



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.



TECHNICAL SPECIFICATION

Ozone production		Dimensions	
Concentration, max	265 g/Nm ³	PLC	500 x 400 x 200 mm (19.7 x 15.7 x 7.9 in)
Feed gas		Power supply	500 x 400 x 200 mm (19.7 x 15.7 x 7.9 in)
Oxygen	99% (max dew point -60° C/-140° F)	O ₃ -generator	800 x 800 x 300 mm (31.5 x 31.5 x 11.8 in)
Pressure, in, max	5 bar (72.5 psig)	Integrated on rack	1600 x 800 x 700 mm (63.0 x 31.5 x 27.6 in)
Pressure, internal	1 - 2.5 bar (14.5 - 36.3 psig)	IP class	64
Main cooling water		ADVANTAGES	
Quality	Fresh, filtered & clean	• Modular built system	• Alarm signal output (relay)
Pressure, max	4 bar (58.0 psig)	• Low noise level	• System parameters displayed on the PLC
Temperature	5 -12° C (41- 53.6° F)	• Compact design	
Pressurized cooling water		• Easy to maintain	
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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SPECIFICATIONS BY MODEL

Model	DCT-500	DCT-1000	DCT-2000	DCT-3000	DCT-4000	DCT-5000
Nominal O ₃ prod. [g/h]	0-500	0-1000	0-2000	0 - 3000	0 - 4000	0 - 5000
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/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 [kW]	3.8	7.5	15	22.5	30	37.5
No. of units	1	1	2	3	4	5
Weight [kg/lbs]	110 / 242.5	110 / 242.5	220 / 485.0	330 / 727.5	440 / 970.0	550 / 1212.5