



CDO 863

INTEGRATED THERMAL AND WET ABATEMENT

The CDO™ series is an advanced point-of-use integrated thermal-wet treatment system designed to provide a controlled gas conditioning environment for today's demanding semiconductor process chemistries. The CDO series is the industry standard for controlled decomposition-oxidation treatment of flammable, pyrophoric, corrosive, and particulate generating process recipes. The CDO 91D meets the industry standard for controlled decomposition and oxidation treatment of flammable, pyrophoric, corrosive, and particulate generating process recipes.

The CDO 863 was specifically designed to treat fluorine generated by plasma chamber clean applications without the use of fuel or toxic reagents. Constructed with advanced metal alloys for corrosion resistance, the CDO 863 is the safest, most cost-effective abatement system for the treatment of F₂ at the point-of-use ensuring customers the highest reliability and tool uptime.

The patented water reagent technology incorporated in the CDO 863 combined with the latest advancements in system reliability provide the lowest cost of ownership for treating fluorine-based effluent.



APPLICATION

- All semiconductor industry
- Flat panel display industry
- Solar Panel industry
- Fluorine-based process chamber cleans

ADVANTAGES

- Designed for point-of-use fluorine abatement without fuel or toxic reagents.
- Will treat incompatible gases from multiple process outlets.
- Reduced water consumption with recirculating water system
- Non-clogging entry design
- Lowest cost of ownership
- Advance alloys for improved corrosion resistance.
- Ease of installation with standard pressurized drain
- Moisture suppression system reduces downstream condensation.
- SEMI S2 compliance, CE compliant
- Ethernet ready

Specifications

PERFORMANCE

Process Gas Capacity Per Inlet	200 slm (7.1 scfm) max 100 slm (3.5 scfm)
Cool Water Consumption	5 gpm (18.9 Lpm)
Fresh Water Consumption	0.3 gpm (1.4 Lpm)
Clean Dry Air (CDA) Consumption	240 slm (8.5 scfm)
Nitrogen (N ₂) Consumption	43 slm (1.5 scfm)
Process Exhaust / Static Pressure	-5" to -0.5" w.c (-1.2 to 0.12 kPa)
Exhaust Air Flow	556 slm (20 cfm)
Power Consumption	5,600 watts

FACILITIES

Process Connections	1 – 4 Inlet Process Ports (KF-40)
Compressed Gas Nitrogen, N ₂ (Fittings)	70 – 100 psi (4.8 – 6.9 bar) (3/8" Compression Fitting)
Clean Dry Air, CDA (Fittings)	80 – 100 psi (5.5 – 6.9 bar) (1/2" Compression Fitting)
Water Supply Fresh Water (Fittings)	45 – 75 psi (3.1 – 5.2 bar) 1/2" FNPT
Cooling Water (Fittings)	20 – 60 psi (1.4 – 4.1 bar) 1" FNPT
Cooling Water Temperature	50 F (10 C)
Exhaust Process Exhaust Cabinet Exhaust	ISO 4" x (100 mm) 6" (152 mm) SS or FRP
Electrical Electrical Supply	208/220 VAC, 50/60 Hz, 40A, 3 Phase
Dimension Product Dimension (H x W x D) Clearance	77 x 48 x 41" (1,956 x 1,219 x 1,041 mm) Front: 36" Rear, Left, Right: 12" in
Weight Installed Shipping	830 lbs (375 kg) 602 lbs (223 kg)

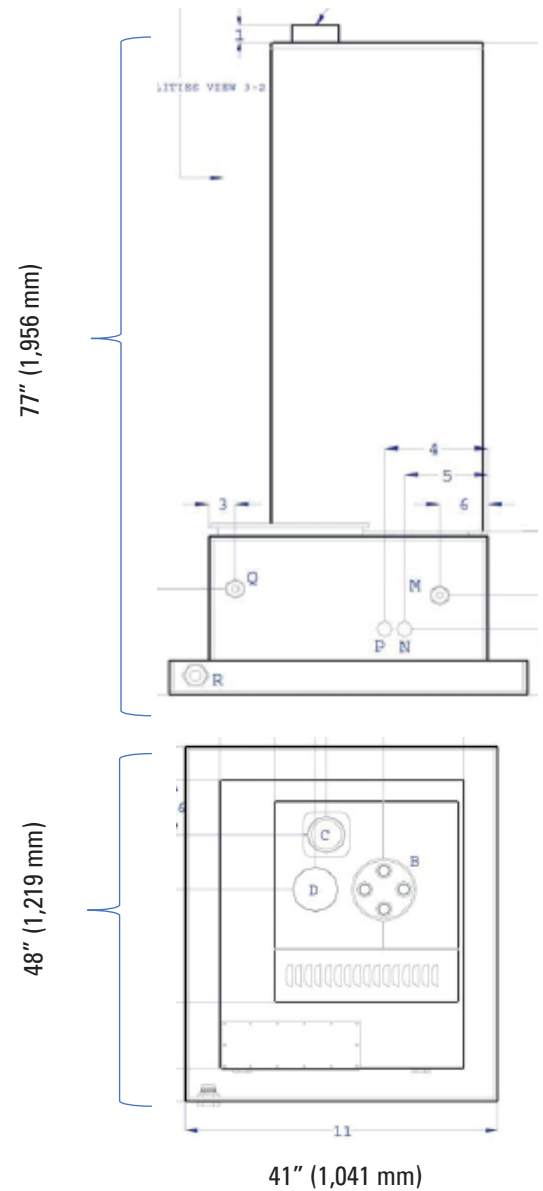
COMMUNICATION AND INTERLOCKS

- Multiple dry contacts to meet customer-defined requirements.
- Ethernet ready

OPTIONAL ACCESSORIES

- Flame Retardant Material (FM4910)

Product Dimension



EcoSys Pte. Ltd.

Blk 30 Kallang Place #01-23/24 Kallang Basin Industrial Estate Singapore, 339159

Tel: +65 6297 9741 Fax: +65 6296 7298

email: sales@ecosysgrp.com <https://ecosysgrp.com>