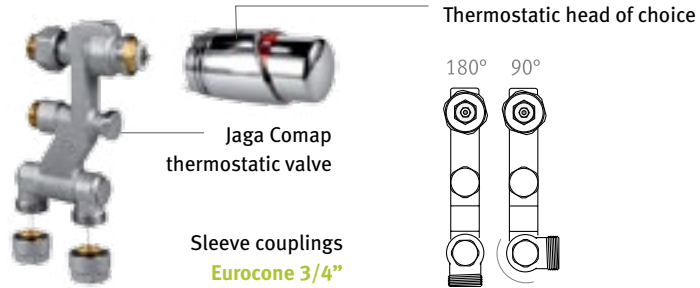
Set 26 Jaga Comap valve

Two pipe

Universal valve set for connection to the wall or to the floor

Kv max. 0.6

Code	Thermostatic head
COLO.CP2.DW.4...	chrome / white 
COLO.CP2.DC.4...	chrome 
COLO.CP2.JA.4...	white 
COLO.CP2.JC.4...	silver 



Thermostatic heads

DW



Chrome/ White

DC



Chrome

JA



White

JC



Silver

RM



Remote Controlled

DS







Chrome/white remote sensor

Set 21 Jaga valve

Two pipe

Connection to the wall

Kv max. 0.6

Code	Thermostatic head
COLO.JW2.DW.2...	chrome / white 
COLO.JW2.DC.2...	chrome 
COLO.JW2.JA.2...	white 
COLO.JW2.JC.2...	silver 







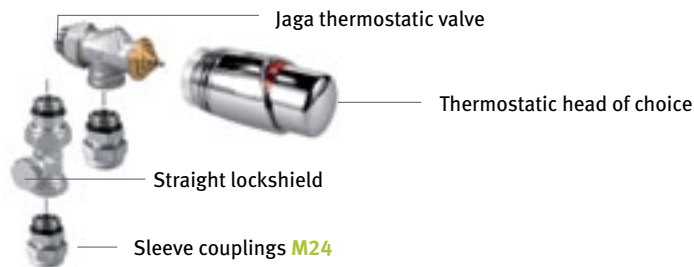
Set 22 Jaga valve

Two pipe

Connection to the floor

Kv max. 0.6

Code	Thermostatic head
COLO.JF2.DW.2...	chrome / white 
COLO.JF2.DC.2...	chrome 
COLO.JF2.JA.2...	white 
COLO.JF2.JC.2...	silver 



Sleeve Couplings

Included in the price of the connection sets

Pro Key

Tool for easy mounting of the Jaga Pro valve.

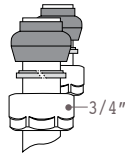
Code 5090.1120



For Jaga Comap valve - Eurocone 3/4"

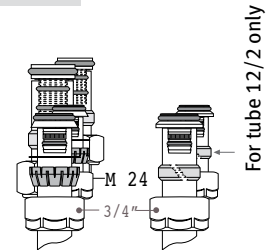
For flexible steel or copper tube

Code	Tube Ø
112	12/1
114	14/1
115	15/1
116	16/1
118	18/1



For synthetic or RPE/ALU tube

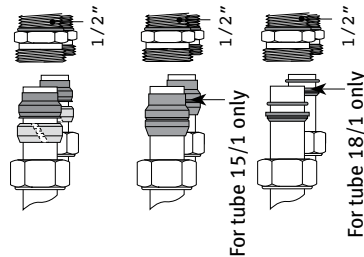
Code	Tube Ø
612	12/2
614	14/2
616	16/2
617	17/2
618	18/2
615	15/2.5
619	16/1.5
620	20/2



For Jaga valve - M24

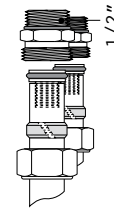
For flexible steel or copper tube

Code	Tube Ø
110	10/1
112	12/1
114	14/1
115	15/1
116	16/1
118	18/1



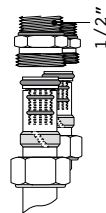
For synthetic tube

Code	Tube Ø
212	12/2
214	14/2
219	16/1.5
216	16/2
217	17/2
218	18/2



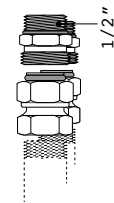
For RPE/ALU tube

Code	Tube Ø
314	14/2
316	16/2
326	16/2.2
318	18/2



Steel tube for CH

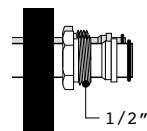
Code	Tube Ø
501	1/2"
503	3/8"



