

# jaga

CLIMATE DESIGNERS

Heating



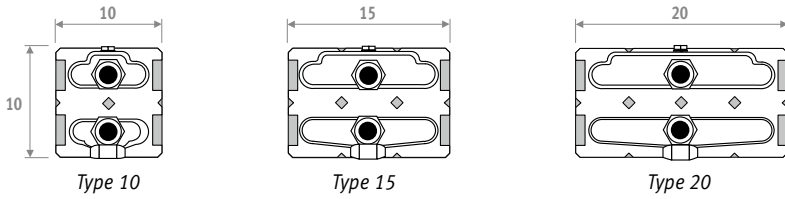
Light cooling



## MINI CANAL HYBRID TECHNICAL INFORMATION



# MINI CANAL HYBRID - OVERVIEW HEAT EXCHANGERS



Weight and water content without packaging or options.

## WEIGHT IN KG/METRE

Width	H 009	011	014	019
14	4.60	5.00	5.70	---
18	5.01	5.42	---	---
26	5.80	6.24	7.77	9.25
34	7.05	7.52	9.51	11.06
42	8.29	8.80	11.28	12.89

Average weight in kg/metre for the complete unit, including frame and grille.

## WATER CONTENT IN LITRE / METRE

Width	H 009	011	014	019
14	0.16	0.16	0.32	---
18	0.32	0.32	---	---
26	0.32	0.32	0.65	0.65
34	0.48	0.48	0.98	0.98
42	0.66	0.66	1.32	1.32

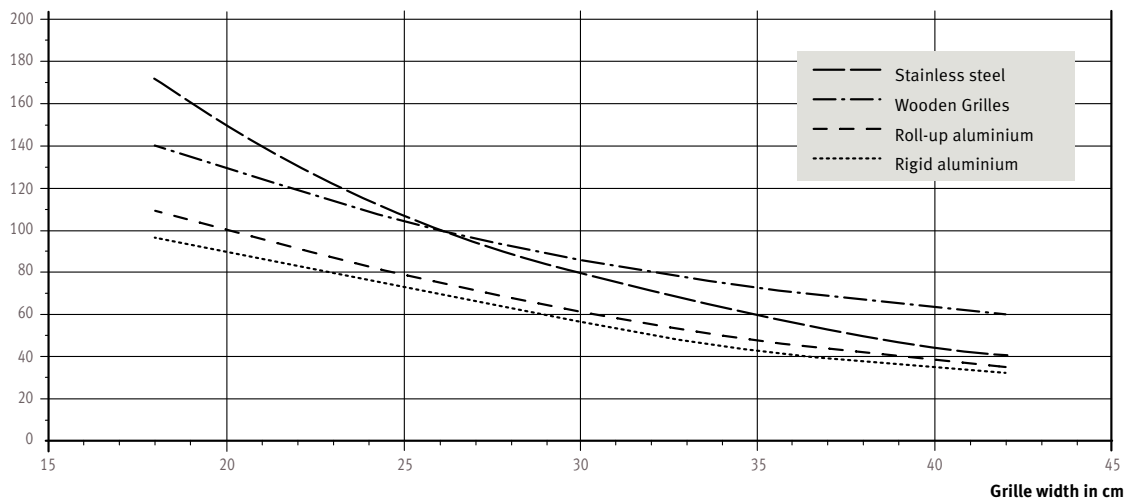
## GRILLES WEIGHT IN KG/METRE

Finish	Width	12.8	16.8	24.8	32.8	40.8
	Width duct	14	18	26	34	42
- Roll-up Designo merbau/merbau varnished		2.18	3.00	3.52	3.98	4.67
- Roll-up Designo oak/oak varnished		1.59	2.03	2.69	3.34	3.90
- Roll-up Designo beech/beech varnished		1.50	1.90	2.50	3.10	3.60
- Roll-up merbau/merbau varnished		2.15	2.70	3.03	3.35	4.05
- Roll-up oak/oak varnished		1.48	1.71	2.15	2.61	3.12
- Roll-up beech/beech varnished		1.40	1.60	2.00	2.42	2.88
- Roll-up alu natural/black/brown/brass		1.21	1.38	2.07	2.76	3.45
- Roll-up stainless steel		2.18	2.86	4.22	5.58	6.94
- Rigid Designo alu natural/black/brown/brass/lacquered		1.60	2.10	3.20	4.10	5.00
- Rigid alu natural/black/brown/brass/lacquered		1.55	2.20	2.50	3.15	3.75

## MAXIMUM GRILLE LOADINGS

- **Roll-up wood and aluminium grille:** concentrated load in kg in the centre of the grille up to 2 mm deflection.
- **Rigid grilles:** concentrated load in the centre of the transverse section up to 2 mm deflection.

