

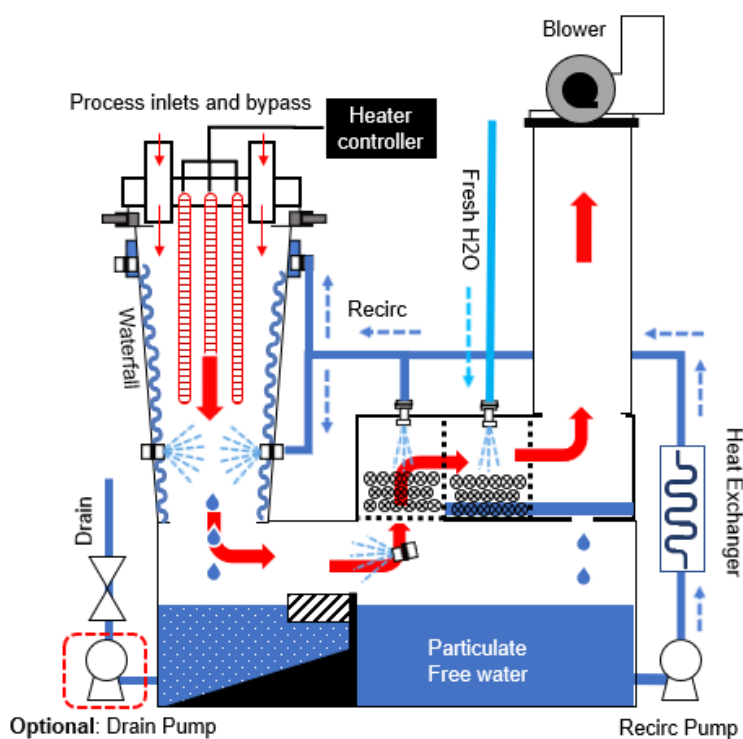
CDO C91

INTEGRATED THERMAL AND WET ABATEMENT

The C91 is an advanced, point-of-use, integrated thermal-wet treatment system designed to provide a controlled gas conditioning environment for today's demanding semiconductor, LED and flat panel display process chemistries.

C91 is utilizing multiple heating rods with fault-tolerance system to reduce system downtime, the heaters are evenly spaced out in the reactor to ensure that the decomposition of the process gas is well taken care of.

With all the new interesting features added to C91, it is setting new standards for both high efficiency and light maintenance abatement system.



APPLICATION

- Polysilicon
- CVD
- 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 compliance, CE marked
- Ethernet ready

Specifications

OPERATING PARAMETERS

Process Gas Capacity per System	600 slm (21.2 scfm) max
Freshwater Consumption	1 gpm (3.8 Lpm) min
Cool Water Consumption	15 gpm (57 Lpm)
Nitrogen Consumption	20 slm (0.7 scfm)
Clean Dry Air (CDA) Consumption	120 slm (4.2 scfm)
Process Exhaust Gas Static Pressure	-5" to -2.5" w.c
Power Consumption	8.5 kW
Reliability MTBF MTTR	> 4,300 Hours > 1 Hour

FACILITIES REQUIREMENTS

Process Connection	1 – 4 Inlets KF-25, KF-40
Compressed Gas Nitrogen	80 – 100 psig (5.5 – 6.9 bar) 1/2" Compression Fitting
Clean Dry Air	80 – 100 psig (5.5 – 6.9 bar) 1/2" Compression Fitting
Water Supply Fresh Water	40 – 50 psi (2.8 – 3.4 bar) 1/2" Female NPT
Chilled Water	55 – 75 psi (3.8 – 5.2 bar) 50 °F (10 °C)
Chilled Water Inlets / Outlets	1" Female NPT
Sump Pump Drain	3/4" Female NPT
Process Exhaust Gas	ISO 100 mm SS or FRP
Electrical Supply	380/400 VAC, 50/60 Hz, 40A, 3 Phase
Overall Dimensions	76.0 H 55.9 W x 31.5 D in (1,930 x 1,420 x 800 mm)
Clearance	Front & Back 36 in (914 mm) Left & Right 24 in (610 mm)
Weight Shipping Installed	1852 lbs (840 kg) 2152 lbs (976 kg)

COMMUNICATION AND INTERLOCKS

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

OPTIONAL ACCESSORIES

- Flame Retardant Material (FM4910)

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