

jaga
CLIMATE DESIGNERS



FREEDOM



FREEDOM

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ALUMINIUM NATURAL COLOUR ANODISED GRILLES

alu. natural
grille

DYNAMIC HEAT EXCHANGER**EC FANS**

The fans are equipped with a stainless steel air filter.

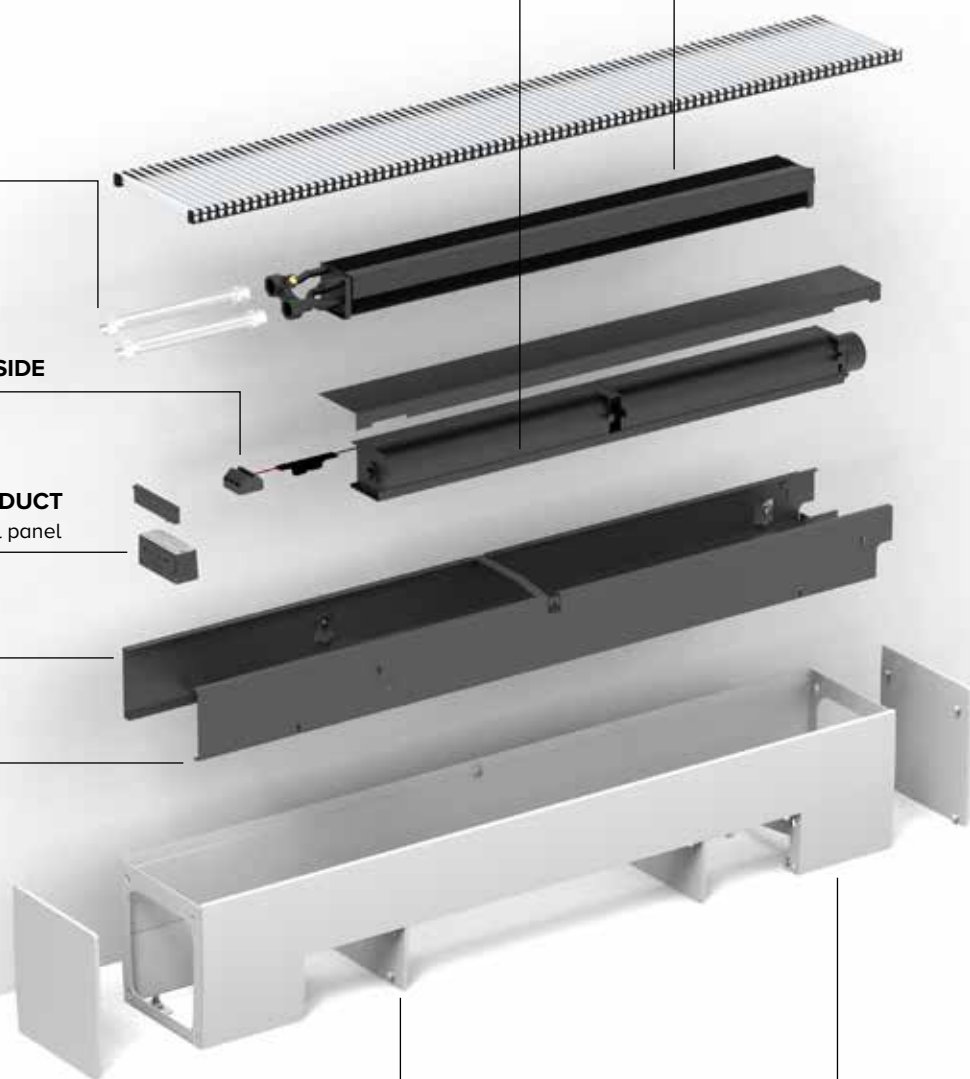
STAINLESS STEEL FLEXIBLE CONNECTIONS 1/2", 15 cm long. stainless steel flexible hoses allow the internal mechanism to be removed completely for easy cleaning

ELECTRICAL CONNECTION ON THE INSIDE

PRE-ASSEMBLED JAGA DYNAMIC PRODUCT CONTROLLER (JDPC) with fingertip control panel

INNER HOUSING

CONDENSATE TRAY, FOR DRAINAGE
($\varnothing$ 1 cm) of condensate water

ALUMINIUM COVER PANELS**CASING**

ORDER CODE

FDCF 020 074 19 XXX BNA XXX D05

Control
Grille Colour
Grille
Colour
Width
Length
Height

HEIGHT

020 cm

LENGTH

074 cm / 110 cm / 145 cm / 181 cm

WIDTH

19 cm

COLOUR

eco-friendly, scratch-resistant powder coating with high UV-resistance

Standard colours

- traffic whiteRAL 9016 (133). Soft touch: finely-textured matte look, gloss degree < 10%
- sandblast grey (001), fine texture metallic lak
- off-black (145). Soft touch: finely-textured matte look, gloss degree < 10%

Other colours

see Jaga colour chart. Surcharge

GRILLE



BNA

BNC/XXX

GRILLE: COLOUR

Our grilles and frames are available in all colours, with the exception of Sandblast grey 001. In case of intensive use (placement in circulation areas, for example in front of sliding windows and doors), wear is, of course, inevitable.

