



Iguana⁺
COLLECTION

ANGULA PLUS

Distinctively elegant vertical radiators



jaga

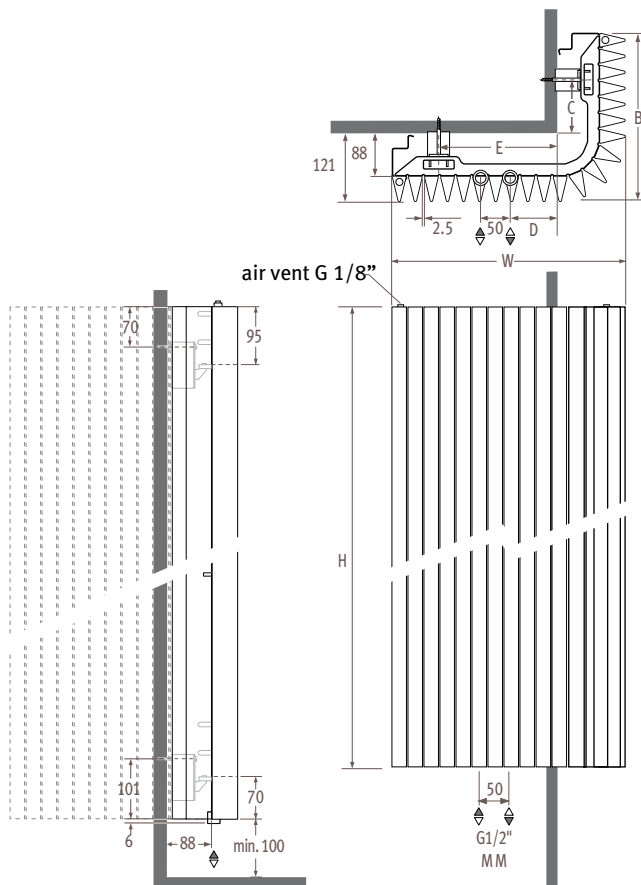
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Angula Plus

Iguana⁺
COLLECTION

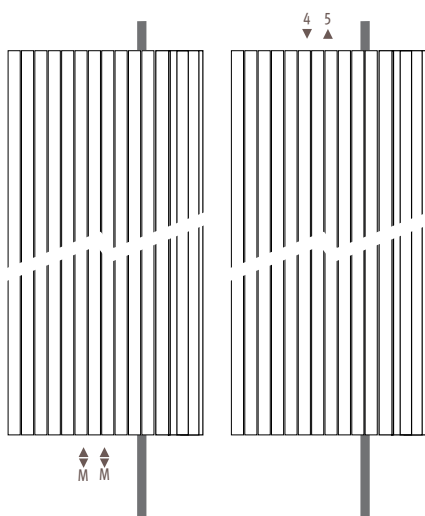
Dimensions

Product code: ANPW



W	400	455	510
B	290	345	400
C	98	153	208
D	103	131	158
E	208	263	318

Connections



Standard connection

Code MM

Top end connection

Code 45 or 54

(1° number > flow)

When ordering a top end connection, no insert pipe should be ordered. Air vents should be positioned on the central heating pipes.

Order code:

Specify code 45 or 54 instead of MM - There is no extra charge.

To guarantee the output of the Angula Plus and to limit the pressure drop, Jaga recommends the use of tube diameters 16/2, 18/1 or 18/2.

All dimensions are shown in millimetres

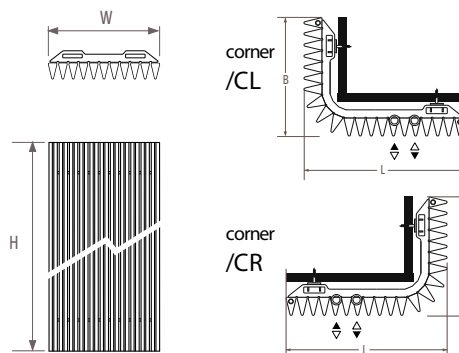
Outputs

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

ORDER CODE: ANPW code height width colour connection corner
180 040 333 MM /CL

(Example order code shown is for a 1800mm high radiator, 400mm wide)

