



# DECO LOUVRE HORIZONTAL



**jaga**

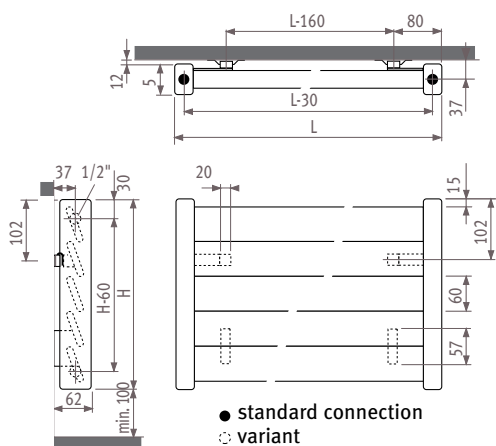
A modern classic

# Deco Louvre Horizontal

## Dimensions

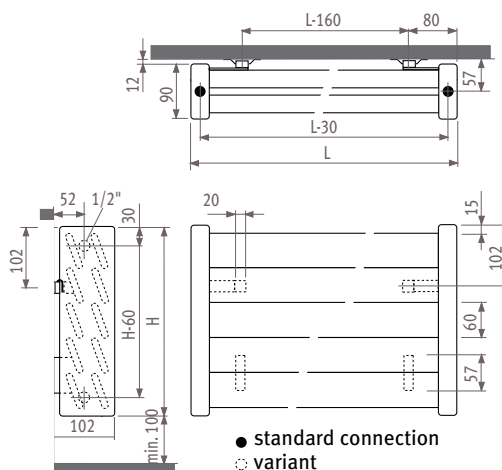
### Louvre Horizontal Single

Product code wall-mounted: LHSW  
Product code freestanding: LHSF



### Louvre Horizontal Double

Product code wall-mounted: LHDW  
Product code freestanding: LHDF



Available lengths	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
Available heights	310	370	420	480	540	600	650	710	770	820	880	940

## Connections

### Standard connection

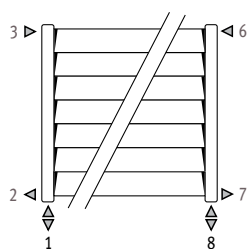
Order code: 18.

Connection 18 or 81.

### Side end connection

One-sided: code 32 or 67.

Cross-over: code 37 or 62.



#### Key:

1 = flow

2 = return

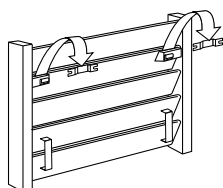
### Single point connection

Order codes: 11(left) or 88 (right)

Always use a vertical diffusion tube (Ø 10 to 12mm) of minimum length 100mm and a reduction washer.

## Fixings

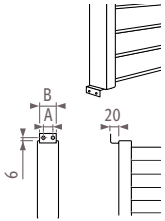
### Standard wall fixing



All dimensions in mm

## Options

### Side end fixing

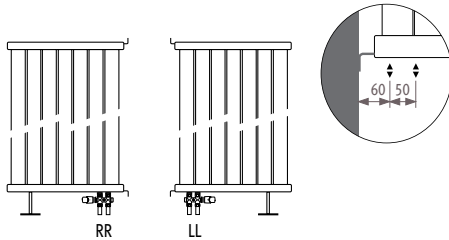


	LHSS	LHDS
A	20	37
B	40	68

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

Fixings are welded to the radiator and cannot be changed or reordered afterwards so please check carefully when ordering as incorrect orders cannot be returned.

### For positioning perpendicular to the wall



Order code: LVSS single radiator = 2 feet + 2 ceiling fixings  
 Order code: LVDS double radiator = 1 feet + 2 ceiling fixings

To create the order code begin by using the radiator code LVSS or LVDS, then the height in cm, the width in cm, then the colour code followed by the connection then the corner type.

Example order code: LVSS.120.031.001 /MM/L or R/

#### Single or double vertical radiators

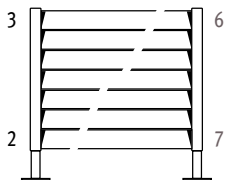
Minimum length 540mm- maximum length 1050mm.

Maximum height 2200mm.

