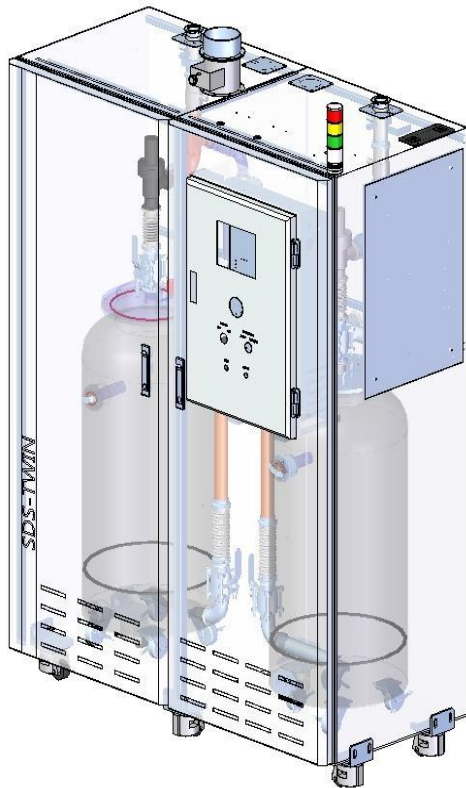


# SDS-500 "TWIN"

## "DRY" TYPE POU ABATEMENT

### Exhaust solution for high-volume semiconductor manufacturing



#### Applications

- > Semiconductor processes

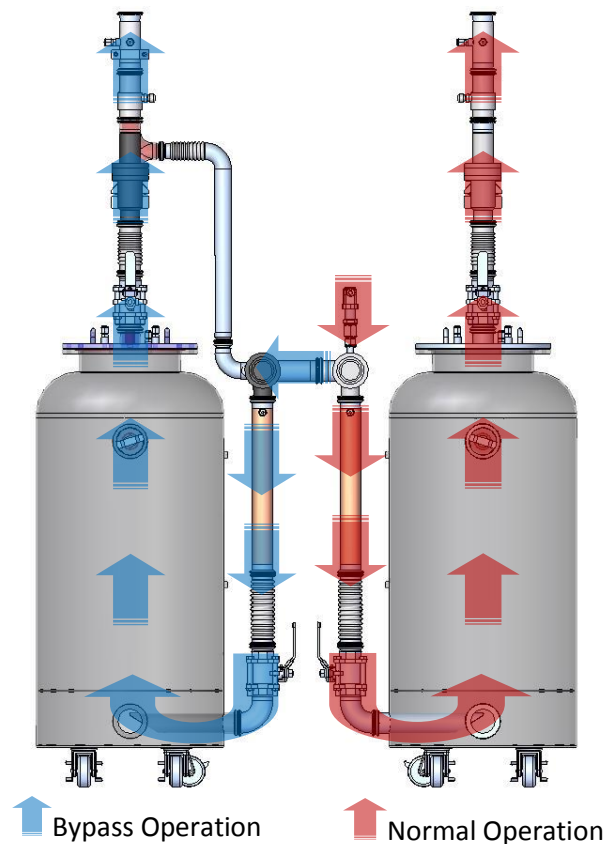
#### Features

- > Primary 80 liter cartridge x2
- > Bypass cartridge
- > Standard N2 purge function
- > 80% color change sight tube
- > Double-acting pneumatic valves for power failure ride through
- > Pressure monitoring and relief
- > N2 eductor for inlet pressure control
- > Temperature monitoring and auto N2 purge function
- > Gas monitoring options
- > In-situ oxidation option

#### Benefits

- > Virtually zero unscheduled downtime with bypass cartridge
- > High abatement efficiency
- > Designed for target gas emissions level below TLV
- > Low overall CoO
- > HVM (high volume manufacturing) proven

#### System Specifications



- Total System Capacity: **150 slm**
- MTBF: **>8,300 hours**
- MTTR: **<4 hour**
- MTPP: **<3 hour**

# SDS-500 "TWIN"

## "DRY" TYPE POU ABATEMENT



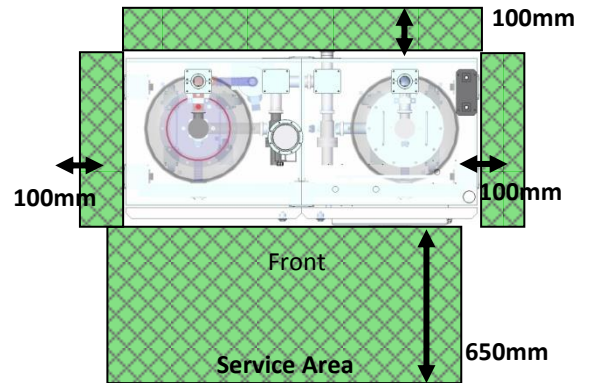
Exhaust solution for high-volume semiconductor manufacturing

### Dimensions and Weight

#### SDS-500

**Dimension** 1300 x 590 x 1740  
(W x D x H in mm)

**Weight** 480  
(kg) (with Resin)



### Utilities

Item	Type	Typical Usage	Connection Type
Electricity	208VAC1 Phase	0.1 KW	5A
N2	3 ~ 6 kg/cm <sup>2</sup>	40 LPM	1/4" SS compression
Air or N2	5 ~ 6.5 kg/cm <sup>2</sup>	<0.1 LPM	1/4" SS compression (Valve Operation)
Gas Exhaust	-50 ~ -100 mmH2O	0.2 m <sup>3</sup> /min	KF40 Flange (2 ports)
Cabinet Exhaust	-50 ~ -60 mmH2O	1 m <sup>3</sup> /min	Ø100mm

### Dry Media

Application	Adsorbent	Target Gas	Density
Acid gases	GST C1	Cl <sub>2</sub> , BCl <sub>3</sub> , HBr, HCl, HF	0.7
Basic gases	GST DB	NH <sub>3</sub>	0.75
Flammable gases	GST H2	SiH <sub>4</sub> , PH <sub>3</sub> , AsH <sub>3</sub> , B <sub>2</sub> H <sub>6</sub> , DCS	0.9
VOC	GST M1	VOCs, NH <sub>3</sub>	0.75
Sulfide gases	GST DS	H <sub>2</sub> S, SO <sub>2</sub>	0.7

- A combination of dry media may be used for optimum abatement efficiency and lifetime
- Other dry media types available

### Environment

- Temperature: 5 ~ 30 °C
- Relative Humidity: < 65%

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