



CWW
Circular duct heaters
for hot water

CWW

Circular duct heaters for hot water

The CWW with circular duct connections uses hot water as the energy carrier and is used for heating the ventilation air in a ventilation system. The CWW can also be used for heating individual rooms or zones. For controlling the room or supply air temperature, the duct heater is supplemented with regulators, sensors, actuators, valves and anti-freeze protection.

- 15 standard sizes
- Circular duct connection with rubber seal
- Casing of Aluzinc-coated sheet steel, AZ 185
- Openable cover for inspection and cleaning
- Hot water coil with 2 or 3 tube rows
- Air tightness class C to EN 15727

Design

The casing is made of Aluzinc-coated sheet steel, AZ 185. The coil has copper tubes and tube connections, and aluminium fins. An openable cover simplifies inspection and cleaning. The duct connections are provided with rubber seals. The duct heater conforms to air tightness class C to EN 15727.

Operating data

Max. operating temperature: +150°C

Max. operating pressure: 1,0 MPa (10 bar)

The coils are tested for leakage.

Capacity

Examples of capacity for each size are given on pages 4 to 11. You can also do your own calculations using our web-based VEAB Select calculation program (www.veab.com), or get in touch with our sales technicians for assistance.

Installation

The CWW can be installed in a horizontal or vertical duct, with the air flow in either direction.

Control

See pages 12 to 15 for a list of regulators, sensors, valves and actuators.

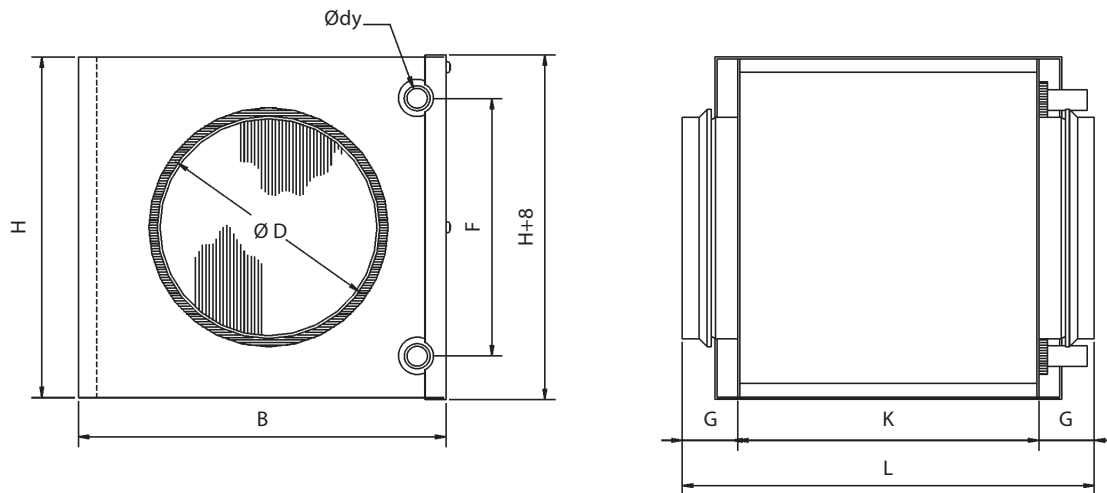


Air tightness class C

The CWW duct heater conforms to air tightness class C, which ensures that the heated air will reach its destination and will not leak out of the ventilation system – which saves energy and money.

Overview of range and dimensions

Type	ØD mm	B mm	H mm	Ødy mm	F mm	G mm	K mm	L mm	Coil inside volume l	Weight kg
CWW 100-2-2.5	100	238	180	10	137	40	276	356	0.13	3.7
CWW 100-3-2.5	100	238	180	10	100	40	276	356	0.20	3.8
CWW 125-2-2.5	125	238	180	10	137	40	276	356	0.13	3.5
CWW 125-3-2.5	125	313	255	10	175	40	276	356	0.20	5.5
CWW 160-2-2.5	160	313	255	10	212	40	276	356	0.29	5.4
CWW 160-3-2.5	160	313	255	10	175	40	276	356	0.42	5.4
CWW 200-2-2.5	200	313	255	10	212	40	276	356	0.29	5.3
CWW 200-3-2.5	200	398	330	22	250	40	276	356	0.42	8.2
CWW 250-2-2.5	250	398	330	22	250	40	276	356	0.66	7.7
CWW 250-3-2.5	250	473	405	22	325	40	276	356	0.96	10.2
CWW 315-2-2.5	315	473	405	22	325	40	276	356	0.98	9.9
CWW 315-3-2.5	315	557	504	22	400	40	276	356	1.35	13.4
CWW 400-2-2.5	400	557	504	22	400	65	276	406	1.36	13.1
CWW 400-3-2.5	400	707	529	22	425	65	330	460	1.87	17.9
CWW 500-2-2.5	500	707	529	22	425	65	330	460	2.55	16.9



Project design/ordering

Descriptive text for – CWW

VEAB type CWW duct heater with casing made of Aluzinc-coated sheet steel, AZ 185, coil with copper tubes and tube connections, and with aluminium fins. The duct heater conforms to air tightness class C. The heater is controlled by an external regulator, sensors, valves and actuators, which must be ordered separately.

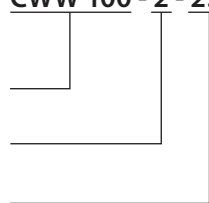
Type designation **CWW 100 - 2 - 2.5**

(example)

Size designation

Number of tube rows

Fin pitch, mm



Specify the following for project ordering:

1. Air flow rate: - m³/h
2. Inlet air temperature: - °C
3. Outlet air temp. or required output: - °C or -kW
4. Duct size: - mm
5. Inlet water temp.: - °C
6. Outlet water temp. or water flow: - °C or - l/sek
7. Anti-freeze agent - type / %

