

CAPITAL CONTROLS[®] DTPF Systems

Up to 113 kg/h Ozone Generators

The CAPITAL CONTROLS[®] DTPF range is the largest range of ozone generators from De Nora. Eleven different models produce up to 75 kg/h of ozone in concentrations between 2% wt and 15% wt. Flexible systems offer a range of features to ensure simple maintenance, maximum uptime and cost effectiveness.

De Nora has been delivering ozone generators across a host of applications since 1970 and supports customers through the process from understanding the requirements through to delivery and aftersales support – all you need is a supply of air, water and electricity and we'll do the rest.



Features

Flexibility

- Systems produce up to 113 kg/h of ozone covering the majority of applications
- Ozone concentrations between 2% wt and 15% wt
- Air, PSA, and Liquid Oxygen (LOX) feed gas options – all optimized to minimize power consumption requirements
- Options include full systems, including air dryers and filters (for air feed gas systems) or single components
- Fused and/or electronic control options delivers greater control and cost advantages

Ease of use and operation

- Plug and play/fully automated system – Simple start up and ease of use
- Touch screen operation – easy to operate
- Standard inverter makes obtaining spare parts easier

Effective and efficient operation

- Complete process instrumentation to ensure reliable ozone production
- Profibus-Modbus-Ethernet extensions available – improved monitoring and control

Features (Continued)

Secure and safe

- System instrumentation for safe operation
- IP54 ingress protection compliant – ensures protection and long life of your equipment
- Fully tested and certificated
- Robust dielectric offers improved reliability over other designs

Easy installation

- Compact designs ensure ease of integration, installation and management with your existing facility

| DTPF | Ozone Performance | | Cooling Water Demand | | Weight | | Dimension (depth x width x height) | |
|------|-------------------|------------|----------------------|----------|--------|-----|------------------------------------|------|
| | kg/hr | lb/day | m ³ /h | gpm (US) | kg | lbs | mm | inch |
| 91 | up to 18.2 | up to 100 | 16.3 | 71.8 | | | | |
| 127 | up to 25.4 | up to 1350 | 22.8 | 100.4 | | | | |
| 158 | up to 31.7 | up to 1700 | 28.5 | 125.5 | | | | |
| 182 | up to 36.4 | up to 2000 | 32.7 | 144.0 | | | | |
| 240 | up to 48.0 | up to 2500 | 43.2 | 190.2 | | | | |
| 271 | up to 54.2 | up to 2900 | 48.76 | 214.7 | | | | |
| 308 | up to 61.6 | up to 3250 | 55.4 | 243.9 | | | | |
| 336 | up to 67.2 | up to 3550 | 60.5 | 266.4 | | | | |
| 374 | up to 74.8 | up to 4000 | 67.3 | 296.3 | | | | |
| 440 | up to 88.0 | up to 4650 | 79.2 | 348.7 | | | | |
| 550 | up to 113 | up to 6000 | 99 | 435.9 | | | | |

Separate arrangement for generator and PSU

Cooling Water Demand at design conditions: Cooling water at 15°C (59°F) - flow rate is according to the specific ozone production and concentration.

Ozone generators are available stand-alone or as complete systems including ozone contact system, ozone monitors and vent ozone destruction systems etc. High technology combined with high quality materials and components form reliable ozone systems that operate even under different environmental conditions.

Ancillary Equipment Options

Feed Gas Supply

- Liquid oxygen storage tanks, vaporizers and complete plants
- PSA – Oxygen (On-site generation, Pressure Swing Adsorption)
- Air preparation systems
- VPSA – Oxygen (on-site generation, vacuum Pressure Swing Adsorption)

Instrumentation and Control

- Devices for the management and measurement of Ozone concentration and residual in water
- Alarm monitoring and indication
- System control based on process signal monitoring

Cooling Water Supply

- Air/water cooled chiller units
- Heat exchangers

Containerized System

- Insulated, lit and painted container
- Complete safety concept including alarms in line with international standards
- Electric heating and ventilation fan

Ozone Mixing and Contacting

- Side stream injection systems
- Fine bubble diffusers
- Closed reactors
- Degassing tanks
- Demistors

Electronic Process Control

- MCC
- Main PLC

Ozone Destruction in Off Gas

- Thermal and Catalytic ozone destructors

WATER MADE EASY

MARINE

ENERGY

MUNICIPAL

INDUSTRIAL



DE NORA
our research - your future

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