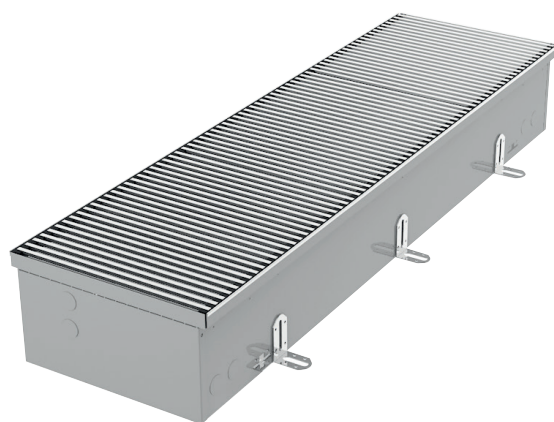


Minimum installation depth



For spaces with large windows, glazed façades, conservatories, display windows and offices.

Shallow heating where you need it. With a minimum recess depth of just 9 cm, the Mini Canal PRO trench solution offers maximum heat, making it the perfect solution for buildings with multiple floors or floating / raised floors. Of course there are also larger Mini Canal Pro units (12-15-20 cm) with a larger heating element and higher heating capacity. Equipped with Jaga's Low-H₂O technology, it can be topped with a variety of grille options, including wood finishes and designer styles.

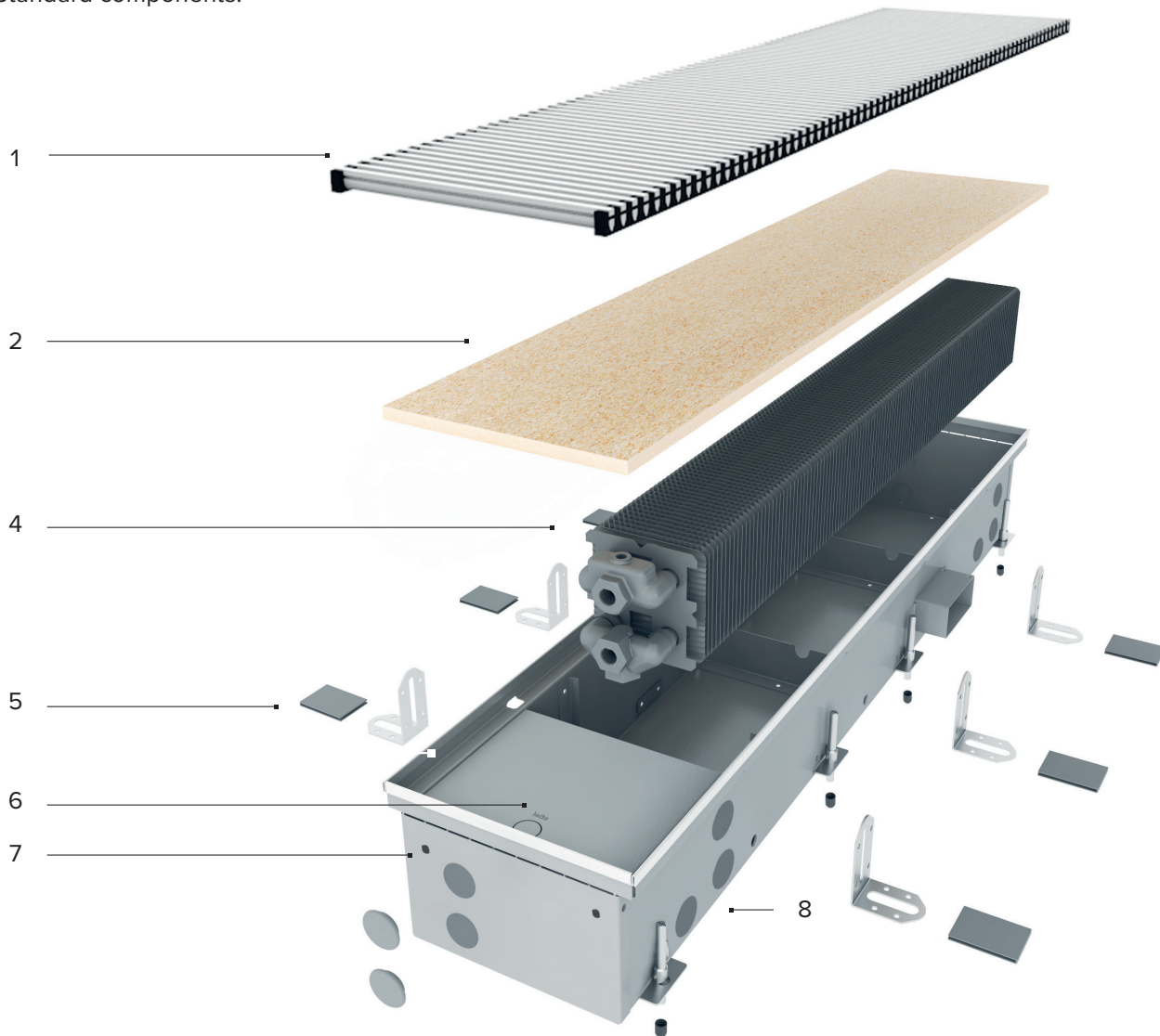




Example: BNA Aluminum Panel grille

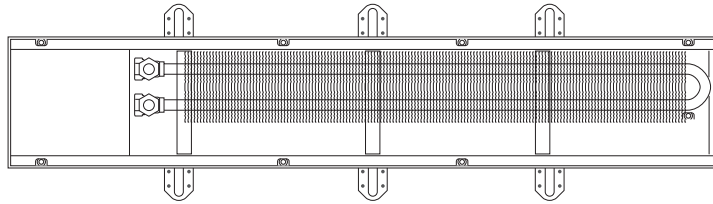
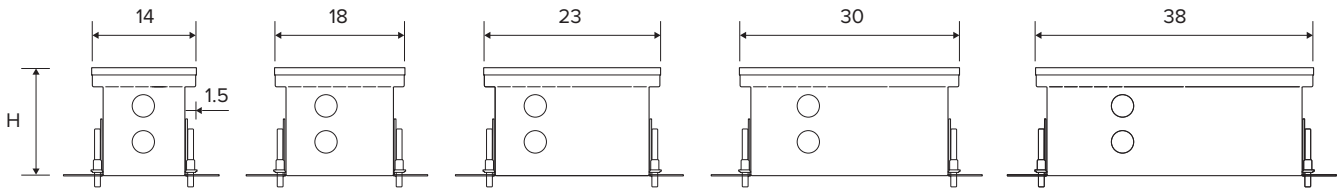
Index		Pagie	
Technical information	Standard components	4	
	Dimensions	5	
Grilles	BNA Aluminum Panel grille / Roll-up wooden grille	6	
	Aluminium grilles	7	
Outputs in Watt	Output H09 55/45/20°C	8	
	Output H09 75/65/20°C	9	
	Output H12 55/45/20°C	10	
	Output H12 75/65/20°C	11	
	Output H15 55/45/20°C	12	
	Output H15 75/65/20°C	13	
	Output H20 55/45/20°C	14	
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	Low-H2O heat exchanger:	Type of heat exchanger per appliance	16
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Pressure drop		18	
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Opties	Valve sets	20	
	JRT-300 Jaga room thermostat:	21	
	3-sided insulation / Insulated bottom	22	
	Acoustic intermediate module / Flexible connections / Simple height control	23	
	Specification text	24	

Standard components:

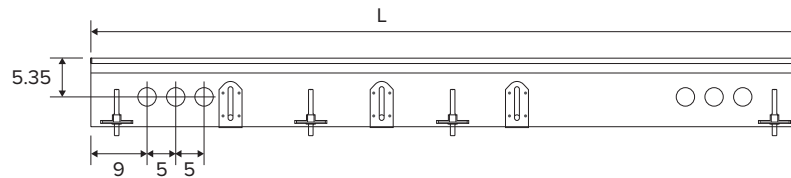
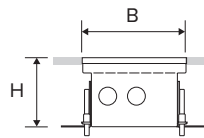


