Description

The duct device (calorifer) CWC is designed to cool or heat the air in the ventilation system.

Attention! If the calorifer is installed in the outdoor air pipeline, then only a frost-resistant substance, such as a glycol-based liquid or similar, should be used in the calorifer. Otherwise, the chicken coop may freeze and become damaged.

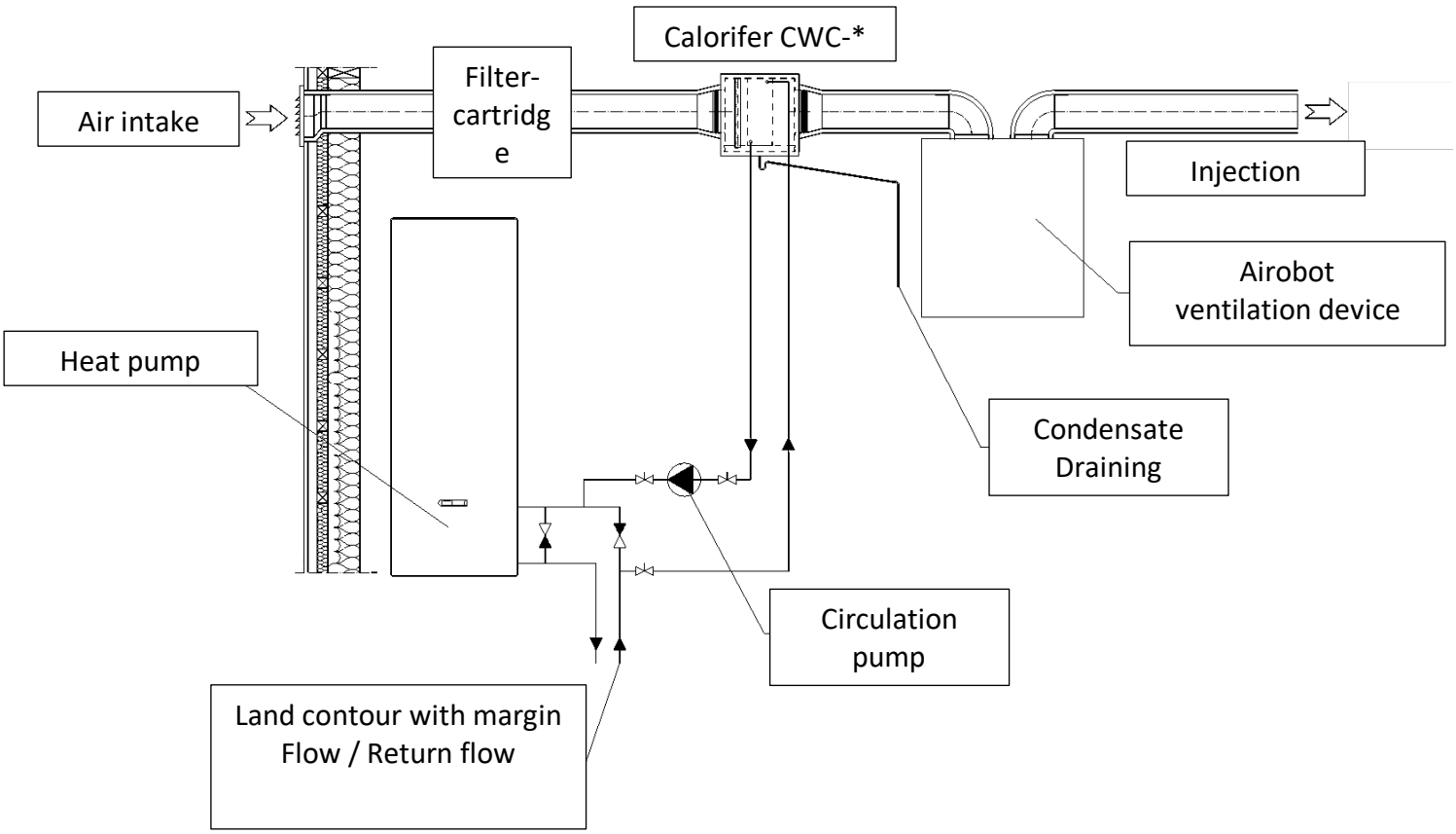
Consult with specialists in heating systems about the installation, conditions and technical solutions of the calorifer.

