



Chloro Tech
EQUIPMENTS PVT. LTD.

Evaporator



Evaporator Chlorine evaporator with water as heat transfer medium Multitube heat exchanger

1. Technical Data

1.1 General Data			
Evaporation capacity and media	Order no.	medium	evaporation capacity
	171W-100	Cl ₂	100 kg/h
	171W-200	Cl ₂	200 kg/h
Inlet connection	Groove flange ANSI 25 (G 1") according to ANSI B16.5 class 300 rating		
Outlet connection	Tongue flange ANSI 25 (G 1") according to ANSI B16.5 class 300 rating		
Weight with heat transfer medium	approx. 220 kg incl. control unit and load unit		
Weight of control unit	approx. 18 kg		
Max. operation pressure	11 bar with bursting disc 14 bar (standard version) 12,5 bar with bursting disc 16 bar		
Permissible ambient temperature	0 to +40 °C		

1.2 Materials	
Enclosure	GFK
Parts in contact with media	Steel, stainless steel, silver, copper, brass, bronze

1.3 Electrical Data		
Power consumption	Order no.	power consumption (kW)
	171W-100	9
	171W-200	18
Heating elements	Index no.	mains voltage
	V000* / V001**	230 / 400 V (50/60 Hz) (standard version)
	V010* / V011**	240 / 415 V (50/60 Hz)
	V020* / V021**	220 / 380 V (50/60 Hz)
	* with 171W-100	** with 171W-200
Circulation pump***	Index no.	mains voltage and degree of protection
		220 - 240 V (50 Hz) (standard version) IP 42, Iso. Kl. F 220 - 240 V (60 Hz) IP 42, Iso. cl. F
	*** The circulation pump can be operated in the voltage range 220 - 240 V even though the labeling of the pump shows 230 V / 50 Hz resp. 240 V / 60 Hz.	
degree of protection control unit	IP 66	
Contact load of outputs	Max. 250 V, max. 50 VA ohm resistive load	
Input voltage control signals	Floating contacts (24V DC / max 5W per input)	
NOTE: The type plate can be found on the back of the instrument support.		

1.4 Control Panels: Control Unit and Load Unit		
Dimensions	400 x 600 x 200 mm	
load unit	Index no.	mains voltage
	V001*/V011**	380 - 415 V (50/60 Hz), with supply for gas pressure reducing valve (standard version)
	* with 171W-100,	** with 171W-200
control unit	Index no.	mains voltage
	V100	24 V DC, without digital display (standard version)
	V101	24 V DC, with digital display
	V101 optional with Profibus DP	
load unit 400 200 600 550 350 M8 ca. 240		

2. Installation

2.1 Transport and Storage

- Handle with care, do not throw!
- Dry storage place.
- The gas connections must be tightly closed during transport and storage!

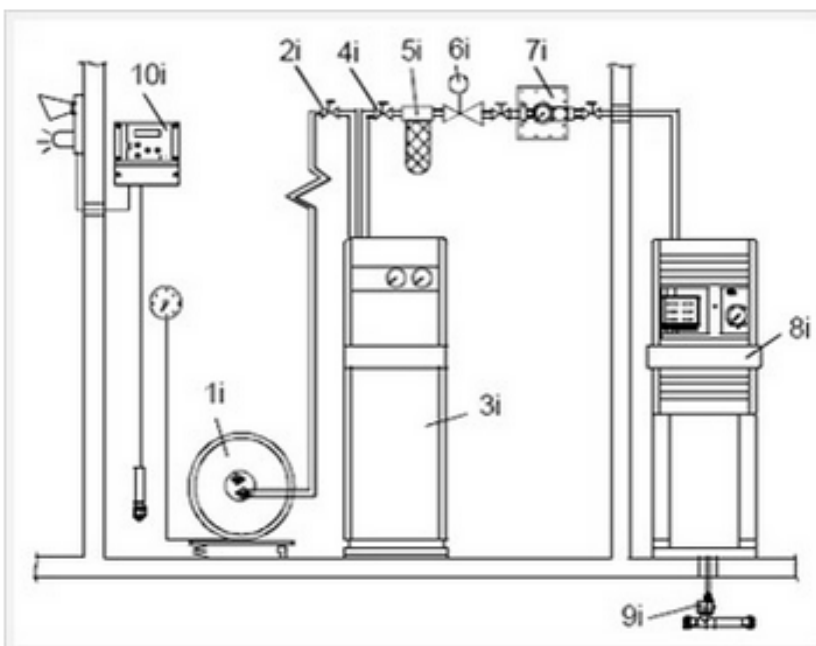
WARNING If humidity penetrates the device: **Danger of corrosion with chlorine gas!**

2.2 Unpacking

Observe when unpacking:

- No humidity should get into gas-leading parts!
- No foreign matter should get into gas-leading parts!

2.3 Installation Example



1. Gas container or container battery
2. Shut-off valve at the inlet side
3. Evaporator RV 171W
4. Shut-off valve at the outlet side
5. Liquid trap and filter
6. Pressure reducing valve
7. Vacuum regulator
8. Gas dosing unit
9. Injector
10. Gas warning device