Diagram showing connection set 42

### For positioning of freestanding model

#### LHSF - Single

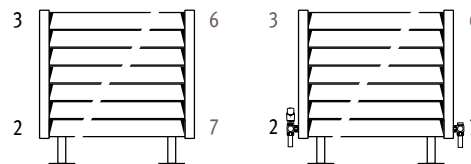


#### Single or double radiator

Maximum height 480mm.

Connection set options 31 or 33.

#### LHDF - Double



#### Order codes:

LHSF = single radiator up to L2200 + 2 feet from L 2400 3 feet

LHDF = double radiator up to L2200 + 2 feet from L 2400 3 feet

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

Order code example: LHSF. 031 100. 001/32 or 67

## Outputs

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

### Deco Louvre Horizontal Single

code height length colour connection (Example order code shown is for a  
ORDER CODE: LHSW. 031 100 201 /18 310mm high radiator, 1000mm long.)

Height	Length ▶	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
310	75/65/20	358	430	502	573	645	717	788	860	932	1003	1075
	55/45/20	181	218	254	290	327	363	399	436	472	508	544
370	75/65/20	440	528	616	704	792	880	967	1055	1143	1231	1319
	55/45/20	223	268	313	357	402	447	491	535	580	625	669
420	75/65/20	522	626	730	835	939	1044	1148	1252	1357	1461	1565
	55/45/20	265	318	371	425	477	531	584	637	690	743	796
480	75/65/20	604	725	846	966	1087	1208	1329	1450	1570	1691	1812
	55/45/20	308	369	431	492	554	615	677	738	800	861	923
540	75/65/20	686	823	960	1098	1235	1372	1509	1646	1784	1921	2058
	55/45/20	350	420	490	560	630	700	770	840	910	980	1050
600	75/65/20	768	921	1075	1228	1382	1535	1689	1843	1996	2150	2303
	55/45/20	393	471	549	628	706	785	863	942	1020	1099	1177
650	75/65/20	849	1019	1188	1358	1528	1698	1868	2037	2207	2377	2547
	55/45/20	435	522	608	695	783	870	957	1043	1130	1217	1304
710	75/65/20	929	1115	1301	1487	1673	1859	2044	2230	2416	2602	2788
	55/45/20	476	572	667	763	858	954	1048	1144	1239	1335	1430
770	75/65/20	1009	1211	1412	1614	1816	2018	2220	2421	2623	2825	3027
	55/45/20	519	622	726	830	933	1037	1141	1244	1348	1452	1556
820	75/65/20	1088	1305	1523	1740	1958	2175	2393	2610	2828	3045	3263
	55/45/20	560	672	784	896	1008	1120	1232	1343	1456	1567	1680
880	75/65/20	1165	1398	1631	1864	2097	2330	2563	2796	3029	3262	3495
	55/45/20	601	721	841	961	1082	1202	1322	1442	1562	1683	1803
940	75/65/20	1242	1490	1738	1987	2235	2483	2732	2980	3228	3476	3725
	55/45/20	642	770	898	1026	1155	1283	1411	1539	1668	1796	1924

#### Supplied as Standard

- Colours: 001 Sandblast grey metallic 201 white or 233 traffic white
- Connection 18 underneath
- Chrome-plated air vent and drain plug
- Wall fixing

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 Louvre Horizontal Double

code height length colour connection (Example order code shown is for a  
ORDER CODE: LHDW. 031 100 233 /18 310mm high radiator, 1000mm long.)

