

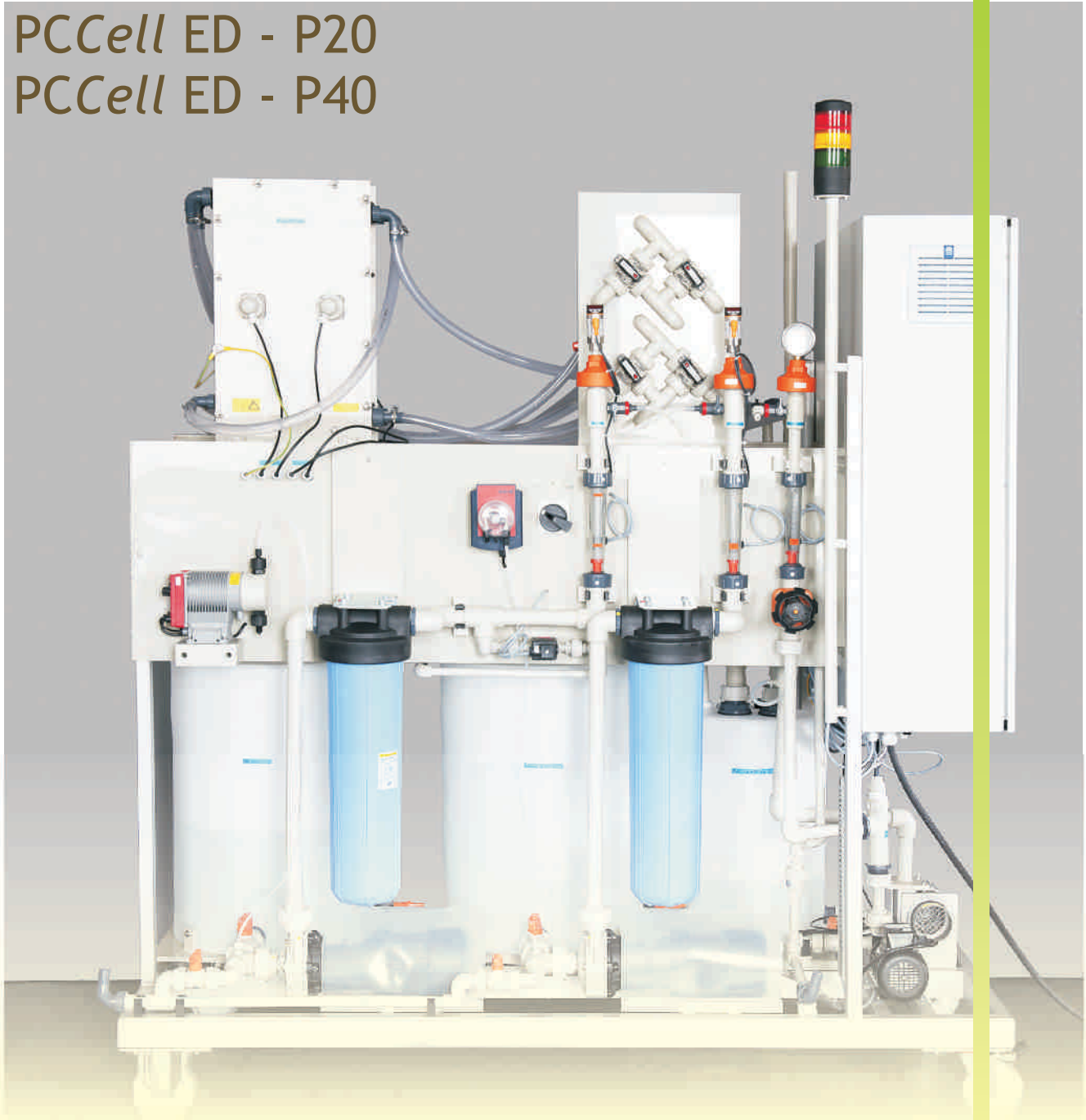
Electrodialysis Pilot Units 5 - 40 m²

PCCell ED - P05

PCCell ED - P10

PCCell ED - P20

PCCell ED - P40

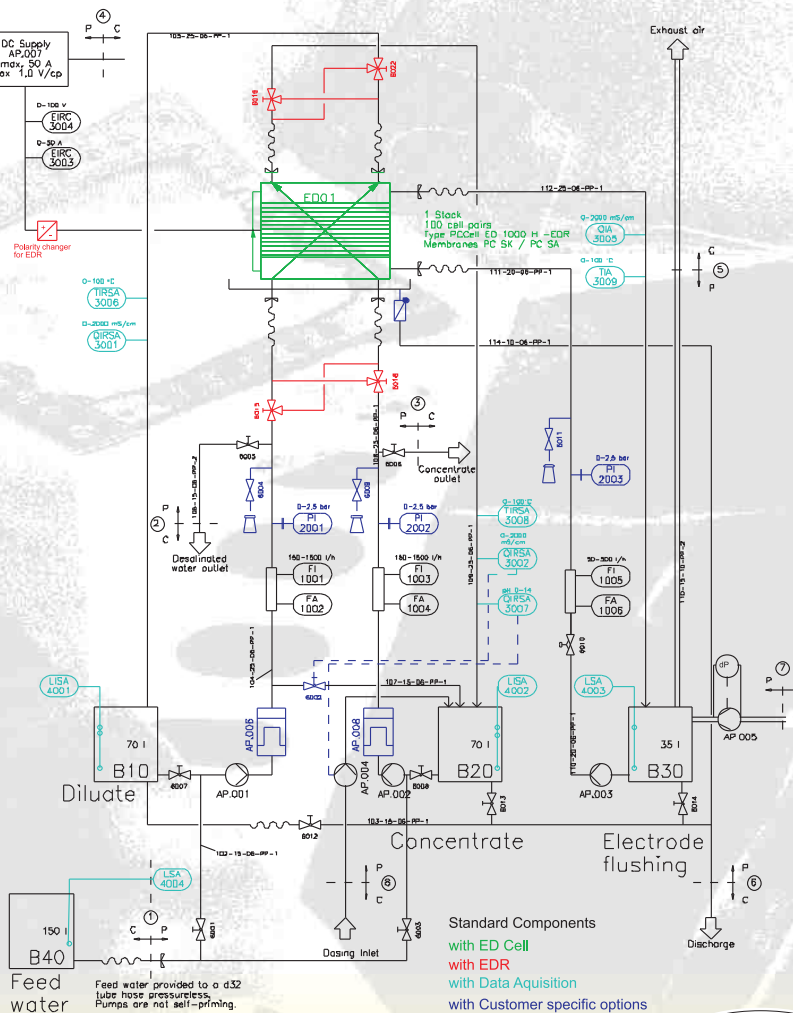


PCCell ED - P05 PCCell ED - P10 PCCell ED - P20 PCCell ED - P40

The electro dialysis pump units ED P 05, 10 and 20 are standardized platforms of pilot ED units to operate an ED 1000 H cell unit in batch mode. The instrumentation, optional EDR piping, optional thermostatisation, filter, stirrer and the level of automation can be adjusted to the need of your project.

Type	Membrane area / m ² *	Plant sizes			Desalination capacity (nominal)	
		WHD / cm	Weight**	Power connector	sea water desalination ...	salt removal capacity
ED P05	5 m ²	150x165x80	160 kg	400 V 50 Hz 16 A max	50 l/h	
ED P05 - EDR			168 kg			
ED P10	10 m ²	150x165x80	180 kg	400 V 50 Hz 32 A max	100 l/h	9.2 kg NaCl / h
ED P10 - EDR			192 kg			
ED P20	20 m ²	180x180x80	210 kg	400 V 50 Hz 32 A max	200 l/h	
ED P20 - EDR			225 kg			

* for Stacks with active membrane area in m² ; **without stacks
