

Dragon-LE & Dragon-DLE

“BURN-WET” TYPE POU ABATEMENT



www.gst-international.com

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Ph 408-887-6132

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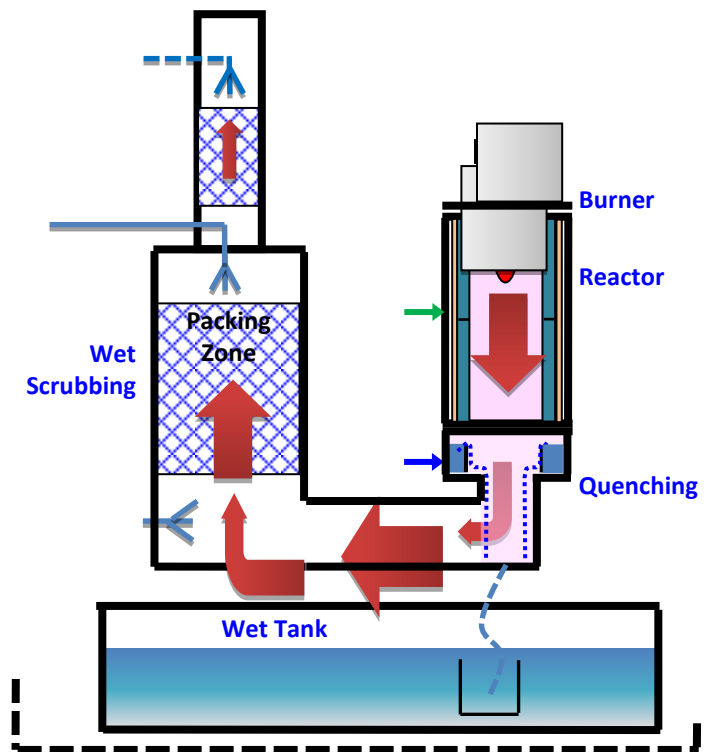
Exhaust solution for high-volume semiconductor manufacturing



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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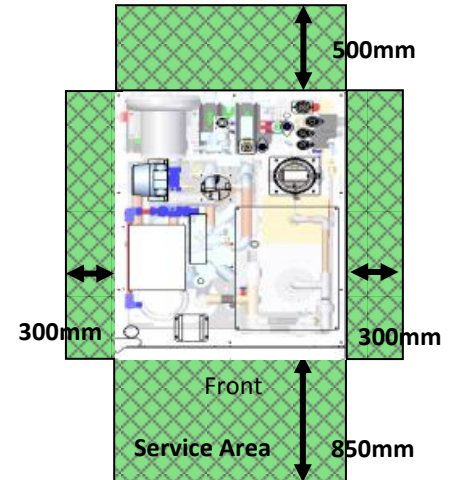


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Dimensions and Weight

| | 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)