- 1 Example: with BNA panel grille with EPDM grid support. Grids are available in different designs and colours, in anodised aluminium and various types of wood, see page 4/5.
- 2 Cover plate in fibreboard, thickness 22 mm. Protects the duct against contamination and damage during construction works.
- 3 Low-H₂O heat exchanger, made of copper and aluminium, electrostatic lacquered with anthracite grey epoxy-polyester RAL 7024. 30 Year warranty on the heat exchanger.
- 4 Casing in Sendzimir galvanized steel plate of 1 mm thick, provided with anthracite grey epoxy-polyester RAL 7024.
- 5 Simple height control (0 <> 45 mm) for uneven sub-floors. Provided with acoustic decoupling.
- 6 Metal cover to shield the hydraulic connections, provided with anthracite grey epoxy-polyester RAL 7024
- 7 The head piece is removable for easy mutual coupling of the convector ducts
- 8 The casing has pre-perforated holes to lead through the hydraulic tubes

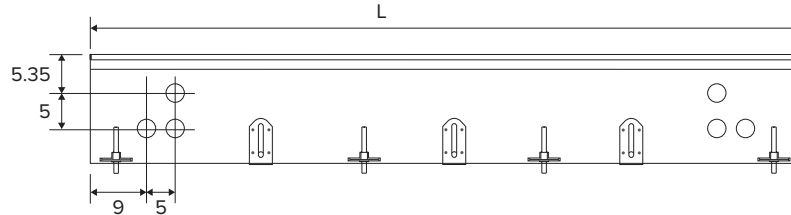
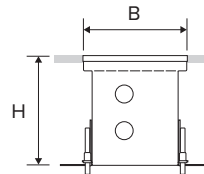
Dimensions:



H 9 / 12



H 15 / 20



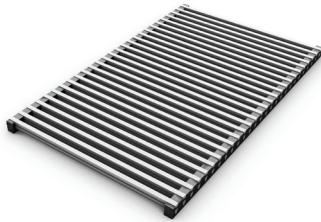
Dimensions:

	H 09	H 12	H 15	H 20
Width (cm)	14	14	14	-
	18	18	18	-
	23	23	23	23
	30	30	30	30
	38	38	38	38
Length (cm)	70 / 80 / 90 / 100 / 110 / 120 / 130 / 150 / 170 / 190 / 210 / 230 / 250 / 270 / 290 / 310 / 330 / 350 / 370 / 390 / 410 / 430 / 450 / 470 / 490			
Height adjustment	(0 <> 45 mm) with sound decoupling.			

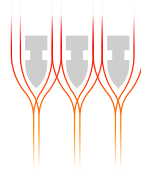
ATTENTION: when placing an order without a grid, must a choice be made between NGFS (no grid - rigid frame, height 24 mm) and NGFB (no grid - frame BNA, height 16.5 mm).

BNA Grille

BNA Aluminum Panel grille

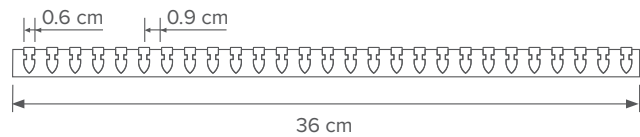


BNA Alu. nature
BNC/XXX Alu
laquered



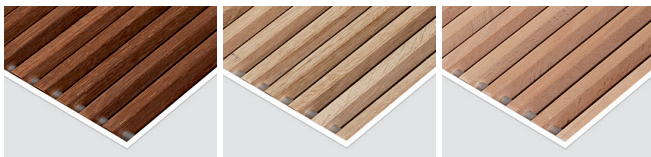
- grille width (B) = width of shaft - 6 mm
- grille length (L) = length of shaft - 2 mm

- grille support: EPDM hardness 85 (has a sound-absorbing effect)
- ideal for continuous installation
- designed to facilitate maintenance of the appliance (panel grilles).
- finish in aluminium natural or lacquered (see Jaga colour assortment)
- aerodynamically shaped profiles.



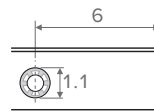
Roll-up grilles

Roll-up wooden grille Designo model

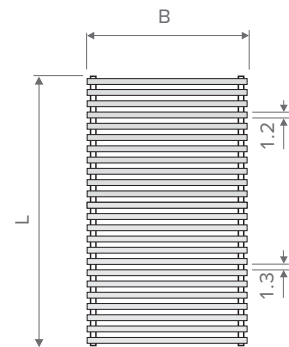


DMN Merbau DMV varnished DON Oak DOV varnished DBN Beech DBV varnished

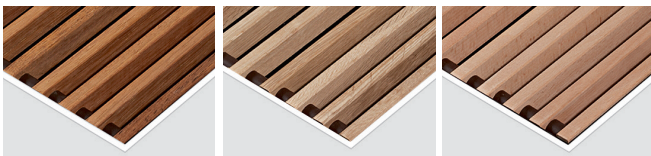
- roll-up natural or wooden varnished grille, Designo model with reduced slat spacing and natural colour anodized aluminium spacers.
- free air flow: 52%
- output correction factor: 0.93



- grille width (B) = width of shaft - 6 mm
- grille length (L) = length of shaft - 2 mm

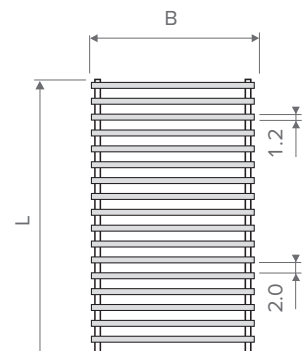
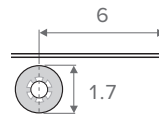


Roll-up wooden grille



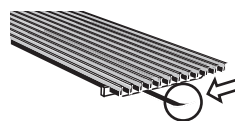
RMN Merbau RMV varnished RON Oak ROV varnished RBN Beech RBV varnished

- roll-up natural or varnished wooden grille, with dark brown coloured synthetic spacers.
- free air flow: 63%
- Output correction factor: 0.97



CONTACT STRIP (not needed for BNA grille)

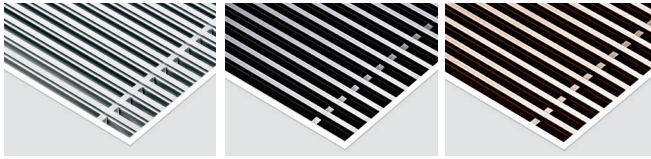
- for aluminium and wood grilles (not for stainless steel)
- Length 6 meter
- black adhesive rubber strip, thickness 0.5 mm.
- to avoid contact noises..
- order the number of rolls required according to the circumference of the frame: $(B + L) \times 2$.



CODE.: 7690.02

Aluminum grilles:

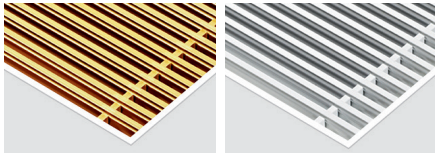
Designo rigid aluminium grilles



DNA
natural aluminium

DBL
black

DDB
dark brown

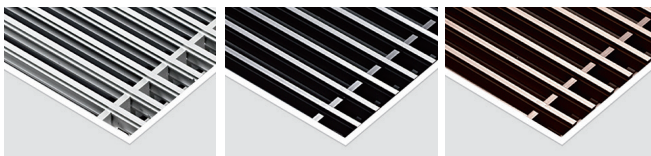


DBR
brass coloured

DNC/XXX
(alu) lacquered

- rigid anodized aluminium grille, Designo model with reduced slat spacing.
- free air flow: 62.5%
- output correction factor: 0.97

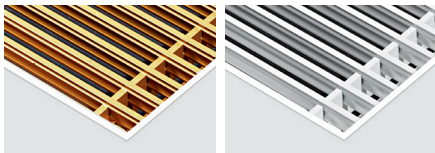
Aluminium rigid grilles



SNA
natural aluminium

SBL
black

SDB
dark brown

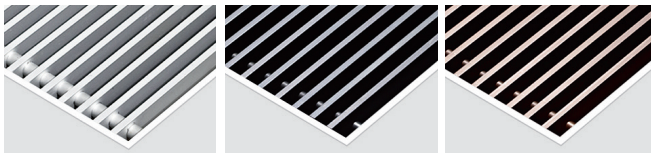


SBR
brass coloured

SNC/XXX
(alu) lacquered

- rigid anodized aluminium grille.
- free air flow: 75%

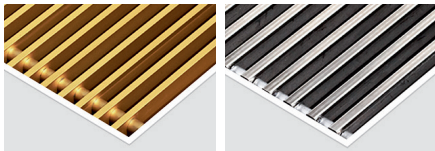
Roll-up anodized aluminium grille / Roll-up grille in high grade stainless steel .



