



KNOCKONWOOD

Nature's beauty, Jaga's power



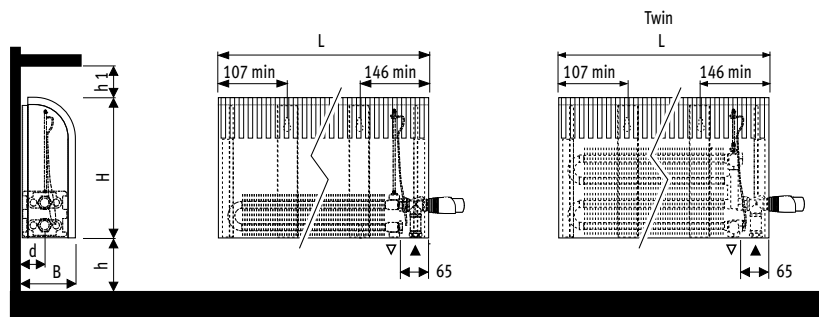
jaga

Jaga Heating Products (UK) Ltd | www.jaga.co.uk
T: +44 (0)1531 631 533 | F: +44 (0)1531 631 534 | jaga@jaga.co.uk

Knockonwood

Dimensions

Product code: KNOW



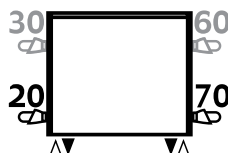
Type	d	B	h (min)	h1 (min)
06	46	108	100	50
10-11	52	128	100	50
15-16	77	178	120	50

Dimensions in mm

Connections

Standard connection

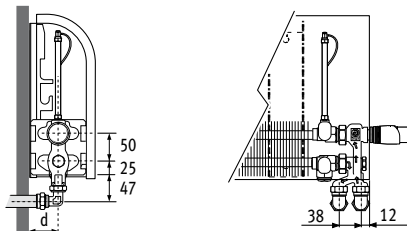
20 (bottom left) or 70 (bottom right)
The standard casings conceal the valves



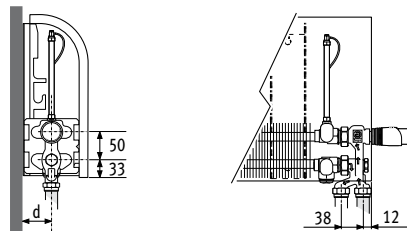
Top valve connection

30 (top left) or 60 (top right)

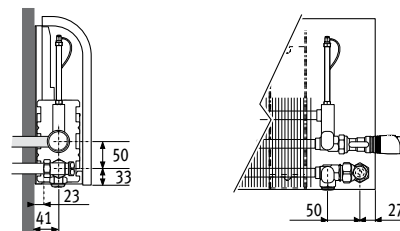
Jaga Pro valve to the wall



Jaga Pro valve to the floor



Jaga type 6 valve to the wall

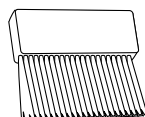


Electric connection

- Supplied as standard: Plug and socket outlet to be provided behind the casing or immediately within easy reach of the radiator
- 230VAC/12VDC supply
- With 12VDC supply do not use the power supply provided

Options

Brush



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

Order code: 5090.001

Fixing calorimeter holder

Description	Code
Inside 60	5097.001
Inside 30	5097.002
Outside	5097.003

Electronic calorimeter possible with standard casing

Top valve

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

DBE and Oxygen version

DBE - The smallest and most powerful radiator
oxygen - For healthy heat and clean air

Outputs

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

Type 6 - Wall-mounted

		code	height	length	type	colour			
ORDER CODE:		KNOW	030	060	06	700			
(Example order code shown is for a 300mm high radiator, 600mm long, type 6)									
H		L	600	800	1000	1200	1400	1800	2200
300	75/65/20		416	554	693	832	970	1247	1525
	55/45/20		198	263	329	395	461	592	724
550	75/65/20		554	739	924	1109	1294	1663	2033
	55/45/20		265	354	443	531	620	797	974
800	75/65/20		645	860	1075	1290	---	---	---
	55/45/20		312	416	520	624	---	---	---

