Marathon™ 8500
The Industry Standard for Burn-Wet Treatment

The Marathon 8500 is an advanced, point-of-use, integrated burn-wet treatment system designed to provide a controlled gas conditioning environment for today's demanding semiconductor and flat panel display process chemistries. The system is specifically designed for excellent PFCs abatement efficiency to help industries meet their environmental goals and commitments. With its advanced reactor chamber design and smart abatement technology, the Marathon provides superior particulate management for extended PM cycles and a cost-effective abatement solution. The high flow capacity of the Marathon can be configured to further reduce CoO by handling multiple process tools per abatement unit and provide 100% process tool uptime with automatic backup capability.

Applications
- Semiconductor and flat panel display processes

Advantages
- Excellent PFCs abatement efficiency
- Limited NOx and CO emission
- Superior particulate management technology
- High flow capacity
- Reduced water consumption and recirculating water system
- Stable thermal processing
- Low cost of ownership
- Ease of installation and services
- Third party certified, SEMI S2 compliance, CE marked
- Ethernet ready

System
# Marathon™ 8500

## Specifications

### Typical Usage

- **Process Flow**: 1-4 inlets
- **Per Inlet**: 175 lpm (6 cfm)
- **Per System**: 700 lpm (25 cfm)
- **Fresh Water Consumption**: 0.5 gpm (1.9 lpm)
- **Clean Dry Air Consumption**: 1000 lpm (35.3 cfm)
- **Chilled Water Consumption**: 8 gpm (30 lpm)
- **Nitrogen Consumption**: 15 lpm (0.5 cfm)
- **Methane Consumption**: 40 lpm (1.4 cfm)
- **Process Exhaust**: Static Pressure: -5" to -2.5" w.c.
- **Electrical Consumption**: 1900 watts

(1) Process dependent

### Facilities

- **Process Connections**: 1-4 inlets, KF40
- **Nitrogen Gas Source**: 70-90 psi (482-620 KPa)
- **Clean Dry Air Source**: 80-100 psi (552-690 KPa)
- **Methane Source**: 0.2 – 5 psi (1.4-34.5 KPa)
- **Fresh Water Source**: 40-60 psi (276-414 KPa)
- **Chilled Water Inlet**: 55-75 psi (379-517 KPa)
- **Chilled Water Inlet/Outlet**: 1” Female NPT
- **Sump Pump Drain**: 1/2” Female NPT
- **Process Exhaust**: 6" (152mm) SS or FRP
- **Electrical Supply**: 208/230VAC, 50/60 Hz, 20A, 3 Wires
- **Overall Dimensions**: 46”W x 28”D x 90”H
- **Clearance**: 36” (914mm) Front side only
- **Weight**: Shipping 1687 lb (765kg), Installed 1532 lb (695kg)

### Communications and Interlocks

- Multiple dry contacts for customer defined requirements
- Life Safety Connection
- Network/Ethernet connection

### Options and Accessories

- Fire-retardant tank materials – FM4910
- Inlet/Bypass Assembly Thermal Management
- Oxygen Enrichment Air Module