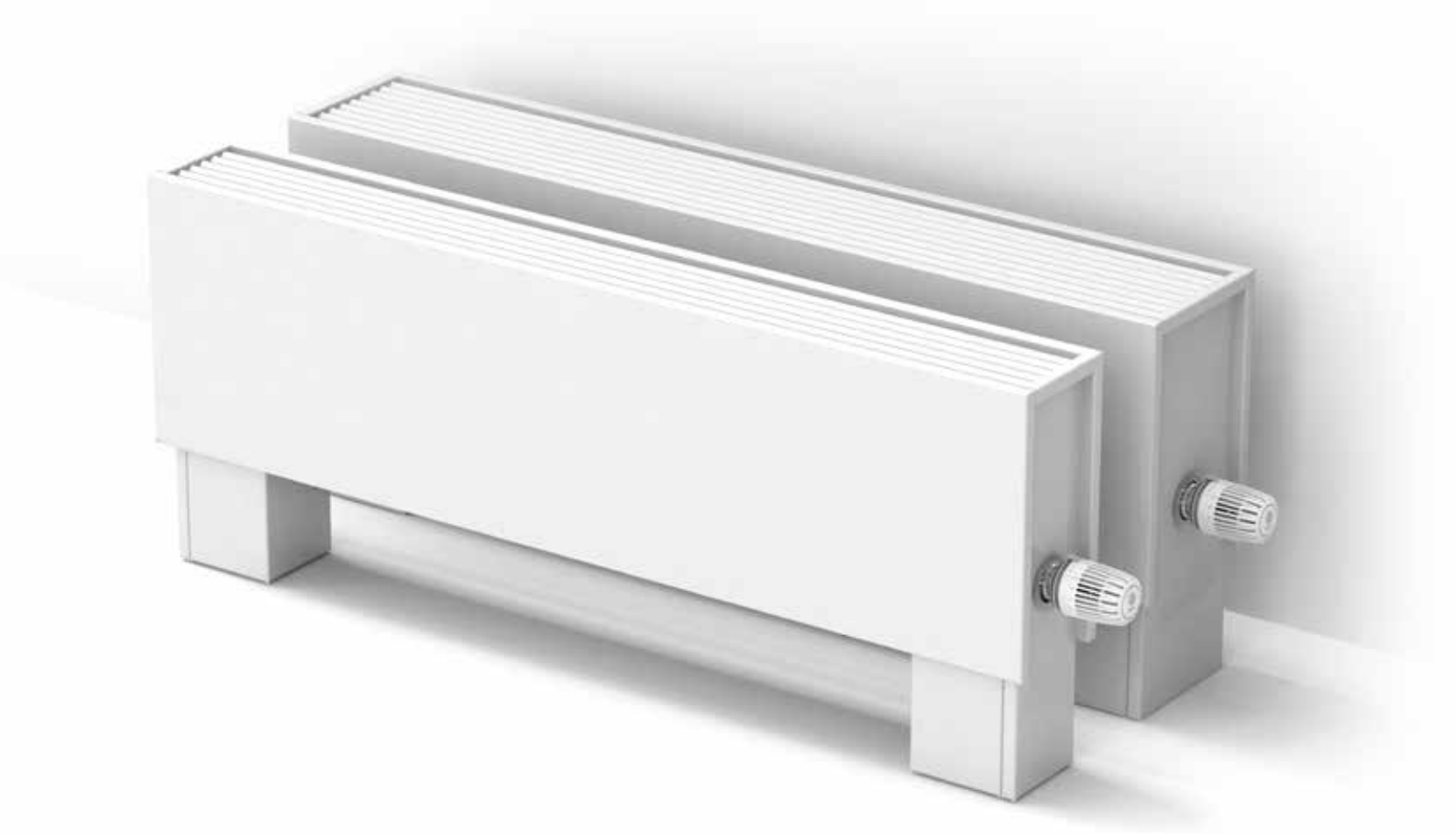
jaga

CLIMATE DESIGNERS

MINI FREESTANDING HYBRID

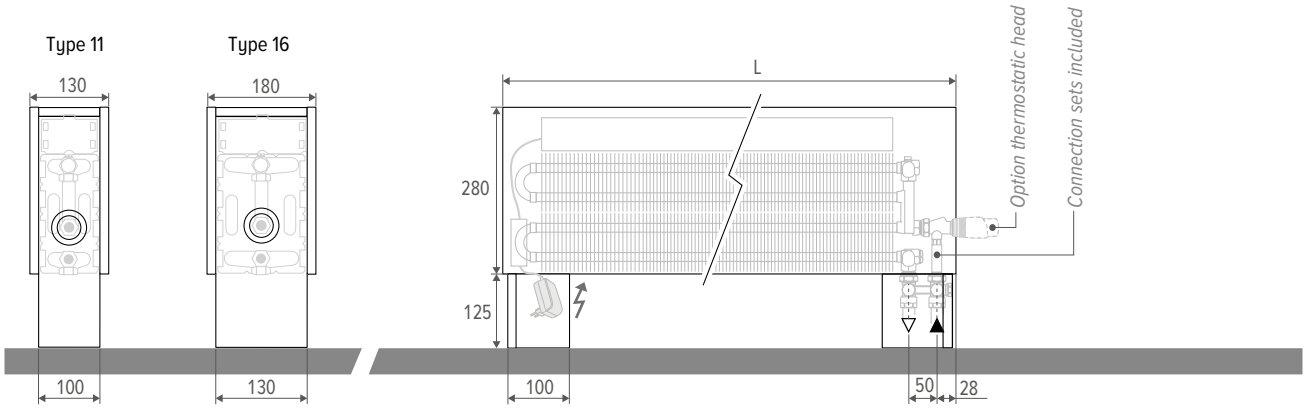
EXPORT@JAGA.BE +32 (0) 11 29 41 12

MINI FREESTANDING HYBRID



MINI FREESTANDING HYBRID

DIMENSIONS *(in mm)*



STANDARD DELIVERY

- pre-assembled radiator on integrated feet, consisting of a one piece casing, feet with pipe guard, DBH set incl. operation, control and power supply 12 VDC.
- Low-H2O heat exchanger
- removable grille
- Jaga thermostatic H-valve and sleeve couplings. Connections 3/4" Eurocone in the foot, left or right.
- air bleed valve 1/8"
- collar in stainless steel effect for the connection side
- fixed feet: height 12,5 cm

COLOURS

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

Standard colours

- traffic white RAL 9016 (133), soft touch lightly structured satin lacquer
- sandblast grey (001), fine texture metallic lak
- off-black (145), soft touch lightly-textured satin lacquer

Other colours

see Jaga colour chart.
Surcharge depends on the length of the unit:

- Length < 100 cm
- Length of 100 cm to 200 cm
- Length > 200 cm

SLEEVE COUPLING CODE

PRECISION METAL TUBE		SYNTHETIC OR RPE/ALU	
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	**620**	20/2
		615	15/2.5
		619	16/1.5

SURCHARGE THERMOSTATIC HEAD:

THERMOSTATIC HEAD		
AC		Heating
AS		Heating
AW		Heating
AB		Heating
JW		Heating
JH		Heating
HC		Heating and cooling
MA		Heating and cooling

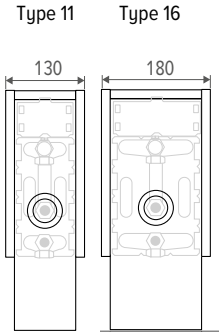
ORDER CODE

MIFH 028 081 11 XXX F TT KKK

- KKK — Sleeve coupling
- TT — Thermostatic head
- F — Connector block: - C (Crossflow H-block) - S (H-block)
- XXX — Colour
- 11 — Type
- 081 — Length