*** seawater desalination capacity for 50.000 ppm to 600 ppm NaCl



Key data				
Electrodialysis plant	P05	P10	P20	P40
Mode of operation	Batch operation with Pole reversal (EDR)			
Circuitry	Feeds in parallel, electrode rinse in series			
Number of ED stacks	1	1	1	2
Active membrane area	5 m ²	10 m ²	20 m ²	40 m ²
Medium (Raw water)	Water, prefiltered <10 µm			
Power Connection	230 V AC (50 Hz)		400 V AC (50 Hz)	
Operating range				
Temperature range	5 - 40 °C			
Pressure	Up to 1.1 bar			
PH value	1 - 9			
Conductivity	200 µS cm - 200 mS cm			
Nominal process data				
Raw water intake	60 - 70 l	160 - 180 l	160 - 180 l	160 - 180 l
Amount of Diluate / Batch	30 - 40 l	45 - 55 l	45 - 55 l	45 - 55 l
Amount of Diluate / h	40 l	100 l	200 l	400 l
Amount of Diluate / d	0,96 m ³	2,4 m ³	4,8 m ³	9,6 m ³
Batch Volume	15 - 25 l	60 - 65 l	60 - 65 l	60 - 65 l
Batch time	25 min	25 min	12,5 min	7 min
EDR cycling time	30 min	30 min	17,5 min	12 min



Example of a P10 (external tank pilot unit)



and P20



GmbH

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