CONTROL SYSTEMS

JDPC (Jaga Dynamic Product Controller)



CONTROL PANEL

STANDARD DELIVERY

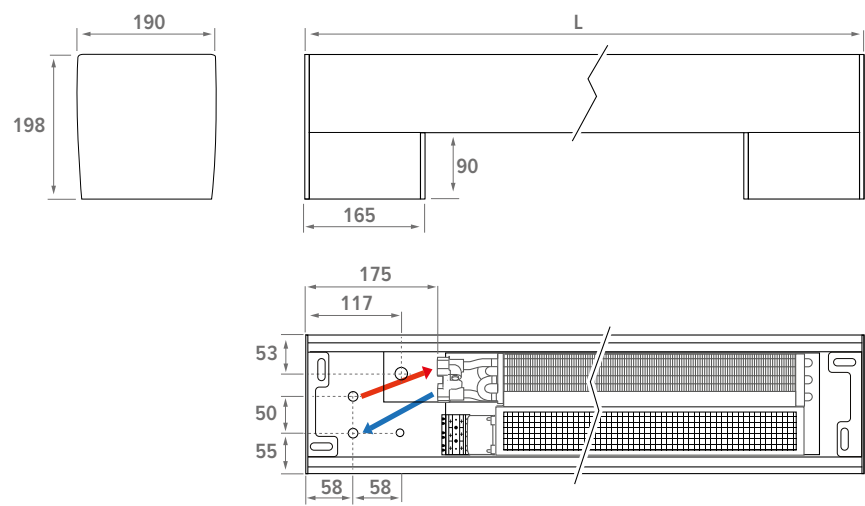
Fully pre-mounted free-standing radiator consisting of:

- aluminium casing
- aluminium cover panels
- aluminium grilles
- dynamic heat exchanger with flexible stainless steel connections 1/2", 15 cm long
- 24 VDC tangential activator(s), with integrated stainless steel filter
- hydronic and electrical connections integrated in the left foot
- pre-assembled JDPC with control panel
- 24 VDC clamp connector for electrical connection to be connected to an external power supply



FREEDOM

DIMENSIONS (in mm)

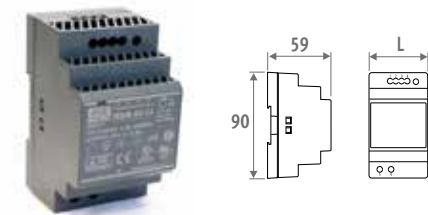


ELECTRICAL CONNECTION

POWER SUPPLIES

 **Jaga units are only CE: EN-60335 certified with use of the original Jaga power supplies**

Power supply DIN-rail assembly



- for DIN-rail or wall mounting
- in a electrical switchboard
- in compliance with UL60950 / UL508 / EN 60950-1 / TUV EN61558-2-16 / Class II
- output voltage 24 VDC
- input voltage 100 - 240 VAC
- screw connection
- LED indicator

CODE	L mm	OUTPUT Watts	OUTPUT CURRENT A
7990 054	3.5	36	1.50
7990 055	5.3	60	2.50
7990 056	7.0	92	3.90
7990 057	10.3	150	6.25

MOST USED CONNECTION SETS

With Jaga valve & lockshield valve 3/4" Euroconus



set 294 KVS: 0.8 TWO PIPE

CODY AA4 24 4... 24 VDC

CODY AA4 10 4... 24 VDC (0-10V)

fill in sleeve coupling code

With 2 lockshields 3/4" Euroconus



set 291 TWO PIPE

CODY LOS 00 4...

fill in sleeve coupling code

Sleeve couplings 3/4" Eurocone

PRECISION METAL TUBE		SYNTHETIC OR RPE/ALU	
CODE	Tube Ø	CODE	Tube Ø
112	12/1	612	12/2
114	14/1	614	14/2
115	15/1	616	16/2
116	16/1	618	18/2
118	18/1	619	16/1.5
		620	20/2

