

ISIS-I & II

“HEAT-WET” TYPE POU ABATEMENT



www.gst-international.com
sales@gst-international.com
+1.408.685.2199

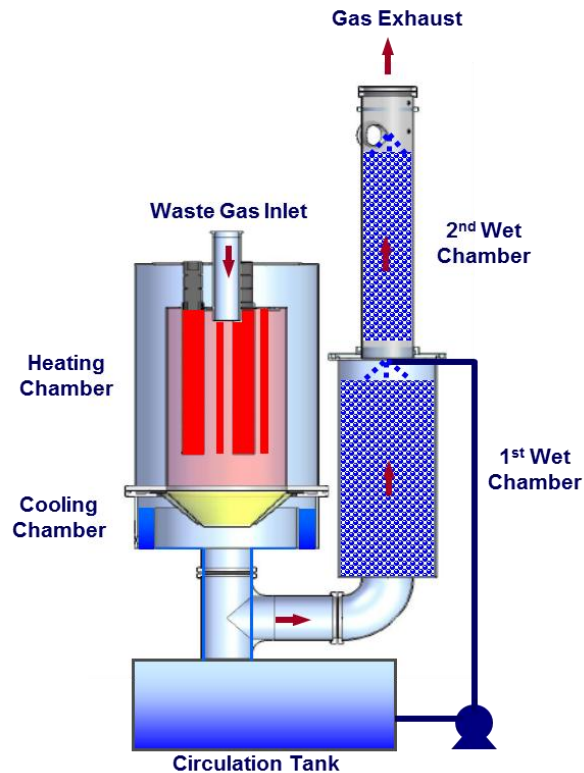
Exhaust solution for high-volume semiconductor manufacturing



Benefits

- > Corrosion resistant heater housing and reactor
- > Stable reactor temperature for high abatement efficiency
- > Low NOx and CO emissions
- > HVM (high volume manufacturing) proven

System Specifications



Applications

- > Semiconductor processes

Features

- > Inconel reactor (process gas path)
- > SiC heaters with Inconel 600 housing for 850°C operation
- > ACCS (Air Curtain Cleaning System)
- > CDA for reaction O2
- > Natural (gravity) drain standard / pump drain option
- > Heater jacket option
- > Heat exchanger option
- > pH adjust option: NaOH injection
- > Steam generator option

- Total System Capacity: ISIS-I 500 slm / ISIS-II 1,000 slm
- Required reaction CDA flow counts toward system capacity
- Per Inlet Capacity: ISIS-I 200 slm / ISIS-II 350 slm
- Process Inlets: 1~4 independent inlets, NW40
- MTBF: > 6,000 hours
- MTTR: < 2 (4) hour
- MTTP: < 1.5 (3.5) hour

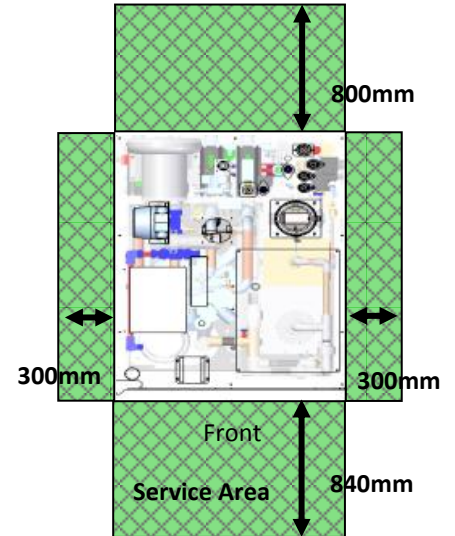
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Dimensions and Weight

	ISIS-I	ISIS-II
Dimension (W x D x H in mm)	720 x 860 x 1750	840 x 1000 x 1750
Weight (kg)	450	650



Utilities

Item	Type	Typical Usage		Connection Type	
		ISIS-I	ISIS-II	ISIS-I	ISIS-II
Electricity	208VAC 3 Phase	6 KW	10 KW	75A service	125A service
CDA	5 ~ 6.5 kg/cm ²	130/300 SLM*	200/500 SLM*	½" SS compression	¾" SS compression
GN2	3 ~ 6 kg/cm ²	50 SLM	50 SLM	⅜" SS compression	⅜" SS compression
City Water	3 ~ 6 kg/cm ²	3 L/min	5 L/min	½" SS compression	½" SS compression
DI Water	3 ~ 6 kg/cm ²	30 cc/min**	30 cc/min**	¼" SS compression	¼" SS compression
Cooling Water	3 ~ 6 kg/cm ²	30 L/min**	30 L/min**	½" SS compression	½" SS compression
Drain Water (gravity)	Acid Drain	3 L/min	5 L/min	40A PVC union	40A PVC union
Drain Water (pump)	Acid Drain	3 L/min	5 L/min	20A PVC union	20A PVC union
Gas Exhaust	-50 ~ -100 mmH2O	1 m ³ /min	2 m ³ /min	NW100 Flange	NW125 Flange
Cabinet Exhaust	-30 ~ -60 mmH2O	2 m ³ /min		MF100 Flange	MF100 Flange

* Process dependent - higher usage listed for high H2 process

** Required only with selected option – DI Water with “Steam Generator” option, Cooling Water with “Heat Exchanger” option

Environment

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

Abatement Noise Level

- Normal operation at ≤80 dB(A)