Supplied as Standard

- Complete casing in one piece
- Wall brackets
- Low-H2O heat exchanger type 10, 15 or twin Low-H2O heat exchanger type 8, 11 or 16
- Drain plug and extended air vent 1/8" with discharge hose

Type 10 - Wall-mounted, twin model

		code	height	length	type	colour			
ORDER CODE:		KNOW	030	060	10	700			
(Example order code shown is for a 300mm high radiator, 600mm long, type 10)									
H		L	600	800	1000	1200	1400	1800	2200
300	75/65/20		452	603	754	905	1056	1357	1659
	55/45/20		215	287	359	431	503	646	790
550	75/65/20		660	880	1100	1320	1540	1980	2420
	55/45/20		322	429	536	643	751	965	1179
800	75/65/20		778	1037	1296	1555	---	---	---
	55/45/20		388	517	647	776	---	---	---

Type 11 - Wall-mounted

		code	height	length	type	colour			
ORDER CODE:	KNOW	030	060	11	700				
(Example order code shown is for a 300mm high radiator, 600mm long, type 11)									
H		L	600	800	1000	1200	1400	1800	2200
300	75/65/20		515	687	859	1031	1203	1546	1890
	55/45/20		237	317	396	475	555	713	871
550	75/65/20		718	958	1197	1436	1676	2155	2633
	55/45/20		336	448	560	672	784	1008	1232
800	75/65/20		845	1127	1409	1691	---	---	---
	55/45/20		401	535	669	803	---	---	---

Type 15 - Wall-mounted, twin model

		code	height	length	type	colour			
ORDER CODE:		KNOW	030	060	15	700			
(Example order code shown is for a 300mm high radiator, 600mm long, type 15)									
H		L	600	800	1000	1200	1400	1800	2200
300	75/65/20		689	919	1149	1379	1609	2068	2528
	55/45/20		330	440	550	660	770	990	1210
550	75/65/20		1001	1335	1669	2003	2337	3004	3672
	55/45/20		492	657	821	985	1150	1478	1806
800	75/65/20		1165	1553	1941	2329	---	---	---
	55/45/20		588	784	980	1176	---	---	---

Type 16 - Wall-mounted

		code	height	length	type	colour			
ORDER CODE:	KNOW	030	060	16	700				
(Example order code shown is for a 300mm high radiator, 600mm long, type 16)									
H		L	600	800	1000	1200	1400	1800	2200
300	75/65/20	752	1002	1253	1504	1754	2255	2757	
	55/45/20	350	467	584	701	817	1051	1285	
550	75/65/20	1063	1418	1772	2126	2481	3190	3898	
	55/45/20	499	666	832	998	1165	1498	1830	
800	75/65/20	1288	1718	2147	2576	---	---	---	
	55/45/20	609	813	1016	1219	---	---	---	

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

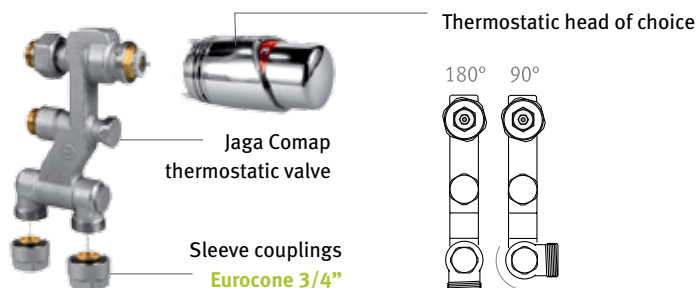
Set 26 Jaga Comap valve

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

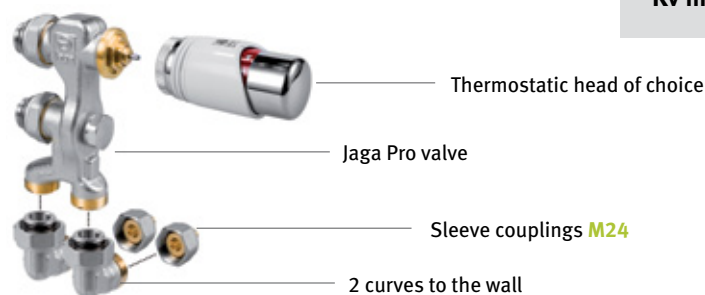
Set 11 Jaga Pro valve

Two pipe

Connection to the wall, bottom of casing - Not for Knockonwood Type o6

Kv max. 0.6

Code	Thermostatic head
COLO.PW2.DW.3...	chrome / white
COLO.PW2.DC.3...	chrome
COLO.PW2.JA.3...	white
COLO.PW2.JC.3...	silver



