

**CWA-S**

- Circular heater
- Hot water



## Hot water coil type CWA-S

Circular hot water heating battery, easy to install and with a removable service panel allowing acces for cleaning the coil

### **Application**

- Zone heating

### **Material**

- Casing made of galvanised sheet steel, the circular connections are equipped with an EPDM rubber.
- The coil consists of copper tubes with aluminium fins.

### **Specifications**

- Max. operating temperature: 100°C
- Max. operating pressure: 2.2MPa
- Findistance: 2,5 mm
- Batterij met 3 rangen
- Airthightness class:
  - Class C for CWA 100 S - CWA 400 S, according to EN15272/2010 (expect CWA 160 S)
  - Class D for CWA 160 S and CWA 500 S, according to EN15272/2010

### **Mounting**

- Round ducts

### **Accessoires**

- 2 or 3-way regulation valves, type **QCV-2** or **QCV-3**

### **Text for tender**

- The heating coil shall be out of copper tubes with aluminium fins, the copper tubes shall be positioned zig-zag this for an effective and economic heat transfer from the circulated heating medium to the air. The casing of the heating coil shall be made of galvanised steel sheet with circular connections with on each connection a solid EPDM rubber. The casing of the heating coil shall have a removable service panel this to inspect the coil and clean it.

**Order example****CWA, 200 + N2, D10 + T24SR**

Explanation

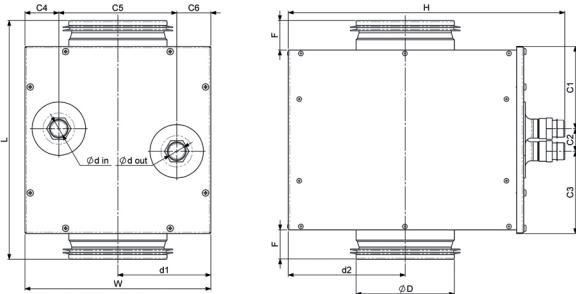
**CWA** = Type warmwater heater**200** = Diameter in mm, (see table)

Accessories

**N2** = 2-way valve, **N3** = 3-way valve**D10** = Connection diameter (selection made by means of the KVS value), (see table)**T24SR** = Modulating valve actuator, **T24** = On/off valve actuator 24V, **T230** = On/off valve actuator 230V