RNA
natural aluminium

RBL
black

RDB
dark brown

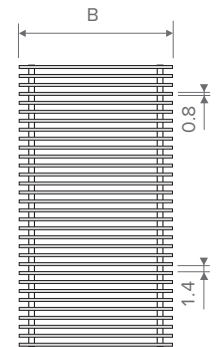
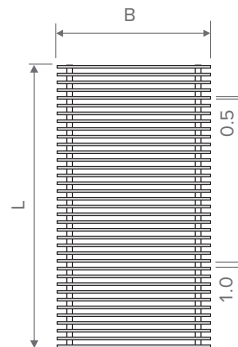
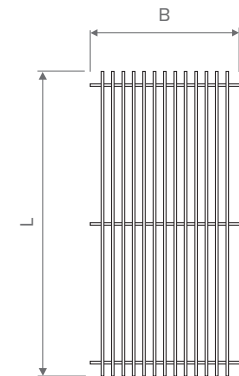
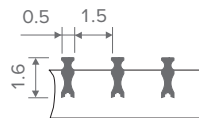
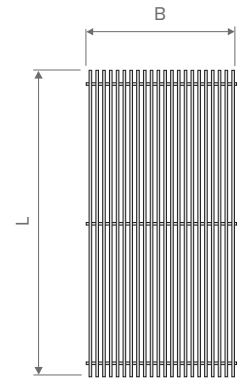
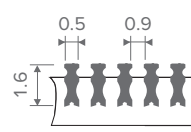


RBR
brass coloured

RSS
(alu) lacquered

- roll-up anodized aluminium grille
- free air flow: 70%
- no correction factor to apply on the output.
- RSS roll-up grille in high grade stainless steel 1.4301
- free air flow : 60%
- output correction factor : 0.96

- grille width (B)= width of shaft - 6 mm
- grille length (L) = length of shaft - 2 mm



LENGTH	HOOGTE	B14		B18		B23		B30		B38	
		HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow
		55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]
70	9	42	2	54	2	66	3	87	4	115	5
80	9	52	2	68	3	83	4	109	5	143	6
90	9	63	3	82	4	99	4	130	6	172	7
100	9	73	3	95	4	116	5	152	7	200	9
110	9	84	4	109	5	132	6	174	7	229	10
120	9	94	4	123	5	149	6	196	8	258	11
130	9	105	5	136	6	165	7	217	9	286	12
150	9	126	5	163	7	198	9	261	11	344	15
170	9	147	6	191	8	231	10	304	13	401	17
190	9	168	7	218	9	264	11	348	15	458	20
210	9	189	8	245	11	297	13	391	17	515	22
230	9	209	9	272	12	330	14	435	19	573	25
250	9	230	10	300	13	363	16	478	21	630	27
270	9	251	11	327	14	396	17	522	22	687	30
290	9	272	12	354	15	429	18	565	24	744	32
310	9	293	13	381	16	462	20	609	26	802	34
330	9	314	14	408	18	495	21	652	28	859	37
350	9	335	14	436	19	528	23	696	30	916	39
370	9	356	15	463	20	561	24	739	32	973	42
390	9	377	16	490	21	594	26	783	34	1031	44
410	9	398	17	517	22	627	27	826	36	1088	47
430	9	419	18	545	23	660	28	870	37	1145	49
450	9	440	19	572	25	693	30	913	39	1202	52
470	9	461	20	599	26	726	31	957	41	1260	54
490	9	482	21	626	27	759	33	1000	43	1317	57

Measured according to EN 16430.

Use our calculation tool for other system temperatures.

LENGTH	HOOGTE	B14		B18		B23		B30		B38	
		HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow
		55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]
(cm)	(cm)										
70	9	84	7	109	9	132	11	174	15	230	20
80	9	105	9	137	12	166	14	218	19	287	25
90	9	126	11	164	14	199	17	262	22	344	30
100	9	147	13	191	16	232	20	305	26	402	35
110	9	168	14	218	19	265	23	349	30	459	39
120	9	189	16	246	21	298	26	392	34	517	44
130	9	210	18	273	23	331	28	436	37	574	49
150	9	252	22	328	28	397	34	523	45	689	59
170	9	294	25	382	33	463	40	610	52	804	69
190	9	336	29	437	38	530	46	698	60	918	79
210	9	378	33	491	42	596	51	785	67	1033	89
230	9	420	36	546	47	662	57	872	75	1148	99
250	9	462	40	601	52	728	63	959	82	1263	109
270	9	504	43	655	56	794	68	1046	90	1378	118
290	9	546	47	710	61	861	74	1134	97	1492	128
310	9	588	51	764	66	927	80	1221	105	1607	138
330	9	630	54	819	70	993	85	1308	112	1722	148
350	9	672	58	874	75	1059	91	1395	120	1837	158
370	9	714	61	928	80	1125	97	1482	127	1952	168
390	9	756	65	983	85	1192	102	1570	135	2066	178
410	9	798	69	1037	89	1258	108	1657	142	2181	188
430	9	840	72	1092	94	1324	114	1744	150	2296	197
450	9	882	76	1147	99	1390	120	1831	157	2411	207
470	9	924	79	1201	103	1456	125	1918	165	2526	217
490	9	966	83	1256	108	1523	131	2006	172	2640	227

Measured according to EN 16430.
Use our calculation tool for other system temperatures.

LENGTH	HOOGTE	B14		B18		B23		B30		B38	
		HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow
		55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]
70	12	45	2	67	3	79	3	110	5	142	6
80	12	57	2	84	4	99	4	138	6	178	8
90	12	68	3	101	4	119	5	165	7	213	9
100	12	80	3	118	5	139	6	193	8	249	11
110	12	91	4	135	6	158	7	220	9	284	12
120	12	102	4	152	7	178	8	248	11	320	14
130	12	114	5	169	7	198	9	275	12	355	15
150	12	136	6	202	9	238	10	330	14	426	18
170	12	159	7	236	10	277	12	385	17	497	21
190	12	182	8	270	12	317	14	440	19	568	24
210	12	205	9	303	13	356	15	496	21	639	27
230	12	227	10	337	14	396	17	551	24	710	31
250	12	250	11	371	16	436	19	606	26	781	34
270	12	273	12	405	17	475	20	661	28	852	37
290	12	296	13	438	19	515	22	716	31	923	40
310	12	318	14	472	20	554	24	771	33	994	43
330	12	341	15	506	22	594	26	826	36	1065	46
350	12	364	16	539	23	634	27	881	38	1136	49
370	12	387	17	573	25	673	29	936	40	1207	52
390	12	409	18	607	26	713	31	991	43	1278	55
410	12	432	19	641	28	752	32	1046	45	1349	58
430	12	455	20	674	29	792	34	1101	47	1420	61
450	12	478	21	708	30	832	36	1156	50	1491	64
470	12	500	22	742	32	871	37	1211	52	1562	67
490	12	523	22	775	33	911	39	1266	54	1633	70

Measured according to EN 16430.

Use our calculation tool for other system temperatures.