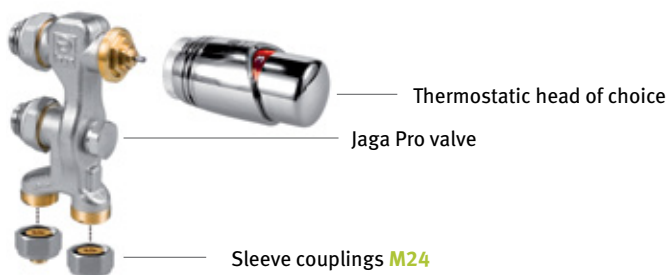
Set 12 Jaga Pro valve

Two pipe

Connection to the floor

Kv max. 0.6

Code	Thermostatic head
COLO.PF2.DW.3...	chrome / white
COLO.PF2.DC.3...	chrome
COLO.PF2.JA.3...	white
COLO.PF2.JC.3...	silver



Set 21 Jaga valve

Two pipe

Connection to the wall - Not for Knockonwood Type o6

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

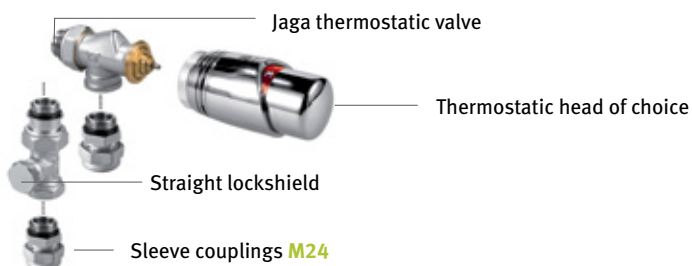
The order code of the connection set will be completed with the sleeve coupling code

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 



Thermostatic heads

DW



Chrome/ White

DC



Chrome

JA



White

JC



Silver

RM



Remote Controlled

DS







Chrome/white remote sensor

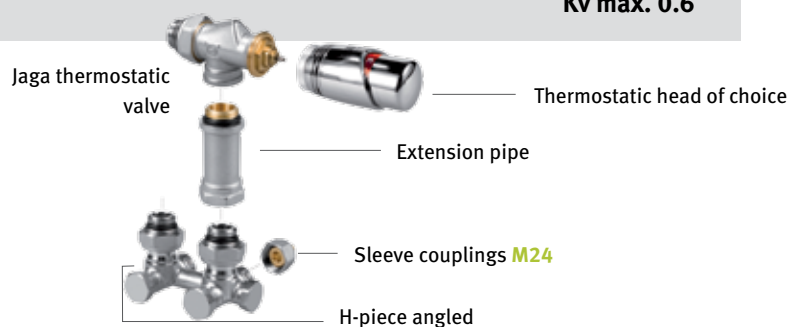
Set 23 Jaga valve

Two pipe

Connection to the floor

Kv max. 0.6

Code	Thermostatic head
COLO.JW3.DW.2...	chrome / white 
COLO.JW3.DC.2...	chrome 
COLO.JW3.JA.2...	white 
COLO.JW3.JC.2...	silver 







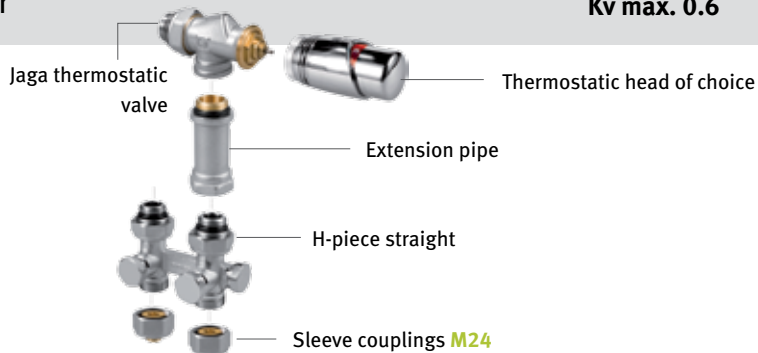
Set 24 Jaga valve

Two pipe

Connection to the floor

Kv max. 0.6

Code	Thermostatic head
COLO.JF3.DW.2...	chrome / white 
COLO.JF3.DC.2...	chrome 
COLO.JF3.JA.2...	white 
COLO.JF3.JC.2...	silver 







