

Ozone Generators ECF-XT Range

- **Ozone production from air, PSA, LOX between 1 kg/h and 35 kg/h**
- **Low power consumption – especially with air**
- **Skid mounted up to 17 kg/h**
- **Complete process instrumentation**
- **Air feed gas drying incorporated**
- **Fuse for every electrode**
- **Low maintenance cost**



ECF-XT Range

The ECF-XT range is the latest range of large ozone generators. Twelve different types of systems are able to produce between 1 kg/h and 35 kg/h of ozone with very low power consumption and with ozone concentrations between 2 % wt and 14 % wt.

The power consumption for ozone production from PSA and LOX is very competitive. Regarding ozone production from we are the leading manufacturer of ozone systems with respect to power consumption.

All systems have a compact design and are skid mounted up to 17 kg/h – even including the air feed gas drying system for ozone production from air.

The complete system complies with IP54 requirements. To ensure a safe and reliable ozone production all systems are equipped with complete process instrumentation.

The systems are delivered with a touch panel. A Profibus-DP extension is available as an option.

The ozone generators are available stand-alone or as complete systems including ozone introduction system, ozone monitors and ozone destruction systems etc.

Since four decades the ozone systems successfully and reliably operate in different applications like:

- Drinking water disinfection
- Removal of iron or manganese
- Process water conditioning
- Cooling water treatment
- Odour control
- Sludge treatment
- Soil remediation
- Removal of colours and surfactants from textile industry
- Removal of pollutants from petrochemical industry
- Advanced oxidation processes (AOP) with UV, H₂O₂ and catalysts

State-of-the-art technology combined with high quality materials and components form reliable ozone systems that operate even under different environmental conditions. The ECF-XT ozone systems meet high demands and are a future-proof investment for their owners and operators.

Ozone Systems ECF-XT Range

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Technical Data Sheet

ECF-XT	19	26	37	61	91	127	158	182	240	271	336	374
Ozone Performance [g/h] ¹												
Air: 3% wt (40 g/Nm ³)	760	1,040	1,480	2,440	3,640	5,080	6,320	7,280	9,600	10,800	13,400	14,960
PSA/LOX: 6% wt (88 g/Nm ³)	1,800	2,500	3,500	5,800	8,600	12,000	15,000	17,300	22,800	25,750	31,940	35,500
PSA/LOX: 10% wt (148 g/Nm ³)	1,270	1,740	2,470	4,080	6,090	8,500	10,580	12,190	16,080	18,150	22,510	25,050
Feed Gas Supply [Nm³/h]												
Air with 3% wt ²	22.42	30.68	43.66	71.98	107.38	149.86	186.44	214.76	283.2	318.6	395.3	441.32
PSA/LOX with 6%wt	21	28.7	40.9	67.4	100.5	140.3	174.5	201	263.5	299	370	413
LOX with 10% wt	8.60	11.75	16.70	27.60	41.15	57.45	71.50	82.40	108.65	122.65	152	169.25
Cooling Water Demand [m³/h]	2.34	3.21	4.56	7.53	11.23	15.67	19.5	22.47	29.65	33.45	41.45	46.20
Power Consumption @ PCC [kW]	11.9	16.3	23.2	38.2	57.0	79.6	99.0	114.0	150.3	169.7	210.5	234.3
Dimensions [mm]									Separate arrangement for generator and PSU			
Depth	2,000	2,100	2,100	2,200	2,250	2,400	2,500	2,500				
Width	1,550	1,600	1,650	1,855	1,900	2,115	2,265	2,265				
Height	2,160	2,160	2,160	2,160	2,160	2,150	2,230	2,230				
Weight [kg]	2,000	2,100	2,340	2,800	3,200	3,500	4,060	5,300				

1: Cooling water temperature of 15° C, lower ozone concentration generate higher ozone output; 2: Including 18% for dryer operation; 3: Point of common connection

Features

Water cooled plasma cells
 Enclosed cabinet complying with IP54
 Automatic isolation valves
 Air feed gas drying incorporated
 Air ventilation for electrical equipment
 Siemens-PLC S7-300 for operation
 Touch panel as human machine interface

Monitoring

Inlet gas pressure
 Cooling water flow
 Ozone temperature
 Ozone flow
 Air dryer pressure
 Dried air pressure

Options

Air conditioning system
 Ozone & dissolved ozone monitor
 PSA system
 Compressor
 Air ventilation for electrical equipment
 Diffusers / pump injector system
 Ozone destruction system
 Cooling water system