



DECO PANEL VERTICAL



jaga

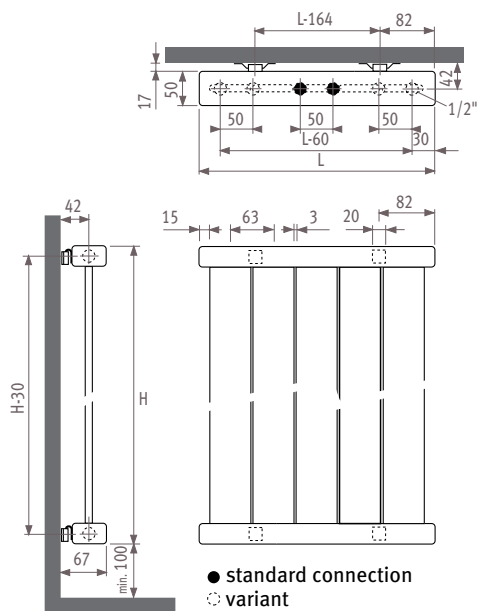
A modern classic

Deco Panel Vertical

Dimensions

Panel vertical single

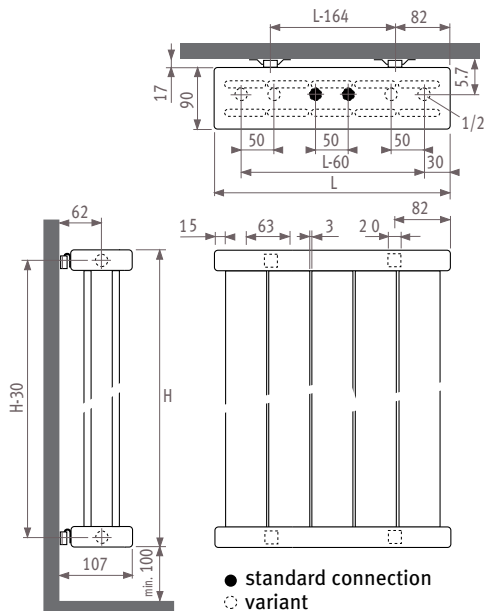
Product code wall-mounted: PVSW
Product code freestanding: PVSF



● standard connection
○ variant

Panel vertical double

Product code wall-mounted: PVDW
Product code freestanding: PVDF



● standard connection
○ variant

L >	280	340	400	470	530	590	660	720	780	840	910	970	1030	1100	1160	1220	1290	1350
H >	1200	1400	1600	1800	1920	2000	2200	2400	2600	2800	3000							

Connections

Standard connection

Order code: MM

Central connection at bottom, flow is left or right

Bottom end connection

Order codes: 18, 81

LL or RR also possible

Top end connection

Order codes: 45 or 54

Provide an air vent on the central heating tube

Side end connection

Order codes: 32, 67, 41 or 58

Codes 32 or 67 not suitable for perpendicular to the wall model (PVSS /PVDS)

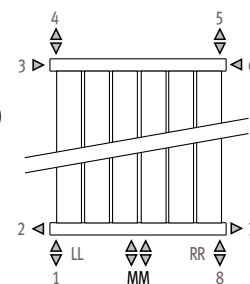
Cross-over connection

Order codes: 51 or 48

Single point connection

Order codes: 22 for left and 77 for right

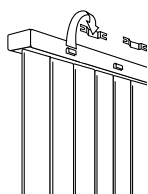
Always use a horizontal diffusion tube (Ø 10-20mm) of minimum 100mm length and a reduction washer



Key:
1 = flow
2 = return

Fixings

Standard wall fixing



All dimensions in mm

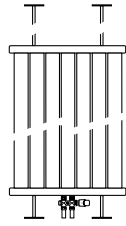
Options

For positioning of freestanding model

Single or Double vertical radiators

Minimum length 530mm.

Diagram showing connection set 42.



Order codes:

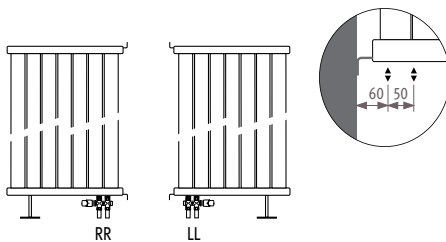
PVSF Single radiator = 2 feet + 2 ceiling fixings

PVDF Double radiator = 2 feet + 2 ceiling fixings

To create the order code begin by using the radiator code PVSF or PVDF, then the height in cm, the width in cm, then the colour code followed by the connection.

