

Ozone concentrations up to 14%

Generate up to 14% by wt. O3 concentration

The HC-30 is our most popular ozone generator! It is air cooled and 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

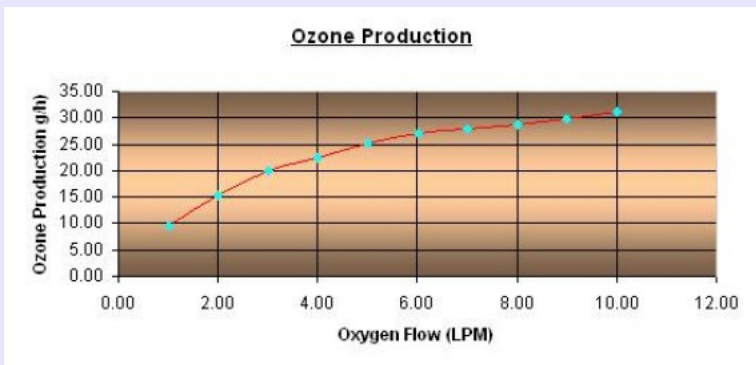
| | |
|-----------------------------------|---|
| Ozone production | 30 gm/hr at 6 lpm O2 flow |
| Feedgas Requirements | Only oxygen - 90% minimum concentration (0.05 - 6 lpm) |
| Operating Pressure | 5-50 PSI |
| Input Control Signal | 4 – 20 mA standard, 0-10 V optional - controls output from 0-100% |
| 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 Teflon & 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 | |

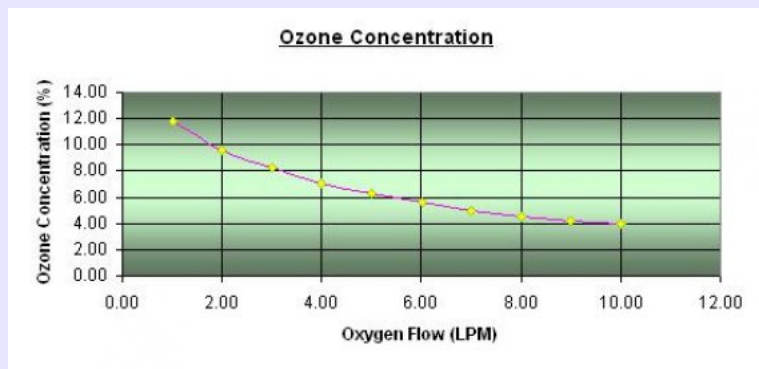
Performance chart shows the relation of the oxygen flow to concentration and ozone output.

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.