Features:

- Hydrophilic aluminum 3 tube row cooling calorifer
- Stainless steel extractor for collecting condensate (G1/2)
- Aluzinc coated sheet steel case
- Cover can be opened for inspection and cleaning
- Round channel connections with rubber seals
- D air density class according to EN 15727
- Maximum working pressure 1,0 Mpa (10 bar)
- Maximum liquid temperature 110°oC

Installation diagram for outdoor duct installation

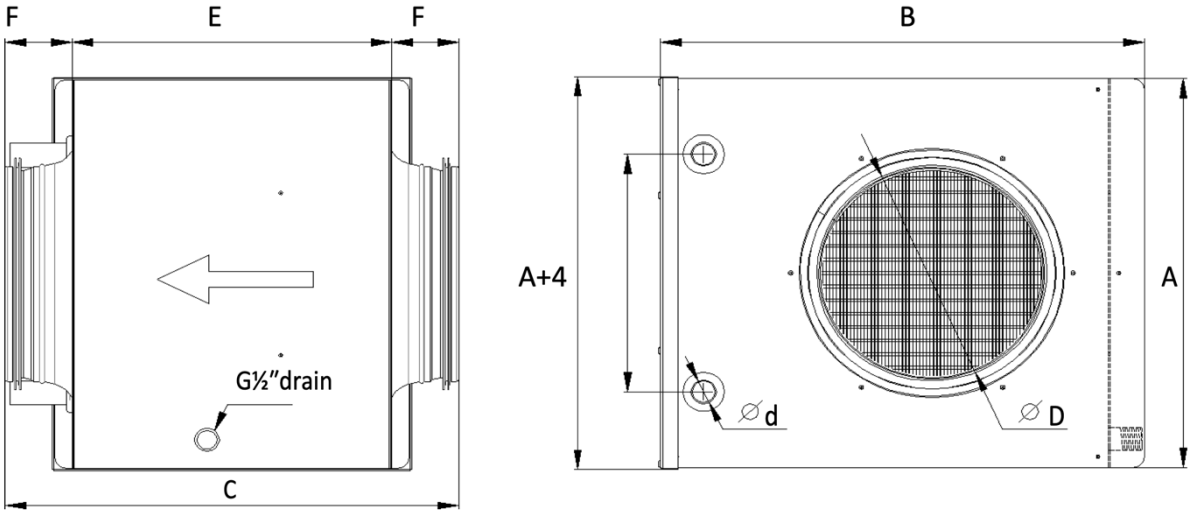
The scheme shown is illustrative and should always take into account the possibilities and conditions on the spot.



- To ensure condensate drainage, it is allowed to install the calorifer only in a horizontal position.
- For the installation of ambient air ducts:
  - only cold-resistant liquid can be used in the calorifer, otherwise the liquid may freeze and the calorifer will be damaged
  - it is **mandatory to use a coarse filter cartridge** (FD-160/200/250/315) before the calorifer, which protects the calorifer from increased dirt. The filter must be changed 2 times a year.
- The condensate drain pipe must not be connected directly to the sewer system because this pipe is under constant overpressure or underpressure – otherwise pollution may enter the supply air.
- The calorifer must be installed in an accessible place as it may require service or maintenance.

- To facilitate the aeration of the calorifer, the liquid inlet should usually be connected to the lowest pipe fitting. The vent valve should usually be installed near the calorifer or at the highest point in the system.
- Depending on the characteristics of the soil, sometimes the supply temperature can drop to a very low level, due to which there is always a risk of condensate water forming on the surface of the supply pipeline, which can damage the structures of the building. For maximum cooling efficiency, it is recommended to insulate the supply pipes (for example, 20mm non-porous pipe insulation). Whether the piping is insulated or not, the piping must always be monitored and, if necessary, the lowest allowable supply temperature must be set.

Dimensions



Model	*Ø D(mm)*	*A(mm)*	*B(mm)*	*C(mm)*	*E(mm)*	*F(mm)*	*G(mm)*	*Ø d(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

Features

CWC-160

Water temperature				*In/Out 6°C/12°C*			
Airflow	*Pressure*	*Air in*	*Air in*	*Air out*	*Power*	*Flow*	*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*			
Airflow	***Pressure***	***Air in***	***Air in***	***Air out***	***Power***	***Flow***	***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*			
Airflow	***Pressure***	***Air in***	***Air in***	***Air out***	***Power***	***Flow***	***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*			
Airflow	***Pressure***	***Air in***	***Air in***	***Air out***	***Power***	***Flow***	***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