



ARISTOCRAT

Elite towel rail for every situation



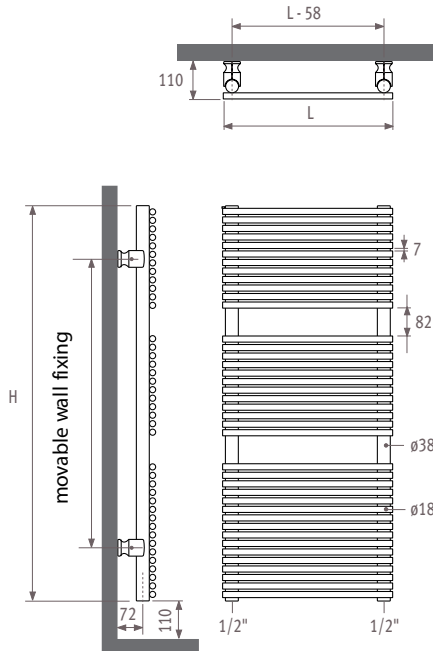
jaga

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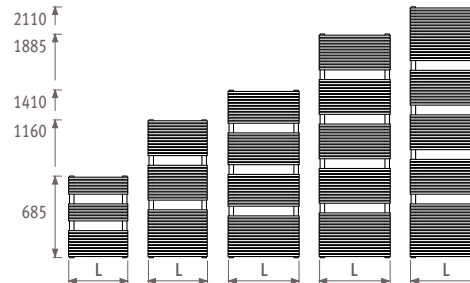
Aristocrat

Dimensions

Product code: ARIW

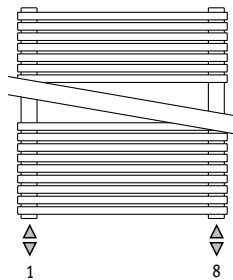


Aristocrat Range



Available lengths	500	600	800	
Available heights	685	1160	1410	1885 2110

Connections



Key: 1 = flow
2 = return

Standard connection

Order code: 18

Connection 18 or 81.

Single point connection

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

In case of a single point pipe connection always use a diffusion tube of minimum length 100mm (ø100 to 120mm) and a reduction washer.



With electric element

Order code: 18, with electric element



Mixed

Order code: 18

Order an electric element and T-pieces.

- Fit the T-pieces together with the electric heating element for connection to the central heating wet system.

Note: Never cut off the return of the radiator.

Outputs

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

Gloss polished stainless steel

ORDER CODE: ARIW. **code** 068 **height** 050 **length** 010 **color** 010 **conn.** /18 (Example order code shown is for a 680mm high radiator, 500mm long)

H		L> 500	600	800
685	75/65/20	267	---	---
	55/45/20	144	---	---
1160	75/65/20	490	---	---
	55/45/20	256	---	---
1410	75/65/20	---	702	---
	55/45/20	---	361	---
1885	75/65/20	---	927	---
	55/45/20	---	486	---
2110	75/65/20	---	1029	1371
	55/45/20	---	537	724

Supplied as Standard

- Finish: Brushed satin stainless steel or gloss polished stainless steel
- Connection 18 underneath
- Wall fixing
- Chrome-plated air vent

Brushed stainless steel satin

ORDER CODE: ARIW. **code** 068 **height** 050 **length** 011 **color** 011 **conn.** /18 (Example order code shown is for a 680mm high radiator, 500mm long)

H		L 500	600	800
685	75/65/20	318	---	---
	55/45/20	168	---	---
1160	75/65/20	553	---	---
	55/45/20	289	---	---
1410	75/65/20	---	734	---
	55/45/20	---	377	---
1885	75/65/20	---	1009	---
	55/45/20	---	532	---
2110	75/65/20	---	1094	1500
	55/45/20	---	580	782

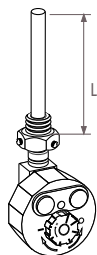
All dimensions are shown in millimetres



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

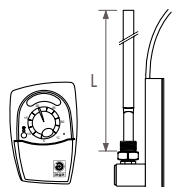
Options

Electro heating



Code	Watts	L
9096.10	450	315
9096.11	600	355
9096.12	900	515
9096.13	1200	660
9096.14	1500	820

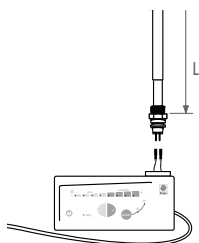
Electro heating element with infra-red operation



