

Our partner



EBARA CORPORATION

Precision machinery company

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TEL 81-466-83-8111 <https://www.ebara.co.jp/en/>



Point of use abatement systems

Wet Scrubber Model G-WS

Catalyst / Absorption Model GT

Precision machinery company Overseas office

USA:
Ebara Technologies Inc
H Q: Sacramento(CA)
F S C: Sacramento(CA)
Hillsboro(OR)
S S: San Jose(CA)
Albany (NY)
Newburyport
Boise(ID)

EUROPE:
Ebara Precision Machinery Europe GmbH
H Q: Sauerlach, Germany
F S C: Livingston, UK
Dresden, Germany
S S: Graz, Austria

KOREA:
Ebara Precision Machinery Korea Inc
H Q: Pyeongtaek
F S C: Pyeongtaek
S S: Seongnam
Hwasung
Cheonan
Icheon
Cheongju

CHINA:
Shanghai Ebara Precision Machinery Co.,LTD
H Q: Shanghai
F S C: Shanghai
S S: Wuxi
Dalian
Beijing
Wuhan

SINGAPORE:
Ebara Engineering Singapore Pte.Ltd
H Q: Tuas Link
F S C: Tuas Link

TAIWAN:
Ebara Precision Machinery Taiwan Inc
H Q: Taipei
F S C: Hukou
S S: Linkou
Hsinchu
Taichung
Tainan

Precision machinery company Japan office

- HQ**
Fujisawa(Kanagawa Pre.)
- Factory**
Fujisawa(Component product, Overhaul)
Chubu(Overhaul)
Suzuka(Overhaul)
Kumamoto(CMP,Plating,Bevel,Overhaul)
- Sales and support office**
Kitakami,Tohoku,Yamagata,
Fujisawa,Chubu,Osaka,
Hiroshima,Oita,Nagasaki,Kumamoto



Fujisawa(Component product, Overhaul)



● The product(s) described herein fall under "the goods listed in row 16 of the appended table 1 of the Export Trade Control Order of Japan", so in cases of export of such product(s), you need to confirm "use" and "purchaser and/or end-user" and, as case may be, obtain the approval of the Minister of Economy, Trade and Industry. (Please confirm these conditions on your own.) Furthermore, some of the product(s) fall under row 1-15 of the appended table 1 (listed items). In case of export of these listed items, you are required to obtain the export license from the Minister of Economy, Trade and Industry. For more information, please contact our sales office located near you.

● All specifications are subject to change without notice.
● *Model ○○○* in this catalogue is our model code.

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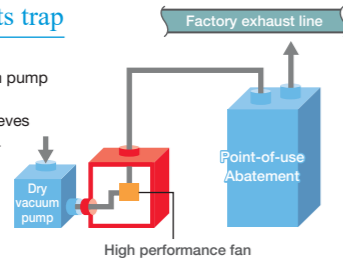
High performance wet trap Model FST, ETRAP, FTRAP

High performance wet trap installed behind a dry vacuum pump for extending the maintenance intervals of abatement system. Simple structure helps maintaining process uptime. Integrated with EBARA combustion type abatement, wet trap model can be applied for the wide range of semiconductor process.

Image

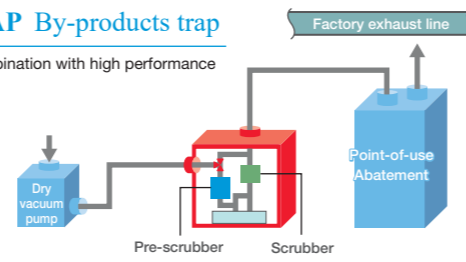
Model FST By-products trap

Equipped with Fan
Directly connected with a dry vacuum pump to remove by-products.
EBARA's design and technology achieves high destruction rate efficiency (DRE).