Example order code: **PVSF. 120.053. 001/MM**

For positioning perpendicular to the wall



Single or double vertical radiator

Maximum height 2200mm

Minimum length 530mm - maximum length 1030mm

Diagram showing connection set 42

Order codes:

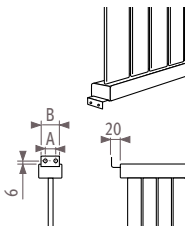
PVSS = Single radiator + 1 foot + 2 side end fixings

PVDS = Double radiator + 1 foot + 2 side end fixings

To create the order code begin by using the radiator code PVSS or PVDS, then the height in cm, the width in cm, then the colour code followed by the connection.

Example order code: **PVSS. 120 053 201/LL or RR**

Side end fixing



	PVSS	PVDS
A	20	37
B	40	68

When ordering side end fixings, a side end connection is not possible.

Non-standard fixings are welded to the radiator and cannot be changed or reordered afterwards. Please check carefully if the desired options are ordered correctly as incorrect orders will not be taken back.

Extended wall fixing

Only suitable for PVSW

The space between the rear of the collector and the wall is 37mm instead of 17mm.

Only possible in combination with connection to the wall and with Deco-Pro valve. The extended wall fixings are included in the price of the radiator if the order code is specified along with the radiator code.

Order code **9092.50**

Outputs

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

Supplied as Standard

- Colours: 001 Sandblast grey metallic 201 white or 233 traffic white
- Central connection MM underneath
- Wall fixing
- Chrome-plated air vent and drain plug

Deco Panel Vertical Single

code height length colour connection (Example order code shown is for a 1200mm high radiator, 280mm long)
 ORDER CODE: PVSW 120 028 201 /MM

Height	Length >	280	340	400	470	530	590	660	720	780	840	910	970	1030	1100	1160	1220	1290	1350
1200	75/65/20	340	425	510	595	680	765	850	935	1020	1105	1190	1275	1360	1445	1530	1615	1700	1785
	55/45/20	175	218	262	306	349	393	437	480	524	568	611	655	699	742	786	830	873	917
1400	75/65/20	390	488	586	683	781	878	976	1074	1171	1269	1366	1464	1562	1659	1757	1854	1952	2050
	55/45/20	200	250	301	350	401	451	501	551	601	651	701	751	802	851	902	951	1002	1052
1600	75/65/20	440	551	661	771	881	991	1101	1211	1321	1431	1541	1652	1762	1872	1982	2092	2202	2312
	55/45/20	226	282	339	395	452	508	564	621	677	734	790	847	903	960	1016	1072	1129	1185
1800	75/65/20	490	613	736	858	981	1103	1226	1349	1471	1594	1716	1839	1962	2084	2207	2329	2452	2575
	55/45/20	251	314	377	439	502	565	628	691	753	816	878	941	1004	1067	1130	1192	1255	1318
1920	75/65/20	520	651	781	911	1041	1171	1301	1431	1561	1691	1821	1952	2082	2212	2342	2472	2602	2732
	55/45/20	266	333	400	466	533	599	666	732	799	865	932	999	1065	1132	1198	1265	1331	1398
2000	75/65/20	540	676	811	946	1081	1216	1351	1486	1621	1756	1891	2027	2162	2297	2432	2567	2702	2837
	55/45/20	276	346	415	484	553	622	691	760	829	898	967	1036	1106	1175	1244	1313	1382	1451
2200	75/65/20	590	738	886	1033	1181	1328	1476	1624	1771	1919	2066	2214	2362	2509	2657	2804	2952	3100
	55/45/20	301	377	452	527	603	678	754	829	904	980	1055	1130	1206	1281	1357	1432	1507	1583
2400	75/65/20	641	801	961	1121	1282	1442	1602	1762	1922	2083	2243	2403	2563	2723	2884	3044	3204	3364
	55/45/20	327	409	490	572	654	735	817	899	980	1062	1144	1226	1307	1389	1471	1553	1634	1716
2600	75/65/20	692	865	1037	1210	1383	1556	1729	1902	2075	2248	2421	2594	2766	2939	3112	3285	3458	3631
	55/45/20	353	441	528	617	705	793	881	969	1057	1145	1234	1322	1409	1497	1586	1674	1762	1850
2800	75/65/20	743	929	1114	1300	1486	1671	1857	2043	2228	2414	2600	2786	2971	3157	3343	3528	3714	3900
	55/45/20	378	473	567	661	756	850	945	1039	1133	1228	1323	1417	1511	1606	1701	1795	1889	1984
3000	75/65/20	794	993	1191	1390	1588	1787	1985	2184	2382	2581	2779	2978	3176	3375	3573	3772	3970	4169
	55/45/20	404	505	605	706	807	908	1009	1110	1211	1312	1412	1513	1614	1715	1816	1917	2018	2119