For extensive information on valves, see the brochure "Connection sets & Valves"



CONTROL PANEL

JDPC (Jaga Dynamic Product Controller)

TYPE	POSITION	CONTROL PANEL	EXTERNAL 0-10 V CONTROL	WATER TEMPERATURE SENSOR	AIR TEMPERATURE SENSOR
Jaga 3 settings controller (D05)	 	✓	✓	✓	-

JAGA 3 SETTINGS CONTROLLER

- When heat or cold are requested, a BMS/home automation system will open up the thermoelectric valve.
- The fan will rotate at a fixed speed once the water has reached the setting of 28°C.
- he fan will rotate at a fixed speed once the water has reached the setting of 18°C.
- The user manually selects the desired mode via the control panel    / OFF. The unit can run at 3 speeds. The unit starts at the last selected speed(1, 2 or 3) when the preset water temperature is reached.



HEIGHT H cm	LENGTH L cm	BREEDTE B cm	CONTROL VOLTAGE U V	COOLING (non-condensing) Room temperature 27°C		COOLING TOTAL Room temperature 27°C		PERCEPTIBLE COOLING Room temperature 27°C		HEATING Room temperature 20°C				SOUND PRESSURE LEVEL dB(A)	AIR FLOW m³/h	POWER CONSUMPTION Watts	ORDER CODE
				16/18 Watts		7/12 Watts		7/12 Watts		35/30 Watts	45/40 Watts	50/45 Watts	55/45 Watts				
FDCF 020 074 19			2	34		56		79		77	141	172	186	14	24	0.5	FDCF 020 081 19 XXX BNA D05
			4	75		123		172		139	253	309	335	15	37	0.8	
			6	118		194		268		196	356	436	472	23	52	1.3	
			8	163		269		367		250	454	556	602	28	68	2.1	
			10	210		346		466		301	548	670	726	34	79	3.0	
110 19			2	68		112		159		155	281	344	373	15	42	0.6	FDCF 020 101 19 XXX BNA D05
			4	148		245		342		278	505	618	669	19	75	1.3	
			6	235		388		535		391	711	870	943	29	98	2.7	
			8	325		537		732		499	906	1109	1202	32	125	4.6	
			10	419		691		931		602	1094	1339	1451	37	160	7.1	
145 19			2	102		168		238		233	422	517	560	16	66	1.1	FDCF 020 121 19 XXX BNA D05
			4	223		368		513		417	758	928	1006	20	112	2.1	
			6	353		583		804		588	1068	1307	1417	30	150	4.0	
			8	489		806		1100		749	1361	1666	1806	35	193	6.6	
			10	628		1037		1398		905	1644	2012	2181	39	239	10.1	
181 19			2	136		224		317		310	563	690	747	18	84	1.2	FDCF 020 141 19 XXX BNA D05
			4	298		492		687		557	1011	1238	1341	22	150	2.5	
			6	471		777		1072		784	1425	1744	1890	32	196	5.4	
			8	652		1075		1467		999	1816	2223	2409	37	250	9.1	
			10	839		1384		1866		1207	2193	2684	2909	41	320	14.1	

Output measured in accordance with EN 16430

*Noise measurement according to ISO 3741:2010, at a 2-m distance from the unit and with an assumed room attenuation of 8 dB(A)/room volume 100 m³ / reverberation time 0.5 sec.

enter colour code

The indicated outputs at ΔT 50 are exact values measured in accordance with EN16430. This table provides a calculated value using an average correction factor for all other ΔT outputs, valid for all dimensions.

Click www.jaga.com/selection-tools/ to download the calculation tools with the exact outputs. The online calculation tools are kept up to date with the most recent data. Minor output differences between printed tables and the different online calculation tools are therefore completely normal and within the margins of tolerance imposed by the standard.

AVERAGE CORRECTION FACTORS DYNAMIC PRODUCTS - 75/65/20°C

room temperature: 20°C Average N-value: 1.00

	TR	65	60	55	50	45	40	35	30	25
TA										
75	1.00	0.95	0.89	0.83	0.76	0.69	0.62	0.53	0.42	
70	0.95	0.90	0.84	0.79	0.72	0.66	0.58	0.50	0.39	
65		0.85	0.80	0.74	0.68	0.62	0.55	0.47	0.37	
60			0.75	0.70	0.64	0.58	0.51	0.43	0.34	
55				0.65	0.60	0.54	0.47	0.40	0.31	
50					0.55	0.49	0.43	0.37	0.28	
45						0.45	0.39	0.33	0.25	
40							0.35	0.29	0.22	
35								0.25	0.18	
30									0.14	

