Description

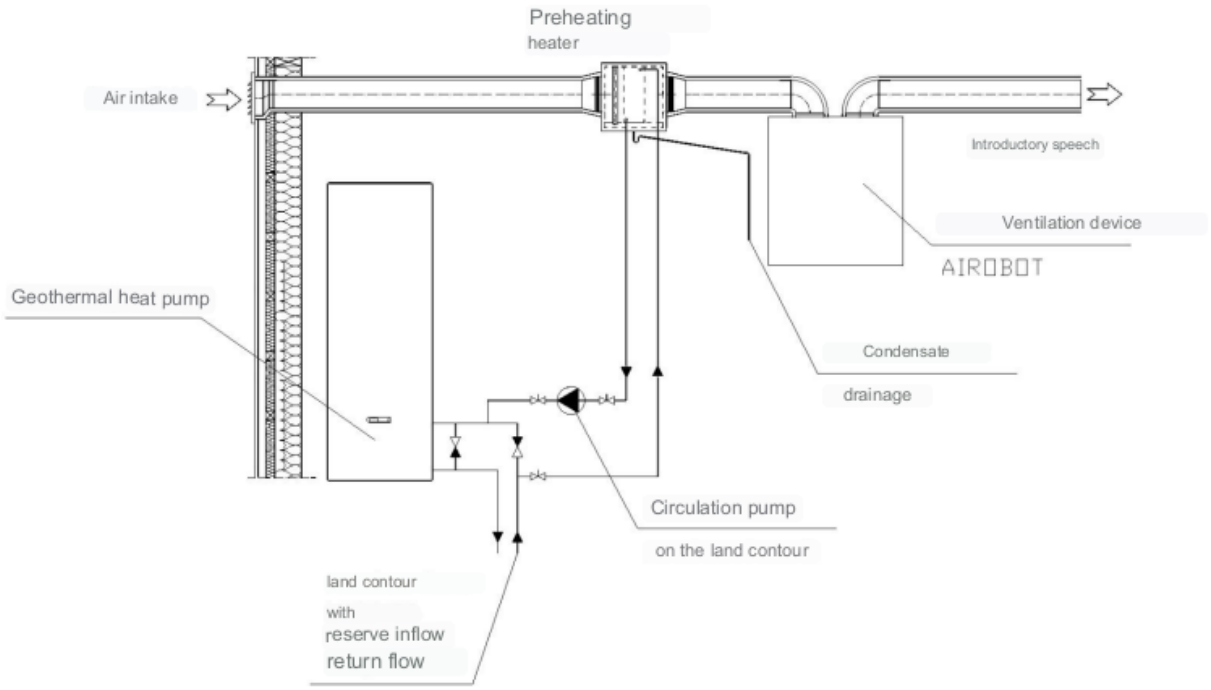
The heater CWC is intended for cooling or heating the ventilation air of the ventilation system. CWC can also be used to cool or heat individual rooms or zones.

In the case of a geothermal heating solution, the CWC is installed between the outdoor air piping and the unit according to the drawing. **Due to the risk of freezing, it is not allowed to use heating water with Airobot ventilation devices, but only a frost-resistant substance (ground heating circuit).**

Features:

- Hydrophilic aluminum cooling coil with 3 rows of tubes
- Stainless steel outlet for condensate collection (G1/2)
- Alzinc coated sheet steel casing, AZ 150
- Cover that can be opened for inspection and cleaning
- Round duct connections with rubber seals
- D15 air tightness class according to EN 15727
- Maximum working pressure 1.0 Mpa (10 bar)
- Maximum liquid temperature 110*C

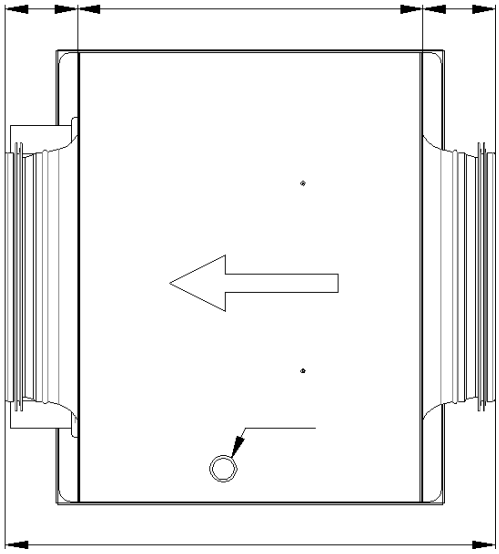
Installation

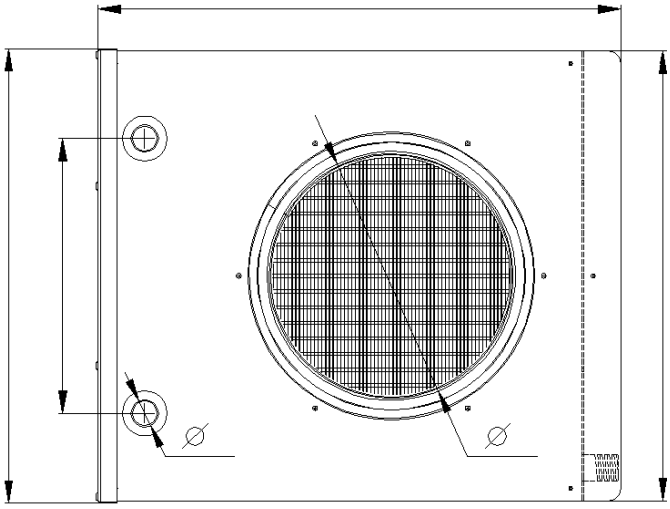


- To ensure condensate drainage, it is allowed to install the heater only horizontally .
- The heater must be installed in an accessible location as it may require service or maintenance.