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

Deco Panel Vertical Double

code height length colour connection (Example order code shown is for a 3000mm high radiator, 1350mm long.)
 ORDER CODE: PVDW 300 135 201 /MM

Supplied as Standard

- Colours: 001 Sandblast grey metallic 201 white or 233 traffic white
- Central connection MM underneath
- Wall fixing
- Chrome-plated air vent and drain plug

Height	Length >	280	340	400	470	530	590	660	720	780	840	910	970	1030	1100	1160	1220	1290	1350
1200	75/65/20	532	666	799	932	1065	1198	1331	1464	1597	1730	1863	1997	2130	2263	2396	2529	2662	2795
	55/45/20	271	339	406	474	542	609	677	744	812	880	947	1015	1083	1151	1218	1286	1354	1421
1400	75/65/20	604	755	905	1056	1207	1358	1509	1660	1811	1962	2113	2264	2414	2565	2716	2867	3018	3169
	55/45/20	307	384	460	537	614	691	767	844	921	998	1074	1151	1227	1304	1381	1458	1535	1611
1600	75/65/20	672	841	1009	1177	1345	1513	1681	1849	2017	2185	2353	2522	2690	2858	3026	3194	3362	3530
	55/45/20	342	428	513	598	684	769	855	940	1026	1111	1196	1282	1368	1453	1539	1624	1710	1795
1800	75/65/20	740	925	1109	1294	1479	1664	1849	2034	2219	2404	2589	2774	2958	3143	3328	3513	3698	3883
	55/45/20	376	471	564	658	752	847	941	1035	1129	1223	1317	1411	1505	1599	1693	1787	1881	1975
1920	75/65/20	779	974	1169	1364	1558	1753	1948	2143	2338	2532	2727	2922	3117	3312	3506	3701	3896	4091
	55/45/20	396	496	595	694	793	892	991	1090	1189	1288	1387	1487	1586	1685	1784	1883	1982	2081
2000	75/65/20	806	1007	1208	1410	1611	1813	2014	2215	2417	2618	2820	3021	3222	3424	3625	3827	4028	4229
	55/45/20	410	512	615	717	820	922	1025	1127	1230	1332	1435	1537	1639	1742	1844	1947	2049	2151
2200	75/65/20	870	1087	1304	1522	1739	1957	2174	2391	2609	2826	3044	3261	3478	3696	3913	4131	4348	4565
	55/45/20	443	553	663	774	885	996	1106	1216	1327	1438	1549	1659	1769	1880	1991	2102	2212	2322
2400	75/65/20	933	1166	1399	1632	1866	2099	2332	2565	2798	3032	3265	3498	3731	3964	4198	4431	4664	4897
	55/45/20	475	593	712	831	950	1068	1187	1306	1424	1543	1662	1780	1899	2018	2137	2255	2374	2493
2600	75/65/20	995	1244	1492	1741	1990	2238	2487	2736	2984	3233	3482	3731	3979	4228	4477	4725	4974	5223
	55/45/20	506	633	759	886	1013	1139	1266	1393	1519	1646	1772	1899	2025	2152	2279	2405	2532	2658
2800	75/65/20	1056	1320	1583	1847	2111	2375	2639	2903	3167	3431	3695	3959	4222	4486	4750	5014	5278	5542
	55/45/20	538	672	806	940	1074	1209	1343	1478	1612	1746	1881	2015	2149	2283	2418	2552	2686	2821
3000	75/65/20	1116	1395	1673	1952	2231	2510	2789	3068	3347	3626	3905	4184	4462	4741	5020	5299	5578	5857
	55/45/20	568	710	852	994	1136	1278	1420	1562	1704	1847	1989	2131	2272	2414	2556	2699	2841	2983