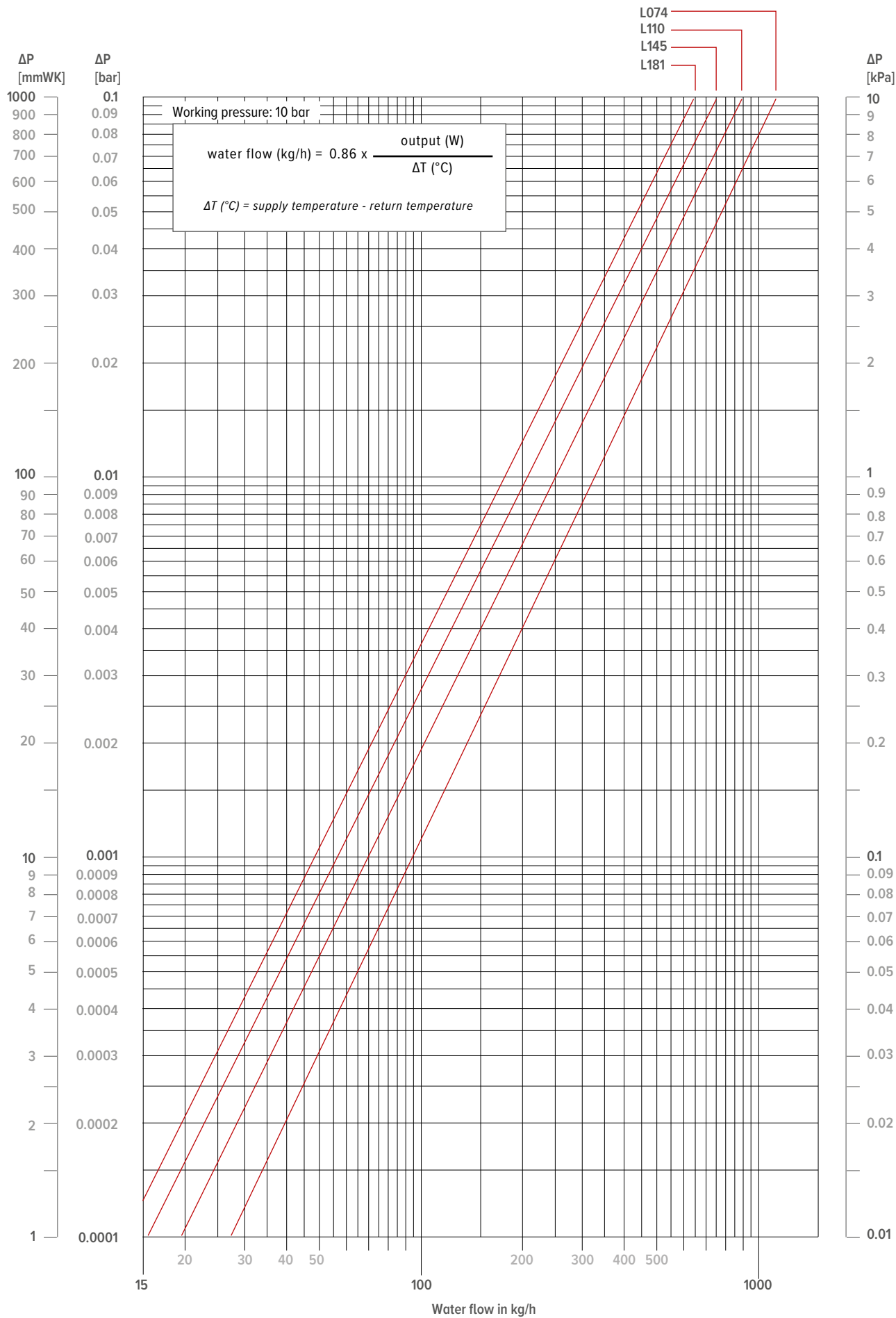
room temperature: 24°C

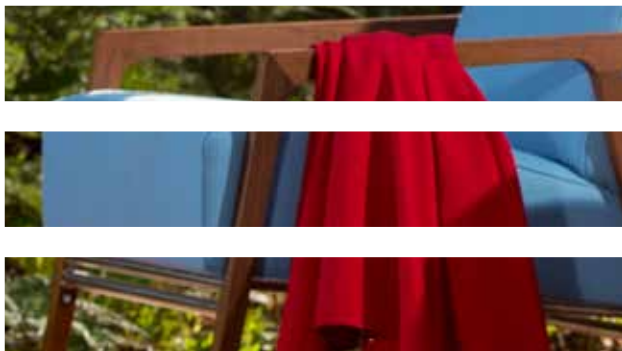
Average N-value: 1.00

	TR	65	60	55	50	45	40	35	30	25
TA										
75	0.92	0.86	0.81	0.74	0.68	0.61	0.52	0.42	0.26	
70	0.87	0.82	0.76	0.70	0.64	0.57	0.49	0.39	0.24	
65		0.77	0.72	0.66	0.60	0.53	0.46	0.37	0.22	
60			0.67	0.62	0.56	0.49	0.42	0.34	0.20	
55				0.57	0.52	0.46	0.39	0.31	0.18	
50					0.47	0.41	0.35	0.27	0.15	
45						0.37	0.31	0.24	0.13	
40							0.27	0.20	0.11	
35								0.17	0.08	
30									0.06	

GUIDELINE FOR LIMITING FLOW NOISE

TUBE	outer Ø	Wall thick- ness	Max. water speed (EN10255)	water content per metre	max. water flow	Maximum power at ΔT (° C) (T supply - T return)						
						ΔT 30	ΔT 20	ΔT 10	ΔT 5	ΔT 4	ΔT 3	ΔT 2
						Watts	Watts	Watts	Watts	Watts	Watts	Watts
	mm	mm	m/s	l	kg/h							
GALVANISED PIPE DIN 2440												
3/8 DN10 OD	17.2	2.35	0.40	0.12	173	6028	4019	2009	1005	804	603	402
1/2 DN15 OD	21.3	2.65	0.40	0.20	288	10046	6698	3349	1674	1340	1005	670
3/4 DN20 OD	26.9	2.65	0.42	0.37	559	19515	13010	6505	3253	2602	1952	1301
1 DN25 OD	33.7	3.25	0.49	0.58	1023	35690	23793	11897	5948	4759	3569	2379
1 1/4 DN32 OD	42.4	3.25	0.60	1.01	2182	76101	50734	25367	12684	10147	7610	5073
1 1/2 DN40 OD	48.3	3.25	0.66	1.37	3255	113549	75700	37850	18925	15140	11355	7570
2 DN50 OD	60.3	3.65	0.80	2.21	6365	222025	148017	74008	37004	29603	22203	14802
PRECISION METAL TUBE												
