

Ozone
generator

LENNTECH
WATER TREATMENT SOLUTIONS

DCT series

The DCT-series of ozone generators is based on a modular approach which makes it easier to maintain and service. They are cased in three stainless steel cabinets; with PLC, Power Supply and O₃-generator parts on a rack. The external oxygen, ozone and cooling water connections are on the right side. Connections for electrical power and signals are on the left side.

The PLC monitors vital system and generator parameters and signals alarms via the PLC control panel and an external relay switching to the user interface. The PLC can also be connected to an external computer or the internet.



Specifications by model

Model	DCT-500	DCT-1000	DCT-2000	DCT-3000	DCT-4000	DCT-5000
Nominal O ₃ prod. [g/h]	0-500	0-1,000	0-2,000	0-3,000	0-4,000	0-5,000
O ₃ concentration [g/Nm ³]	215	140	140	140	140	140
At feed gas flow [l/min]	40	120	240	360	480	600
99% O ₂ at pressure [bar g/psig]	2.5 / 36.3	2.5 / 36.3	2.5 / 36.3	2.5 / 36.3	2.5 / 36.3	2.5 / 36.3
Cooling water, min. [l/min]	15	30	60	90	120	150
Power consumption [W]	3.8	7.5	15	22.5	30	37.5
No. of units	1	1	2	3	4	5
Weight [kg/lb]	110 / 242.5	110 / 242.5	220 / 485.0	330 / 727.5	440 / 970.0	550 / 1,212.5



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Technical specification

Ozone production	
Concentration, max	265 g/Nm ³
Feed gas	
Oxygen	99% (max dew point -60 °C/-140 °F)
Pressure, in, max	5 bar (72.5 psig)
Pressure, internal	1 - 2.5 bar (14.5 - 36.3 psig)
Main cooling water	
Quality	Fresh, filtered & clean
Pressure, max	4 bar (58.0 psig)
Temperature	5 -12 °C (41- 53.6 °F)
Pressurized cooling water	
Quality	Drinking water
Pressure	3.4 - 3.6 bar (49.3 - 52.2 psig)
Flow rate	< 1 l/min
Electrical connection	
Voltage	400 VAC, 50 Hz
Connections	
O ₂ in	12 mm, tube fitting
O ₃ out	12 mm, tube fitting
Main cooling, in	1" (BSP)
Main cooling, out	1" (BSP)
Pressurized cooling	10 mm, tube fitting



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Technical specification

Dimensions	
PLC	500 x 400 x 200 mm (19.7 x 15.7 x 7.9 in)
Power supply	500 x 400 x 200 mm (19.7 x 15.7 x 7.9 in)
O ₃ -generator	800 x 800 x 300 mm (31.5 x 31.5 x 11.8 in)
Integrated on rack	1,600 x 800 x 700 mm (63.0 x 31.5 x 27.6 in)
IP class	64

Advantages

- Modular built system
- Low noise level
- Compact design
- Easy to maintain
- Alarm signal output (relay)
- System parameters displayed on the PLC



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