Concentrated load in kg



# CORRECTION FACTORS HYBRID

The indicated outputs with  $\Delta T$  50 and  $\Delta T$  30 are the exact outputs.  $\Delta T$  50 output measured in accordance with EN442 and  $\Delta T$  30 output calculated according to EN442. An average correction factor is given in this table for all other  $\Delta T$  outputs, applicable for all dimensions.

At [www.jaga.com/downloads/selectiontools](http://www.jaga.com/downloads/selectiontools) you can 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

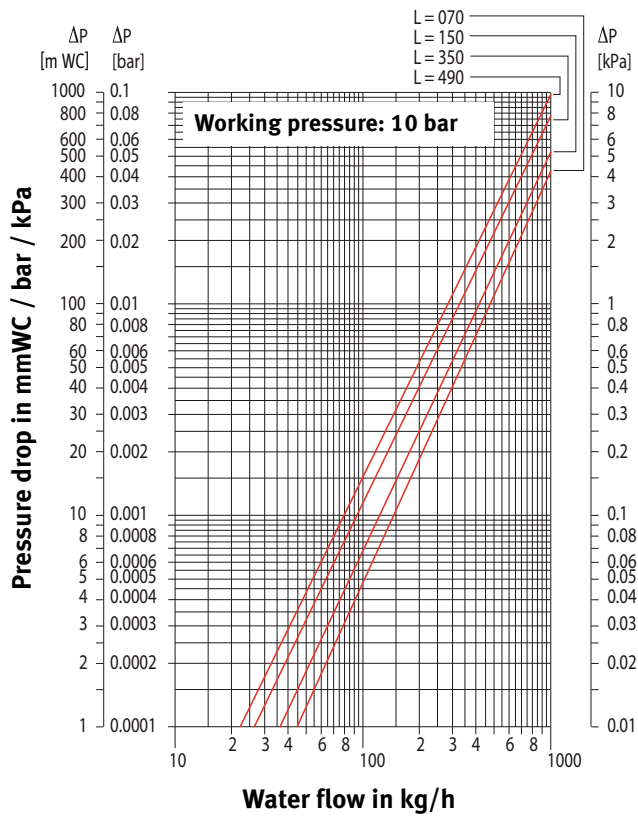
Room temperature: 20°C										Room temperature: 24°C									
Average N-value: 1.10										Average N-value: 1.10									
Tr	65	60	55	50	45	40	35	30	25	Tr	65	60	55	50	45	40	35	30	25
Ta										Ta									
75	1.00	0.94	0.88	0.81	0.74	0.67	0.59	0.50	0.38	75	0.91	0.85	0.79	0.72	0.65	0.58	0.49	0.39	0.22
70	0.95	0.89	0.83	0.77	0.70	0.63	0.55	0.47	0.36	70	0.86	0.80	0.74	0.68	0.61	0.54	0.46	0.36	0.20
65		0.84	0.78	0.72	0.66	0.59	0.52	0.43	0.33	65		0.75	0.69	0.63	0.57	0.50	0.42	0.33	0.19
60			0.73	0.67	0.61	0.55	0.48	0.40	0.30	60			0.64	0.59	0.53	0.46	0.39	0.30	0.17
55				0.62	0.57	0.51	0.44	0.37	0.28	55				0.54	0.48	0.42	0.35	0.27	0.15
50					0.52	0.46	0.40	0.33	0.25	50					0.44	0.38	0.32	0.24	0.13
45						0.42	0.36	0.29	0.22	45						0.33	0.28	0.21	0.11
40							0.31	0.26	0.19	40							0.23	0.17	0.09
35								0.22	0.15	35								0.14	0.07
30									0.12	30									0.04