Code	Watts	L
9096.510	600	470
9096.521	900	680

- Finish: white ABS
- Transmission range $\pm 6m$ in all directions
- Receiver has to be placed at the back of the radiator
- Insulation class 1

Electric element Eco comfort

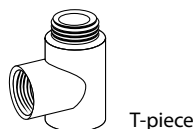


Code	Watts	L
9096.70	600	550
9096.71	750	600
9096.72	900	695
9096.73	1000	720
9096.74	1250	850
9096.75	1500	965

Connection electric element

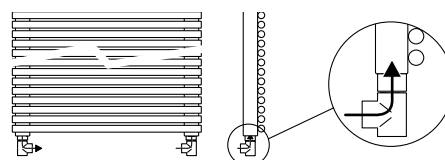
- Fit the electric heating element vertically in the socket 1 or 8. The pressure release valve which is included should be fitted into socket 4 or 5 (3 bar).
- Do not switch the radiator on before filling it completely with water.
- Top up with water after the radiator has fully warmed up and cooled down.

T-piece for mixed application

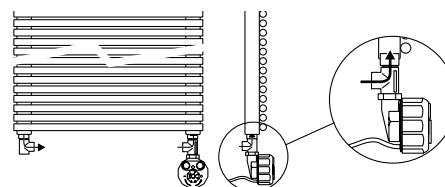


T-piece

Combination possibilities



Connection at side or the back with a standard radiator



Mixed connection

Chrome

Order code: TPCE.004.009

Colours 201 - 233 or 301-333

The colour code completes the order code, below is an example using colour code 301

Order code: TPCE.004.301

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

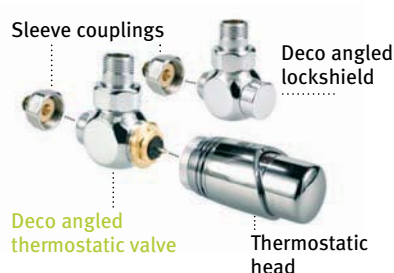


Set 33 | Set 36

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... 

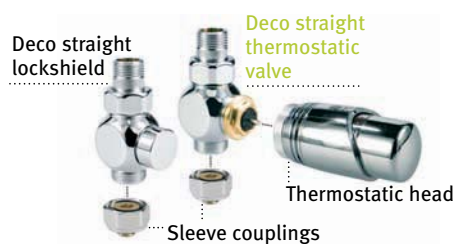


Set 34 | Set 37

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... 

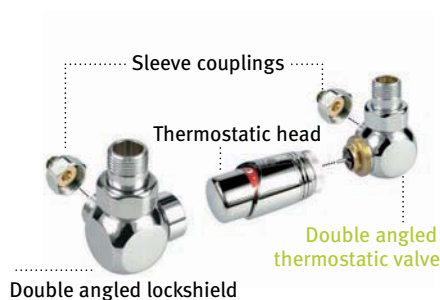


Set 35 | Set 38

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 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...	