Height	Width >	400	455	510
1800	75/65/20	1745	2078	2410
	55/45/20	873	1040	1206
1920	75/65/20	1823	2170	2517
	55/45/20	918	1093	1267
2000	75/65/20	1871	2228	2584
	55/45/20	946	1127	1307
2200	75/65/20	1978	2355	2732
	55/45/20	1010	1203	1396
2400	75/65/20	2066	2460	2854
	55/45/20	1066	1270	1473



Supplied as Standard

- Colours: 001 Sandblast grey metallic or 333 traffic white
- Central connection MM underneath
- 2 chrome-plated air vents G 1/8"

Weight & water content

Weight in kg

H	W > 400	455	510
1800	57.7	68.3	78.9
1920	61.0	72.3	83.5
2000	63.4	75.1	86.8
2200	69.2	81.9	94.7
2400	75.3	89.3	103.2

Water content in litre

H	W > 400	455	510
1800	19.4	21.8	24.9
1920	20.7	23.3	26.7
2000	20.7	24.3	27.8
2200	22.7	26.6	30.5
2400	24.8	29.1	33.4

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

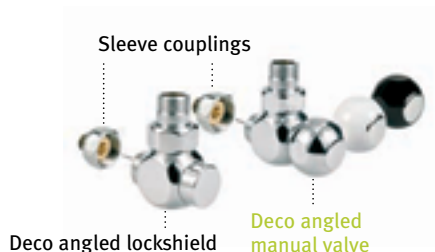
The order code of the connection set will be completed with the sleeve coupling code

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

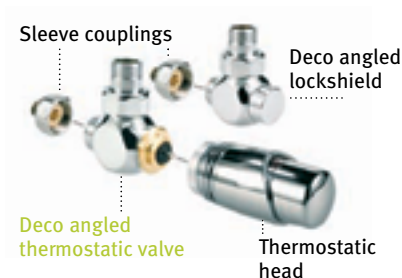


Set 33

For connection to the wall

Two pipe



CODE.JW2.DW.1...	
CODE.JW2.DC.1...	

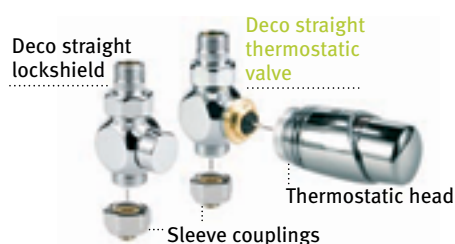


Set 34

For connection to the floor

Two pipe



CODE.JF2.DW.1...	
CODE.JF2.DC.1...	

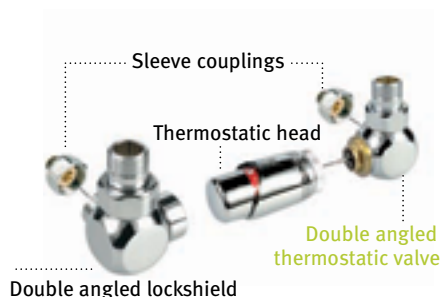


Set 35

For connection to the wall

Two pipe

CODE.JH2.DW.1...	
CODE.JH2.DC.1...	



Thermostatic heads

DW



Chrome/ White

DC





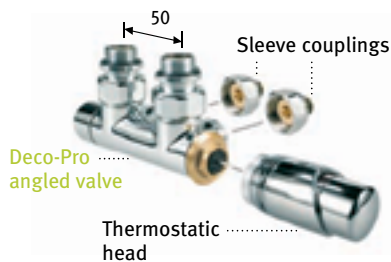
Chrome

Set 41

For connection to the wall

Two pipe



Code	Thermostatic head
CODE.PW3.DW.1...	
CODE.PW3.DC.1...	

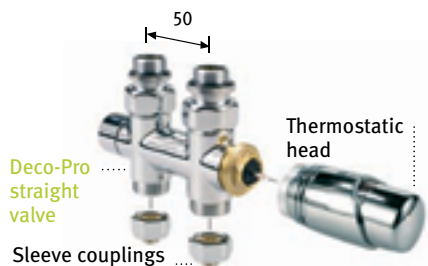


Set 42

For connection to the floor

Two pipe

Code	Thermostatic head
CODE.PF3.DW.1...	
CODE.PF3.DC.1...	