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 31

For connection to the wall

Two pipe

Code	Thermostatic head
CODE.MW2.MW.1...	white
CODE.MW2.MC.1...	chrome
CODE.MW2.MB.1...	black

Set 32

For connection to the floor



Two pipe

Code	Thermostatic head
CODE.MF2.MW.1...	white
CODE.MF2.MC.1...	chrome
CODE.MF2.MB.1...	black

Set 33 | Set 36

For connection to the wall



Two pipe

33 – Standard Kv	36 – Reduced Kv
CODE.JW2.DW.1...	CODE.RW2.DW.1... 
CODE.JW2.DC.1...	CODE.RW2.DC.1... 

Set 34 | Set 37

For connection to the floor



Two pipe

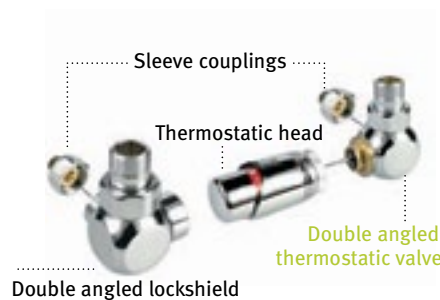
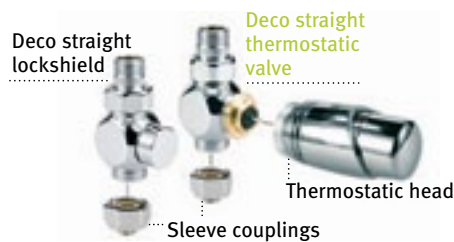
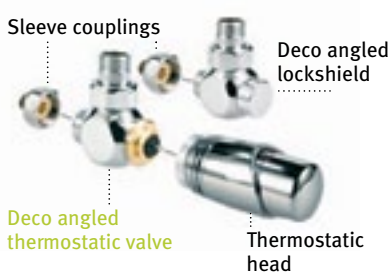
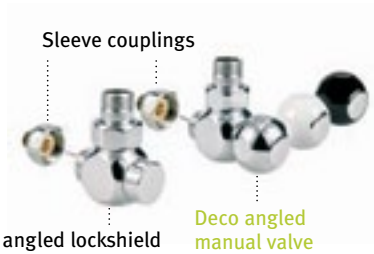
34 – Standard Kv	37 – Reduced Kv
CODE.JF2.DW.1...	CODE.RF2.DW.1... 
CODE.JF2.DC.1...	CODE.RF2.DC.1... 

Set 35 | Set 38

For connection to the wall

Two pipe

35 – Standard Kv	38 – Reduced Kv
CODE.JH2.DW.1...	CODE.RH2.DW.1... 
CODE.JH2.DC.1...	CODE.RH2.DC.1... 



Thermostatic heads

DW



Chrome/ White

DC




Chrome


Set 41 | Set 45

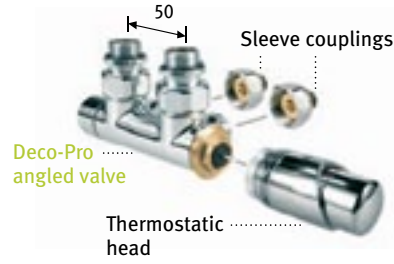
For connection to the wall

Two pipe

41 – Standard Kv 45 – Reduced Kv

CODE.PW3.DW.1... CODE.RW3.DW.1... 

CODE.PW3.DC.1... CODE.RW3.DC.1... 





Set 42 | Set 46

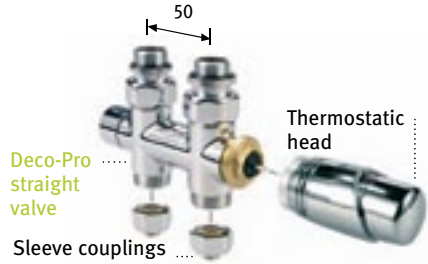
For connection to the floor

Two pipe

42 – Standard Kv 46 – Reduced Kv

CODE.PF3.DW.1... CODE.RF3.DW.1... 