Height	Length >	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
310	75/65/20	652	783	913	1044	1174	1304	1435	1565	1696	1826	1957
	55/45/20	337	405	472	540	607	675	742	810	877	945	1013
370	75/65/20	777	932	1088	1243	1398	1554	1709	1865	2020	2175	2331
	55/45/20	4020	4820	5630	6430	7230	8040	8840	9650	10450	11250	12060
420	75/65/20	900	1081	1261	1441	1621	1801	1981	2161	2341	2521	2701
	55/45/20	466	560	653	746	839	932	1025	1119	1212	1305	1398
480	75/65/20	1023	1227	1432	1637	1841	2046	2250	2455	2659	2864	3069
	55/45/20	530	635	742	848	953	1060	1165	1271	1377	1483	1589
540	75/65/20	1144	1373	1602	1831	2060	2289	2517	2746	2975	3204	3433
	55/45/20	592	711	830	948	1067	1186	1304	1422	1541	1659	1778
600	75/65/20	1265	1518	1771	2024	2277	2530	2783	3036	3289	3541	3794
	55/45/20	655	787	918	1049	1180	1311	1442	1573	1704	1835	1966
650	75/65/20	1384	1661	1938	2215	2492	2769	3046	3323	3599	3876	4153
	55/45/20	717	861	1004	1148	1291	1435	1578	1722	1865	2008	2152
710	75/65/20	1503	1804	2104	2405	2706	3006	3307	3608	3908	4209	4510
	55/45/20	779	935	1091	1247	1403	1558	1714	1871	2026	2182	2338
770	75/65/20	1621	1945	2270	2594	2918	3242	3566	3891	4215	4539	4863
	55/45/20	841	1009	1177	1346	1514	1682	1850	2018	2186	2354	2522
820	75/65/20	1738	2086	2433	2781	3129	3476	3824	4172	4519	4867	5215
	55/45/20	902	1082	1262	1443	1623	1803	1984	2164	2344	2525	2705
880	75/65/20	1855	2225	2596	2967	3338	3709	4080	4451	4822	5193	5564
	55/45/20	963	1155	1347	1540	1732	1925	2117	2310	2502	2695	2888
940	75/65/20	1970	2364	2758	3152	3546	3940	4334	4728	5122	5516	5910
	55/45/20	1022	1227	1431	1636	1840	2045	2249	2454	2658	2863	3067

### Supplied as Standard

- Colours: 001 Sandblast grey metallic 201 white or 233 traffic white
- Connection 18 underneath
- Chrome-plated air vent and drain plug
- Wall fixing

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

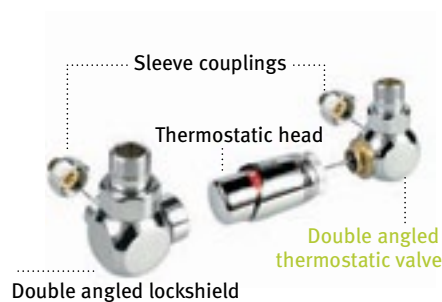
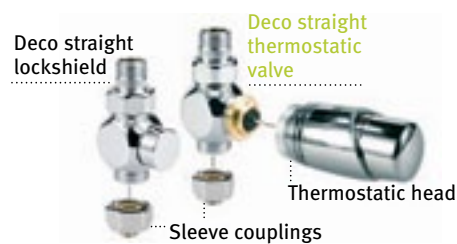
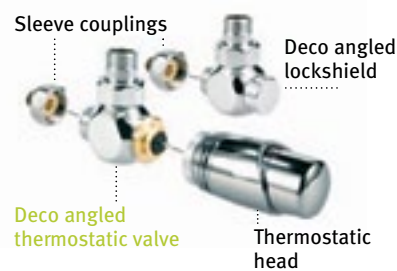
34 – Standard Kv	37 – Reduced Kv
CODE.JF2.DW.1...	CODE.RF2.DW.1... 
CODE.JF2.DC.1...	CODE.RF2.DC.1... 

## 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

# Connection Sets

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

## Set 81

For connection to the wall

Two pipe

Code	Thermostatic head
CODE.OW2.DW.1...	
CODE.OW2.DC.1...	



## Set 82

For connection to the floor

Two pipe

Code	Thermostatic head
CODE.OF2.DW.1...	
CODE.OF2.DC.1...	



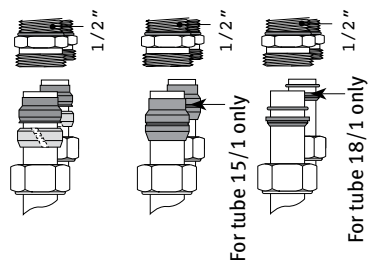
# Sleeve Couplings

Included in the price of the connection sets

## For Jaga valve - M24

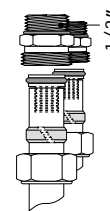
For flexible steel or copper tube

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



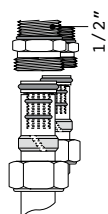
For synthetic tube

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



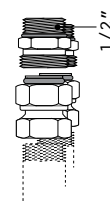
For RPE/ALU tube

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. JW2.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  $\Delta T$  50°C and  $\Delta T$  30°C are the exact outputs.  $\Delta T$  50°C outputs are measured in accordance with EN442 and  $\Delta T$  30°C outputs are calculated according to EN442.