LENGTH	HOOGTE	B14		B18		B23		B30		B38	
		HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow
		75/65 [W]	[l/h]	75/65 [W]	[l/h]	75/65 [W]	[l/h]	75/65 [W]	[l/h]	75/65 [W]	[l/h]
70	12	91	8	135	12	159	14	221	19	285	24
80	12	114	10	169	15	199	17	276	24	356	31
90	12	137	12	203	17	238	20	331	28	427	37
100	12	160	14	237	20	278	24	386	33	498	43
110	12	182	16	270	23	318	27	442	38	570	49
120	12	205	18	304	26	357	31	497	43	641	55
130	12	228	20	338	29	397	34	552	47	712	61
150	12	274	24	406	35	476	41	662	57	854	73
170	12	319	27	473	41	556	48	773	66	997	86
190	12	365	31	541	47	635	55	883	76	1139	98
210	12	410	35	608	52	715	61	994	85	1282	110
230	12	456	39	676	58	794	68	1104	95	1424	122
250	12	502	43	744	64	873	75	1214	104	1566	135
270	12	547	47	811	70	953	82	1325	114	1709	147
290	12	593	51	879	76	1032	89	1435	123	1851	159
310	12	638	55	946	81	1112	96	1546	133	1994	171
330	12	684	59	1014	87	1191	102	1656	142	2136	184
350	12	730	63	1082	93	1270	109	1766	152	2278	196
370	12	775	67	1149	99	1350	116	1877	161	2421	208
390	12	821	71	1217	105	1429	123	1987	171	2563	220
410	12	866	74	1284	110	1509	130	2098	180	2706	233
430	12	912	78	1352	116	1588	137	2208	190	2848	245
450	12	958	82	1420	122	1667	143	2318	199	2990	257
470	12	1003	86	1487	128	1747	150	2429	209	3133	269
490	12	1049	90	1555	134	1826	157	2539	218	3275	282

Measured according to EN 16430.
Use our calculation tool for other system temperatures.

LENGTH	HOOGTE	B14		B18		B23		B30		B38	
		HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow
		55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]
70	15	50	4	82	7	123	11	154	13	191	16
80	15	63	5	103	9	153	13	193	17	239	21
90	15	75	6	124	11	184	16	232	20	287	25
100	15	88	8	144	12	215	18	270	23	334	29
110	15	101	9	165	14	245	21	309	27	382	33
120	15	113	10	185	16	276	24	347	30	430	37
130	15	126	11	206	18	307	26	386	33	478	41
150	15	151	13	247	21	368	32	463	40	573	49
170	15	176	15	288	25	429	37	540	46	669	58
190	15	201	17	330	28	491	42	618	53	764	66
210	15	226	19	371	32	552	47	695	60	860	74
230	15	251	22	412	35	613	53	772	66	956	82
250	15	276	24	453	39	675	58	849	73	1051	90
270	15	302	26	494	43	736	63	926	80	1147	99
290	15	327	28	536	46	797	69	1004	86	1242	107
310	15	352	30	577	50	859	74	1081	93	1338	115
330	15	377	32	618	53	920	79	1158	100	1433	123
350	15	402	35	659	57	981	84	1235	106	1529	131
370	15	427	37	700	60	1043	90	1312	113	1624	140
390	15	452	39	741	64	1104	95	1390	119	1720	148
410	15	478	41	783	67	1165	100	1467	126	1815	156
430	15	503	43	824	71	1227	105	1544	133	1911	164
450	15	528	45	865	74	1288	111	1621	139	2007	173
470	15	553	48	906	78	1349	116	1698	146	2102	181
490	15	578	50	947	81	1411	121	1776	153	2198	189

Measured according to EN 16430.

Use our calculation tool for other system temperatures.

LENGTH	HOOGTE	B14		B18		B23		B30		B38	
		HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow
		55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]
(cm)	(cm)										
70	15	101	9	165	14	246	21	310	27	383	33
80	15	126	11	207	18	308	26	387	33	479	41
90	15	151	13	248	21	369	32	464	40	575	49
100	15	176	15	289	25	431	37	542	47	671	58
110	15	202	17	330	28	492	42	619	53	766	66
120	15	227	20	372	32	554	48	697	60	862	74
130	15	252	22	413	36	615	53	774	67	958	82
150	15	302	26	496	43	738	63	929	80	1150	99
170	15	353	30	578	50	861	74	1084	93	1341	115
190	15	403	35	661	57	984	85	1238	106	1533	132
210	15	454	39	743	64	1107	95	1393	120	1724	148
230	15	504	43	826	71	1230	106	1548	133	1916	165
250	15	554	48	909	78	1353	116	1703	146	2108	181
270	15	605	52	991	85	1476	127	1858	160	2299	198
290	15	655	56	1074	92	1599	137	2012	173	2491	214
310	15	706	61	1156	99	1722	148	2167	186	2682	231
330	15	756	65	1239	107	1845	159	2322	200	2874	247
350	15	806	69	1322	114	1968	169	2477	213	3066	264
370	15	857	74	1404	121	2091	180	2632	226	3257	280
390	15	907	78	1487	128	2214	190	2786	240	3449	297
410	15	958	82	1569	135	2337	201	2941	253	3640	313
430	15	1008	87	1652	142	2460	212	3096	266	3832	329
450	15	1058	91	1735	149	2583	222	3251	280	4024	346
470	15	1109	95	1817	156	2706	233	3406	293	4215	362
490	15	1159	100	1900	163	2829	243	3560	306	4407	379

Measured according to EN 16430.
Use our calculation tool for other system temperatures.

LENGTH	HOOGTE	B14		B18		B23		B30		B38	
		HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow
		55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]
70	20	-	-	-	-	132	6	175	8	245	11
80	20	-	-	-	-	165	7	219	9	306	13
90	20	-	-	-	-	198	9	263	11	368	16
100	20	-	-	-	-	231	10	307	13	429	18
110	20	-	-	-	-	264	11	350	15	490	21
120	20	-	-	-	-	297	13	394	17	552	24
130	20	-	-	-	-	330	14	438	19	613	26
150	20	-	-	-	-	396	17	525	23	735	32
170	20	-	-	-	-	461	20	613	26	858	37
190	20	-	-	-	-	527	23	701	30	981	42
210	20	-	-	-	-	593	26	788	34	1103	47
230	20	-	-	-	-	659	28	876	38	1226	53
250	20	-	-	-	-	725	31	963	41	1348	58
270	20	-	-	-	-	791	34	1051	45	1471	63
290	20	-	-	-	-	857	37	1138	49	1594	69
310	20	-	-	-	-	923	40	1226	53	1716	74
330	20	-	-	-	-	989	43	1314	56	1839	79
350	20	-	-	-	-	1055	45	1401	60	1961	84
370	20	-	-	-	-	1121	48	1489	64	2084	90
390	20	-	-	-	-	1187	51	1576	68	2206	95
410	20	-	-	-	-	1253	54	1664	72	2329	100
430	20	-	-	-	-	1319	57	1751	75	2452	105
450	20	-	-	-	-	1384	60	1839	79	2574	111
470	20	-	-	-	-	1450	62	1927	83	2697	116
490	15	-	-	-	-	1516	65	2014	87	2819	121

Measured according to EN 16430.

Use our calculation tool for other system temperatures.

LENGTH	HOOGTE	B14		B18		B23		B30		B38	
		HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow	HEATING Room temperature 20°C	Water flow
		55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]	55/45 [W]	[l/h]
70	20	-	-	-	-	264	23	351	30	492	42
80	20	-	-	-	-	264	23	351	30	492	42
90	20	-	-	-	-	331	28	439	38	615	53
100	20	-	-	-	-	397	34	527	45	737	63
110	20	-	-	-	-	529	45	702	60	983	85
120	20	-	-	-	-	595	51	790	68	1106	95
130	20	-	-	-	-	661	57	878	75	1229	106
150	20	-	-	-	-	793	68	1054	91	1475	127
170	20	-	-	-	-	925	80	1229	106	1721	148
190	20	-	-	-	-	1058	91	1405	121	1966	169
210	20	-	-	-	-	1190	102	1580	136	2212	190
230	20	-	-	-	-	1322	114	1756	151	2458	211
250	20	-	-	-	-	1454	125	1932	166	2704	232
270	20	-	-	-	-	1586	136	2107	181	2950	254
290	20	-	-	-	-	1719	148	2283	196	3195	275
310	20	-	-	-	-	1851	159	2458	211	3441	296
330	20	-	-	-	-	1983	171	2634	226	3687	317
350	20	-	-	-	-	2115	182	2810	242	3933	338
370	20	-	-	-	-	2247	193	2985	257	4179	359
390	20	-	-	-	-	2380	205	3161	272	4424	380
410	20	-	-	-	-	2512	216	3336	287	4670	402
430	20	-	-	-	-	2644	227	3512	302	4916	423
450	20	-	-	-	-	2776	239	3688	317	5162	444
470	20	-	-	-	-	2908	250	3863	332	5408	465
490	15	-	-	-	-	3041	261	4039	347	5653	486

Measured according to EN 16430.
Use our calculation tool for other system temperatures.

