

Ozone concentrations up to 14%

Generate up to 14% by wt. O3 concentration

This air-cooled unit can generate up to 14% by wt. ozone concentration. This is the highest concentration air-cooled unit in the world!



Features

- High Concentration: 6-14% - Ideal for chemical synthesis & laboratory research
- Low O2 Requirement: 1-6 lpm – saves on size of O2 concentrator and/or reduces O2 bottle replacement
- Up to 50 PSIG working pressure
- Air Cooled!
- Only 19-in W x 14-in D x 7-in H! - saves valuable lab bench space

Product ID: **HC-30**
 Lead Time: **1 week**
 Price: **\$6,350.00**

Options

Option	Description	Price	*
220V	220V/50Hz Power Option	Online Pricing	Buy Online!

Specifications

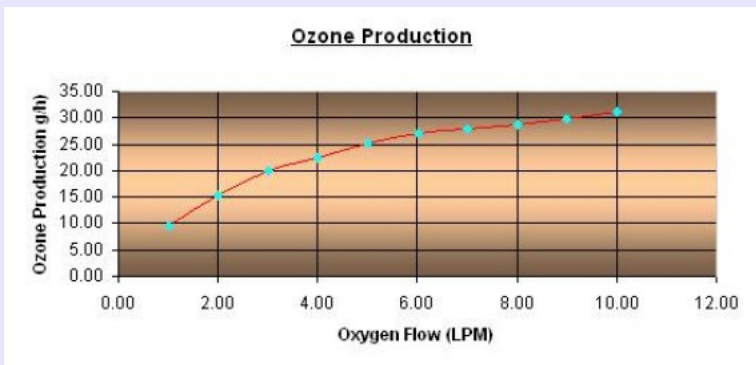
Ozone production	30 gm/hr at 6 lpm O2 flow
Feedgas Requirements	Only oxygen - 90% minimum concentration (0.05 - 6 lpm)
Operating Pressure	5-50 PSI
Input Control Signal	4 – 20 mA standard, 0-10 V optional - controls output from 0-100%
Power consumption @ 100% output	400 Watts
Power Requirements	120V/60Hz 4-Amp - 220V/50hz versions available
Air cooling flow	106 CFM
Chassis Construction	304 Stainless Steel (SS) with SS rivets
External inlet/outlet connections	1/4-in Swagelok
Inner Tubing & Connections	PTFE & 304 SS Construction
Warranty	1-year
Dimensions	19-in x 14-in x 7-in (WxDxH) (dimensions include mounting tabs on side)
Weight	27-lbs (12.3-kg)

HC-30 Performance

#	OXYGEN FLOW (SLPM) 90-92%	GAS PRESS. (psig)	CURRENT POT POSIT.	OZONE CONC. (g/Nm ³)	OZONE PRODUCTION (g/h)	OZONE CONC. (%W-W)	COMMENT
1	1.00	20.00	70.00	175.80	9.44	11.82	
2	2.00	20.00	80.00	142.30	15.40	9.64	
3	3.00	20.00	80.00	121.80	19.86	8.29	
4	4.00	20.00	90.00	103.10	22.51	7.05	
5	5.00	20.00	90.00	92.10	25.20	6.31	
6	6.00	20.00	100.00	82.10	27.02	5.64	
7	7.00	20.00	100.00	72.20	27.78	4.97	
8	8.00	20.00	100.00	65.30	28.76	4.50	
9	9.00	20.00	100.00	59.90	29.72	4.13	
10	10.00	20.00	100.00	56.70	31.28	3.92	

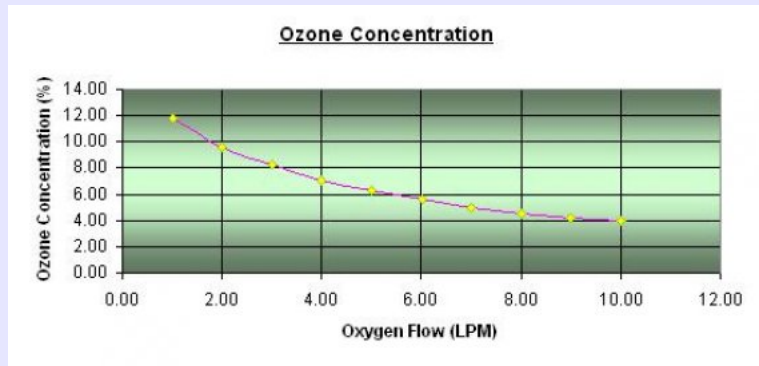
Performance chart shows the relation of the oxygen flow to concentration and ozone output.

HC--30 Production Graph



Graph shows the ozone production in g/hr of the HC-30. The oxygen flow rate is shown on the bottom in Liters/Minute

HC-30 Concentration Graph



This graph shows the concentration of the ozone in relation to the oxygen flow. The HC-30 is capable of over 14% by wt. ozone.