

Dragon-LE & Dragon-DLE

“BURN-WET” TYPE POU ABATEMENT



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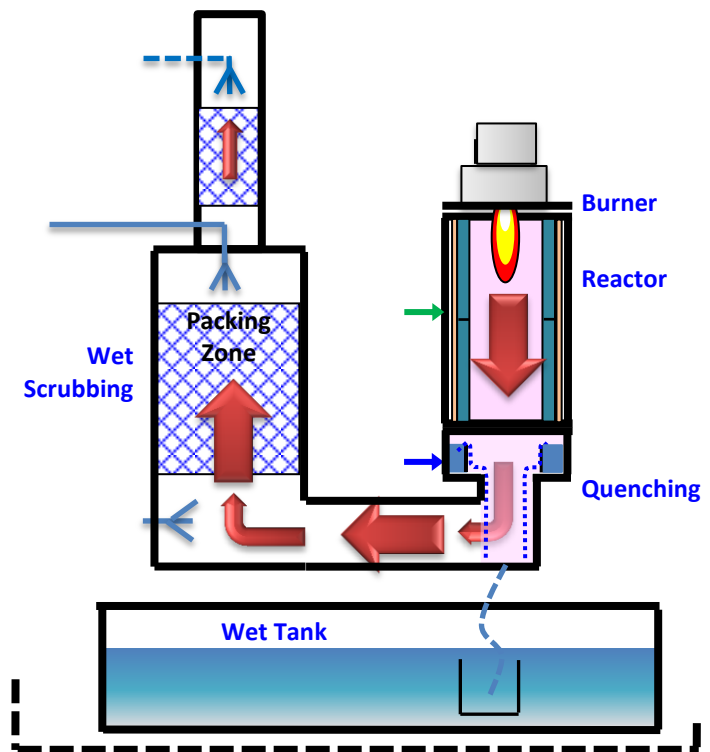
Exhaust solution for high-volume semiconductor manufacturing



Benefits

- > Virtually zero unscheduled downtime with DUO option
- > Low NOx and CO emissions with dual-stage burner
- > High abatement efficiency
- > Low utility consumption
- > Energy savings operation ready
- > HVM (high volume manufacturing) proven

System Specifications



Applications

- > Semiconductor processes

Features

- > Dual-stage combustion
- > Independent Fuel/O₂/Air control
- > ACCS (Air Curtain Cleaning System)
- > Built-in bypass valve
- > Flash data recording capability
- > High/Low fuel interface
- > Integrated redundant abatement option with Dragon-DLE (DUO)
- > Diaphragm pump drain standard / gravity drain option
- > Fuel options: LNG / LPG
- > Heater jacket option
- > pH adjust option: NaOH injection
- > Configurable number of inlets up to 4
- > Auto inlet entry clean option

- Total System Capacity: **500 slm**
- Per Inlet Capacity: **150 slm**
- Process Inlets: **1~4 inlets, NW40**

- MTBF: **> 4,300 hours**
- MTTR: **< 1 hour**
- MTTP: **< 1 hour**

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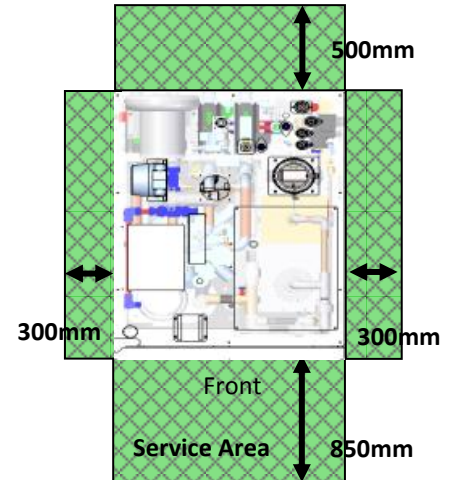


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Dimensions and Weight

	Dragon	Dragon DUO
Dimension (W x D x H in mm)	850 x 1035 x 1710	1585 x 1085 x 1845
Weight (kg)	550	1050



Utilities

Item	Type	Typical Usage (per reactor)	Connection Type	
			Dragon	Dragon DUO
Electricity	208VAC 3 Phase	1.2 KW		
LNG	0.3 ~ 1.8 kg/cm ²	16 SLM	½" VCR	½" VCR
O2	3 ~ 4 kg/cm ²	17 SLM	½" SS compression	½" SS compression
CDA	5 ~ 6.5 kg/cm ²	190 SLM	½" SS compression	¾" SS compression
GN2	3 ~ 6 kg/cm ²	20 SLM	½" SS compression	½" SS compression
City Water	3 ~ 6 kg/cm ²	2 L/min	½" SS compression	¾" SS compression
Cooling Water	3 ~ 6 kg/cm ²	20 L/min	½" SS compression	¾" SS compression
Drain Water	Acid Drain	2 L/min	15A PVC union	20A PVC union
Gas Exhaust	-50 ~ -80 mmH2O	1 m ³ /min	MF100 Flange	MF100 Flange
Cabinet Exhaust	-30 ~ -60 mmH2O	2 m ³ /min	MF100 Flange	MF100 Flange
NaOH (option)	0.5 ~ 1 kg/cm ²	50% 10 kg/day	1 ½" PVC double containment	

Environment

- Clean and dry environment
- Temperature: 5 ~ 27 °C
- Relative Humidity: < 55%

Abatement Noise Level

- Normal operation at ≤ 80 dB(A)