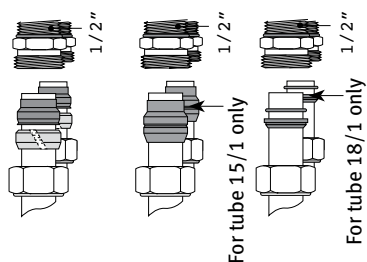
Sleeve Couplings

Included in the price of the connection sets

For Jaga valve - M24

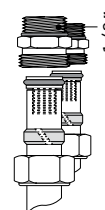
For flexible steel or copper tube

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



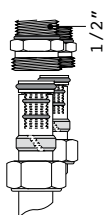
For synthetic tube

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



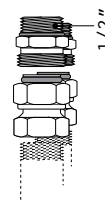
For RPE/ALU tube

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



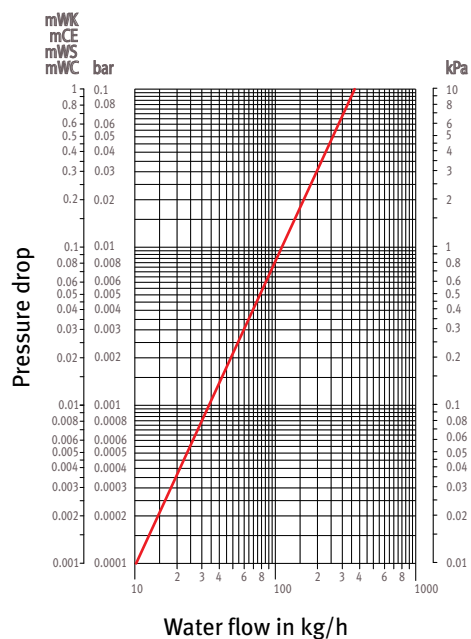
Steel tube for CH

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

Pressure drops



Water and weight content

Weight in kg

H	L	500	600	800
685		8.4	---	---
1160		15.6	---	---
1410		---	20.9	---
1185		---	28.0	---
2110		---	31.9	39.6

Water content in litres

H	L	500	600	800
685		3.2	---	---
1160		5.8	---	---
1410		---	7.8	---
1185		---	10.5	---
2110		---	11.9	14.6

Finishes



gloss polished stainless steel



brushed satin stainless steel

These colour swatches are only indicative. It's impossible to obtain a 100% exact colour reproduction in printing.

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	0.65	0.70	0.76	0.82	0.88	1.94	1.00	1.06	1.12	1.19	1.25	1.31	1.38	1.44
	24	0.56	0.61	0.67	0.73	0.78	0.84	0.90	0.96	1.02	1.09	1.15	1.21	1.27	1.34
85	20	0.59	0.65	0.70	0.76	0.82	0.88	0.94	1.00	1.06	1.12	1.19	1.25	1.31	
	24	0.50	0.56	0.61	0.67	0.73	0.78	0.84	0.90	0.96	1.02	1.09	1.15	1.21	
80	20	0.54	0.59	0.65	0.70	0.76	0.82	0.88	0.94	1.00	1.06	1.12	1.19		
	24	0.45	0.50	0.56	0.61	0.67	0.73	0.78	0.84	0.90	0.96	1.02	1.09		
75	20	0.48	0.54	0.59	0.65	0.70	0.76	0.82	0.88	0.94	1.00	1.06			
	24	0.40	0.45	0.50	0.56	0.61	0.67	0.73	0.78	0.84	0.90	0.96			
70	20	0.43	0.48	0.54	0.59	0.65	0.70	0.76	0.82	0.88	0.94				
	24	0.35	0.40	0.45	0.50	0.56	0.61	0.67	0.73	0.78	0.84				
65	20	0.38	0.43	0.48	0.54	0.59	0.65	0.70	0.76	0.82					
	24	0.30	0.35	0.40	0.45	0.50	0.56	0.61	0.67	0.73					
60	20	0.33	0.38	0.43	0.48	0.54	0.59	0.65	0.70						
	24	0.25	0.30	0.35	0.40	0.45	0.50	0.56	0.61						
55	20	0.28	0.33	0.38	0.43	0.48	0.54	0.59							
	24	0.20	0.25	0.30	0.35	0.40	0.45	0.50							
50	20	0.23	0.28	0.33	0.38	0.43	0.48								
	24	0.16	0.20	0.25	0.29	0.35	0.40								
45	20	0.18	0.23	0.28	0.33	0.38									
	24	0.11	0.16	0.20	0.25	0.30									
40	20	0.14	0.18	0.23	0.28										
	24	0.08	0.12	0.16	0.20										
35	20	0.10	0.14	0.18											
	24	0.04	0.08	0.12											
30	20	0.06	0.10												
	24	0.01	0.04												

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

Aristocrat

Material

Composed of steel vertical collectors and horizontal straight steel radiation tubes, the aristocrat of high quality stainless steel. The radiation tubes are by means of the 'resistance welding' procedure connected with the collectors. No welding seams are visible either at the collector or at the radiation tubes.

An electric element can be installed: For central heating wet system/ electric only/ mixed application.

Pressure test: 10, 3 bar

Working pressure: 8 bar

Composition

Single, round radiation tubes (ø18 x 1.5mm) welded horizontal at the vertical round collector (ø 38 x 1.5mm), with a distance of 18mm.

Has spaces with regular distances to dry towels or linen.

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: min80 µ

Connections

The settled sockets ½ inch at the bottom end of the collectors. Air vent 1/8 inch at the side end of the collector.

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 radiators according to EN 442
- The radiators may be wall mounted when using the wall fixings supplied.
- 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/ White/ Jaga Comap thermostatic heads silver/not to be/ to be fitted.

Options

- Jaga Deco valves
- Electric heating element
- Electric heating element with infrared operation
- T-pieces for mixed application
- Insert pipe for top end connection

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



Valves



Electric Elements