Capacity of CWW 100-2-2.5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
55	5	-15	28.1	0.9	0.01	0.5	12.8	0.6	0.01	0.3	18.7	0.7	0.02	1.2
55	5	-7.5	31.7	0.8	0.01	0.4	16.5	0.5	0.01	0.1	22.2	0.6	0.01	0.9
55	5	0	35.0	0.7	0.01	0.3	20.4	0.4	0.01	0.1	25.5	0.5	0.01	0.7
55	5	7.5	38.1	0.6	0.01	0.2	24.0	0.3	0.01	0.1	28.4	0.4	0.01	0.4
55	5	15	40.5	0.5	0.01	0.2	27.9	0.2	0.01	0.1	30.5	0.3	0.01	0.3
100	14	-15	20.9	1.4	0.02	1.0	9.6	0.9	0.01	0.6	13.2	1.1	0.03	2.4
100	14	-7.5	25.3	1.2	0.01	0.8	13.3	0.8	0.01	0.4	17.4	0.9	0.02	1.8
100	13	0	29.4	1.1	0.01	0.6	16.0	0.6	0.01	0.3	21.5	0.8	0.02	1.3
100	13	7.5	33.5	0.9	0.01	0.5	20.6	0.5	0.01	0.1	25.4	0.6	0.02	0.9
100	13	15	37.3	0.8	0.01	0.4	24.7	0.3	0.01	0.1	29.0	0.5	0.01	0.6
145	26	-15	16.6	1.7	0.02	1.5	6.8	1.2	0.01	0.9	9.8	1.4	0.03	3.7
145	26	-7.5	21.3	1.5	0.02	1.2	11.2	1.0	0.01	0.6	14.4	1.2	0.03	2.8
145	25	0	25.9	1.4	0.02	1.0	15.2	0.8	0.01	0.4	18.9	1.0	0.02	2.1
145	24	7.5	30.4	1.2	0.01	0.8	17.5	0.5	0.01	0.2	23.3	0.8	0.02	1.4
145	24	15	34.7	1.0	0.01	0.6	23.2	0.4	0.01	0.1	27.5	0.6	0.02	0.9

Capacity of CWW 100-3-2.5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
55	8	-15	43.3	1.2	0.02	1.2	26.9	0.9	0.01	0.8	29.9	0.9	0.02	2.8
55	8	-7.5	45.9	1.1	0.01	1.0	28.9	0.7	0.01	0.6	32.3	0.8	0.02	2.2
55	8	0	48.3	1.0	0.01	0.8	30.1	0.6	0.01	0.4	34.6	0.7	0.02	1.6
55	7	7.5	50.5	0.8	0.01	0.6	29.4	0.4	0.01	0.2	36.7	0.6	0.01	1.2
55	7	15	52.5	0.7	0.01	0.5	32.4	0.3	0.01	0.1	38.5	0.4	0.01	0.8
100	22	-15	35.0	1.9	0.02	2.6	21.2	1.4	0.02	1.6	23.6	1.5	0.04	6.1
100	21	-7.5	38.3	1.7	0.02	2.1	24.2	1.2	0.01	1.2	26.8	1.3	0.03	4.7
100	21	0	41.5	1.5	0.02	1.7	27.0	1.0	0.01	0.9	29.9	1.1	0.03	3.5
100	20	7.5	44.5	1.3	0.02	1.3	29.3	0.8	0.01	0.6	32.8	0.9	0.02	2.5
100	19	15	47.4	1.1	0.01	1.0	28.3	0.5	0.01	0.2	35.5	0.7	0.02	1.7
145	40	-15	29.7	2.5	0.03	4.1	17.4	1.8	0.02	2.5	19.6	1.9	0.05	9.6
145	39	-7.5	33.5	2.2	0.03	3.4	20.9	1.5	0.02	1.9	23.3	1.7	0.04	7.4
145	38	0	37.1	1.9	0.02	2.7	24.3	1.3	0.02	1.4	26.8	1.4	0.03	5.5
145	37	7.5	40.6	1.7	0.02	2.1	27.4	1.0	0.01	0.9	30.2	1.2	0.03	3.9
145	36	15	44.0	1.4	0.02	1.6	29.9	0.7	0.01	0.6	33.5	0.9	0.02	2.6

Capacity of CWW 125-2-2.5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
85	11	-15	22.9	1.2	0.02	0.8	10.7	0.8	0.01	0.5	14.7	1.0	0.02	2.0
85	11	-7.5	27.0	10.9	0.01	0.7	14.0	0.7	0.01	0.3	18.7	0.8	0.02	1.5
85	10	0	31.0	0.9	0.01	0.5	16.9	0.5	0.01	0.2	22.6	0.7	0.02	1.1
85	10	7.5	34.8	0.8	0.01	0.4	21.4	0.4	0.01	0.1	26.3	0.6	0.01	0.8
85	10	15	38.3	0.7	0.01	0.3	25.5	0.3	0.01	0.1	29.6	0.4	0.01	0.5
150	28	-15	16.2	1.8	0.02	1.6	6.6	1.2	0.02	0.9	9.5	1.4	0.03	3.8
150	27	-7.5	21.0	1.6	0.02	1.3	11.0	1.0	0.01	0.7	14.2	1.2	0.03	2.9
150	27	0	25.6	1.4	0.02	1.0	15.1	0.8	0.01	0.4	18.7	1.0	0.02	2.1
150	26	7.5	30.1	1.2	0.01	0.8	17.7	0.5	0.01	0.2	23.1	0.8	0.02	1.5
150	25	15	34.5	1.0	0.01	0.6	23.1	0.4	0.01	0.1	27.4	0.6	0.02	1.0
215	51	-15	12.2	2.2	0.03	2.4	3.9	1.6	0.02	1.3	6.4	1.8	0.04	5.6
215	50	-7.5	17.3	2.0	0.02	1.9	8.8	1.3	0.02	1.0	11.4	1.5	0.04	4.3
215	48	0	22.3	1.7	0.02	1.5	13.5	1.0	0.01	0.7	16.4	1.3	0.03	3.2
215	47	7.5	27.2	1.5	0.02	1.2	17.7	0.8	0.01	0.4	21.2	1.0	0.02	2.2
215	46	15	32.1	1.2	0.02	0.9	21.7	0.5	0.01	0.1	25.9	0.8	0.02	1.4