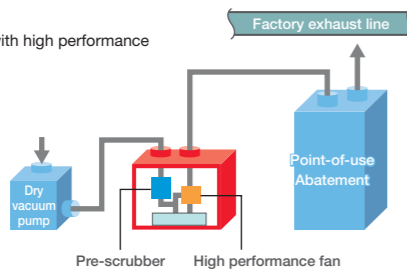
Model ETRAP By-products trap

Pre-scrubber in combination with high performance wet trap



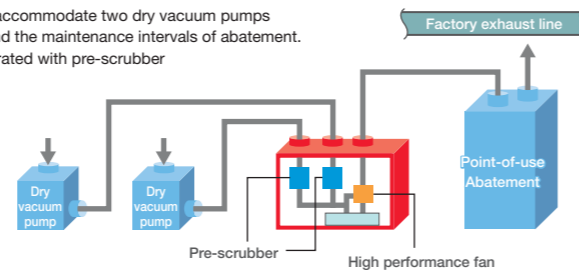
Model FTRAP-1 By-products trap

Reduced Footprint
Pre-scrubber in combination with high performance fan unit

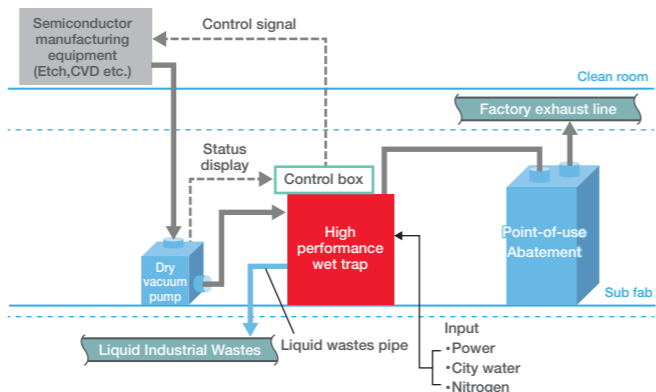


Model FTRAP-2 By-products trap

Can accommodate two dry vacuum pumps
Extend the maintenance intervals of abatement.
Integrated with pre-scrubber



Image



* Integrated with products from EBARA make it possible to output control signal to equipment side in batch.

Corrosion resistant technology derived from EBARA's abatement systems

Unique water wall technology for preventing by-products adhere on all gas flow paths



Specifications

| Model | Maximum flow rate (L/min) | Inlet port numbers | Dimensions (mm) | Technology | | Process | | | | | | Feature | |
|---------|---------------------------|--------------------|----------------------|---------------|----------------------|----------------------------|---------------------------------------|------------------------------------|--------------------------------------|---|-------|---|-----------|
| | | | | Washing Tower | High performance fan | CVD | | | Etching | | Asher | | Epitaxial |
| | | | | | | SiO ₂ (HCD/DCS) | TiO ₂ (TiCl ₄) | WO ₃ (WF ₆) | SiO ₂ (SiF ₄) | B ₂ O ₃ (BCl ₃) | | | |
| FST | 400 | 1 | W400 × D390 × H1,026 | | ○ | ○ | | | | ○ | ○ | Directly connected with a dry vacuum pump | |
| ETRAP | 400 | 1 | W640 × D640 × H1,980 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | Low cost type | |
| FTRAP-1 | 180 | 1 | W900 × D700 × H1,980 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | High DRE | |
| FTRAP-2 | 360 | 2 | W900 × D700 × H1,980 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | High DRE | |

*Install an appropriate abatement after the high performance wet trap
*Please contact us for details.

*If you are considering other than semiconductor manufacturing process, please contact us.

Combustion type Model TND, G5, G6

EBARA combustion type Model provides environmental abatement solutions for harmful and greenhouse gases such as perfluorocarbon gases which are generated in semiconductor manufacturing process.

Effective combustion technologies and heat exchanger offers water-saving function to achieve significant reduction to the cost of ownership.

Excellent life-span based on the wide experience of EBARA from the most advanced semiconductor manufacturing process.