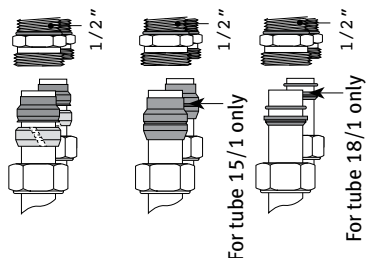


Sleeve Couplings

For Jaga valve - M24

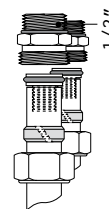
For flexible steel or copper tube

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



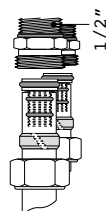
For synthetic tube

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



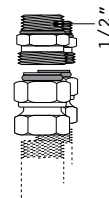
For RPE/ALU tube

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



Steel tube for CH

Code	Tube Ø
503	1/2"
504	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. MW2. MW. 1. (insert relevant code from above)

All dimensions are shown in millimetres

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 ($\Delta T=50$).

Product description

Iguana Angula Plus

Material

Consists of vertical triangular steel radiation pipes, welded on steel positioning brackets. The radiation pipes are hydraulically connected using steel bends. Suitable for central heating.

Finish

The radiators are sandblasted, degreased, phosphated, electrostatically lacquered with epoxy-polyester powder and finally stove enamelled 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

Pressure test: 9 bar

Working pressure: 6 bar

Colour

The radiator is lacquered in the colour sandblast grey metallic 001 / white (RAL 9016) / other (see colour chart)

The Iguana Angula Plus consists of triangular vertical radiation pipes welded on steel positioning brackets. The radiation pipes are hydraulically connected by means of steel bends, mounted next to each other in a straight surface. Side panels fitted to encase the rear of the Iguana and thus increase natural convection from the rear. Supplied with wall brackets and 2 air vents G 1/8". Central connection, standard for 2 pipe.

Options

All options have the same radius as the radiator. They can also be ordered and fitted afterwards.

- Towel rail and fixings in chrome-plated aluminium.
- Hat rack and fixings in chrome-plated aluminium. Including 5 coat hooks.
- Small shelf in beech veneer with chrome-plated fixings. Shelf width: 100mm.
- Large shelf in beech veneer with chrome-plated fixings. Shelf width: 170mm.
- Deco connection sets and valves 2 pipe.
- Deco Pro connection sets and valves 2 pipe.

How to install

The building services engineer chooses the heating elements considering the following conditions:

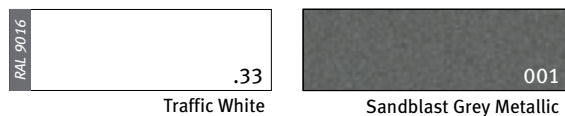
- A heat output calculation according to the standard.
- Tables of heat outputs and dimensions for Iguana Aplano radiators according to EN 442.
- The radiators will be mounted to the wall
- The specially designed thermostatic connection sets / thermostatic Jaga Deco / Jaga Deco Pro valves / manual Jaga 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 / Jaga Deco thermostatic heads chrome/ white / Jaga Comap thermostatic heads silver / not to be / to be fitted.

