



**API'S NO<sub>2</sub> TO NO CONVERTERS**

**I. SCOPE:**

This document describes the different models of NO<sub>2</sub> to NO converters that Advanced Pollution Instrumentation, Inc. offers. This document is for informational purposes only.

**II. INFORMATION:**

1. Advanced Pollution Instrumentation, Inc. offers three basic converters. They are the 'Moly' converter, the 'Mini-hicon' converter, and the 'Thermal Oxidizer' converter. All three converters, when operated in separate applications conducted with an analyzer, have the following specifications:

| <u>Name</u>      | <u>Range</u>              | <u>Efficiency</u> | <u>Temp</u> | <u>Max Flow</u> |
|------------------|---------------------------|-------------------|-------------|-----------------|
| Moly-con         | 0-10 PPM NO <sub>2</sub>  | > 96%             | 315°C       | 250cc/min       |
| Mini-hicon       | 0-100 PPM NO <sub>2</sub> | > 85%             | 700°C       | 250cc/min       |
| Thermal Oxidizer | 0-250 PPM NO <sub>2</sub> | > 85%             | 700°C       | 250cc/min       |

The Thermal Oxidizer can increase efficiency up to >96% with the addition of a Moly-con in the M501.

In order to know what type of converter is necessary for you application, you will need to know how much NO<sub>2</sub> is being measured, and how efficient the conversion must be.

If you have a Thermal Oxidizer that includes a Moly-con there is no performance degradation by having a second Moly in series with the Thermal Oxidizer. For example: There is a Moly converter internal to the NO<sub>x</sub> analyzer. The more converters there are in series the higher efficiency number will be.

**If you have questions regarding this procedure or any API equipment, please contact an API Customer Service representative at:**

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