CODE.PF3.DC.1... CODE.RF3.DC.1... 



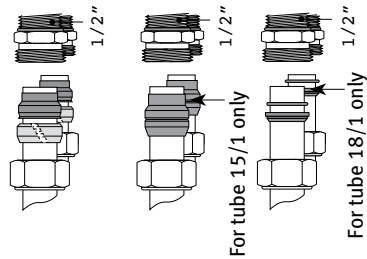
Sleeve Couplings

Included in the price of the connection sets

For Jaga valve - M24

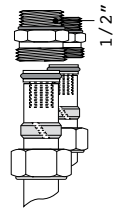
For flexible steel or copper tube

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



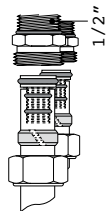
For synthetic tube

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



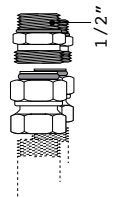
For RPE/ALU tube

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"



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:** CODE. JF2.DW. 1. (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	0.63	0.69	0.75	0.81	0.87	0.94	1.00	1.07	1.13	1.20	1.27	1.34	1.41	1.48
	24	0.54	0.59	0.65	0.71	0.77	0.83	0.90	0.96	1.03	1.09	1.16	1.23	1.29	1.36
85	20	0.57	0.63	0.69	0.75	0.81	0.87	0.94	1.00	1.07	1.13	1.20	1.27	1.314	
	24	0.48	0.54	0.59	0.65	0.71	0.77	0.83	0.90	0.96	1.03	1.09	1.16	1.23	
80	20	0.51	0.57	0.63	0.69	0.75	0.81	0.87	0.94	1.00	1.07	1.13	1.20		
	24	0.43	0.48	0.54	0.59	0.65	0.71	0.77	0.83	0.90	0.96	1.03	1.09		
75	20	0.46	0.51	0.57	0.63	0.69	0.75	0.81	0.87	0.94	1.00	1.07			
	24	0.37	0.43	0.48	0.54	0.59	0.65	0.71	0.77	0.83	0.90	0.96			
70	20	0.41	0.46	0.51	0.57	0.63	0.69	0.75	0.81	0.87	0.94				
	24	0.32	0.37	0.43	0.48	0.54	0.59	0.65	0.71	0.77	0.83				
65	20	0.35	0.41	0.46	0.51	0.57	0.63	0.69	0.75	0.81					
	24	0.27	0.32	0.37	0.43	0.48	0.54	0.59	0.65	0.71					
60	20	0.30	0.35	0.41	0.46	0.51	0.57	0.63	0.69						
	24	0.23	0.27	0.32	0.37	0.43	0.48	0.54	0.59						
55	20	0.26	0.30	0.35	0.41	0.46	0.51	0.57							
	24	0.18	0.23	0.27	0.32	0.37	0.43	0.48							
50	20	0.21	0.26	0.30	0.35	0.41	0.46								
	24	0.14	0.18	0.23	0.27	0.32	0.37								
45	20	0.16	0.21	0.26	0.30	0.35									
	24	0.13	0.17	0.22	0.26	0.31									
40	20	0.10	0.14	0.18	0.23	0.27									
	24	0.12	0.16	0.21	0.26										
35	20	0.06	0.10	0.14	0.18										
	24	0.08	0.12	0.16											
30	20	0.03	0.06	0.10											
	24	0.05	0.08												

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.

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

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.

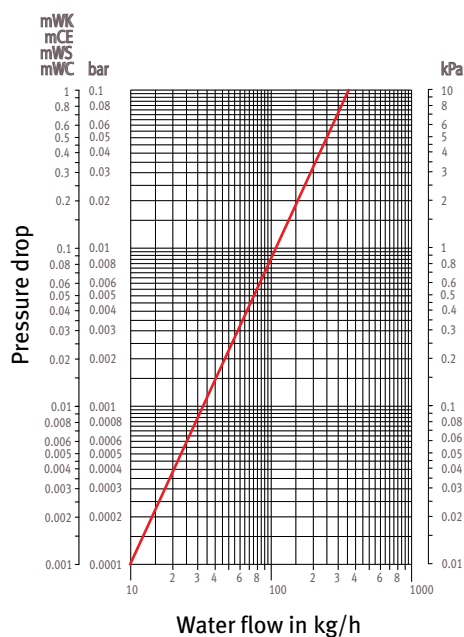
The correction factor = 0.90

Required output 1000 watts : 1000 divided by 0.90 = 1111 watts therefore search in this leaflet's standard output table for a product with an output of at least 1111 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 drop