Short Coupling - for Connection to the wall

For flexible steel or copper tube Ø 15mm

Code	Tube Ø
125	15/1



Complete ordering code with sleeve couplings according to the material used and diameter of the tube. *The correct type of sleeve coupling is determined by the ordering code of the connection set*

Example: COLO. PW2.DW. 32. (insert relevant code from above)

Correction factors

Average correction factors according to EN442 - 75/65/20°C

Tv	Tl	Tr > 20	25	30	35	40	45	50	55	60	65	70	75	80	85
90	20	0.62	0.68	0.74	0.80	0.87	0.93	1.00	1.07	1.14	1.21	1.28	1.36	1.43	1.50
	24	0.52	0.58	0.64	0.70	0.76	0.83	0.89	0.96	1.03	1.10	1.17	1.24	1.31	1.38
85	20	0.56	0.62	0.68	0.74	0.80	0.87	0.93	1.00	1.07	1.14	1.21	1.28	1.36	
	24	0.47	0.52	0.58	0.64	0.70	0.76	0.83	0.89	0.96	1.03	1.10	1.17	1.24	
80	20	0.50	0.56	0.62	0.68	0.74	0.80	0.87	0.93	1.00	1.07	1.14	1.21		
	24	0.41	0.47	0.52	0.58	0.64	0.70	0.76	0.83	0.89	0.96	1.03	1.10		
75	20	0.44	0.50	0.56	0.62	0.68	0.74	0.80	0.87	0.93	1.00	1.07			
	24	0.36	0.41	0.47	0.52	0.58	0.64	0.70	0.76	0.83	0.89	0.96			
70	20	0.39	0.44	0.50	0.56	0.62	0.68	0.74	0.80	0.87	0.93				
	24	0.31	0.36	0.41	0.47	0.52	0.58	0.64	0.70	0.76	0.83				
65	20	0.34	0.39	0.44	0.50	0.56	0.62	0.68	0.74	0.80					
	24	0.26	0.31	0.36	0.41	0.47	0.52	0.58	0.64	0.70					
60	20	0.29	0.34	0.39	0.44	0.50	0.56	0.62	0.68						
	24	0.21	0.26	0.31	0.36	0.41	0.47	0.52	0.58						
55	20	0.24	0.29	0.34	0.39	0.44	0.50	0.56							
	24	0.17	0.21	0.26	0.31	0.36	0.41	0.47							
50	20	0.19	0.24	0.29	0.34	0.39	0.44								
	24	0.13	0.17	0.21	0.26	0.31	0.36								
45	20	0.15	0.19	0.24	0.29	0.34									
	24	0.09	0.13	0.17	0.21	0.26									
40	20	0.11	0.15	0.19	0.24										
	24	0.06	0.09	0.13	0.17										
35	20	0.05	0.08	0.12											
	24	0.03	0.06	0.09											

KEY
 Tv = flow temperature
 Tr = return temperature
 Tl = desired air temperature

The indicated outputs with ΔT 50°C and ΔT 30°C are the exact outputs. ΔT 50°C outputs are measured in accordance with EN442 and ΔT 30°C outputs are calculated according to EN442.

An average correction factor is given in this table for outputs at other ΔT and is applicable for all dimensions.

How to choose the right radiator?

Rapid estimation of heat losses

Calculate the volume of the room (L x W x H) and multiply this by the Watts/m³ figure given in the table below. Choose according to the level of insulation and the desired room temperature.

Insulation	20°	24°
excellent	45	55
good	65	75
average	85	95
poor	100	115

Required output in Watts/m³

Example

Use the table to determine the relevant correction factor with a water temperature of 80/60°C with a room temperature of 24°C.

The correction factor = 0.89

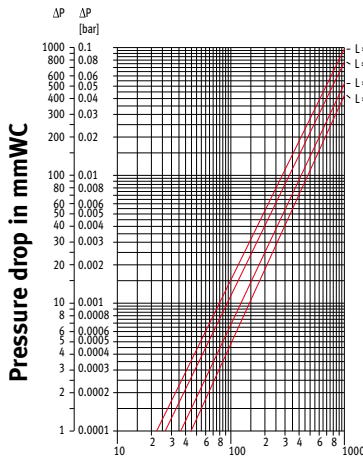
Required output 1000 watts : 1000 divided by 0.89 = 1124 watts therefore search in this leaflet's standard output table for a product with an output of at least 1124 watts. Alternatively use the "Radiator Finder" search function on www.jaga.co.uk to identify all Jaga heating products with this required output.



Output calculated in accordance with EN442, at a water temperature of 75/65°C and a room temperature of 20°C ($\Delta T=50$).