CWW

Capacity of CWW 125-3-2.5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
85	4	-15	52.7	2.2	0.03	5.5	36.3	1.7	0.02	3.7	36.4	1.7	0.04	12.4
85	4	-7.5	54.8	2.0	0.02	4.6	38.2	1.4	0.02	2.9	38.4	1.4	0.04	9.7
85	4	0	56.8	1.7	0.02	3.7	39.9	1.2	0.01	2.2	40.3	1.2	0.03	7.4
85	4	7.5	58.7	1.5	0.02	2.9	41.5	1.0	0.01	1.6	42.0	1.0	0.02	5.4
85	3	15	60.5	1.3	0.02	2.3	42.7	0.8	0.01	1.1	43.6	0.8	0.02	3.7
150	10	-15	44.8	3.4	0.04	12.0	30.2	2.6	0.03	7.9	30.6	2.6	0.06	27.3
150	10	-7.5	47.6	3.1	0.04	9.9	32.8	2.2	0.03	6.1	33.2	2.3	0.06	21.2
150	9	0	50.3	2.7	0.03	8.0	35.2	1.9	0.02	4.6	35.8	1.9	0.05	16.1
150	9	7.5	52.8	2.4	0.03	6.4	37.5	1.6	0.02	3.3	38.2	1.6	0.04	11.7
150	9	15	55.2	2.0	0.03	4.9	39.5	1.2	0.02	2.3	40.4	1.3	0.03	8.0
215	18	-15	39.6	4.5	0.06	19.3	26.2	3.4	0.04	12.5	26.7	3.4	0.08	43.9
215	18	-7.5	42.8	4.0	0.05	15.9	29.2	2.9	0.04	9.7	29.8	3.0	0.07	34.2
215	17	0	45.9	3.6	0.04	12.8	32.1	2.5	0.03	7.3	32.7	2.5	0.06	25.8
215	17	7.5	48.9	3.1	0.04	10.2	34.8	2.1	0.02	5.3	35.6	2.1	0.05	18.7
215	16	15	51.7	2.7	0.03	7.8	37.3	1.6	0.02	3.5	38.3	1.7	0.04	12.8

Capacity of CWW 160-2-2.5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
145	6	-15	31.0	2.6	0.03	4.9	19.2	1.9	0.02	3.1	20.4	2.0	0.05	11.2
145	6	-7.5	34.9	2.3	0.03	4.0	22.8	1.6	0.02	2.4	24.1	1.7	0.04	8.7
145	6	0	38.6	2.0	0.02	3.2	26.3	1.4	0.02	1.8	27.7	1.4	0.04	6.6
145	6	7.5	42.2	1.8	0.02	2.6	29.6	1.1	0.01	1.3	31.1	1.2	0.03	4.7
145	5	15	45.7	1.5	0.02	2.0	32.6	0.9	0.01	0.8	34.5	1.0	0.02	3.2
250	15	-15	23.9	3.7	0.05	9.4	13.8	2.8	0.03	5.9	15.0	2.9	0.07	21.8
250	15	-7.5	28.3	3.3	0.04	7.7	18.1	2.4	0.03	4.6	19.3	2.5	0.06	16.9
250	14	0	32.6	2.9	0.04	6.2	22.2	2.0	0.02	3.4	23.4	2.1	0.05	12.7
250	14	7.5	36.8	2.6	0.03	4.9	26.2	1.6	0.02	2.4	27.5	1.9	0.04	9.2
250	14	15	40.9	2.2	0.03	3.8	30.0	1.3	0.02	1.6	31.5	1.4	0.03	6.2
355	27	-15	19.4	4.7	0.06	14.1	10.5	3.5	0.04	8.8	11.6	2.6	0.09	32.7
355	26	-7.5	24.2	4.2	0.05	11.6	15.1	3.0	0.04	6.8	16.2	3.2	0.08	25.4
355	26	0	28.9	3.7	0.05	9.3	19.6	2.5	0.03	5.0	20.8	2.7	0.06	19.1
355	25	7.5	33.4	3.2	0.04	7.3	24.0	2.1	0.02	3.6	25.3	2.2	0.05	13.7
355	25	15	37.9	2.8	0.03	5.6	28.3	1.6	0.02	2.3	29.6	1.8	0.04	9.3

Capacity of CWW 160-3-2.5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
145	9	-15	45.3	3.3	0.04	11.5	30.6	2.5	0.03	7.5	31.0	2.5	0.06	26.0
145	9	-7.5	48.1	3.0	0.04	9.5	33.1	2.2	0.03	5.9	33.6	2.2	0.05	20.3
145	9	0	50.7	2.6	0.03	7.7	35.5	1.9	0.02	4.4	36.0	1.9	0.05	15.4
145	9	7.5	53.2	2.3	0.03	6.1	37.7	1.5	0.02	3.2	38.4	1.6	0.04	11.2
145	8	15	55.5	2.0	0.02	4.7	39.7	1.2	0.01	2.2	40.6	1.3	0.03	7.7
250	23	-15	37.4	5.0	0.06	23.4	24.5	3.8	0.05	15.1	25.1	3.8	0.09	53.4
250	22	-7.5	40.8	4.5	0.05	19.2	27.7	3.3	0.04	11.7	34.5	2.4	0.06	22.7
250	22	0	44.0	4.0	0.05	15.5	30.7	2.8	0.03	8.8	31.4	2.8	0.07	31.4
250	21	7.5	47.2	3.5	0.04	12.3	33.7	2.3	0.03	6.3	34.5	2.4	0.06	22.7
250	21	15	50.2	3.0	0.04	9.5	36.4	1.8	0.02	4.3	37.3	1.9	0.05	15.5
355	42	-15	32.2	6.4	0.08	36.2	20.5	4.8	0.06	23.2	21.2	4.9	0.12	82.9
355	41	-7.5	36.0	5.7	0.07	29.7	24.1	4.2	0.05	18.0	24.8	4.3	0.10	64.5
355	39	0	39.7	5.1	0.06	24.0	27.6	3.5	0.04	13.5	28.4	3.6	0.09	48.7
355	38	7.5	43.3	4.4	0.05	19.0	31.0	2.9	0.04	9.7	31.8	3.0	0.07	35.2
355	37	15	46.7	3.8	0.05	14.6	34.2	2.3	0.03	6.5	35.1	2.4	0.06	24.0