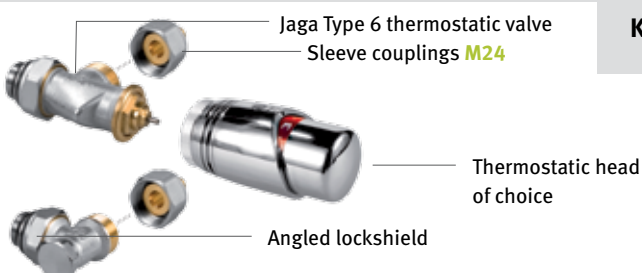
Set 25 Jaga Type 6 valve

Two pipe

Connection to the wall within the casing - for Knockonwood Type o6

Kv max. 0.6

Code	Thermostatic head
COLO.SW2.DW.3...	chrome / white 
COLO.SW2.DC.3...	chrome 
COLO.SW2.JA.3...	white 
COLO.SW2.JC.3...	silver 



Sleeve Couplings

Included in the price of the connection sets

Pro Key

Tool for easy mounting of the Jaga Pro valve.

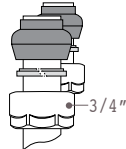
Code 5090.1120



For Jaga Comap valve - Eurocone 3/4"

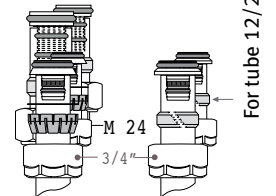
For flexible steel or copper tube

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



For synthetic or RPE/ALU tube

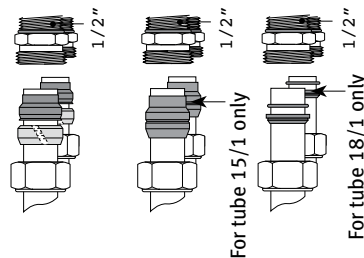
Code	Tube Ø
612	12/2
614	14/2
616	16/2
617	17/2
618	18/2
615	15/2.5
619	16/1.5
620	20/2



For Jaga valve - M24

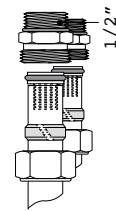
For flexible steel or copper tube

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



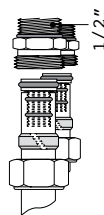
For synthetic tube

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



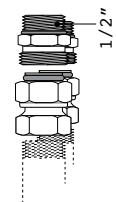
For RPE/ALU tube

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



Steel tube for CH

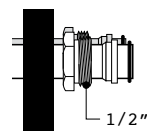
Code	Tube Ø
501	1/2"
503	3/8"



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														

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 = 0.89

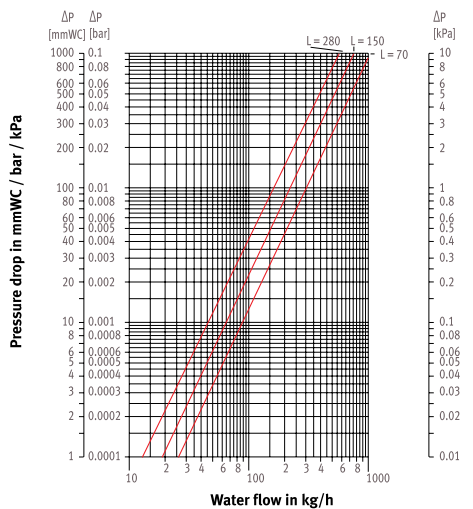
Required output 1000 watts : 1000 divided by 0.89 = 1124 watts therefore search in this leaflet's standard output table for a product with an output of at least 1124 watts. Alternatively use the "Radiator Finder" search function on www.jaga.co.uk to identify all Jaga heating products with this required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