Unique combustion technologies of EBARA provides Sustainable Development Goal solutions for the abatement of greenhouse gases from semiconductor manufacturing processes.

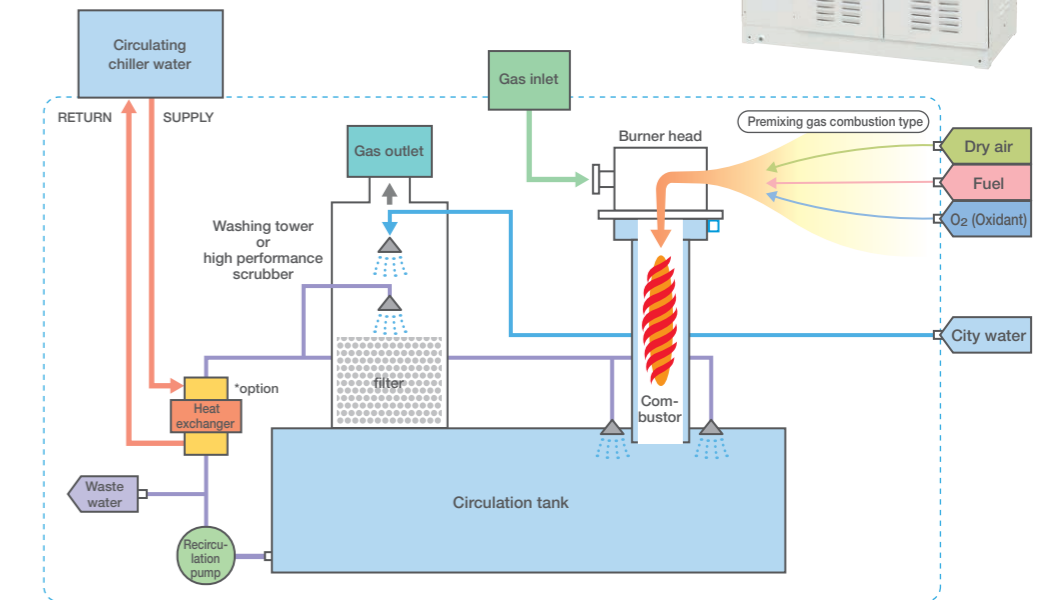
Model TND



Model G5



Model TND image flow



Specifications

| Model | Maximum flow rate (L/min) | Inlet port numbers | Dimensions (mm) | By-product solutions | | | Process | | | | | |
|-----------------|---------------------------|--------------------|--------------------------|--------------------------|-----------------------|----------|---------|---------|-------|-----------|----|---|
| | | | | Pre-scrubber | Burner water flushing | Scrapers | CVD | Etching | Asher | Epitaxial | PV | |
| G5-A4 | G5-350 | 350 | ~4 | | | ○ | ○ | ○ | ○ | | | |
| | G5-500 | 500 | ~4 | | | ○ | ○ | ○ | ○ | | | |
| | G5-600 | 600 | ~4 | | | ○ | ○ | ○ | ○ | | | |
| G5-A6 | G5-1200 | 1200 | ~6 | | | ○ | ○ | ○ | ○ | | | |
| G6-E-A4 | 400 | ~4 | W1,260 × D910 × H1,930 | | | ○ | ○ | ○ | ○ | | ○ | |
| G6-PV-A4 | 1200 | ~4 | W1,200 × D1,880 × H2,300 | | | ○ | ○ | ○ | ○ | | | ○ |
| TND-Single | 400 | ~4 | W1,200 × D650 × H1,980 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| TND-Single Plus | -A2 | 400 | ~2 | W1,200 × D650 × H1,980 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | -A8 | 400 | ~8 | W1,200 × D1,150 × H1,980 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | -A4 | 800 | ~4 | W1,600 × D850 × H1,980 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| TND-Double | 800 | ~4+4 | W1,800 × D650 × H1,980 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| TND-Dual | 800 | ~6+6 | W1,860 × D750 × H1,980 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |