

Durian

“PLASMA-WET” TYPE POU ABATEMENT

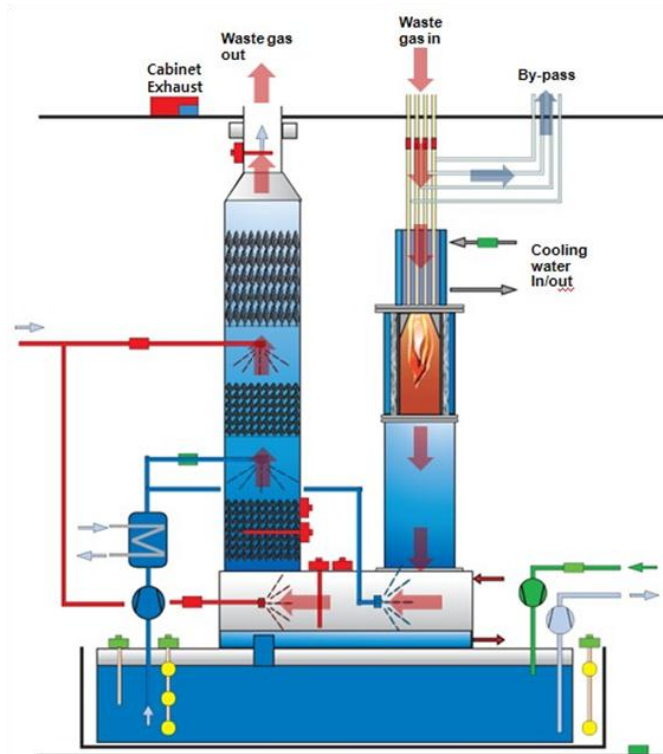
Exhaust solution for high-volume semiconductor manufacturing



Benefits

- > High PFC abatement efficiency
- > Corrosion resistant reactor
- > Long electrode and anode lifetime with rotating arc
- > Easy maintenance design
- > HVM (high volume manufacturing) proven

System Specifications



Applications

- > Semiconductor processes

Features

- > Inconel and ceramic reactor construction with heat recovery
- > High active thermal ARC Plasma torch
 - Tungsten electrode with cooling
 - Oxygen free copper anode
 - Permanent magnet for rotating arc
 - Ceramic insulation
- > Built-in bypass valve
- > Diaphragm pump drain standard / gravity drain option
- > Energy saving operation ready
- > Heater jacket option
- > pH adjust option: NaOH injection
- > Configurable number of inlets up to 4

- Total System Capacity: **300 slm**
- Per Inlet Capacity: **100 slm**
- Process Inlets: **1~4 independent inlets, NW40**
- MTBF: **> 6,000 hours**
- MTTR: **< 1 hour**
- MTTP: **< 0.5 hour**

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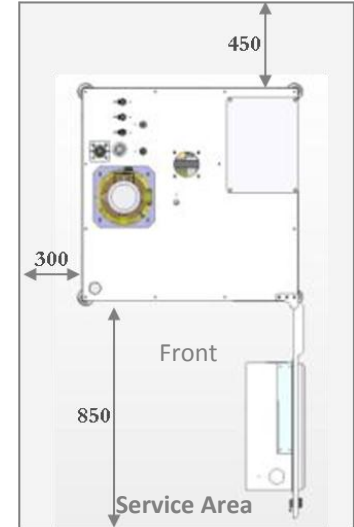
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Dimensions and Weight

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Dimension 850 x 895 x 1700 (1932)
(W x D x H in mm)

Weight 500
(kg)



Utilities

Item	Type	Typical Usage		Connection Type
		Low Energy	High Energy	
Electricity	208VAC 3 Phase	9 KW	13 KW	100A service
CDA	5 ~ 6.5 kg/cm ²	43 SLM	43 SLM	½" SS compression
GN2	3 ~ 6 kg/cm ²	90 SLM	90 SLM	½" SS compression
City Water	3 ~ 6 kg/cm ²	5 L/min	5 L/min	½" SS compression
Cooling Water	3 ~ 6 kg/cm ²	20 L/min	20 L/min	½" SS compression
Drain Water (gravity)	Acid Drain	5 L/min	5 L/min	40A PVC union
Drain Water (pump)	Acid Drain	5 L/min	5 L/min	20A PVC union
Gas Exhaust	-50 ~ -80 mmH2O	1 m ³ /min	1 m ³ /min	MF100 Flange
Cabinet Exhaust	-30 ~ -60 mmH2O	2 m ³ /min	2 m ³ /min	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)