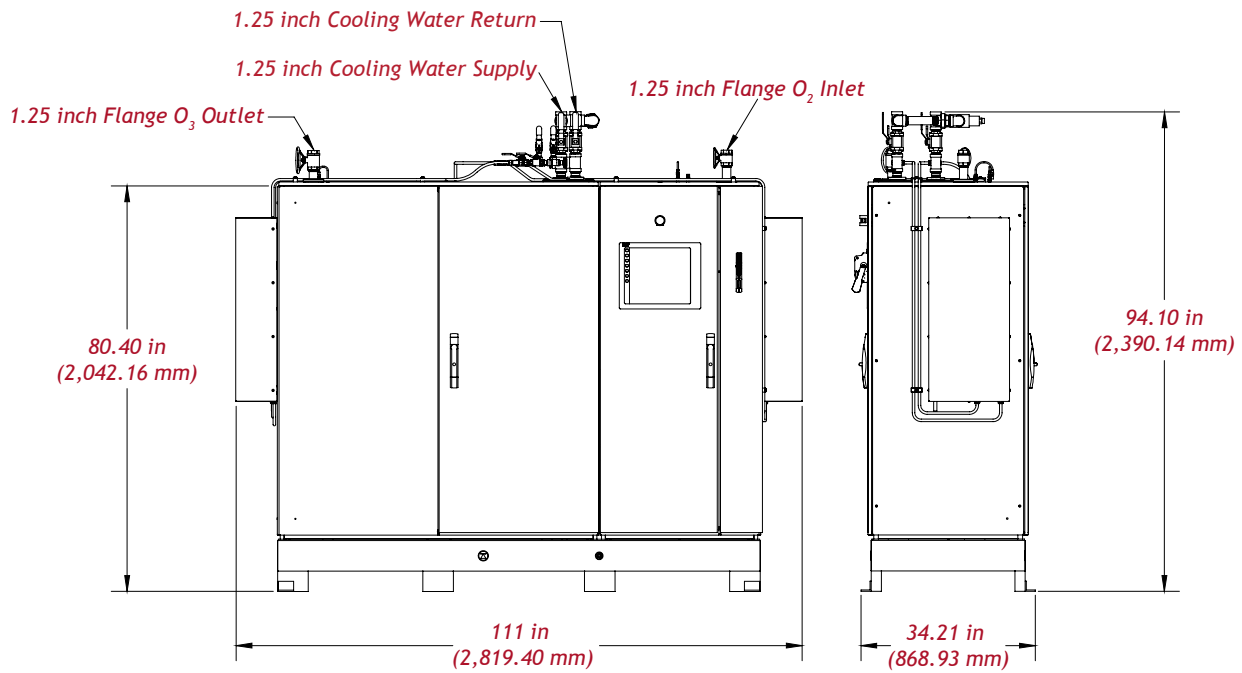


Ozone: Simplified

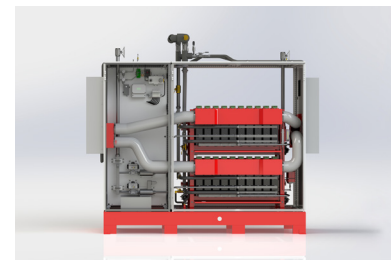
Footprint Overview



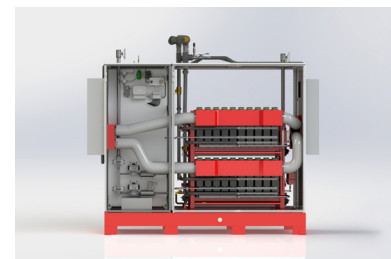
The Zenith^{20X} series ozone generator platform is specifically designed for larger installations with mission-critical capacity and redundancy needs. The design features of the Zenith^{20X} platform can provide up to 99.99% operational readiness, with other standard features. Each Zenith^{20X} platform is configurable up to 332 ppd (150.59 kg/d). All platforms are made in the USA.



Zenith^{20X} generates up to 332 ppd (150.59 kg/d)



Front view cutaway of Zenith^{20X}



Rear view cutaway of Zenith^{20X}

Ozone:. Simplified

Specifications & Requirements

**Enclosure**

Sealed NEMA 12 with Integral Cooler *Optional: NEMA 4X with Integral Cooler*
 Ambient O₃ Monitor
 Ambient Temperature Monitor
 Minimum Clearance: Front/Back 46 in (1,168.40 mm) Left/Right 27.88 in (708.15 mm)
 Dimensions: 111 in (2,819.40 mm) w X 94.10 in (2,390.14 mm) h X 34.21 in (868.93 mm) d
 Weight: 2,638 lbs (1,196.58 kg)

Controls & Communication

Schneider Electric Modicon M251 Modular PLC Control System
 15 in RedLion[™] Color Touch Screen; Ethernet Switch/Webserver Interface
 Cellular Modem (*Cell Service Not Included*) (*Optional*)

Controls Routines

All Routines Available At Fixed or Variable O₃ %BW
 Automatic: PID Ozone Dose (mg/l)
 Automatic: PID ORP (mv)
 Manual: Fixed Output (ppd or kg/h) or Full Manual

Electrical Service

Required Disconnect: 460 VAC/3Ø/50-60 Hz/80 A
 75 kVA Step Down Transformer
 Connection: x-xxA Lug

Oxygen Service

PSA, VSA, VPSA or LOX O₂ Acceptable
 1102 slpm (38.9 scfm) @ Min 20 psig
 Min 90% O₂ @ <-65°F Dew Point
 Max <7.8 ppm H₂O @ <15 ppm THC
 N₂ Feed **NOT** required
 Max 0.1 µm Filter Inlet (*not included*)
 1.5 in 316 SS Manual Ball Isolation Valve
 1.5 in 316 SS Air Actuated (FC) Control Ball Valve
 1.5 in MPT or 150# Flange Connection

Ozone Service

Ozone Output: up to 332 ppd (150.59 kg/d) @ 8%BW or 270 ppd (122.47 kg/d) @ 10%BW
 Outlet Pressure: 20 psig *Optional: up to 25 psig*
 1.5 in 316 SS Manual Ball Isolation Valve
 1.5 in 316 SS Air Actuated Control Ball Valve
 1.5 in MPT or 150# Flange Connection

Cooling Service

Type: Closed-Loop Chilled Water/Food Grade Propylene Glycol
 Fluid: Food Grade Glycol-Water Blend (*30/70 blend not included*)
 Flow/Pressure: 36 gpm (136.27 lpm) (*max*) @ 40 psig<50 µm Filtered Fluid Supply
 Inlet Temp: Min 15°C/Max 29°C
 2.0 in CI Body/316 SS Disc Manual Butterfly Isolation Valve
 2.0 in 316 SS Air Actuated (FC) CI Body/316 SS Disk Butterfly Flow Control
 2.0 in MPT or 150# Flange Connection

Instrumentation

Enclosure Ambient O₃ (Teledyne)/Enclosure Ambient Temp
 O₂ Inlet Mass Flow & Manual Rotometer, O₂ Inlet Temp, O₂ Inlet Pressure Xmitter,
 O₃ Outlet Pressure Xmitter
 O₃ High Concentration Analyzer (BMT)
 Inlet/Outlet Chilled Water Temp
 Manifold Chiller Water Temp (*0-3, varies by system*)