Weight & water content

Weight in kg/cm

H	Single	Double
1200	0.37	0.71
1400	0.42	0.81
1600	0.47	0.91
1800	0.53	1.02
1920	0.56	1.08
2000	0.58	1.12
2200	0.63	1.23
2400	0.68	1.33
2600	0.73	1.43
2800	0.79	1.54
3000	0.84	1.64

Water content in litres/cm

H	Single	Double
1200	0.09	0.18
1400	0.11	0.21
1600	0.12	0.24
1800	0.13	0.26
1920	0.14	0.28
2000	0.14	0.29
2200	0.16	0.31
2400	0.17	0.34
2600	0.18	0.36
2800	0.19	0.39
3000	0.21	0.41

All dimensions in mm

Product description

Deco Panel Vertical

Material

Composed of single or double steel collectors which support the steel radiation tubes.

The radiation tubes are welded on the inside of the collector under the protection of gas, and with steel as a sole addition. Therefore no welding seams are visible on the outside of the radiator.

Pressure test: 6 bar

Working pressure: 4.6 bar

Composition

The oval radiation tubes (60 x 10.4 x 1.5mm) are vertically and lengthways parallel placed on the horizontal collector with an interdistance of 3mm.

Single collector : 50 x 30 x 3mm

Double collector: 90 x 30 x 3mm

All fixing points are welding to the radiator. The supports to fit the wall are supplied with the standard delivery.

Finish

The radiators are sandblasted, degreased, phosphated, electrostatically lacquered with epoxy-polyester powder and finally stove enameled at 200°C. This high quality finish offers an optimal scratch resistance and is very easy to maintain.

Thickness of the lacquer: min 80 µ

Connections

The sockets 1/2" are integrated in the collectors and hence invisible. The sockets 1/2" at the side end of the collectors stick out 3 mm above the collector end. The connections may be ordered at customer choice at top, bottom or at the side end of the radiator.

Provided with a chrome plated air vent 1/2" and drain plug 1/2"

How to install

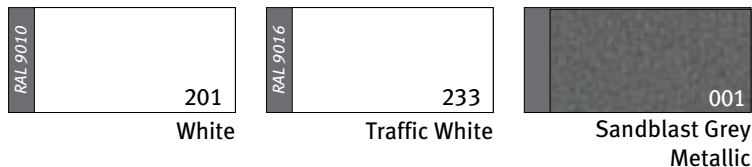
The building services engineer chooses the radiators considering the following conditions:

- A heat output calculation according to the standard.
- The heat output and the dimensions of the Deco Panel vertical radiators according to EN 442.
- The radiators may be wall fitted with the wall fixings supplied, positioned perpendicular to the wall with 2 side end fixings left and 1 foot right or positioned perpendicular to the wall with 2 side end fixings right and 1 foot left.
- The specially designed thermostatic connection sets/ thermostatic Jaga Deco/ Deco-pro valves/ manual Jaga Deco valves can be connected to plastic central heating service pipes/ RPE/ALU. Tube / copper tube/ steel pipe.
- Jaga thermostatic heads/ Jaga Deco thermostatic heads chrome/ White/ Jaga Comap thermostatic heads silver/not to be/ to be fitted.