Capacity of CWW 200-2-2.5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
225	13	-15	25.2	3.5	0.04	8.3	14.9	2.6	0.03	5.2	16.0	2.7	0.06	19.2
225	12	-7.5	29.6	3.1	0.04	6.8	19.0	2.2	0.03	4.0	20.2	2.3	0.06	14.9
225	12	0	33.8	2.7	0.03	5.5	23.0	1.9	0.02	3.0	24.3	2.0	0.05	11.2
225	12	7.5	37.8	2.4	0.03	4.3	26.8	1.5	0.02	2.1	28.2	1.6	0.04	8.1
225	11	15	41.8	2.0	0.03	3.3	30.5	1.2	0.01	1.4	32.1	1.3	0.03	5.5
390	32	-15	18.3	5.0	0.06	15.7	9.6	3.7	0.04	9.8	10.7	3.8	0.09	36.4
390	31	-7.5	23.1	4.4	0.05	12.9	14.4	3.2	0.04	7.5	15.5	3.3	0.08	28.3
390	30	0	27.9	3.9	0.05	10.4	19.0	2.7	0.03	5.6	20.1	2.8	0.07	21.3
390	30	7.5	32.6	3.4	0.04	8.1	23.5	2.2	0.03	3.9	24.7	2.3	0.06	15.3
390	29	15	37.1	2.9	0.04	6.2	27.8	1.7	0.02	2.6	29.1	1.9	0.05	10.3
555	57	-15	14.1	6.2	0.08	23.1	6.5	4.6	0.06	14.3	7.5	4.8	0.12	53.9
555	56	-7.5	19.3	5.5	0.07	18.9	11.6	3.9	0.05	11.0	12.6	4.1	0.10	41.8
555	55	0	24.4	4.9	0.06	15.2	16.5	3.3	0.04	8.1	17.6	3.5	0.09	31.3
555	53	7.5	29.4	4.2	0.05	11.9	21.4	2.7	0.03	5.7	22.5	2.9	0.07	22.5
555	52	15	34.3	3.6	0.04	9.1	26.2	2.1	0.03	3.7	27.4	2.3	0.06	15.1

CWW

Capacity of CWW 200-3-2.5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
225	7	-15	47.5	5.4	0.07	6.4	32.2	4.1	0.05	4.1	32.6	4.1	0.10	14.4
225	7	-7.5	50.1	4.8	0.06	5.2	34.5	3.5	0.04	3.2	35.0	3.5	0.09	11.2
225	7	0	52.5	4.3	0.05	4.2	36.7	3.0	0.04	2.4	37.3	3.0	0.07	8.4
225	6	7.5	54.8	3.7	0.05	3.3	38.7	2.5	0.03	1.7	39.4	2.5	0.06	6.1
225	6	15	56.9	3.2	0.04	2.6	40.4	1.9	0.02	1.2	41.5	2.0	0.05	4.2
390	18	-15	39.6	8.1	0.10	13.3	26.1	6.1	0.07	8.5	26.8	6.2	0.15	30.3
390	17	-7.5	42.8	7.3	0.09	10.9	29.1	5.3	0.06	6.6	29.8	5.4	0.13	23.5
390	17	0	45.9	6.4	0.08	8.8	32.0	4.5	0.05	4.9	32.7	4.6	0.11	17.7
390	16	7.5	48.8	5.6	0.07	6.9	34.7	3.7	0.05	3.5	35.5	3.8	0.09	12.8
390	16	15	51.6	4.9	0.06	5.3	37.1	2.9	0.04	2.4	38.2	3.1	0.07	8.7
555	32	-15	34.4	10.5	0.13	20.8	22.1	7.9	0.10	13.2	22.9	8.0	0.19	47.8
555	31	-7.5	38.0	9.4	0.11	17.1	25.6	6.8	0.08	10.2	26.3	7.0	0.17	37.1
555	30	0	41.5	8.3	0.10	13.8	28.8	5.8	0.07	7.6	29.7	5.9	0.14	27.9
555	29	7.5	44.9	7.3	0.09	10.8	32.0	4.8	0.06	5.5	32.9	4.9	0.12	20.1
555	29	15	48.1	6.2	0.08	8.3	35.0	3.8	0.05	3.6	36.0	4.0	0.10	13.6

Capacity of CWW 250-2-2.5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
360	10	-15	26.8	5.8	0.07	5.1	16.0	4.3	0.05	3.1	17.3	4.4	0.11	11.7
360	10	-7.5	31.0	5.1	0.06	4.2	19.9	3.7	0.04	2.4	21.3	3.8	0.09	9.1
360	10	0	35.1	4.5	0.06	3.3	23.7	3.1	0.04	1.8	25.2	3.3	0.08	6.8
360	9	7.5	39.0	4.0	0.05	2.6	27.4	2.5	0.03	1.2	29.0	2.7	0.07	4.9
360	9	15	42.8	3.4	0.04	2.0	30.8	1.9	0.02	0.8	32.7	2.2	0.05	3.3
630	25	-15	19.7	8.3	0.10	9.9	10.6	6.2	0.07	6.0	11.8	6.4	0.16	23.0
630	25	-7.5	24.4	7.5	0.09	8.1	15.2	5.3	0.06	4.6	16.4	5.6	0.14	17.8
630	24	0	29.0	6.6	0.08	6.5	19.7	4.5	0.05	3.4	20.9	4.8	0.12	13.3
630	24	7.5	33.6	5.7	0.07	5.1	24.0	3.6	0.04	2.4	25.4	3.9	0.10	9.5
630	23	15	38.0	4.9	0.06	3.8	28.2	2.8	0.03	1.5	29.7	3.1	0.08	6.4
900	46	-15	15.3	10.4	0.13	14.7	7.4	7.7	0.09	9.0	8.5	8.1	0.20	34.5
900	45	-7.5	20.4	9.3	0.11	12.0	12.3	6.6	0.08	6.9	13.5	7.0	0.17	26.7
900	44	0	25.4	8.2	0.10	9.6	17.2	5.6	0.07	5.1	18.4	6.0	0.14	19.9
900	43	7.5	30.3	7.2	0.09	7.5	21.9	4.5	0.06	3.5	23.2	4.9	0.12	14.2
900	42	15	35.1	6.2	0.08	5.7	26.5	3.5	0.04	2.3	27.9	3.9	0.10	9.5

