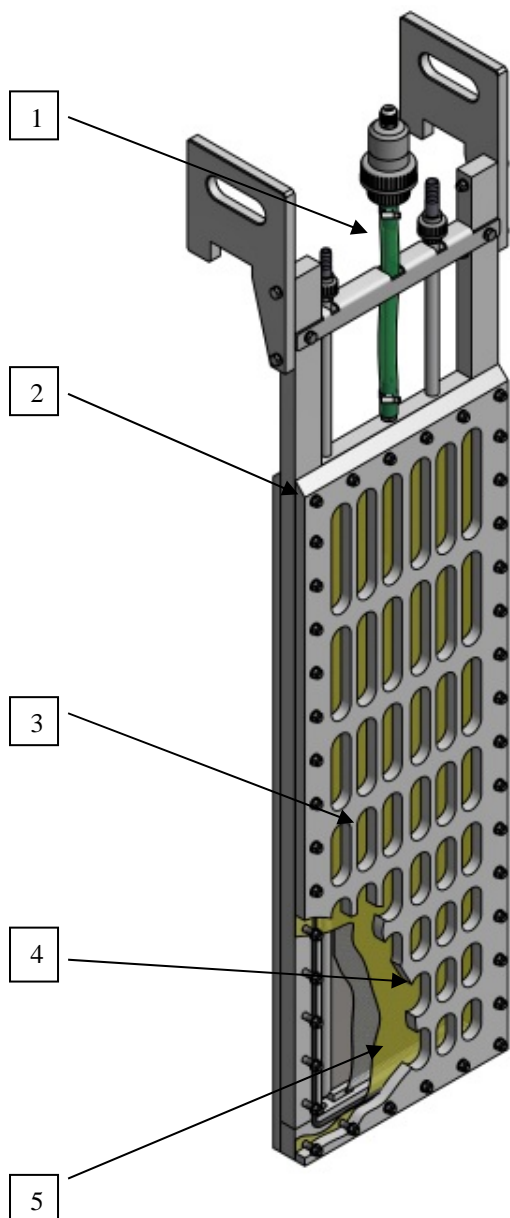


Flat electrophoretic cell

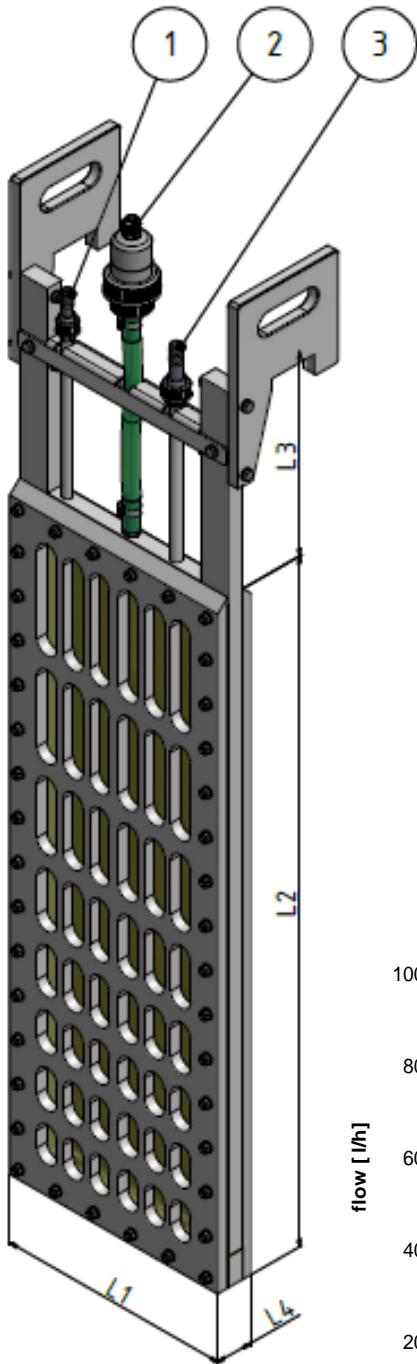
Application: Electrophoretic painting – cataphoresis (anaphoresis)

Description: Electrophoretic cell with the ion-exchange membrane is connected as the anode and serves as a counter-electrode and for maintaining a concentration balance in the paint bath

Structure:



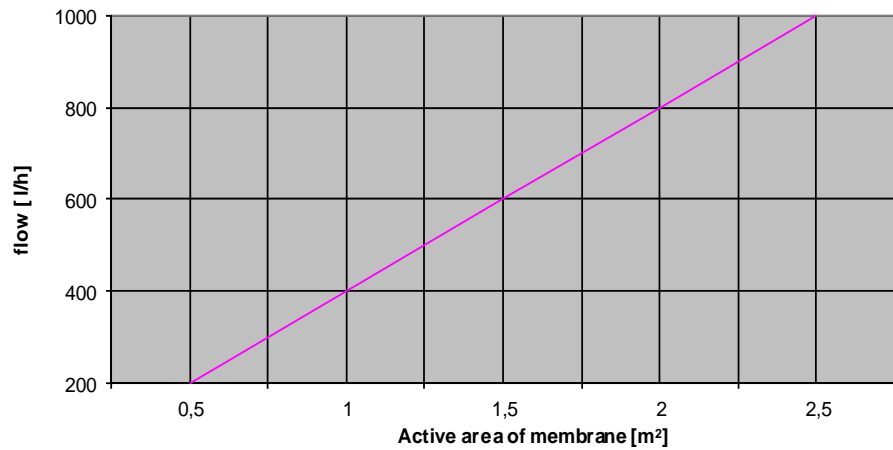
Index	Item
1	Top The top of the cell includes cell hangers, input and output of the anolyte and electrical connection.
2	Body The material of the body-frame is PVC-U.
3	Frame It serves as mechanical support of the membrane, material is PVC-U.
4	Membrane RALEX® The ion-exchange membrane RALEX in flat sheet is stretched between the anode and the frame and fixed around by appropriated o´ring sealing and the screws.
5	Anode The flat anode is positioned inside the EFC cell. The standard material is stainless steel AISI 316Ti.



Dimensions:

Index	Item	Required dimensions [mm]
L1	Width	300 – 850 mm
L2	Length	850 – 3.000 mm
L3	Holder	min. 150 mm
L4	Thickness	60 mm
	Active area	(L1 - 110mm) x (L2 - 110mm)
1	Electrolyte inlet – hose end	d: 12, 16, 19, 25, 32 (PVC – U)
2	Electrolyte outlet – hose end	d: 16, 19, 25, 32, 38 (PVC – U)
3	Electrical connection	Port for the nut of the diameter 9mm

Minimal value of electrolyte flow



Operation limits of the Flat EFC:

Current load of the ion-exchange membrane	max. 70 A.m ⁻²
Current density	max. 50 A.m ⁻²
Anolyte flow through the EFC	min. 100 l/h per 0,25m ² active area
Compressive load of AMH5E-HD membrane	max. 0,4 bar