Low-H₂O heat exchanger:

Is manufactured from round, seamless circulation tubes of pure red copper, with pure aluminium fins and two brass collectors for left or right 1/2" same end connection. Air vents 1/8" and drain cocks 1/2" are included.

- Pressure test: 20 bar / Working pressure: 10 bar. 30 year warranty on the heat exchanger !



Type of heat exchanger per appliance

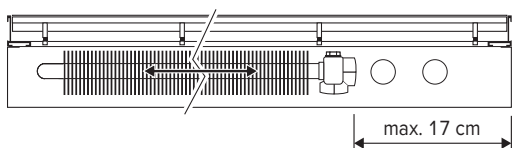
Mini Canal Pro 20		H 9					H 12					H 15					H 20					
Width Mini Canal Pro >		14	18	23	30	38	14	18	23	30	38	14	18	23	30	38	14	18	23	30	38	
Typ 04 Double sided		X					X															
Typ 05												X										
Typ 09			X	X				X	X													
Typ 10												X	X						X			
Typ 14					X					X												
Typ 15														X						X		
Typ 19						X					X											
Typ 20															X							X

Length of device > length of the heat exchanger:

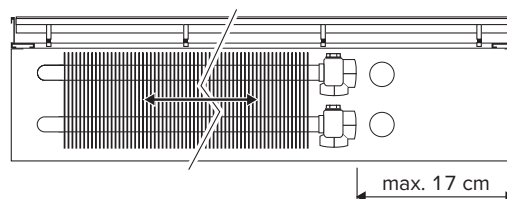
Mini Canal Pro Length (L)
70 / 80 / 90 / 100 / 110 / 120 / 130 / 150 / 170 / 190 / 210 / 230 / 250 / 270 / 290 / 310 / 330 / 350 / 370 / 390 / 410 / 430 / 450 / 470 / 490
Heat exchanger: effective length = length Mini Canal Pro - 8 cm

Maximum space for connection:

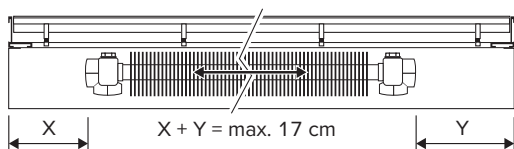
With same end connection, Type 09 et 11



With same end connection: Type 14/19



With double-sided connection. Width 14 and Height 09 en 11.



Water content heat exchanger (in liter/meter)

Heat exchanger Type	liter / meter
04 D	0.16
05	0.32
09	0.32
10	0.65
14	0.48
15	0.98
19	0.63
20	1.32

D = double-sided connection

Description:

- the heat exchanger is manufactured from round, seamless circulation tubes of pure red copper, with pure aluminium fins and two brass collectors for left or right 1/2" same end connection
- for double-sided connection 1/2", only for heat exchanger type 04 / 09
- air vents 1/8" and drain cocks 1/2" are included
- pressure test: 20 bar
- working pressure: 10 bar
- the flow valve always has to be fitted to the top connection of the heat exchanger

Placement:

- in order to totally block off the cold draughts from the window it is preferable that the heat exchanger covers the full length of the window
- concerning the distance in between the window and the Mini-Canal Pro allow extra space for curtains, which under no circumstances should hang over the Mini-Canal Pro
- the heat exchanger must always be kept accessible for maintenance purposes

Connection:

- the heat exchangers will be connected to a one pipe system / two pipe system, with a same side end connection

Before using for the first time:

- use a vacuum cleaner to clean the heat exchanger

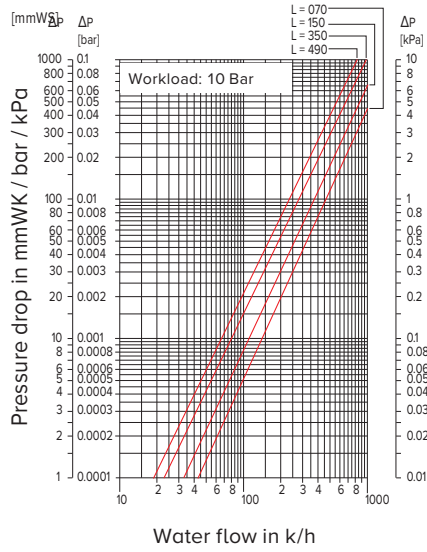
Attention:

- Blind plug 1/2" and air vent 1/8" are factory installed. During installation, these need to be tightened to 5Nm with a torque wrench. Bleeding: use a key to hold the air vent in position while opening the inner screw for bleeding. Check the device for leaks before installation of the cabinet. Bleed before installation of the cabinet.

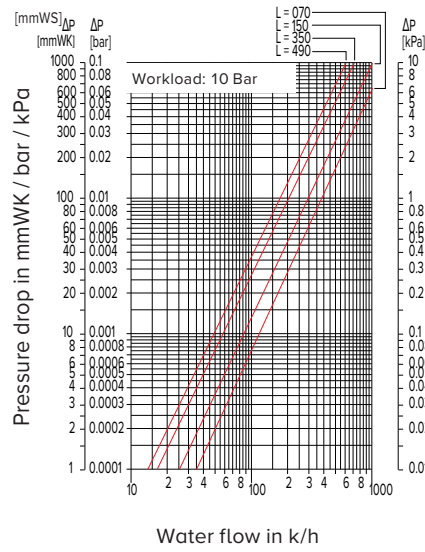
Maintenance:

- use a vacuum cleaner to clean the heat exchanger and the ventilator. Wipe the casing with a soft moist cloth. Use neutral soap if necessary, rinse with clean water.

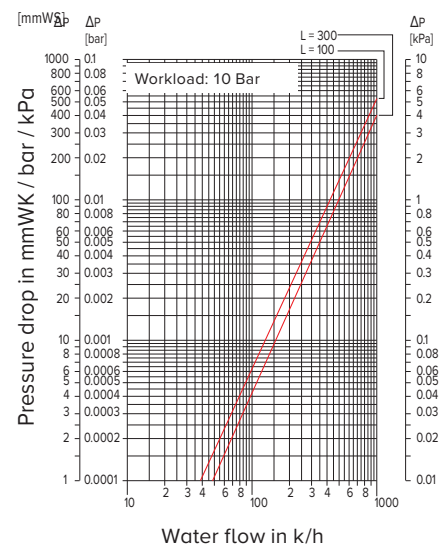
Pressure drop Type 04
Opposite end connection



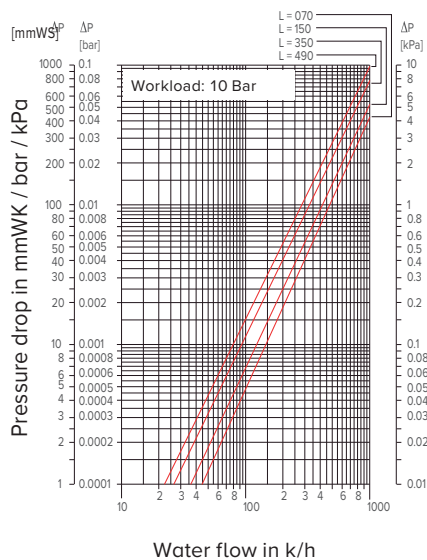
Pressure drop Type 05



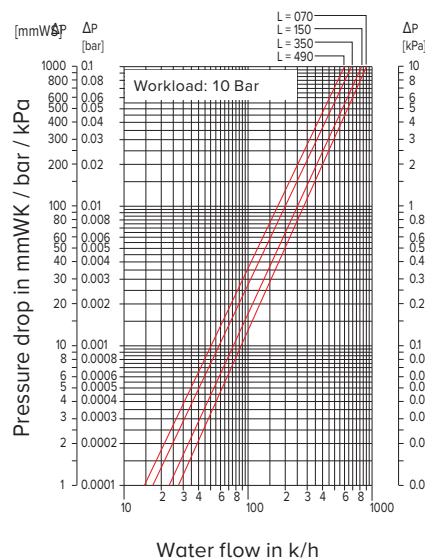
Pressure drop Type 09 Opposite end connection