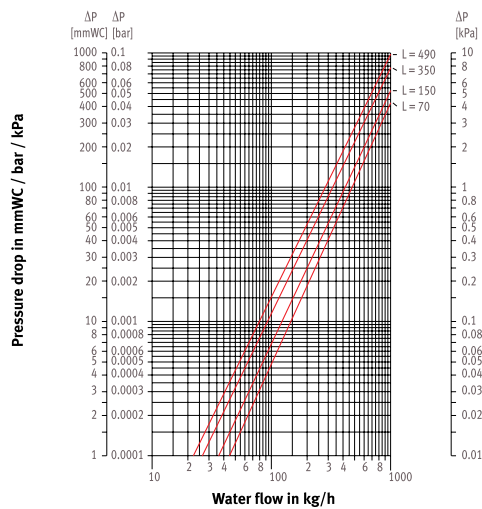
Output calculated in accordance with EN442, at a water temperature of 75/65°C and a room temperature of 20°C ($\Delta T=50$).

Pressure drops

Type 08

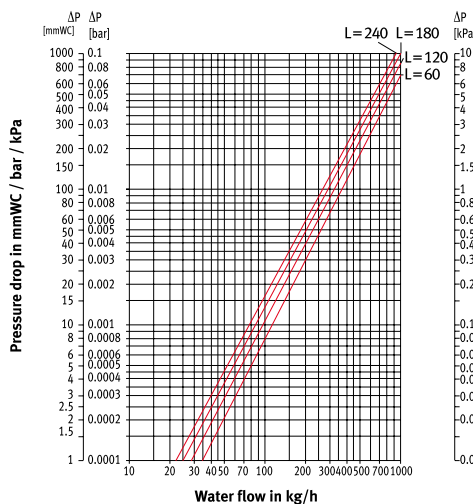


Type 10

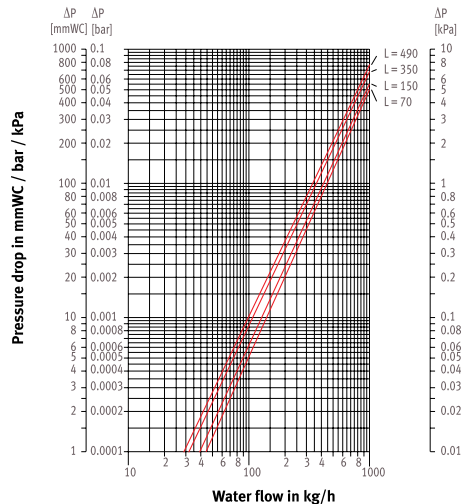


To ensure the maximum output from the Knockonwood Type 06 casing, the elements have been changed to a Type 08 heat exchanger

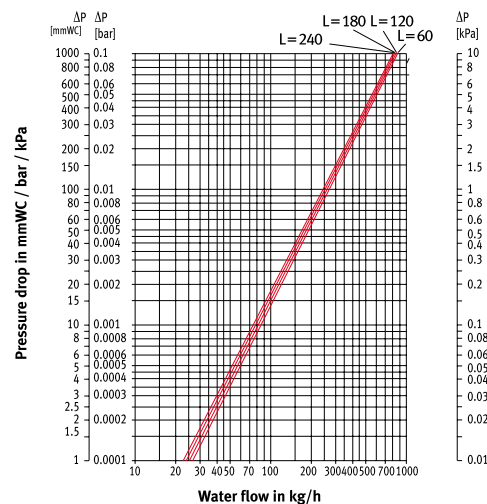
Type 11



Type 15



Type 16



Weight & water content

Weight in kg

H	T	06	10	11	15	16
300		8.3	7.8	9.9	8.9	12.2
550		12.3	12.0	13.6	14.1	19.7
800		17.4	16.9	18.6	18.6	21.1

Water content in litres

Type	L/metre
08	0.63
10	0.65
11	1.33
15	0.98
16	1.98

Product specification

Knockonwood

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
- Extended air vent 1/8" and drain plug 1/2" are included
- Pressure test: 20 bar
- Working pressure: 10 bar
- Brackets: galvanized steel plate thickness 1mm, dark grey lacquered, with a maximum intermediate distance of 1.05m
- Casing pre-fitted and supplied in one single piece, consisting of:
 - Front panel with grille made from a single curved, finished wood laminate panel at least 16mm thick. FSC-labelled
 - Sides and chassis made from electrolytic galvanized steel plate 1.25mm thick, fitted with a hole underneath for use with an integrated Jaga valve, including metallized cover plate for the unused hole
- Strong and functional packaging, can be used as a protective cover during construction works

