

Our EasyExhaust™ Gas Abatement Systems provide proper safety to plant and personnel in the handling of hazardous gases. We have taken extensive measures to provide fail-safe designs and combine them with forward thinking features in an effort to offer a safe, versatile product for specialty gas exhaust requirements.

Burn Box



The EasyExhaust™ Burn Box/Pyrolizer will thermally decompose the exhaust gases.

Features:

- Maximum furnace operating Temperature - 900 °C
- Quartz reaction tube
- Internal baffles for increased reaction surface area.
- Thermocouple for temperature control and monitoring
- Integrated air flow switch

Wet Scrubber



The EasyExhaust™ Wet Scrubber removes particles and cools the exhaust gases prior to exiting the system.

Features:

- Water spray packed tower exhaust
- Water recirculation system to conserve water usage
- pH monitor with closed loop control for water effluent usage
- Automatic pH neutralization of the recirculating fluid using a sodium hydroxide (optional)

Pyrolizer/Wet Scrubber



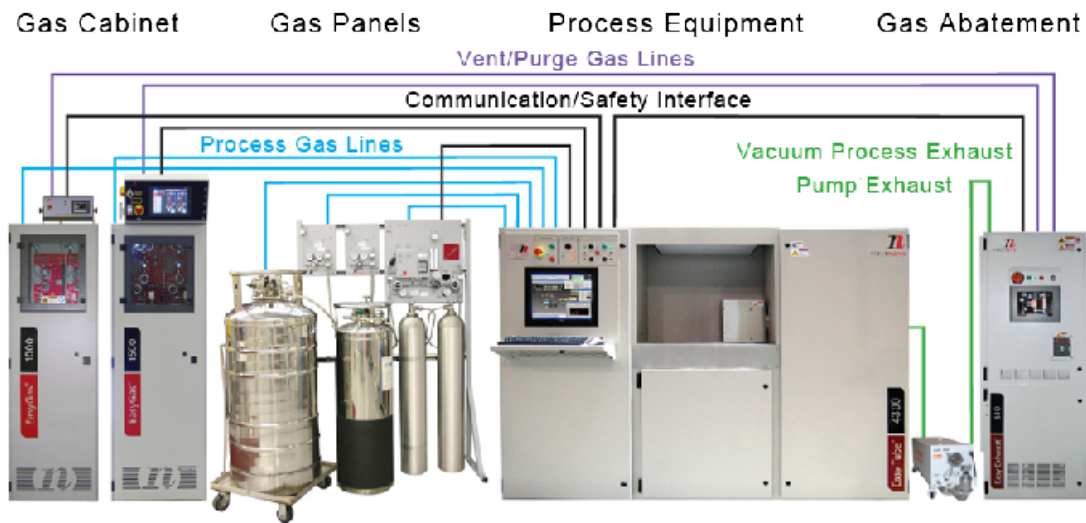
The EasyExhaust™ Pyrolizer/Wet Scrubber will first thermally decompose/oxidize gases in a furnace, then pass the gases through a water spray packed tower to wet scrub, remove particles and cool the exhaust gases prior to exiting the system.

Features:

- Maximum furnace operating temperature - 900 °C
- Digital temperature setpoint and readout
- Vertically mounted, inonel reaction tube with water cooled top flange
- Air flowmeter for oxidation
- Dry type air pump
- Water spray packed tower exhaust
- Pressure monitor interlocks out system and sounds an audible alarm if system clogs
- Automatic PLC system control

Burn Box	Wet Scrubber	Pyrolizer/Wet Scrubber
<ul style="list-style-type: none"> > CO > C₂H₂ > C₂H₄ > CH₄ > H₂ 	<ul style="list-style-type: none"> > BBr₃ > BCl₃ > Cl₂ > F₂ > H₂S > H₂Se > HBr > HCl > HF > NH₃ > POCl₃ 	<ul style="list-style-type: none"> > B₂H₆ > BBr₃ > BCl₃ > Cl₂ > CO > F₂ > GeH₄ > Metalorganics (DEZ, TMA, SiCl₄, TCS etc.) > Hydrocarbons (CH₄, C₂H₄, C₂H₂, etc.) > H₂ > H₂Se > NH₃ > SiH₄ > PH₃ > POCl₃

Configurable R&D/Production CVD Equipment



First Nano offers configurable **EasyTube**[®] CVD processing systems with support equipment such as Gas Cabinets and Exhaust Gas Conditioning Systems. All major components from one vendor makes component interfacing easy. The First Nano **EasyGas**[™] gas cabinet is capable of delivering a wide variety of toxic and hazardous gases. The **EasyExhaust**[™] System will thermally pyrolyze and/or wet scrub process exhaust gases.

Our field proven system performance and solid customer base establishes First Nano as the clear choice in leading edge nanotechnology development equipment for the advanced research facility.

Call us at (631) 981-7081 to discuss a product solution for your project. We can also be reached at sales@firstnano.com or visit our website at <http://www.firstnano.com>

CVD Equipment Corporation

355 South Technology Drive | Central Islip, NY 11722 | Tel: 631.981.7081 | Fax: 631.981.7095 | www.firstnano.com | www.cvdequipment.com

© 2014 CVD Equipment Corporation

All rights reserved. No part of this document may be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission of CVD Equipment Corporation. EES_28