Capacity of CWW 250-3-2.5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
360	7	-15	47.6	8.6	0.11	6.9	32.3	6.5	0.08	4.5	32.7	6.6	0.16	15.6
360	7	-7.5	50.2	7.7	0.09	5.6	34.7	5.6	0.07	3.5	35.1	5.7	0.14	12.1
360	7	0	52.6	6.8	0.08	4.6	36.9	4.8	0.06	2.6	37.4	4.8	0.12	9.1
360	7	7.5	54.9	6.0	0.07	3.6	38.8	3.9	0.05	1.9	39.5	4.0	0.10	6.6
360	6	15	57.1	5.1	0.06	2.8	40.6	3.1	0.04	1.3	41.5	3.2	0.08	4.5
630	18	-15	39.6	13.1	0.16	14.6	26.1	9.9	0.12	9.3	26.7	10.0	0.24	33.3
630	18	-7.5	42.8	11.7	0.14	12.0	29.1	8.6	0.10	7.2	29.8	8.7	0.21	25.8
630	17	0	45.8	10.4	0.13	9.6	32.0	7.3	0.09	5.4	32.7	7.4	0.18	19.4
630	17	7.5	48.8	9.1	0.11	7.6	34.7	6.0	0.07	3.9	35.5	6.2	0.15	14.0
630	16	15	51.6	7.8	0.10	5.8	37.3	4.8	0.06	2.6	38.2	5.0	0.12	9.5
900	33	-15	34.3	16.9	0.21	23.0	22.1	12.7	0.15	14.6	22.8	13.0	0.31	52.9
900	32	-7.5	37.9	15.2	0.19	18.9	25.5	11.0	0.13	11.3	26.2	11.3	0.27	41.0
900	31	0	41.4	13.4	0.16	15.2	28.8	9.3	0.11	8.4	29.6	9.6	0.23	30.8
900	30	7.5	44.8	11.8	0.14	12.0	32.0	7.7	0.09	6.0	32.9	8.0	0.19	22.1
900	29	15	48.1	10.1	0.12	9.2	35.0	6.1	0.07	4.0	36.0	6.4	0.16	15.0

Capacity of CWW 315-2-2.5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
560	10	-15	27.3	9.0	0.11	5.4	16.4	6.7	0.08	3.4	17.6	7.0	0.17	12.5
560	9	-7.5	31.5	8.1	0.10	4.4	20.3	5.8	0.07	2.6	21.6	6.0	0.15	9.7
560	9	0	35.5	7.2	0.09	3.6	24.1	4.9	0.06	1.9	25.5	5.1	0.12	7.3
560	9	7.5	39.4	6.2	0.08	2.8	27.8	4.0	0.05	1.3	29.3	4.3	0.10	5.2
560	9	15	43.2	5.4	0.07	2.1	31.2	3.1	0.04	0.9	32.9	3.4	0.08	3.5
985	25	-15	20.0	13.2	0.16	10.7	10.9	9.8	0.12	6.5	12.1	10.2	0.25	24.8
985	24	-7.5	24.8	11.8	0.14	8.7	15.5	8.4	0.10	5.0	16.7	8.8	0.21	19.2
985	24	0	29.4	10.4	0.13	7.0	20.0	7.1	0.09	3.7	21.2	7.5	0.18	14.3
985	23	7.5	33.9	9.1	0.11	5.5	24.3	5.8	0.07	2.6	25.6	6.2	0.15	10.2
985	22	15	38.3	7.8	0.10	4.1	28.5	4.5	0.05	1.7	29.9	5.0	0.12	6.8
1410	45	-15	15.7	16.5	0.20	16.0	7.7	12.2	0.15	9.7	8.7	12.8	0.31	37.5
1410	44	-7.5	20.7	14.8	0.18	13.1	12.6	10.5	0.13	7.4	13.7	11.1	0.27	28.9
1410	43	0	25.7	13.1	0.16	10.5	17.4	8.9	0.11	5.5	18.6	9.4	0.23	21.6
1410	42	7.5	30.6	11.4	0.14	8.2	22.2	7.2	0.09	3.8	23.3	7.8	0.19	15.4
1410	41	15	35.4	9.8	0.12	6.2	26.8	5.6	0.07	2.5	28.0	6.2	0.15	10.3

CWW

Capacity of CWW 315-3-2.5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
560	8	-15	46.9	13.2	0.16	9.2	31.9	10.0	0.12	5.9	32.1	10.1	0.24	20.7
560	8	-7.5	49.5	11.8	0.15	7.5	34.3	8.7	0.11	4.6	34.6	8.7	0.21	16.1
560	7	0	52.0	10.5	0.13	6.1	36.6	7.4	0.09	3.4	37.0	7.5	0.18	12.1
560	7	7.5	54.4	9.2	0.11	4.8	38.7	6.1	0.07	2.5	39.2	6.2	0.15	8.8
560	7	15	56.7	7.9	0.10	3.7	40.6	4.9	0.06	1.7	41.3	5.0	0.12	6.0
985	20	-15	38.7	20.2	0.25	19.6	25.5	15.3	0.19	12.4	26.0	15.4	0.37	44.7
985	20	-7.5	42.0	18.1	0.22	16.0	28.7	13.2	0.16	9.6	29.2	13.4	0.33	34.6
985	19	0	45.2	16.0	0.20	12.9	31.6	11.2	0.14	7.2	32.2	11.4	0.28	26.0
985	19	7.5	48.2	14.0	0.17	10.2	34.4	9.3	0.11	5.2	35.1	9.5	0.23	18.7
985	18	15	51.2	12.1	0.15	7.8	37.1	9.4	0.09	3.4	37.9	7.7	0.19	12.7
1410	37	-15	33.4	26.1	0.32	30.9	21.5	19.6	0.24	19.5	22.1	20.0	0.48	71.0
1410	36	-7.5	37.1	23.3	0.29	25.3	25.0	17.0	0.21	15.1	25.6	17.3	0.42	55.0
1410	35	0	40.7	20.7	0.25	20.4	28.4	14.4	0.18	11.3	29.1	14.8	0.36	41.3
1410	34	7.5	44.2	18.1	0.22	16.0	31.7	11.9	0.15	8.0	32.4	12.3	0.30	29.7
1410	33	15	47.6	15.6	0.19	12.3	34.8	9.5	0.12	5.3	35.7	9.9	0.24	20.1