Jaga colours



For Angula Plus

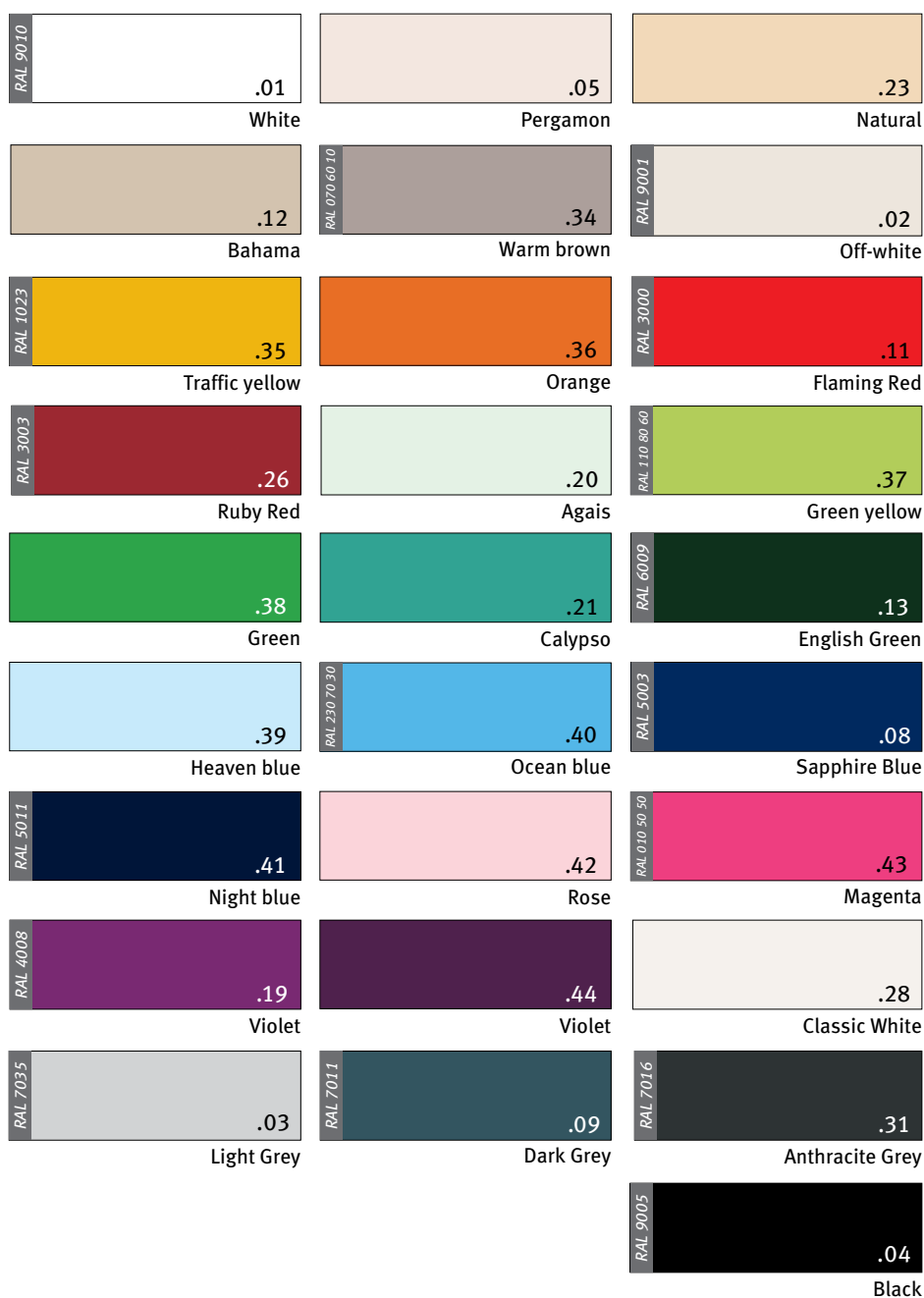
Standard colours



COMPLETE YOUR COLOUR CODE
Add 2 or 3 to the front of the selected colour code below to specify the finish

- 2.. Gloss finish
- 3.. Satin Matt finish

Premium 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.

Special colours

Iguana⁺
COLLECTION

For Angula Plus

Smooth metallics

<small>RAL 9006</small> 006 Aluminium	048 Silver	049 Grey anodised
005 Grey Metallic	007 Anthracite	051 Golden yellow
		050 Old gold

Metallics fine texture

035 Silvergrey	036 Warm grey	045 Concrete grey
018 pearl black	037 Cream	039 Grey brown
038 Cappuccino	042 Chocolate	017 pearl brown

Fine texture

053 Pure white	052 Aluminium grey	026 Platinum grey
028 granite grey	046 Graphite grey	040 Copper
041 Cinnamon brown	043 Khaki	044 Navy bleu

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.

Radiator

GUARANTEE
10
YEAR

Valves

GUARANTEE
3
YEAR