## RECOMMENDED MAXIMUM WATER FLOW DEPENDING ON THE PIPE DIAMETER AT A MAX. WATER FLOW OF 0.4 M / S

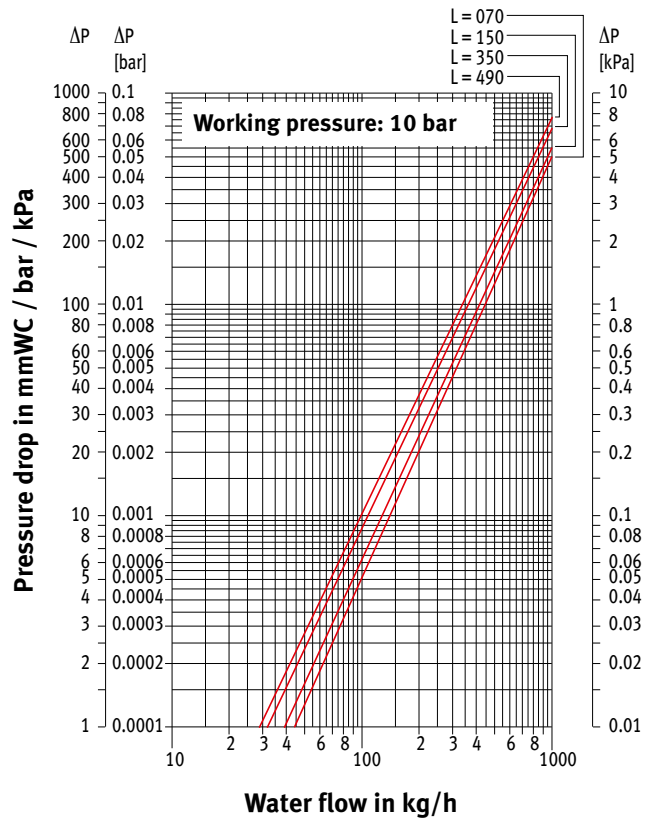
Tube	Outer Ø mm	Wall thickness mm	Maximum flow kg/h	Maximum power at $\Delta T$ (° C) (T supply - T return))				
				$\Delta T$ 2	$\Delta T$ 5	$\Delta T$ 10	$\Delta T$ 20	$\Delta T$ 30
				Watt	Watt	Watt	Watt	Watt
10/1	10.0	1.0	72	168	421	841	1682	2524
12/1	12.0	1.0	113	263	657	1314	2629	3943
12/2	12.0	2.0	72	168	421	841	1682	2524
14/1	14.0	1.0	163	379	946	1893	3785	5678
14/2	14.0	2.0	113	263	657	1314	2629	3943
15/1	15.0	1.0	191	444	1111	2221	4443	6664
16/1	16.0	1.0	222	515	1288	2576	5152	7729
16/1.5	16.0	1.5	191	444	1111	2221	4443	6664
16/2	16.0	2.0	163	379	946	1893	3785	5678
16/2.2	16.0	2.2	152	354	884	1769	3537	5306
17/2	17.0	2.0	191	444	1111	2221	4443	6664
3/8"	17.1	3.2	129	301	752	1505	3010	4515
18/1	18.0	1.0	289	673	1682	3365	6730	10095
18/2	18.0	2.0	222	515	1288	2576	5152	7729
20/2	20.0	2.0	289	673	1682	3365	6730	10095
1/2"	21.3	3.7	217	504	1259	2518	5035	7553
26/3	26.0	3.0	452	1052	2629	5258	10515	15773

# MINI CANAL HYBRID - PRESSURE DROP

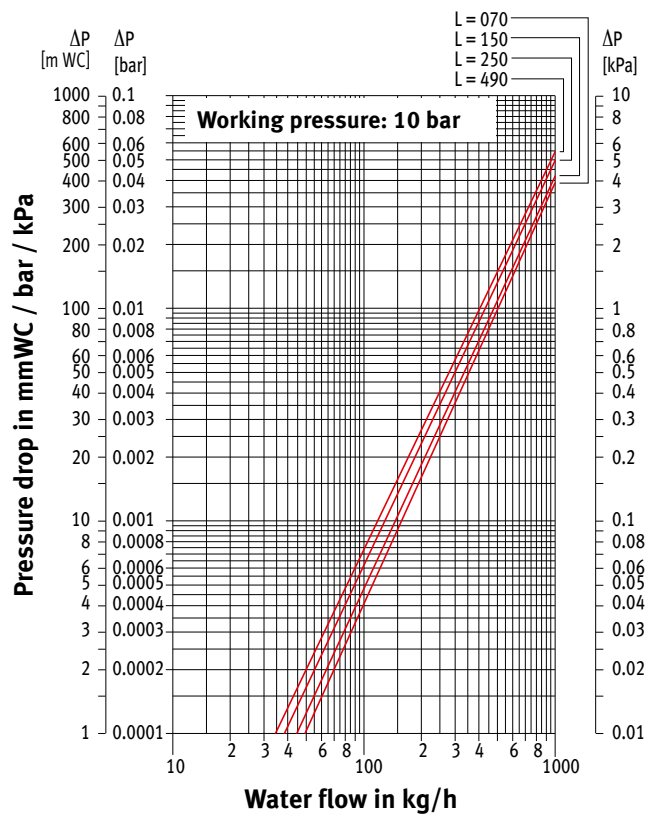
## PRESSURE DROP TYPE 10



## PRESSURE DROP TYPE 15



## PRESSURE DROP TYPE 20





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All prices in Euro, exclude VAT. Prices valid from February 1, 2021.  
Replaces all existing price lists.