Capacity of CWW 400-2-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
900	11	-15	26.3	14.2	0.17	7.6	15.7	10.6	0.13	4.7	16.8	10.9	0.26	17.6
900	11	-7.5	30.5	12.7	0.16	6.2	19.8	9.1	0.11	3.6	20.9	9.5	0.23	13.6
900	11	0	34.6	11.2	0.14	5.0	23.7	7.7	0.09	2.7	24.9	8.1	0.20	10.2
900	11	7.5	38.7	9.8	0.12	3.9	27.5	6.3	0.08	1.9	28.8	6.7	0.16	7.3
900	10	15	42.5	8.4	0.10	3.0	31.1	4.9	0.06	1.2	32.5	5.4	0.13	4.9
1590	29	-15	19.0	20.6	0.25	15.0	10.2	15.3	0.19	9.2	11.2	15.9	0.39	35.0
1590	29	-7.5	23.8	18.5	0.23	12.3	14.9	13.2	0.16	7.0	15.9	13.8	0.34	27.0
1590	28	0	28.5	16.3	0.20	9.8	19.5	11.1	0.14	5.2	20.5	11.8	0.29	20.2
1590	27	7.5	33.1	14.3	0.17	7.7	23.9	9.1	0.11	3.6	25.1	1.8	0.24	14.4
1590	27	15	37.7	12.2	0.15	5.8	28.2	7.1	0.09	2.4	29.5	7.8	0.19	9.6
2280	53	-15	14.6	25.8	0.32	22.6	7.0	19.1	0.23	13.7	7.9	20.0	0.48	52.9
2280	52	-7.5	19.8	23.1	0.28	18.4	12.0	16.5	0.20	10.5	13.0	17.3	0.42	40.8
2280	51	0	24.9	20.4	0.25	14.8	16.9	13.9	0.17	7.7	18.0	14.7	0.36	30.4
2280	50	7.5	29.9	17.8	0.22	11.5	21.8	11.4	0.14	5.4	22.8	12.2	0.30	21.7
2280	49	15	34.8	15.3	0.19	8.7	26.5	8.9	0.11	3.5	27.6	9.8	0.24	14.4

Capacity of CWW 400-3-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
900	8	-15	46.8	21.2	0.26	10.9	31.8	16.1	0.20	6.9	32.0	16.2	0.39	24.6
900	8	-7.5	49.4	19.0	0.23	8.9	34.3	13.9	0.17	5.4	34.5	14.0	0.34	19.1
900	8	0	52.0	16.8	0.21	7.2	36.6	11.9	0.14	4.0	36.9	12.0	0.29	14.3
900	7	7.5	54.4	14.8	0.18	5.6	38.7	9.8	0.12	2.9	39.2	10.0	0.24	10.3
900	7	15	56.6	12.7	0.16	4.3	40.6	7.8	0.10	1.9	41.3	8.1	0.19	7.0
1590	21	-15	38.5	32.5	0.40	23.5	25.4	24.5	0.30	14.8	25.9	24.8	0.60	53.7
1590	20	-7.5	41.8	29.1	0.36	19.2	28.6	21.3	0.26	11.4	29.1	21.6	0.52	41.5
1590	20	0	45.0	25.8	0.32	15.4	31.6	18.1	0.22	8.5	32.1	18.4	0.45	31.1
1590	19	7.5	48.1	22.6	0.28	12.1	34.4	15.0	0.18	6.1	35.0	15.3	0.37	22.4
1590	19	15	51.1	19.5	0.24	9.3	37.1	11.9	0.14	4.1	37.8	12.3	0.30	15.1
2280	38	-15	33.1	41.9	0.51	37.4	21.3	31.6	0.38	23.4	21.9	32.1	0.78	85.9
2280	37	-7.5	36.9	37.5	0.46	30.6	24.9	27.4	0.33	18.0	25.5	27.9	0.68	66.4
2280	36	0	40.5	33.3	0.41	24.5	28.3	23.3	0.28	13.4	29.0	23.8	0.58	49.7
2280	35	7.5	44.0	29.1	0.36	19.3	31.6	19.2	0.23	9.6	32.3	19.8	0.48	35.6
2280	34	15	47.4	25.1	0.31	14.7	34.8	15.3	0.19	6.3	35.6	15.9	0.39	24.1

Capacity of CWW 500-2-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
1400	11	-15	26.6	22.2	0.27	9.1	16.0	16.6	0.20	5.6	17.0	17.1	0.42	21.2
1400	11	-7.5	30.8	19.9	0.24	7.4	20.1	14.3	0.17	4.3	21.1	14.8	0.36	16.3
1400	11	0	34.9	17.6	0.22	6.0	24.0	12.1	0.15	3.2	25.1	12.6	0.31	12.2
1400	10	7.5	38.9	15.4	0.19	4.7	27.7	9.9	0.12	2.2	28.9	10.5	0.25	8.7
1400	10	15	42.8	13.2	0.16	3.5	31.3	7.8	0.09	1.4	32.7	8.4	0.20	5.8
2450	28	-15	19.4	32.2	0.39	18.0	10.6	23.9	0.29	10.9	11.5	24.8	0.60	41.9
2450	27	-7.5	24.2	28.8	0.35	14.7	15.2	20.7	0.25	8.3	16.2	21.5	0.52	32.3
2450	27	0	28.9	25.5	0.31	11.7	19.8	17.4	0.21	6.1	20.8	18.3	0.45	24.0
2450	26	7.5	33.5	22.3	0.27	9.2	24.2	14.3	0.17	4.3	25.3	15.2	0.37	17.1
2450	26	15	38.0	19.1	0.23	6.9	28.5	11.2	0.14	2.8	29.7	12.2	0.30	11.4
3500	51	-15	15.1	40.2	0.49	27.0	7.3	29.8	0.36	16.3	8.2	31.1	0.75	63.3
3500	50	-7.5	20.2	36.0	0.44	22.0	12.3	25.7	0.31	12.4	13.3	27.0	0.65	48.7
3500	49	0	25.3	31.8	0.39	17.6	17.3	21.7	0.26	9.1	18.2	23.0	0.56	36.2
3500	48	7.5	30.2	27.8	0.34	13.7	22.1	17.8	0.22	6.4	23.1	19.1	0.46	25.8
3500	46	15	35.1	23.9	0.29	10.4	26.8	14.0	0.17	4.1	27.8	15.2	0.37	17.1

Regulators



AQUA24TF



RC



RC-DO



OPTIGO OP10

AQUA

Complete regulator with built-in room sensor. Floating control for controlling three-position actuators. Cascade connection with minimum limit for room temperature control. Can be equipped with external room and/or duct sensor and external setpoint adjustment. Temperature range 0 - 30°C, depending on the sensor employed.