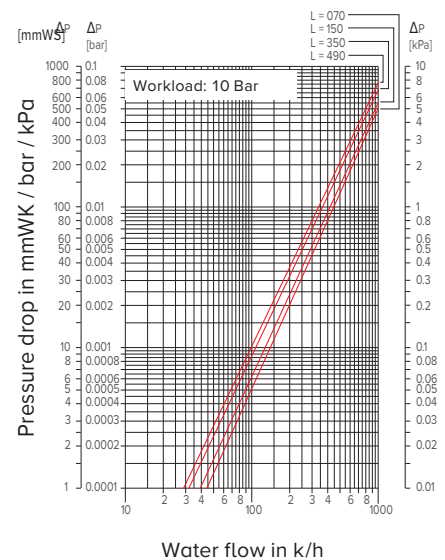
Pressure drop Type 10



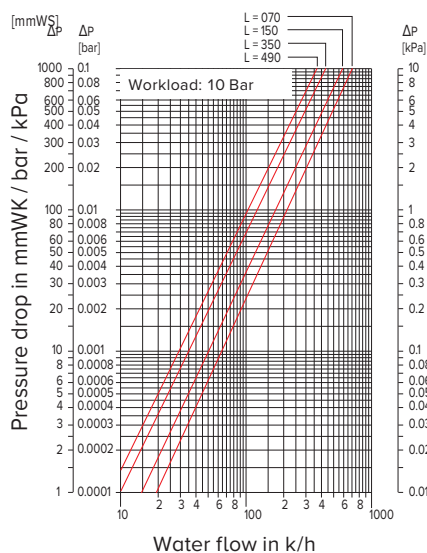
Pressure drop Type 14



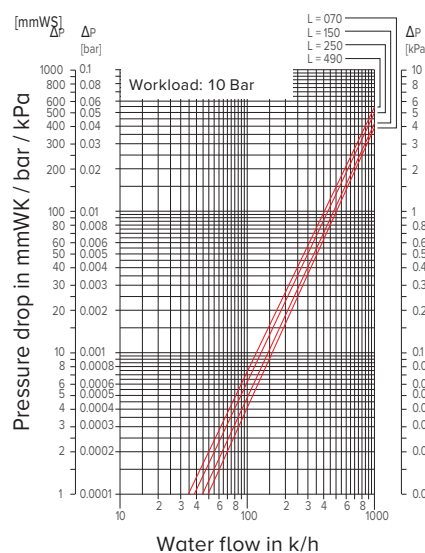
Pressure drop Type 15



Pressure drop Type 19
Opposite end connection



Pressure drop Type 20



Average correction factors according to 75/65/20°C

Tv	Tl	Tr	25	30	35	40	45	50	55	60	65	70	75	80	85
90	18		0.45	0.58	0.69	0.79	0.89	0.98	1.07	1.16	1.24	1.34	1.41	1.49	1.56
	20		0.38	0.52	0.63	0.74	0.83	0.92	1.01	1.10	1.18	1.28	1.35	1.43	1.50
	22		0.30	0.46	0.57	0.68	0.78	0.87	0.96	1.04	1.13	1.22	1.30	1.37	1.44
	24		0.20	0.39	0.52	0.62	0.72	0.81	0.90	0.99	1.07	1.15	1.24	1.31	1.38
85	18		0.42	0.54	0.65	0.75	0.84	0.93	1.01	1.10	1.20	1.27	1.34	1.41	
	20		0.36	0.49	0.59	0.69	0.79	0.87	0.96	1.04	1.12	1.21	1.28	1.35	
	22		0.28	0.42	0.54	0.64	0.73	0.82	0.90	0.99	1.06	1.15	1.22	1.30	
	24		0.19	0.36	0.48	0.58	0.68	0.76	0.85	0.93	1.01	1.10	1.17	1.24	
80	18		0.39	0.51	0.61	0.70	0.79	0.88	0.96	1.04	1.12	1.20	1.27		
	20		0.33	0.45	0.56	0.65	0.74	0.82	0.90	0.98	1.07	1.14	1.21		
	22		0.26	0.39	0.50	0.60	0.68	0.77	0.85	0.93	1.01	1.08	1.15		
	24		0.17	0.34	0.45	0.54	0.63	0.72	0.80	0.87	0.96	1.03	1.10		
75	18		0.37	0.47	0.57	0.66	0.74	0.82	0.90	0.99	1.05	1.12			
	20		0.30	0.42	0.52	0.61	0.69	0.77	0.85	0.93	1.00	1.07			
	22		0.24	0.36	0.46	0.55	0.64	0.72	0.79	0.88	0.95	1.01			
	24		0.16	0.31	0.41	0.50	0.59	0.67	0.74	0.83	0.89	0.96			
70	18		0.34	0.44	0.53	0.61	0.69	0.77	0.85	0.92	0.99				
	20		0.28	0.39	0.48	0.56	0.64	0.72	0.80	0.87	0.93				
	22		0.22	0.33	0.43	0.51	0.59	0.67	0.74	0.81	0.88				
	24		0.14	0.28	0.38	0.46	0.54	0.62	0.69	0.76	0.83				
65	18		0.31	0.40	0.49	0.57	0.64	0.71	0.79	0.85					
	20		0.25	0.35	0.44	0.52	0.59	0.66	0.74	0.80					
	22		0.19	0.30	0.39	0.47	0.54	0.61	0.69	0.75					
	24		0.12	0.25	0.34	0.42	0.50	0.57	0.64	0.70					
60	18		0.28	0.37	0.45	0.52	0.59	0.66	0.73						
	20		0.23	0.32	0.40	0.47	0.54	0.62	0.68						
	22		0.17	0.27	0.35	0.43	0.50	0.57	0.63						
	24		0.11	0.23	0.31	0.38	0.45	0.52	0.58						
55	18		0.25	0.33	0.40	0.47	0.55	0.60							
	20		0.20	0.29	0.36	0.43	0.50	0.56							
	22		0.15	0.24	0.32	0.38	0.45	0.51							
	24		0.09	0.20	0.27	0.34	0.40	0.47							
50	18		0.22	0.30	0.36	0.43	0.49								
	20		0.18	0.25	0.32	0.38	0.44								
	22		0.13	0.21	0.28	0.34	0.40								
	24		0.08	0.17	0.24	0.30	0.36								
45	18		0.19	0.26	0.32	0.38									
	20		0.15	0.22	0.28	0.34									
	22		0.11	0.18	0.24	0.30									
	24		0.06	0.14	0.20	0.26									
40	18		0.16	0.22	0.28										
	20		0.12	0.18	0.24										
	22		0.09	0.15	0.20										
	24		0.05	0.12	0.17										
35	18		0.13	0.19											
	20		0.10	0.15											
	22		0.07	0.12											
	24		0.03	0.09											
30	18		0.10												
	20		0.07												
	22		0.04												
	24		0.02												

The indicated outputs with ΔT 50 and ΔT 30 are the exact outputs. ΔT 50 output measured in accordance with EN 442 and ΔT 30 output calculated according to EN 442. An average correction factor is given in this table for all other ΔT outputs, applicable for all dimensions.

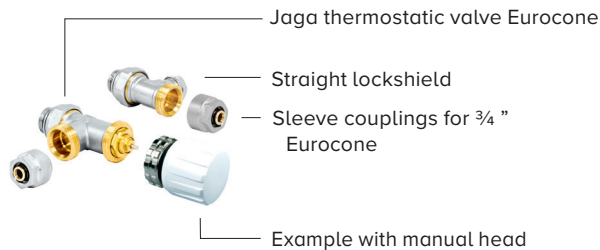
Use the Jaga calculation tool for other system temperatures.

