



## Applications

Chemical Processing &  
Manufacturing Facilities

Gas Processing Facilities

Refineries

Transportation Pipelines

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## Specifications

### Dimensions:

13" high  
3" diameter  
(19" h with junction box;  
junction box 3.75"  
diameter)

### Weight:

10 pounds  
(4.5 kilograms)

### Flow Rate:

1 liter / minute  
(0.035 scfm)  
(2,000 btu / hour  
maximum)

Back Pressure:  
nil

### Power Consumption:

100 watts (max)  
(110/120 vac, 50/60 hz)

### End Products:

Water Vapor, Carbon  
Dioxide

# Analyzer Hydrocarbon Catalytic Convertor

P/N 1211-021-120

**M**ost hydrocarbon processing plants and transportation pipelines require the use of chemical analysis instrumentation. These analytical instruments require a stable outlet vent pressure referenced to atmospheric pressure for proper operation. This reference may be achieved by venting the sample to atmosphere. Some of the vented samples contain hydrocarbons, referred to as fugitive emissions. Fugitive emissions are air pollutants and contribute to worldwide environmental concerns.

**T**he focus of the Analyzer Hydrocarbon Catalytic Convertor is the use of a catalytic conversion process to oxidize vented samples while maintaining an atmospheric pressure reference. The device utilizes a continuous heat source to allow effective conversion of intermittent as well as continuous vent streams.

**I**n hazardous locations, the unit is approved by the Canadian Standards Association for Class 1, Division 1, Group B, C, and D, T3B classification.



## MTI Analytical Technology

P.O. Box 571866  
Houston, TX 77257-1866 USA  
Tel: +1 713.978.7765  
Fax: +1 713.583.9423  
[www.mertechinc.com](http://www.mertechinc.com)

*Analytical Instrumentation*



## **Analyzer Hydrocarbon Catalytic Convertor Specifications** (ver 1905)

**PART NUMBER:** 1211-021-120

**BACKPRESSURE:** Nil @ 1 liter/minute (<0.1" H<sub>2</sub>O @ 3 liters/minute)

**HYDROCARBON EMISSION PRODUCTS:** Water Vapor, Carbon Dioxide  
(Nil NO<sub>x</sub> formation due to low temperature operation)

**SURFACE TEMPERATURE CLASSIFICATION:** T6 – 185° F (T3B – 330° F maximum operation)

**CATALYST LIFE:** Recommend catalyst replacement each year of operation to ensure efficiency of operation (P/N 0146-900)

**MAXIMUM CONCENTRATION:** 2,000 BTU/HR and/or 1 liter per minute

**ELECTRICAL CLASSIFICATION:** Canadian Standards Association (CSA)  
Approved for Class 1, Division 1, Groups B, C, and D, T3B  
(Suitable for Class 1, Zone 1, Ex Group IIB + H<sup>2</sup>)

**MATERIALS of CONSTRUCTION:** Stainless steel, Aluminum, Platinum Catalyst  
(Other materials available as options)

**SAMPLE INLET CONNECTION:** ¾" MNPT (with Flame Arrestor)

**AVAILABLE WITH OPTIONAL TYPE J INTERNAL THERMOCOUPLE  
TEMPERATURE SENSING ELEMENT:** Specify Part Number 1211-021TCJ-120

**MTI Analytical Technology** is available to assist with **Analytical Application** requirements. Should there be questions or additional information required, please advise.

**Email:** [dcmerriman@mertechinc.com](mailto:dcmerriman@mertechinc.com)