

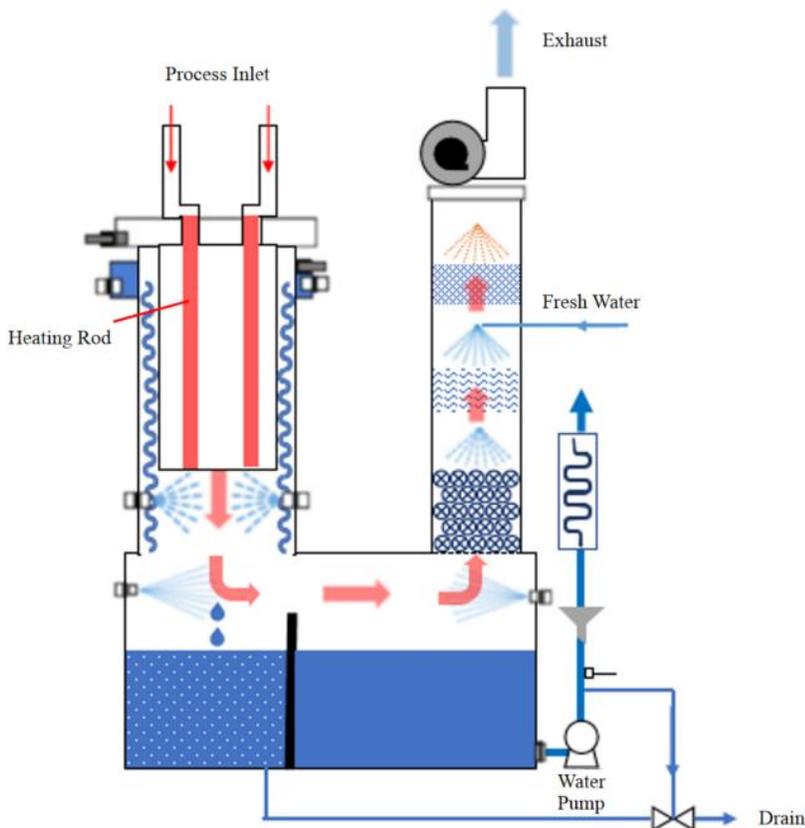
CDO C91

INTEGRATED THERMAL-WET ABATEMENT SYSTEM

C91 is an advanced integrated thermal-wet abatement system and is designed to provide a controlled gas treatment environment for today's demanding semiconductor, LED and flat panel display process chemistry.

C91 uses multiple heating rods with a fault-tolerant system to reduce system downtime. Heaters are evenly spaced in the reaction chamber to ensure that process gas is well decomposed.

With more new features added, C91 is setting new standards for efficient and light maintenance abatement system.



APPLICATION

- Polysilicon
- CVD
- Cryogenic/Pyrophoric/Flammable gas combustion
- Gas cabinet vent purge

ADVANTAGES

- Fault-tolerance heater design
- Sedimentation compartment
- Particles separation system
- Limited NOx and CO emission
- Low water consumption and recirculating water system
- Ease of use and maintenance
- Optional accessories available
- Third party certified, SEMI S2

Specifications

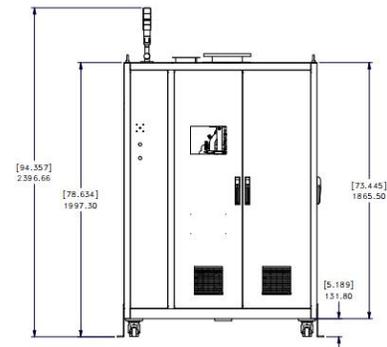
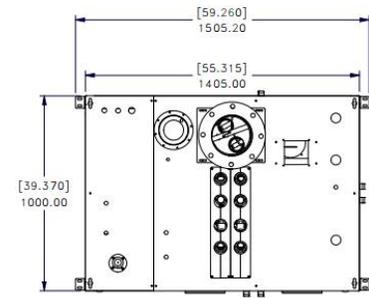
OPERATING PARAMETERS	
Process Gas Capacity Per Module	600slm
Cooling Water Consumption	15 GPM (process dependent)
Fresh Water Consumption	1.9 – 3.8 slm (process dependent)
CDA Consumption	200-500 slm (process dependent)
N ₂ Consumption	50-200 slm (process dependent)
Process Exhaust Static Pressure	-5 to -2.5 " wc
Power Consumption	11,300W

FACILITIES REQUIREMENTS	
Process Connections	4 Inlet Ports KF-40
Clean Dry Air (CDA)	90±10 psi 1/2" compression fitting
Nitrogen (N ₂)	90±10 psi 1/2" compression fitting
Water Supply Fresh Water	40 – 60 psi 1/2" compression fitting
Process Cooling Water	55 – 75 psi 1" FNPT
Drain	1" FNPT
Process Exhaust	-5.0" to -2.5" w.c. 8" ANSI PVC flange
Cabinet Exhaust	-0.40" w.c. min 6"(152mm) metal duct
Electrical Supply	380/400 VAC, 50/60 Hz, 50 A, 3 Phase, 5 Wires
Overall Dimensions (WxDxH)	55.315" W x 39.370" D x 78.634" H (1405.00 W x 1000.00 D x 1997.30 H) mm
Clearance	Front– 35.43" (900 mm) Rear, Right– 23.62" (600 mm) (optional) Left – 23.62" (600 mm)

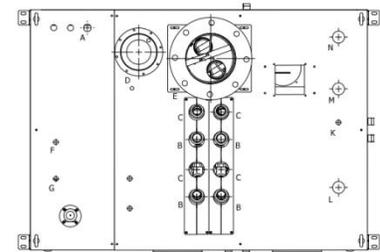
COMMUNICATION AND INTERLOCKS	
<ul style="list-style-type: none"> Multiple dry contacts to meet customer-defined requirements Ethernet Ready 	

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Product Dimensions



Facilities Connection



	DESCRIPTION	CONFIGURATION	CONNECTION
A	Power Required	380/400 VAC, 50 A, 3 phase, 5 wires	50/60 Hz
B	Process Bypass	4 Bypass Port	KF-40
C	Process Inlet	4 Inlet Port	KF-40
D	Cabinet Exhaust	6" (152 mm) SST or FRP	6" (152 mm) metal duct
E	Process Exhaust	8" (152 mm) ANSI PVC flange	8" (152 mm) ANSI PVC flange
F	CDA	90±10 psi	1/2" Compression Fitting
G	Nitrogen	90±10 psi	1/2" Compression Fitting
L	Process Cooling Water Supply	55-75 psi	1" FNPT
K	Fresh Water <140 mg/liter of hardness	40-60 psi	1/2" Compression Fitting
M	Process Cooling Water Out	--	1" FNPT
N	Drain	--	1" FNPT