Set 271 Valve for height 09 en 11

- 3/4" Euroconus
- kv Max. 0.6

Not suitable for::

- width 14 cm
- heat exchangers with opposite end connection

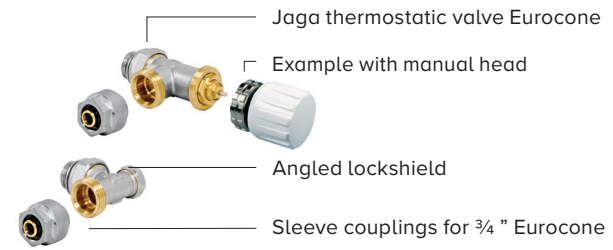


Set 272 Valve for height 15 en 20

- 3/4" Euroconus
- kv Max. 0.6

Not suitable for::

- width 14 cm
- heat exchangers with opposite end connection



Two pipe

TRV head

COMC.JH2.MA.4...	MA
COMC.JH2.JB.4...	JB
COMC.JH2.24.4...	24 (24 VDC)
COMC.JH2.23.4...	23 (230 VAC)

fill in sleeve coupling code



Overview controls

MA

JB

23-24



Sleeve couplings Euroconus

Ordering example

Complete ordering code with sleeve couplings according to the material used and Ø of the tube. Included in the price of the connection sets. .

connection set code sleeve coupling code
COMC. JH2. MA. 4. 112

Tightening torque:

Precision metal tube

- soft copper 45-55 Nm
- semi-hard copper 60-80 Nm
- mild steel 60-70 Nm

Synthetic 30-40 Nm

VPE/ALU 20-30 Nm

Precision metal tube

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

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

JRT-300 Jaga room thermostat:



- heating
- time
- room temperature
- against wall with wall frame, or mounting on a wall mounting box.

Settings:

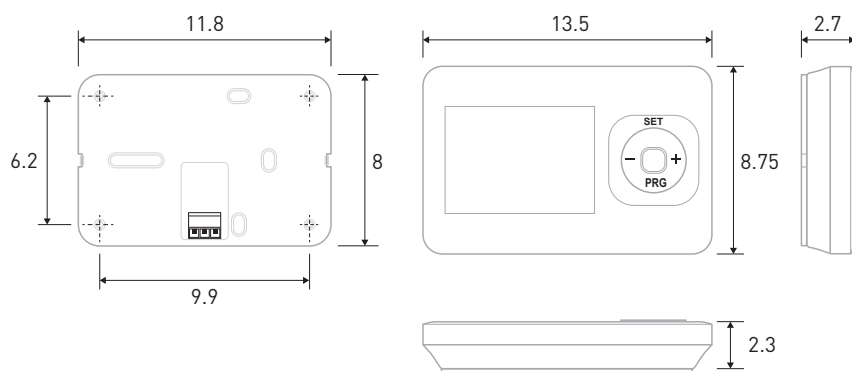
- weekly program: 3 programmable time zones (5 + 1 + 1): working days (1-5), Saturday (6) and Sunday (7)

CE-marking

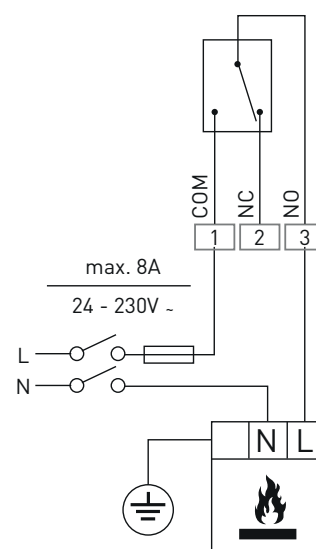
- EN 61000-6-3:2007+A1:2011
- EN 61000-3-2:2006+A1:2009+A2:2009
- EN 61000-3-3:2008
- EN 61000-6-1:2007

Code. 8751.050014

Dimensions JRT-300:



Connection diagram:



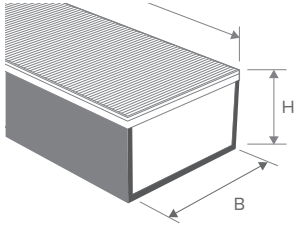
Programmable time zones

Settings:	1ste time zone		2de time zone	
	PRG 1	PRG 2	PRG 3	PRG 4
1 2 3 4 5 Monday > Friday	6:30	8:00	18:30	22:30
	21°C	18°C	21°C	16°C
6 Saturday	6:30	8:00	18:30	22:30
	21°C	18°C	21°C	16°C
7 Sunday	6:30	8:00	18:30	22:30
	21°C	18°C	21°C	16°C

Technical data JRT-300

Power supply:	2 x AAA1.5 V, alkaline batteries.
Backup storage:	EEPROM
Max. voltage / (ohm) load:	8 A.
Channel selection:	By programming the thermostat and the receiver.
Programmable Time Zones:	weekly program: 5 + 1 + 1, 2 periods per day.
Adjustment range:	5 °C ~ 30 °C, per 0.5 °C step.
Accuracy:	+/- 0.5°C
Thermostat dimensions:	with wall frame: 135mm x 87.5 mm x 27mm.
Casing:	ABS with UL94-5 fire retardant plastic, white
Safety class	IP 20
Certification:	CE

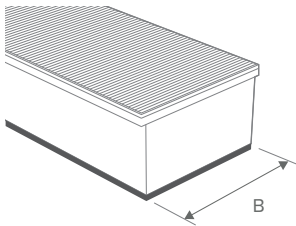
Option: 3-sided insulation



In dark grey extruded EPDM, thickness 5 mm. (Not available separately!)

Code	Height	Length	Width
Ordering code. 7693.009	110	014	

Option: insulated bottom

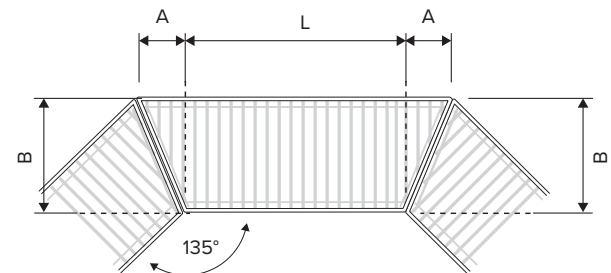
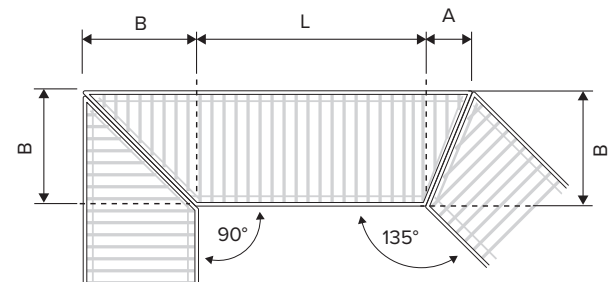
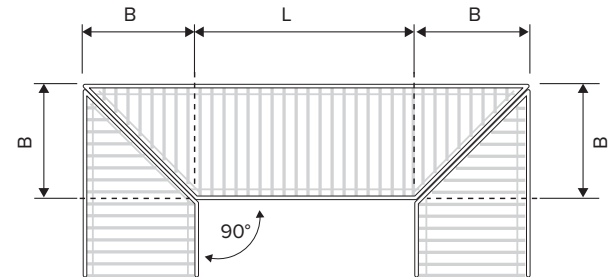
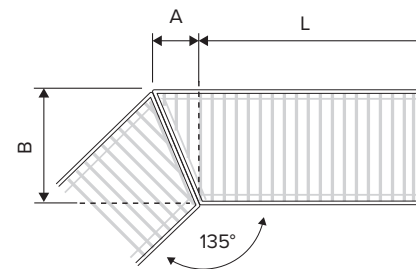
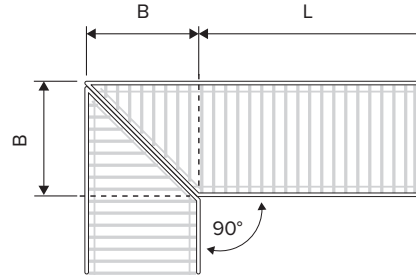


In dark grey extruded EPDM, thickness 5 mm. Also to avoid transfer of noise when used on upper storeys. (Not available separately!)

Code	Length	Width
Ordering code 7692.000	110	014

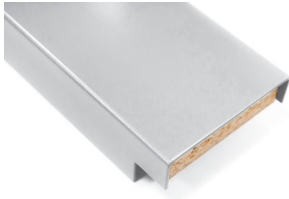
Option: corners 135° or 90°

- for wooden and aluminium grilles.
- to order corner elements, please contact Jaga at: info@jaga.be.
- different height, width or length contact jaga .