10/1	10	1.00	0.40	0.05	72	2512	1674	837	419	335	251	167
12/1	12	1.00	0.40	0.08	115	4019	2679	1340	670	536	402	268
14/1	14	1.00	0.40	0.11	158	5526	3684	1842	921	737	553	368
15/1	15	1.00	0.40	0.13	187	6530	4353	2177	1088	871	653	435
16/1	16	1.00	0.40	0.15	216	7535	5023	2512	1256	1005	753	502
18/1	18	1.00	0.40	0.20	288	10046	6698	3349	1674	1340	1005	670
22/1	22	1.00	0.40	0.31	446	15572	10381	5191	2595	2076	1557	1038
28/1	28	1.00	0.47	0.53	904	31522	21014	10507	5254	4203	3152	2101
RPE/ALU												
12/2	12	2.00	0.40	0.05	72	2512	1674	837	419	335	251	167
14/2	14	2.00	0.40	0.08	115	4019	2679	1340	670	536	402	268
16/1.5	16	1.50	0.40	0.13	187	6530	4353	2177	1088	871	653	435
16/2	16	2.00	0.40	0.11	158	5526	3684	1842	921	737	553	368
17/2	17	2.00	0.40	0.13	187	6530	4353	2177	1088	871	653	435
18/2	18	2.00	0.40	0.15	216	7535	5023	2512	1256	1005	753	502
20/2	20	2.00	0.40	0.20	288	10046	6698	3349	1674	1340	1005	670
26/3	26	3.00	0.40	0.31	446	15572	10381	5191	2595	2076	1557	1038
32/3	32	3.00	0.47	0.53	904	31522	21014	10507	5254	4203	3152	2101
40/3.5	40	3.50	0.56	0.86	1726	60220	40147	20073	10037	8029	6022	4015
50/4.25	50	4.25	0.66	1.35	3206	111824	74549	37275	18637	14910	11182	7455
63/5	63	5.00	0.80	2.21	6346	221359	147573	73786	36893	29515	22136	14757





JAGA INTERNATIONAL JAGA NV

In need of some advice? Make an appointment at the Jaga Advice Centre.

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