	Q [m³/h]	ΔP [Pa]	Ti [C°]	Technical data												
				Tw 70°C/50°C				Tw 60°C/40°C				Tw 40°C/30°C				
CWA 100 S	100	3	-10	Tu [C°]		P [kW]	Qw [l/s]	ΔPw [kPa]	Tu [C°]		P [kW]	Qw [l/s]	ΔPw [kPa]	Tu [C°]		P [kW]
		3	0	33		1.44	0.017	0.25	23.1		1.11	0.013	0.15	17.5		0.92
		3	10	35.3		1.18	0.014	0.18	26.1		0.87	0.01	0.078	18.8		0.63
	150	6	-10	37.1		0.91	0.011	0.11	30.3		0.68	0.008	0.054	23.4		0.45
		6	0	26.7		1.86	0.023	0.41	18.6		1.45	0.017	0.26	1.19		0.028
		6	10	30.1		1.52	0.018	0.28	21.5		1.09	0.013	0.15	16.6		0.84
CWA 125 S	200	10	-10	33.2		1.17	0.014	0.18	26.4		0.83	0.01	0.078	20.5		0.53
		10	0	25.9		1.75	0.021	0.38	18.6		1.26	0.015	0.2	14.3		0.97
		10	10	29.8		1.32	0.016	0.23	23		0.88	0.011	0.11	18.4		0.57
	180	8	-10	24.9		2.12	0.026	0.53	17.6		1.68	0.02	0.35	12.6		1.37
		8	0	28.9		1.75	0.021	0.38	20.7		1.26	0.015	0.2	15.9		0.97
		8	10	32.1		1.34	0.016	0.23	24.5		0.88	0.011	0.11	19.4		0.57
CWA 160 S	270	17	-10	18.6		2.61	0.032	0.79	12.7		2.07	0.026	0.53	8.5		1.68
		17	0	23.7		2.16	0.027	0.57	17.4		1.59	0.019	0.31	13.2		1.21
		17	10	28.3		1.67	0.021	0.34	21.9		1.09	0.013	0.15	17.3		0.67
	360	27	-10	17.1		3.29	0.04	1.2	11.3		2.59	0.032	0.8	7.6		2.14
		27	0	22.1		2.69	0.033	0.84	16.6		2.01	0.024	0.49	12.5		1.51
		27	10	27.3		2.1	0.026	0.53	21.7		1.42	0.017	0.26	17.2		0.88
CWA 200 S	200	6	-10	29.4		2.67	0.033	1.2	22.1		2.18	0.026	0.82	15.3		1.72
		6	0	33.1		2.25	0.028	0.87	25.6		1.74	0.021	0.54	18.7		1.27
		6	10	36.2		1.78	0.021	0.54	28.5		1.25	0.015	0.29	21.7		0.79
	330	14	-10	21.6		3.52	0.043	2	15.7		2.86	0.035	1.4	10.5		2.29
		15	0	26.4		2.94	0.036	1.4	20.3		2.26	0.028	0.88	15.1		1.68
		14	10	31.1		2.35	0.029	0.94	25.2		1.69	0.02	0.5	19.5		1.05
CWA 250 S	460	25	-10	19.7		4.6	0.056	3.4	14.2		3.74	0.046	2.3	9.3		2.99
		25	0	24.8		3.84	0.047	2.4	19		2.95	0.036	1.4	14.2		2.21
		25	10	29.6		3.04	0.037	1.5	24.5		2.24	0.028	0.88	19		1.39
	350	16	-10	21.1		3.68	0.045	2.2	15.3		3	0.037	1.5	10.1		2.38
		16	0	26		3.08	0.038	1.6	19.9		2.36	0.029	0.94	14.9		1.76
		16	10	30.6		2.44	0.03	1	24.9		1.77	0.021	0.54	19.3		1.1
CWA 315 S	500	29	-10	18.8		4.87	0.059	3.8	13.3		3.94	0.048	2.5	8.7		3.17
		30	0	23.9		4.04	0.049	2.6	18.5		3.12	0.038	1.6	13.8		2.33
		31	10	29		3.22	0.039	1.7	23.9		2.35	0.029	0.94	18.7		1.47
	650	47	-10	14.5		5.37	0.066	4.6	9.8		4.34	0.053	3.1	6		3.51
		47	0	20.3		4.46	0.054	3.2	16		3.51	0.043	2	11.7		2.58
		48	10	26.5		3.61	0.044	2.1	21.9		2.62	0.032	1.1	17.6		1.66
CWA 400 S	500	14	-10	23.9		5.73	0.069	7	18.2		4.76	0.058	5	12		3.72
		14	0	28.8		4.86	0.059	5.2	22.8		3.86	0.047	3.3	16.7		2.83
		14	10	33.4		3.95	0.048	3.4	27.7		2.99	0.037	2.1	21.1		1.88
	750	27	-10	21.2		7.9	0.096	13	15.8		6.54	0.079	9.2	10.3		5.14
		27	0	26.4		6.69	0.082	9.6	20.9		5.28	0.064	6.1	15.3		3.88
		28	10	31.3		5.4	0.066	6.2	26.2		4.11	0.05	3.8	20.2		2.58
CWA 315 S	1000	45	-10	16.4		8.9	0.111	17	11.8		7.35	0.089	12	7.2		5.8
		45	0	22.2		7.49	0.091	12	17.8		6.01	0.073	7.9	12.9		4.36
		45	10	28.8		6.13	0.079	8	23.9		4.68	0.057	4.8	18.7		2.93
	1500	14	-10	22.1		8.12	0.099	2	16.1		6.62	0.08	1.4	10.8		5.26
		14	0	26.9		6.8	0.083	1.4	20.8		5.27	0.064	0.9	15.4		3.9
		14	10	31.5		5.44	0.066	0.95	25.7		3.96	0.048	0.52	19.9		2.49
CWA 500 S	2500	22	-10	20.5		10.29	0.126	3.2	14.8		8.37	0.102	2.2	9.8		6.68
		22	0	25.5		8.58	0.104	2.2	19.7		6.64	0.08	1.4	14.7		4.94
		22	10	30.3		6.86	0.084	1.5	25		5.04	0.061	0.82	19.4		3.17
	3500	46	-10	14.7		12.49	0.152	4.6	10		10.12	0.123	3.1	6.1		8.14
		47	0	12.5		10.39	0.127	3.2	16.2		8.21	0.1	2.1	11.9		6.01
		48	10	26.7		8.45	0.103	2.2	22.3		6.2	0.075	1.2			

■  $T_w$  = water temperature in/out



	Dimensions														
	L [mm]	W [mm]	H [mm]	F [mm]	C1 [mm]	C2 [mm]	C3 [mm]	C4/C6 [mm]	C5 [mm]	ød [mm]	DN	øD [mm]	d1 [mm]	d2 [mm]	[kg]
<b>CWA 100 S</b>	304	236	352	37	105	29	105	43	150	18	1/2"	100	118	149	5.2
<b>CWA 125 S</b>	304	236	352	38	105	29	105	43	150	18	1/2"	125	118	149	6
<b>CWA 160 S</b>	304	303	352	37	105	29	105	43	217	18	1/2"	160	152	149	8.2
<b>CWA 200 S</b>	304	236	352	37	105	29	105	43	217	18	1/2"	200	152	149	8.5
<b>CWA 250 S</b>	304	370	405	45	105	29	105	43	283	22	1/2"	250	185	175	12.5
<b>CWA 315 S</b>	318	403	491	45	105	29	105	43	293	22	1/2"	315	202	218	16
<b>CWA 400 S</b>	358	470	585	64	105	29	105	53	365	22	3/4"	400	235	264	20
<b>CWA 500 S</b>	358	570	788	64	105	29	105	53	365	22	3/4"	500	285	366	28