AQUA24TF

24V supply. The regulator has a built-in controlling anti-freeze protection with two alarm relays and automatic control for heating during stoppage.

REGIO MINI

Complete regulator with built-in room sensor. Can be equipped with external room and/or duct sensors. Has two control outputs, e.g. for heating and cooling in sequence.

RC

24V supply. 0...10V output control signal. DIP switches are used for basic 20 - 26°C setpoint setting. The basic setting can be adjusted by $\pm 3^\circ\text{C}$ by means of the setpoint knob.

RC-DO

24V supply. 0...10V output control signal. The RC-DO has a back-lit display and a temperature range of 0 - 50°C.

OPTIGO

Regulator with display. One knob for all settings. For mounting on DIN rail. Operates with PT1000 sensor in the range of -20°C to $+40^\circ\text{C}$. Started/stopped with "run" signal from the fan.

OP5

24V supply. 0...10V control signal output. Operates with one sensor (room or duct sensor). Can be reset for heating or cooling control.

OP10

24V supply. Can be reset for 0...10V control signal output or 3-point control. Two control outputs, e.g. for heating and cooling in sequence. Input for two sensors and anti-freeze sensor. Supply air temperature control or room temperature control with cascade-controlled supply air. Anti-freeze control with heating during stoppage. Output, e.g. for starting/stopping of fans via 230V~, 5A relay. Programmable one-week timer for controlling of both fan and heating/cooling. Terminal for external timer that extends the operating time. Can be equipped with external setpoint adjuster.

OP10-230

Same functions as the OP10, but with 230V~ supply.

Accessories for AQUA

	Product	Range	Design
	Duct sensor TG-K330	0-30°C	Degree of protection IP20
	Room sensor TG-R430 with setpoint adjustment	0-30°C	Degree of protection IP30
	Room sensor TG-R530	0-30°C	Degree of protection IP30
	Room sensor TG-R630	0-30°C	Degree of protection IP54
	Direct-contact sensor TG-A130 Delivered with clamp.	0-30°C	Degree of protection IP65
	Trafo 60 Totally enclosed transformer for wall mounting. Built-in two- pole fuse on secondary side.		Primary voltage 230V~ Secondary voltage 24V~ Max. rating 60 VA Degree of protection IP44

Accessories for OPTIGO and REGIO

	Product	Range	Design
	Duct sensor TG-K3/PT1000	-30...+70°C	Degree of protection IP65
	Room sensor TG-R5/PT1000	0-50°C	Degree of protection IP30
	Room sensor TG-UH/PT1000	-30...+120°C	Degree of protection IP65
	Direct-contact sensor TG-A130 Delivered with clamp.	-30...+150°C	Degree of protection IP65
	Trafo 60 Totally enclosed transformer for wall mounting. Built-in two- pole fuse on secondary side.		Primary voltage 230V~ Secondary voltage 24V~ Max. rating 60 VA Degree of protection IP44

Actuators and valves for Kvs 0.25 – 8.0 (110°C max)

Description	Type
3-position actuator for ZTV/ZTR valves, degree of protection IP44	RVAZ4-24
Actuator for 0...10V signal for ZTV/ZTR valves, degree of protection IP44	RVAZ4-24A

Description	Kvs	Type
2-way 1/2" valve	0.25	ZTV15-0,25
2-way 1/2" valve	0.4	ZTV15-0,4
2-way 1/2" valve	0.6	ZTV15-0,6
2-way 1/2" valve	1.0	ZTV15-1,0
2-way 1/2" valve	1.6	ZTV15-1,6
2-way 3/4" valve	2.0	ZTV20-2,0
2-way 3/4" valve	2.5	ZTV20-2,5
2-way 3/4" valve	4.0	ZTV20-4,0
2-way 3/4" valve	6.0	ZTV20-6,0
2-way 1" valve	8.0	ZTVB25-8,0
3-way 1/2" valve	0,25	ZTR15-0,25
3-way 1/2" valve	0,4	ZTR15-0,4
3-way 1/2" valve	0,6	ZTR15-0,6
3-way 1/2" valve	1,0	ZTR15-1,0
3-way 1/2" valve	1,6	ZTR15-1,6
3-way 3/4" valve	2,0	ZTR20-2,0
3-way 3/4" valve	2,5	ZTR20-2,5
3-way 3/4" valve	4,0	ZTR20-4,0
3-way 3/4" valve	6,0	ZTR20-6,0
3-way 1" valve	8,0	ZTRB25-8,0



Actuator RVAZ4-24



Valve ZTV



Valve ZTR



Actuator RVA5-24

Actuators and valves for Kvs 1.0 – 16.0 (BTV max 140°C, BTR max 185°C)

Description	Type
3-position actuator for BTV/BTR valves, degree of protection IP54	RVA5-24
Actuator for 0...10V signal for BTV/BTR valves, degree of protection IP54	RVA5-24A

Description	Kvs	Type
2-way 1/2" valve	1.0	BTV15-1,0
2-way 1/2" valve	1.6	BTV15-1,6
2-way 1/2" valve	2.5	BTV15-2,5
2-way 3/4" valve	3.9	BTV20-3,9
2-way 3/4" valve	6.3	BTV25-6,3
2-way 1" valve	10.0	BTV25-10,0
2-way 1/4" valve	16.0	BTV32-16,0
3-way 1/2" valve	0.63	BTR15-0,63
3-way 1/2" valve	1.0	BTR15-1,0
3-way 1/2" valve	1.6	BTR15-1,6
3-way 1/2" valve	2.1	BTR15-2,1
3-way 1/2" valve	2.7	BTR15-2,7
3-way 3/4" valve	4.2	BTR20-4,2
3-way 3/4" valve	5.6	BTR20-5,6
3-way 1" valve	10.0	BTR25-10,0
3-way 1/4" valve	16.0	BTR32-16,0



Valve BTV



Valve BTR

Guide for selection of valves and actuators for CWW heaters

110°C max. water temperature

Actuator RVAZ4-24 (3-position) or RVAZ4-24A (0...10V) can be used for all ZTV/ZTR valves.