MINI FREESTANDING HYBRID

HEIGHT 028



HEIGHT H cm	LENGTH L cm	TYPE T	POSITION	COOLING (non-condensing) Room temperature 27°C 16/18 Watts	HEATING Room temperature 20°C 35/30 Watts	45/40 Watts	50/45 Watts	55/45 Watts	SOUND PRESSURE LEVEL dB(A)	POWER CONSUMPTION Watts	WEIGHT kg	WATER CONTENT L	ORDER CODE
MIFH 028	**081**	**11**	1	276	355	684	854	933	26	6.3		1.1	MIFH 028 081 11 XXX X 00 XXX
			2	296	381	735	918	1002	30	6.8			
			3	358	460	887	1107	1210	41.8	9.1			
		16	1	312	439	847	1058	1155	26	6.0		1.6	MIFH 028 081 16 XXX X 00 XXX
			2	335	471	908	1134	1239	30	6.7			
			3	450	632	1219	1522	1663	42.4	9.0			
	101	**11**	1	358	460	887	1107	1210	26	7.8		1.3	MIFH 028 101 11 XXX X 00 XXX
			2	385	495	955	1193	1303	30	8.7			
			3	473	608	1173	1465	1600	43.0	12.2			
		16	1	403	566	1092	1363	1490	26	7.0		2.0	MIFH 028 101 16 XXX X 00 XXX
			2	431	606	1169	1460	1595	30	7.7			
			3	595	836	1612	2013	2199	44.1	10.7			
	121	**11**	1	437	562	1084	1354	1479	26	8.9		1.6	MIFH 028 121 11 XXX X 00 XXX
			2	473	607	1171	1463	1598	30	9.9			
			3	589	756	1459	1822	1990	44.0	14.8			
		16	1	496	698	1346	1681	1836	26	8.7		2.4	MIFH 028 121 16 XXX X 00 XXX
			2	532	747	1441	1800	1966	30	9.8			
			3	740	1039	2005	2504	2735	44.8	14.3			
	141	**11**	1	515	662	1277	1595	1743	26	10.1		1.9	MIFH 028 141 11 XXX X 00 XXX
			2	558	717	1384	1728	1888	30	11.2			
			3	704	905	1745	2179	2380	44.8	17.5			
		16	1	589	827	1596	1993	2177	26	9.6		2.8	MIFH 028 141 16 XXX X 00 XXX
			2	630	886	1709	2134	2332	30	10.5			
			3	885	1243	2398	2995	3272	45.4	14.4			
	181	**11**	1	675	867	1673	2090	2283	26	12.2		2.4	MIFH 028 181 11 XXX X 00 XXX
			2	733	942	1816	2269	2478	30	13.7			
			3	935	1201	2317	2893	3161	46.0	22.0			
		16	1	686	1042	2010	2511	2743	26	11.5		3.6	MIFH 028 181 16 XXX X 00 XXX
			2	733	1113	2147	2681	2929	30	12.8			
			3	1045	1586	3060	3821	4175	46.4	19.6			
	241	**11**	1	877	1127	2174	2715	2967	26	14.8		3.2	MIFH 028 241 11 XXX X 00 XXX
			2	961	1235	2382	2975	3250	30	16.6			
			3	1281	1646	3175	3965	4331	47.2	28.0			
		16	1	1059	1488	2871	3585	3917	26	16.4		4.8	MIFH 028 241 16 XXX X 00 XXX
			2	1098	1543	2975	3716	4060	30	17.7			
			3	1610	2262	4364	5450	5954	48.1	29.7			

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

enter code connector block

enter code thermostatic head

fill in sleeve coupling code

jaga

CORRECTION FACTORS

The indicated outputs at ΔT 50 are exact values, measured in accordance with EN442. 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 FOR HYBRID PRODUCTS - 75/65/20°C