Colour

- Heat exchanger electrostatically lacquered with anthracite grey epoxypolyester RAL 7024, gloss degree 70%.
- Sides and chassis lacquered in the colour sandblast grey metallic, in a scratch resistant epoxy-polyester powder, sprayed electrostatically and baked at a temperature of 200°C. UV resistant due to ASTM G53
- Front panel with grille finished in veneer, inside koto veneer, outside in: oak / bleached oak / mahogany / wenge-coloured oak / beech / bleached beech / maple / walnut / zebrano veneer (FSC-labelled)

Product information

- The surface temperature remains safe at all times, even at a water temperature of 90°C. Knockonwood complies with the safety requirement DHSS DN4 1992
- Manufacturer: Jaga
- Type: Knockonwood
- Outputs measured in accordance with EN442, at a water temperature of 75/65°C and a room temperature of 20°C ($\Delta T=50^{\circ}\text{C}$)

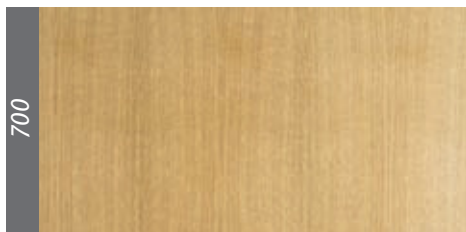
Options

- Brush for easy cleaning of the underside of the heat exchanger
- Calorimeter holder

Jaga colour range

Casings for Knockonwood

Category 1



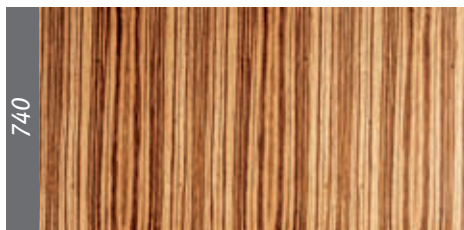
Oak natural



Beech natural



Maple natural



Zebrano natural

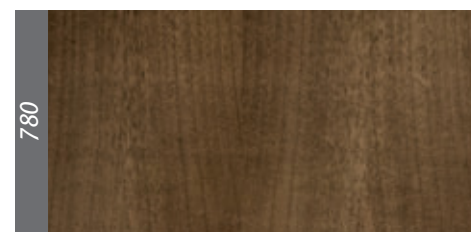
Category 2



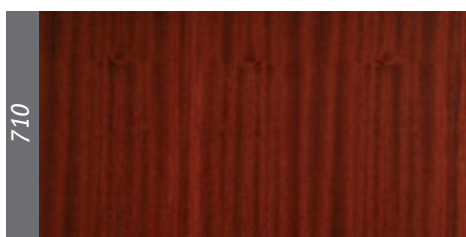
Oak bleached



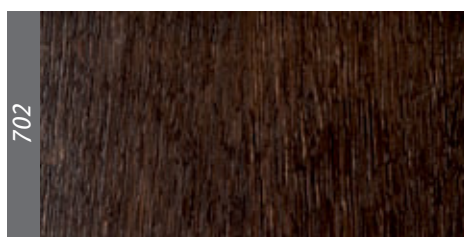
Beech bleached



***Walnut*



**Mahogany*



Oak wenge-coloured

The reproduction of these wood finishes, however carefully it has been compiled, is merely indicative. Wood is a natural product, so structure and colour can be different cover per cover. It's impossible to obtain a 100% exact colour reproduction in printing.

* Mahogany finish on the base of sapelli stain

** Walnut has a longer delivery time

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



Casings and components



Valves for Low-H₂O heat exchangers