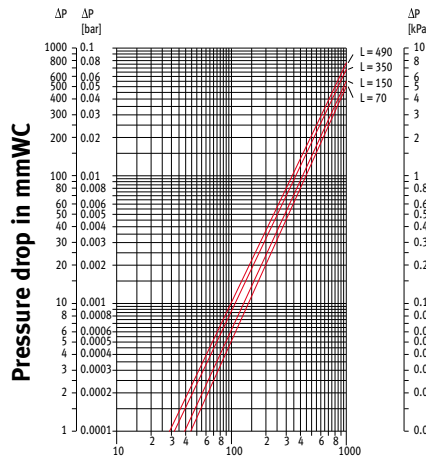
Pressure drops

Type 10



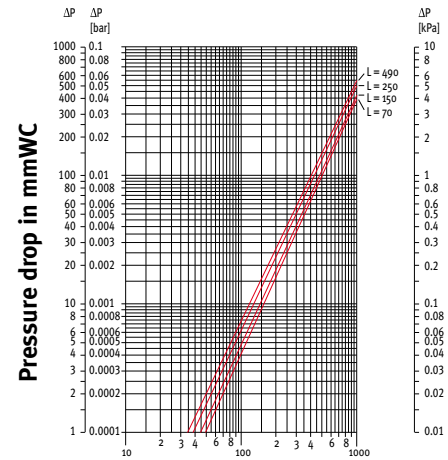
Water flow in kg/h

Type 15



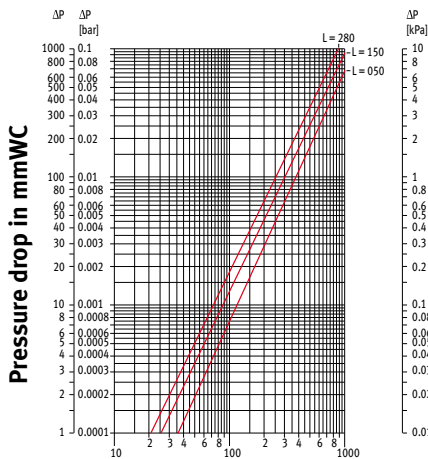
Water flow in kg/h

Type 20



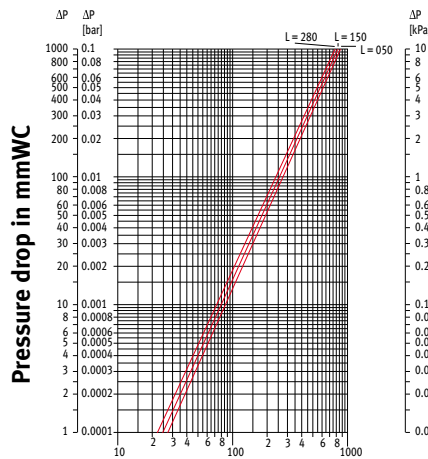
Water flow in kg/h

Type 11



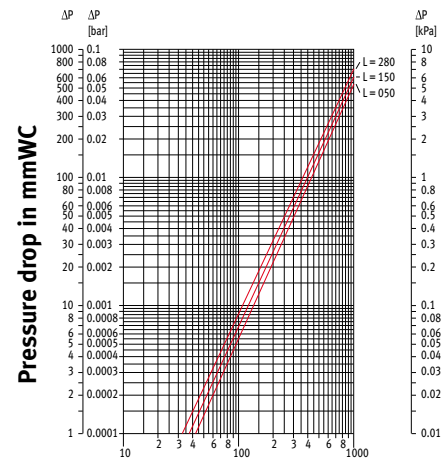
Water flow in kg/h

Type 16



Water flow in kg/h

Type 21



Water flow in kg/h

Weight & water content

Weight in kg

Height	Type	10	11	15	16	20	21
400		5.4	---	6.7	---	8.3	---
500		6.6	8.2	8.1	10.8	9.8	13.4
600		7.8	9.4	9.5	12.2	11.3	14.9
700		9.0	10.7	10.8	13.6	12.9	16.4
800		10.3	11.9	12.2	14.9	14.4	17.9
900		11.5	13.1	13.6	16.3	15.9	19.4
1000		---	18.4	---	22.2	---	24.8