B	14	18	23	30	38
A	5.2	7.5	9.5	12.5	16

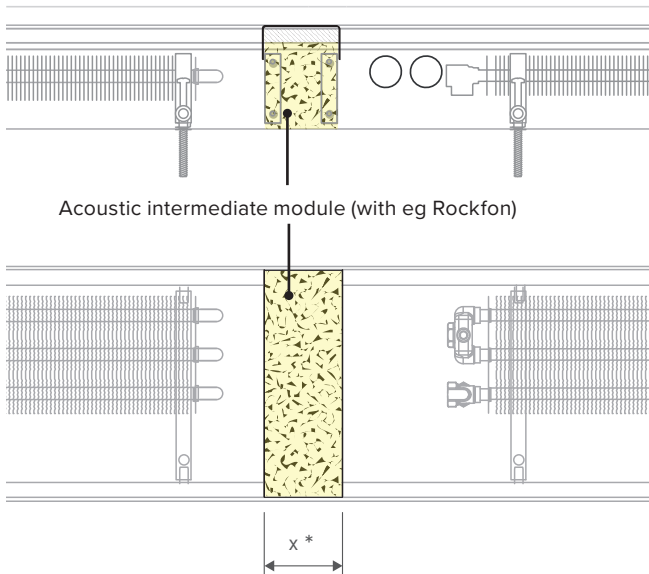
Option: acoustic intermediate module



acoustic intermediate module:

- is a module made of Sendzimir galvanized sheet steel 1 mm. This module is closed with an anodized aluminium cover. For extra insulation, the module contains a 16 mm thick fibreglass.

- The insulation must be provided by the installer. For example: rock wool acoustic material (not supplied).



Order:

* variable width of module: please contact Jaga: info@jaga.be.



Option: Flexible connections



Stainless steel tube

- INOX
- M1/2 x F1/2
- Length 25 cm

Ordering code. 7990.069

Connection with flexible tube: To do this, you must assemble the Mini Canal Pro from the parts list, taking the heat exchanger at least one size shorter. In this way you gain enough space for flexible connections, and the heat exchanger can easily be removed, eg for annual cleaning.

Option: Simple height control

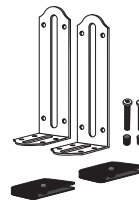


Simple height control for uneven sub floors. Provided with acoustic decoupling.

- height control 4.5 <> 13 cm

Ordering code. 7690.04

1 Set =



Recommended numbers for length::

< 100 cm	2 Sets
100 <> 125 cm	3 Sets
125 <> 225 cm	4 Sets
225 <> 325 cm	5 Sets
325 <> 475 cm	7 Sets
475 <> 675 cm	9 Sets

Jaga Mini Canal PRO trench heater radiator:

Consists of:

- shaft with grid holder with stainless steel profile to allow continuous grille appearance
- anodized aluminium- or wooden grilles, BNA panel grille
- 2-pipe Low-H₂O heat exchanger
- metal cover to shield the hydraulic connections, provided with anthracite grey epoxy-polyester RAL 7024
- cover plate in fibreboard, thickness 22 mm. Protects the duct against contamination and damage during construction works.

Infloor trench heating radiator, made of Sendzimir galvanized steel plate of 1 mm thick, provided with anthracite grey epoxy-polyester RAL 7024, gloss level 10%. The head piece is removable for easy mutual coupling of the convector ducts. The shaft has pre-perforated holes to lead through the hydraulic tubes. Black sealing plastic plugs are included.

- the coating is a scratch resistant epoxy-polyester powder, sprayed electro-statically and baked at a temperature of 200 °C. UV-resistant due to ASTM G53

Heating capacity according to EN 442.

Suitable for connection to traditional heating systems.

Heat exchanger:

The heat exchanger is manufactured from round, seamless circulation tubes of pure red copper, with pure aluminium fins and two brass collectors for left or right 1/2" same end connection;

For double-sided connection 1/2", only for heat exchanger type 04
Mounting: on the side (window side) of the shaft. Air vents 1/8" and drain cocks 1/2" are included.

- the heat exchanger is electro-statically lacquered with anthracite grey epoxy-polyester RAL 7024., gloss 70%
- pressure test: 20 bar
- working pressure: 10 bar

BNA Aluminium anodized floor grille

Grille panel: L 360 mm with EPDM holder 16.5 mm

- profile: 6 x 14 mm
- spacing 9 mm

Natural colour or painted in an environmentally friendly TGIC-free polyester powder coating (colours, see Jaga color chart)

"Designo" rigid aluminium grilles:

Profiled slats placed lengthways (7 x 16 mm) with 7 mm space between, mechanically connected with two crossways supporting slats (5 x 27 mm) with maximum 30.5 cm space between

- free air flow 50 %

Versions: anodized aluminium in natural coloured / dark brown / black / brass coloured / lacquered in a scratch resistant epoxy-polyester powder, sprayed electro-statically and baked at a temperature of 200 °C. UV-resistant due to ASTM G53.

Rigid aluminium grilles

Profiled slats placed lengthways (7 x 16 mm) with 13 mm space between, mechanically connected with two crossways supporting slats (5 x 27 mm) with maximum 30.5 cm space between.

- free air flow 75%.

Versions: anodized aluminium in natural coloured / dark brown / black / brass coloured / lacquered in a scratch resistant epoxy-polyester powder, sprayed electro-statically and baked at a temperature of 200 °C. UV-resistant due to ASTM G53.

Roll-up aluminium grilles:

Crossways positioned aluminium slats (5 x 23 mm) with 10 mm space between. The slats are interconnected by a galvanized steel spring and fixed in the correct distance by aluminium pieces in the same colour.

- free air flow 70%.

Versions: anodized aluminium in natural coloured / dark brown / black / brass coloured / lacquered in a scratch resistant epoxy-polyester powder, sprayed electro-statically and baked at a temperature of 200 °C. UV-resistant due to ASTM G53.

Roll-up stainless steel grilles

Roll-up grille in rust proof high-grade steel 1.4301.

Crossways positioned stainless steel slats (8 x 18 mm) with 12 mm space between.

The wood slats are interconnected by a stainless steel spring and fixed in the correct distance by stainless steel synthetic pieces.

- Free air flow 60%

Including black rubber strip to hide the bottom side of the insert frame, and to avoid contact noises.

"Designo" rollable wooden grilles:

Crossways positioned wooden slats (12 x 24.5 mm) with 13 mm space between. The wood slats are interconnected by a galvanized steel spring and fixed in the correct distance by natural coloured aluminium pieces.

- free air flow 52%.

Versions: oak / beech / merbau / oak varnished / beech varnished / merbau varnished.

Rollable wooden grilles:

Crossways positioned wooden slats (12 x 24.5 mm) with 20 mm space between. The wood slats are interconnected by a galvanized steel spring and fixed in the correct distance by dark brown synthetic pieces.

- free air flow 63%

Versions: oak / beech / merbau / oak varnished / beech varnished / merbau varnished

Options:

- base insulation: in dark grey polyethylene foam, thickness 5 mm
- 3-sided insulation: in dark grey polyethylene foam, thickness 5 mm
- cover strip: to hide the bottom side of the insert frame and to avoid contact noises
- fixing with height control: to adjust the height on uneven and rough cast sub-floors. Provided with acoustic decoupling..
- corners: angle 90 ° / angle 135 °
- Cover plate: 22 mm thick fibreboard plate. Protects the Mini-Canal against contamination and damaging during construction works

How to install:

The building services engineer chooses the heating elements considering the following conditions:

- a heat output calculation according to the standard
- the required heat outputs will be determined by the tables and the fitting instruction of the building services engineer
- the heat exchanger should be connected to a two pipe system with a same end connection / other end connection (just for type 04)
- the heat exchanger is equipped with two brass collectors for left or right 1/2" same end connection. Air vent 1/8" and drain cock 1/2" are included. In case of same end connection the flow valve always has to be fitted to the top connection.
- in order to totally block off the cold draughts from the window it is preferable that the heat exchanger covers the full length of the window. Concerning the distance in between the window and the Mini-Canal allow extra space for curtains, which under no circumstances should hang over the Mini-Canal. The heat exchanger must always be kept accessible for maintenance purposes.

Manufacturer: Jaga n.v.

Model: Jaga Mini Canal PRO