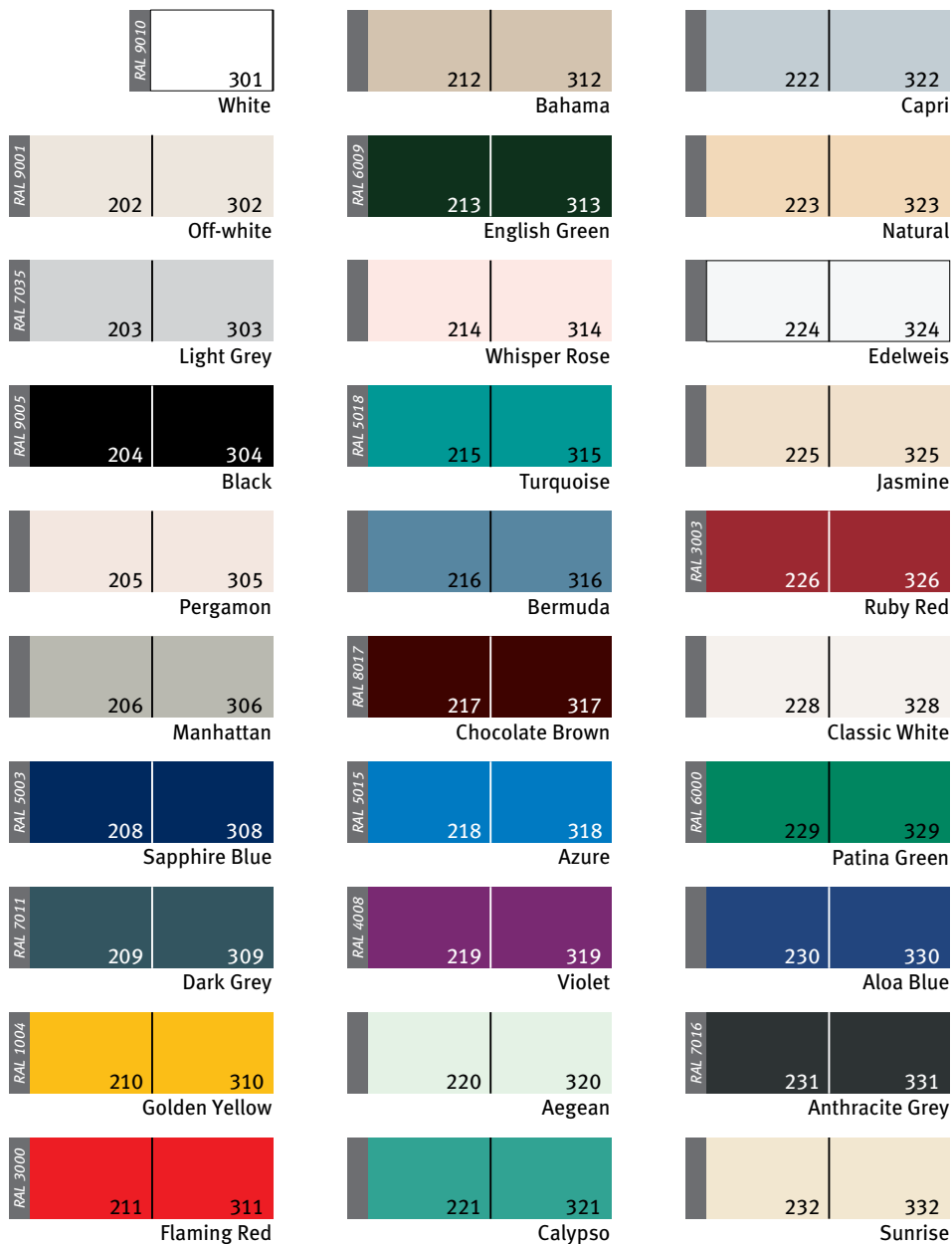
Jaga colours

For Deco Panel Vertical

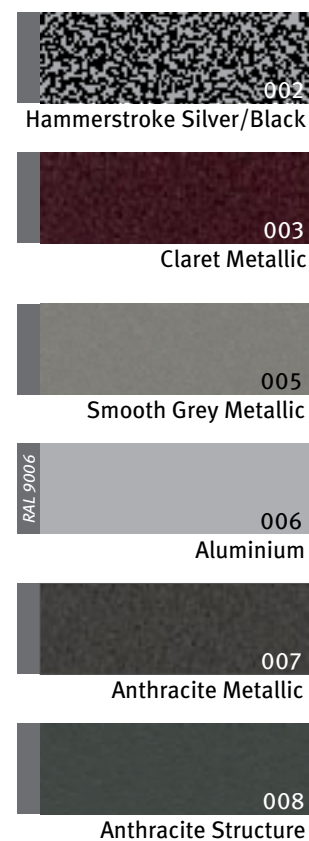
Standard colours



Premium colours



Special colours



As it's impossible to reproduce colours with 100% accuracy, this colour chart is intended as a guide only. Colour swatches are available on request.

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.

Casings and components

GUARANTEE
10
YEAR

Valves

GUARANTEE
3
YEAR