Water content in litres

Type	L/metre
10	0.65
11	1.33
15	0.98
16	1.98
20	1.32
21	2.66

All dimensions are shown in millimetres

Product specification

Cocoon LST

Material

- Low-H2O heat exchanger is composed of round, seamless circulation tubes made of pure red copper, with pure aluminium fins and two brass collectors for left or right 1/2" same end connection. Air vent 1/8" and drain plug 1/2" are included
- Pressure test: 20 bar
- Working pressure: 10 bar
- Brackets are included and made of galvanised steel plate of 1mm; supplied to be installed with a maximum intermediate distance of 1.05m. With grille supports for exact height positioning (only for length 1400 to 3000mm)
- The front panels: galvanised steel plates of 0.86mm thick, double profiled in length. Supplied with small positioning holes and slots to assemble front panels to side panel with easy click system
- Side panels: profiled galvanised steel plate of 1mm thick with hole for integrated Jaga valve
- Top and front grille: galvanised steel plate of 0.80mm thick, profiled backwards angled steel plate with angled topside. At corners the grille is supplied with high standard synthetic angled corner pieces in same finish as casing

Colour

- Heat exchanger electrostatically lacquered with anthracite grey epoxy-polyester RAL 7024
- The casing is in a scratch resistant structured polyester finish in white (RAL 9010), UV resistant due to ASTM G53.

Product information

- Integral Low-H2O technology ensures that the casing remains safe to touch without risk of burns, even at high flow temperatures, in accordance with NHS Estates specification guidance
- Manufacturer: Jaga
- Type: Cocoon LST
- Outputs measured in accordance with EN442, at a water temperature of 75/65°C and a room temperature of 20°C ($\Delta T=50^{\circ}\text{C}$)

Options

- Locks, two per casing. The casing cannot be detached without tools
- Pencil-proof grille, avoiding the possibility of smaller objects or waste falling within the casing. Lacquered in the same colour as the casing
- Top valve
- Extended air vent for heat exchanger type 10 / 15 / 20
- Brush for easy cleaning of the underside of the heat exchanger

Jaga Guarantee Information

- 1** The guarantee is valid only if the equipment is properly and correctly used, by its first owner and if installed in accordance with the norms and instructions as detailed in the instruction leaflet and current industry standard practices.
- 2** The guarantee only applies to the equipment and the spare parts supplied by Jaga. Jaga has the choice between repair and replacement of the equipment or the spare parts. If any modifications have been made by Jaga to the standard product design, Jaga reserves the right to replace the guaranteed equipment with equivalent products or spare parts.
- 3** The period of guarantee is mentioned in this certificate. The guarantee decreases every year on a straight line basis by an equal percentage in order to reach a zero guarantee at the end of the guarantee period (e.g. for a period of 10 years the annual decrease of the guarantees 10% of the invoiced value). Repaired or replaced product is guaranteed through to the end of the original guarantee period.
- 4** The guarantee is valid only on products displaying the appropriate identification information concerning product type and series. No guarantee is granted on equipment or spare parts lacking this information, on equipment where this information has been removed or altered, or on equipment that has been repaired or modified by persons not authorised by Jaga to carry out this work.
- 5** The customer is responsible for any damage caused as a result of errors in installation or use of incorrect fittings, or for any damage caused by electrical connections, faulty or damaged electrical installations or appliances, erroneous voltage or hydraulic pressure and all other errors not directly related to the product delivered by Jaga. The guarantee is also revoked when unsuitable parts or components are used. The guarantee for our heat exchangers is not valid if they are regularly drained, or if they are heated by means of industrial water, steam or water saturated by excessive quantities of oxygen. The quality of the system after has to be in accordance with the VDI 2035-2 directives. The guarantee is also not applicable if the heat exchangers are placed in unsuitable atmospheric surroundings, such as but not exclusively ammonia, caustic substances etc.
- 6** This guarantee excludes damage due to incorrect handling and/or use of the equipment, or due to formation of lime deposits, incorrect use of the safety valve, or to all equipment that is incorporated into the building in a way that means it cannot be accessed normally.
- 7** Any work undertaken or product supplied as a result of a guarantee claim that proves not to be valid will be charged for. Product supplied will be invoiced at the customer's standard purchasing terms, and labour will be charged at £50 per hour with a minimum labour charge of £200.
- 8** The guarantee period starts from the date of the invoice for supply of the products covered by the guarantee. If the invoice is not available, the date of production will be used based on the product ID number/series.
- 9** Only the courts of judicial district Hasselt (Belgium) are authorised to deal with disputes arising from this guarantee. It will apply Belgian law even when sales involved are subjects of EU member states as well as non-EU member countries.

Heat exchanger

GUARANTEE
30
YEAR

Casings and components

GUARANTEE
10
YEAR

Valves for Low-H₂O heat exchangers

GUARANTEE
3
YEAR