An average correction factor is given in this table for outputs at other  $\Delta T$  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/m<sup>3</sup> 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/m<sup>3</sup>

### 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

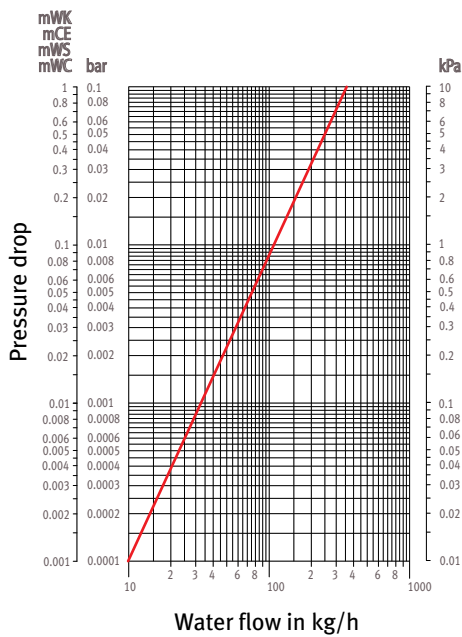
Required output 1000 watts : 1000 divided by 0.90 = 1111 watts therefore search in this leaflet's standard output table for a product with an output of at least 1111 watts. Alternatively use the "Radiator Finder" search function on [www.jaga.co.uk](http://www.jaga.co.uk) to identify all Jaga heating 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
310	0.09	0.17
370	0.11	0.21
420	0.13	0.24
480	0.14	0.27
540	0.16	0.31
600	0.18	0.34
650	0.2	0.38
710	0.22	0.41
770	0.23	0.44
820	0.25	0.48
880	0.27	0.51
940	0.29	0.54
990	0.3	0.58
1050	0.32	0.61
1110	0.34	0.65
1170	0.36	0.68

### Water content in litres/cm

H	Single	Double
310	0.026	0.048
370	0.031	0.058
420	0.036	0.068
480	0.041	0.078
540	0.046	0.087
600	0.051	0.097
650	0.056	0.107
710	0.061	0.116
770	0.067	0.126
820	0.072	0.136
880	0.077	0.145
940	0.082	0.155
990	0.087	0.165
1050	0.092	0.175
1110	0.097	0.184
1170	0.102	0.194

## Product description

### Deco Louvre Horizontal

#### 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 horizontally and lengthways placed on the vertical collector with in an angle of 15°.

Single collector : 50 x 30 x 3mm

Double collector: 90 x 30 x 3mm

Transparency: none

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: min80 µ

#### Connections

The sockets ½” are integrated in the collectors and hence invisible. The sockets ½” at the top end and bottom 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 ½” and drain plug ½”

#### How to install

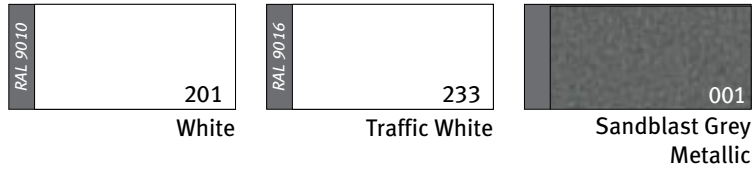
The building services engineer chooses the radiators considering the following conditions:

- A heat output calculation according to the standard.
- The heat output and the dimensions of the Deco Louvre horizontal 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 single point 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.