- In the case of a solution based on natural gas heating, where the heater is installed in the outdoor air pipeline, it is mandatory to use a coarse filter cartridge that protects the heater from major dirt.
- To facilitate venting of the heater, the fluid inlet should normally be connected to the lowest pipe fitting. The vent valve should usually be installed near the heat exchanger or at the highest point in the system.

Dimensions





Model	*ØD(mm)*	*A(mm)*	*B(mm)*	*C(mm)*	*E(mm)*	*F(mm)*	*G(mm)*	*Ød(mm)*
CWC 160	160	259	330	397	277	60	145	10
CWC 200	200	360	415	397	277	60	220	22
CWC 250	250	360	415	417	277	70	220	22
CWC 315	315	509	580	517	277	120	375	22

Characteristics

CWC 160

Water temperature				*In / out 6 °C /12 °C*			
Air volume	*Pressure drop*	*Incoming air*	*The humidity of the incoming air*	*Outgoing air*	*Power*	*Amount of water*	*Water pressure drop*
m³/h	*Pa*	*°C*	*% RH*	*°C*	*kW*	*l/s*	*kPa*
145	12	20	65	13.5	0.4	0.02	0.8
145	13	25	55	15.2	0.6	0.03	1.7
145	13	30	45	16.7	0.8	0.04	2.9
290	28	20	65	15.1	0.5	0.02	1.3
290	31	25	55	17.5	0.9	0.04	3.1
290	34	30	45	18.4	1.5	0.06	7.9
430	48	20	65	15.9	0.6	0.03	1.7
430	56	25	55	18.0	1,2	0.05	5.7
430	60	30	45	19.8	2.0	0.08	12.4

CWC 200

Water temperature	*In / out 6 °C /12 °C*

Air volume	*Pressure drop*	*Incoming air*	*The humidity of the incoming air*	*Outgoing air*	*Power*	*Amount of water*	*Water pressure drop*
m³/h	*Pa*	*°C*	*% RH*	*°C*	*kW*	*l/s*	*kPa*
225	9	20	65	12.8	0.7	0.03	1,2
225	9	25	55	14.2	1.1	0.05	2.7
225	10	30	45	14.2	1.7	0.07	5.7
450	19	20	65	14.5	0.9	0.04	2.1
450	22	25	55	15.4	2.0	0.08	7.4
450	23	30	45	16.4	3.0	0.12	14.3
680	34	20	65	15.5	1.1	0.05	2.9
680	40	25	55	16.4	2.7	0.11	12.3
680	42	30	45	18.0	3.9	0.16	23.2

CWC 250

Water temperature				*In / out 6 °C /12 °C*			
Air volume	*Pressure drop*	*Air volume*	*Pressure drop*	*Outgoing air*	*Power*	*Amount of water*	*Water pressure drop*
m³/h	*Pa*	*°C*	*% RH*	*°C*	*kW*	*l/s*	*kPa*
355	14	20	65	13.9	0.8	0.04	1.8
355	16	25	55	14.9	1.7	0.07	5.4
355	17	30	45	15.6	2.5	0.10	10.6
710	36	20	65	15.6	1,2	0.05	3.0
710	43	25	55	16.6	2.8	0.11	12.9
710	45	30	45	18.2	4.0	0.16	24.4
1060	69	20	65	15.6	1.9	0.08	6.6
1060	78	25	55	17.8	3.6	0.14	19.7
1060	81	30	45	20.0	5.1	0.20	36.7

CWC 315

Water temperature				*In / out 6 °C /12 °C*			
Air volume	*Pressure drop*	*Air volume*	*Pressure drop*	*Outgoing air*	*Power*	*Amount of water*	*Water pressure drop*
m³/h	*Pa*	*°C*	*% RH*	*°C*	*kW*	*l/s*	*kPa*
560	9	20	65	13.3	1.5	0.06	1.1
560	10	25	55	15.0	2.5	0.10	2.4
560	10	30	45	14.8	4.1	0.17	5.8
1120	20	20	65	14.9	2.2	0.09	1.9
1120	24	25	55	15.8	4.8	0.19	7.6
1120	25	30	45	17.1	7.1	0.28	14.5
1680	37	20	65	15.3	3.0	0.12	3,4
1680	43	25	55	16.8	6.5	0.26	12.5
1680	45	30	45	18.6	9.3	0.37	23.5