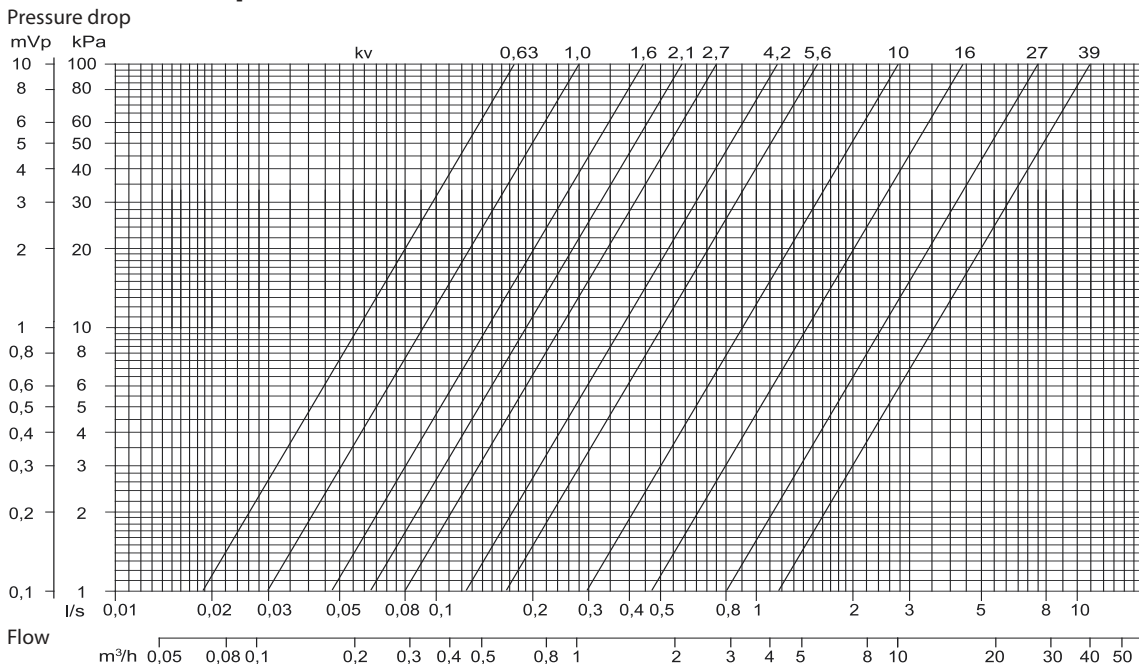
Type of CWW	Valve type	Kvs
CWW 100-2-2,5	2-way ZTV15-0,4	0.4
	3-way ZTR15-0,4	0.4
CWW 100-3-2,5	2-way ZTV15-0,4	0.4
	3-way ZTR15-0,4	0.4
CWW 125-2-2,5	2-way ZTV15-0,6	0.6
	3-way ZTR15-0,6	0.6
CWW 125-3-2,5	2-way ZTV15-0,4	0.4
	3-way ZTR15-0,4	0.4
CWW 160-2-2,5	2-way ZTV15-0,6	0.6
	3-way ZTR15-0,6	0.6
CWW 160-3-2,5	2-way ZTV15-0,4	0.4
	3-way ZTR15-0,4	0.4
CWW 200-2-2,5	2-way ZTV15-0,6	0.6
	3-way ZTR15-0,6	0.6
CWW 200-3-2,5	2-way ZTV15-1,0	1.0
	3-way ZTR15-1,0	1.0
CWW 250-2-2,5	2-way ZTV15-1,6	1.6
	3-way ZTR15-1,6	1.6
CWW 250-3-2,5	2-way ZTV15-1,6	1.6
	3-way ZTR15-1,6	1.6
CWW 315-2-2,5	2-way ZTV15-1,6	1.6
	3-way ZTR15-1,6	1.6
CWW 315-3-2,5	2-way ZTV15-1,6	1.6
	3-way ZTR15-1,6	1.6
CWW 400-2-2,5	2-way ZTV20-2,5	2.5
	3-way ZTR20-2,5	2.5
CWW 400-3-2,5	2-way ZTV20-2,5	2.5
	3-way ZTR20-2,5	2.5
CWW 500-2-2,5	2-way ZTV20-4,0	4.0
	3-way ZTR20-4,0	4.0

140°C (BTV) / 185°C (BTR) max. water temperature

Actuator RVA5-24 (3-position) or RVA5-24A (0...10V) can be used for all BTV/BTR valves.

Type of CWW	Valve type	Kvs
CWW 100-2-2,5	2-way BTV15-1,0	1.0
CWW 100-3-2,5	2-way BTV15-1,0	1.0
CWW 125-2-2,5	2-way BTV15-1,0	1.0
CWW 125-3-2,5	2-way BTV15-1,0	1.0
CWW 160-2-2,5	2-way BTV15-1,0	1.0
CWW 160-3-2,5	2-way BTV15-1,0	1.0
CWW 200-2-2,5	2-way BTV15-1,0	1.0
CWW 200-3-2,5	2-way BTV15-1,0	1.0
CWW 250-2-2,5	2-way BTV15-1,0	1.0
CWW 250-3-2,5	2-way BTV15-1,6	1.6
	3-way BTR15-1,6	1.6
CWW 315-2-2,5	2-way BTV15-1,6	1.6
	3-way BTR15-1,6	1.6
CWW 315-3-2,5	2-way BTV15-1,6	1.6
	3-way BTR15-1,6	1.6
CWW 400-2-2,5	2-way BTV15-2,5	2.5
	3-way BTR15-2,5	2.5
CWW 400-3-2,5	2-way BTV15-2,5	2.5
	3-way BTR15-2,5	2.5
CWW 500-2-2,5	2-way BTV20-3,9	3.9
	3-way BTR20-4,2	4.2

Pressure drops across valves





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