room temperature: 20°C — **Average N-value: 1.10**

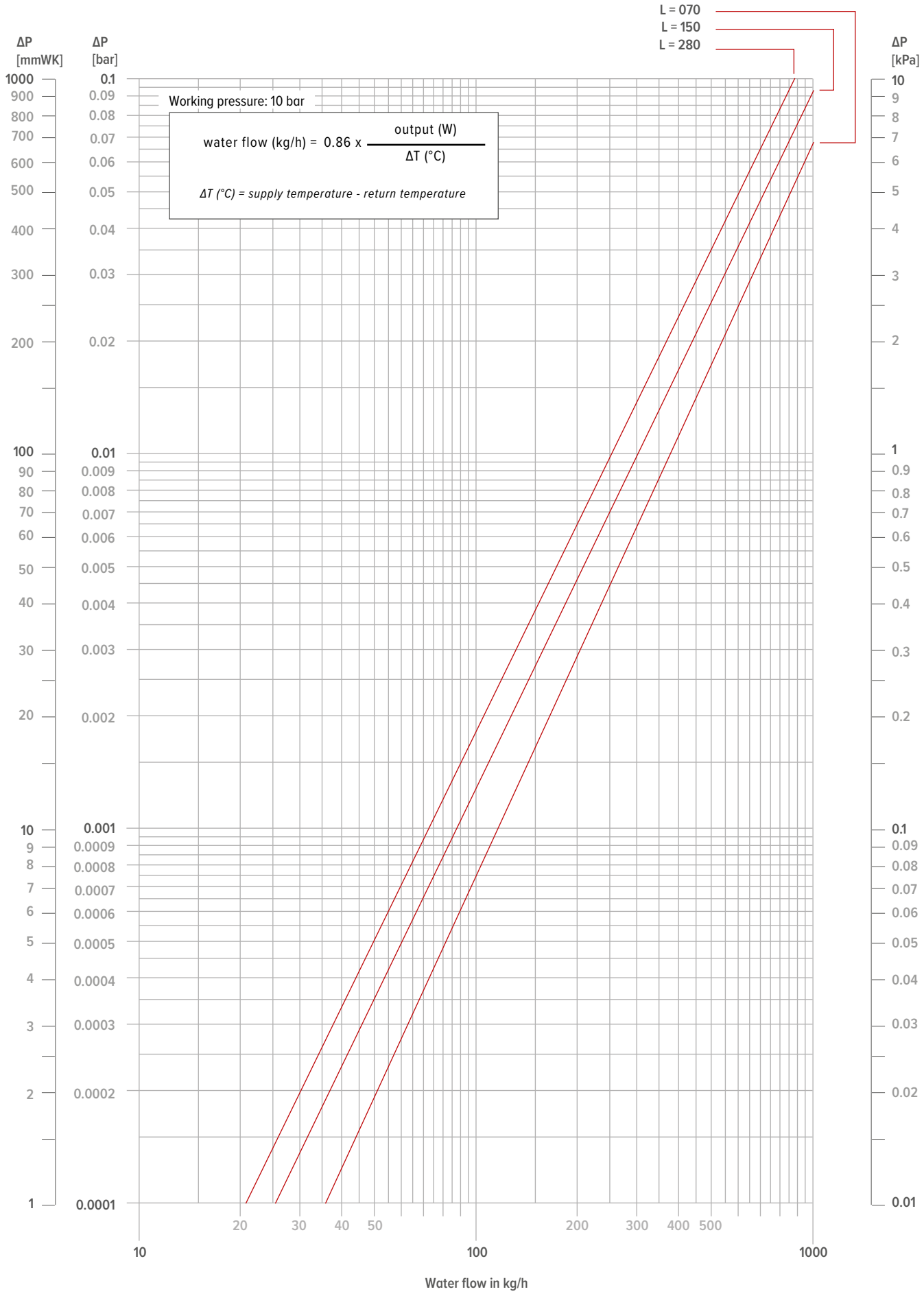
TR	65	60	55	50	45	40	35	30	25
TA									
75	1.00	0.94	0.88	0.81	0.74	0.67	0.59	0.50	0.38
70	0.95	0.89	0.83	0.77	0.70	0.63	0.55	0.47	0.36
65		0.84	0.78	0.72	0.66	0.59	0.52	0.43	0.33
60			0.73	0.67	0.61	0.55	0.48	0.40	0.30
55				0.62	0.57	0.51	0.44	0.37	0.28
50					0.52	0.46	0.40	0.33	0.25
45						0.42	0.36	0.29	0.22
40							0.31	0.26	0.19
35								0.22	0.15
30									0.12