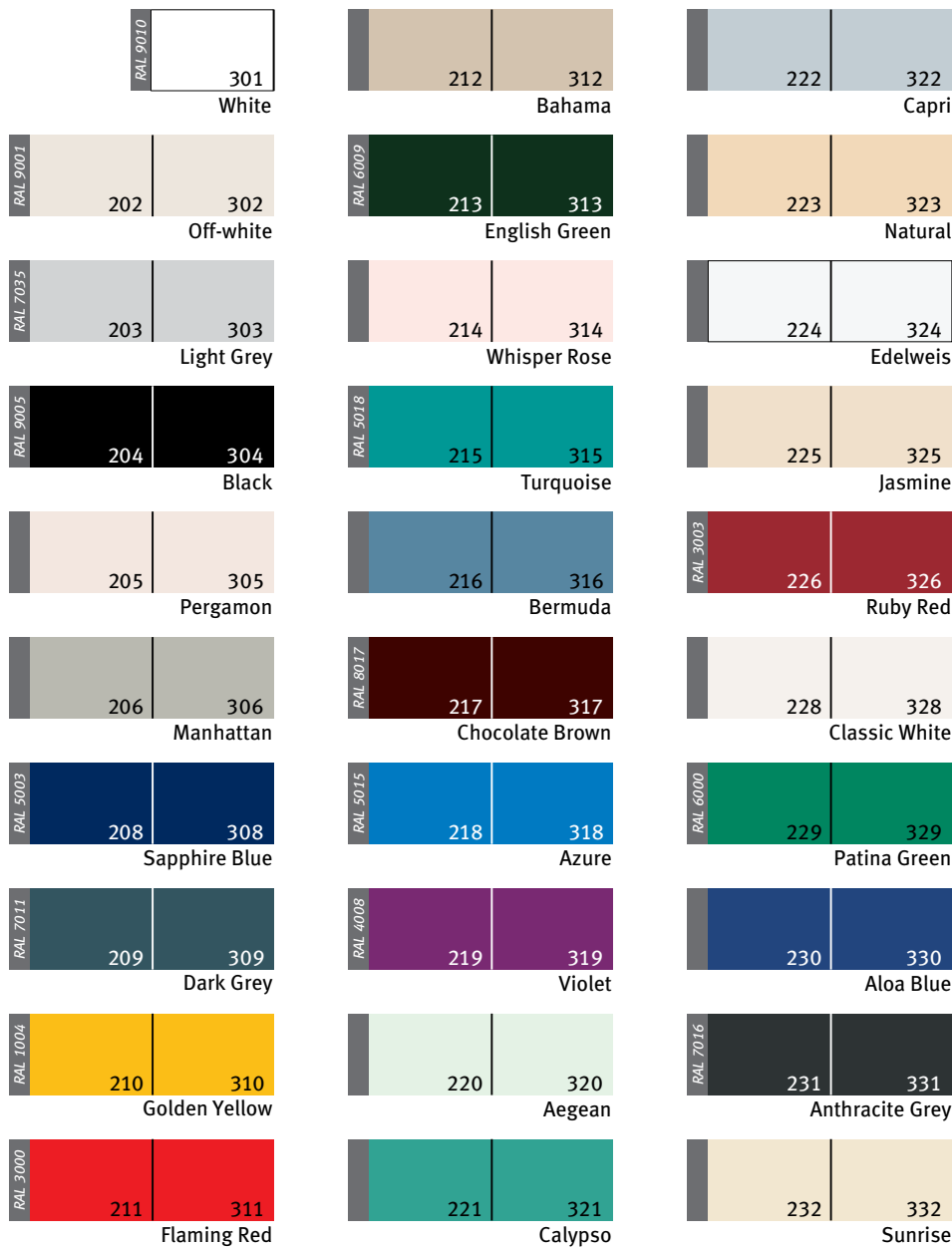
# Jaga colours

## For Deco Louvre Horizontal

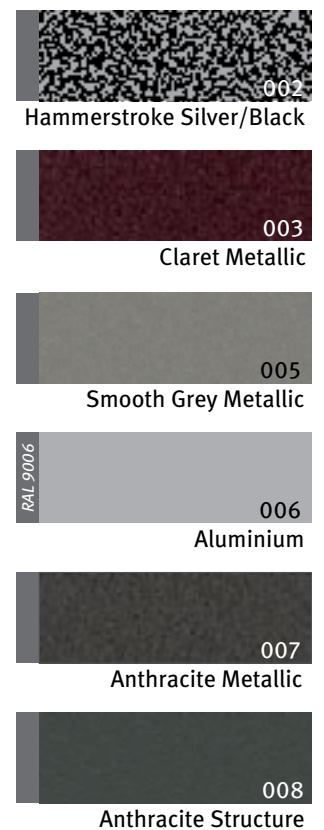
### Standard colours



### 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