

## Ozone Generators ECM-XT Range

- **Ozone production from air, PSA, LOX between 40 g/h and 1,300 g/h**
- **Low power consumption – especially with air**
- **Compact and completely housed**
- **Complete process instrumentation**
- **Air feed gas drying incorporated**
- **Low maintenance cost**



### ECM-XT Range

The ECM-XT range is the latest midsize range of ozone generators. Five different types of systems are able to produce between 40 g/h and 1,300 g/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 air we are the leading manufacturer of ozone systems with respect to power consumption.

All systems have a compact design and are integrated into a painted stainless steel cabinet – 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 text display as human-machine-interface. 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
- Swimming pools and spas
- Aquaculture like fish farming and zoos
- Removal of colours and surfactants from textile industry
- Removal of pollutants from petrochemical industry
- Advanced oxidation processes

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

## Ozone Systems ECM-XT Range

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### Technical Data Sheet

| ECM   | XT-1              | XT-2              | XT-4              | XT-7              | XT-13               |
|---|-------------------|-------------------|-------------------|-------------------|---------------------|
| <b>Ozone Performance [g/h]</b> <sup>1</sup>     |                   |                   |                   |                   |                     |
| Air: 3% wt (40 g/Nm <sup>3</sup> )              | 40                | 80                | 160               | 280               | 560                 |
| PSA/LOX: 6% wt (88 g/Nm <sup>3</sup> )          | 95                | 190               | 380               | 670               | 1300                |
| PSA/LOX: 10% wt (148 g/Nm <sup>3</sup> )        | 67                | 134               | 268               | 469               | 938                 |
| <b>Feed Gas Supply [Nm<sup>3</sup>/h]</b>       |                   |                   |                   |                   |                     |
| Air with 3% wt <sup>2</sup>                     | 1.18              | 2.36              | 4.72              | 8.26              | 16.52               |
| PSA/LOX with 6% wt                              | 1.1               | 2.2               | 4.4               | 7.7               | 15.5                |
| PSA/LOX with 10% wt                             | 0.45              | 0.9               | 1.81              | 3.17              | 6.33                |
| <b>Cooling Water Demand [m<sup>3</sup>/h]</b>   | 0.09              | 0.19              | 0.38              | 0.43              | 1.31                |
| <b>Power Consumption @ PCC<sup>3</sup> [kW]</b> | 0.6               | 1.3               | 2.5               | 4.4               | 8.8                 |
| <b>Dimensions [mm]</b>                          |                   |                   |                   |                   |                     |
| Depth x Width x Height                          | 600 x 800 x 1,960 | 600 x 800 x 1,960 | 800 x 800 x 1,960 | 800 x 800 x 1,960 | 800 x 1,800 x 1,960 |
| <b>Weight [kg]</b>                              | 150               | 160               | 350               | 470               | 600                 |

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 S7-200 for operation  
 Text display 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