room temperature: 24°C — **Average N-value: 1.10**

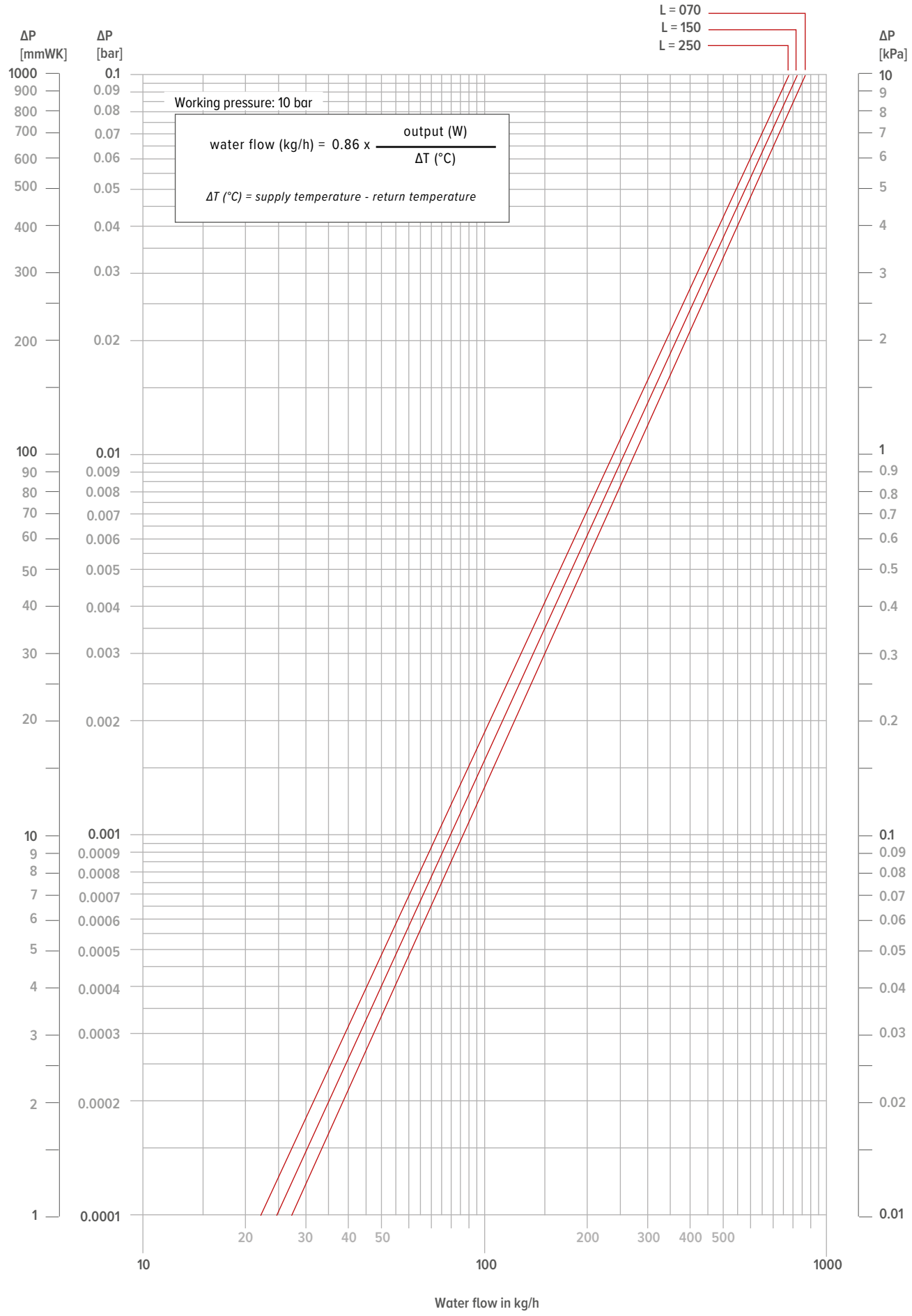
TR	65	60	55	50	45	40	35	30	25
TA									
75	0.91	0.85	0.79	0.72	0.65	0.58	0.49	0.39	0.22
70	0.86	0.80	0.74	0.68	0.61	0.54	0.46	0.36	0.20
65		0.75	0.69	0.63	0.57	0.50	0.42	0.33	0.19
60			0.64	0.59	0.53	0.46	0.39	0.30	0.17
55				0.54	0.48	0.42	0.35	0.27	0.15
50					0.44	0.38	0.32	0.24	0.13
45						0.33	0.28	0.21	0.11
40							0.23	0.17	0.09
35								0.14	0.07
30									0.04

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
	mm	*mm*	*m/s*	*l*	*kg/h*	*Watts*	*Watts*	*Watts*	*Watts*	*Watts*	*Watts*	*Watts*
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


L = 070
L = 150
L = 280
ΔP [mmWK]
ΔP [bar]
ΔP [kPa]
Working pressure: 10 bar
water flow (kg/h) = 0.86 x output (W) / ΔT (°C)
ΔT (°C) = supply temperature - return temperature
1000 900 800 700 600 500 400 300 200 100 90 80 70 60 50 40 30 20 10 9 8 7 6 5 4 3 2 1
0.1 0.09 0.08 0.07 0.06 0.05 0.04 0.03 0.02 0.01 0.009 0.008 0.007 0.006 0.005 0.004 0.003 0.002 0.001 0.0009 0.0008 0.0007 0.0006 0.0005 0.0004 0.0003 0.0002 0.0001
10 9 8 7 6 5 4 3 2 1 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.09 0.08 0.07 0.06 0.05 0.04 0.03 0.02 0.01
20 30 40 50 200 300 400 500
10 100 1000
Water flow in kg/h

PRESSURE DROP TYPE 16



jaga CLIMATE DESIGNERS

JAGA INTERNATIONAL JAGA NV

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

Verbindingslaan 16
3590 Diepenbeek

+32 (0) 11 29 41 12

export@jaga.be
jaga.com

29/10/2024 - JAGA N.V.