



Tronic Purity, inc.

# CATTRON

## The Heated Catalyst Gas Purifiers

The **CATTRON®** Series heated catalyst gas purifiers are designed for use with CDA and Oxygen, effectively reducing hydrocarbon, carbon monoxide, and hydrogen impurities to levels below 1 ppb. The purification process involves catalytic oxidation of reducing species, including CH<sub>4</sub>, NMHC (non-methane hydrocarbons), CO, and H<sub>2</sub>.

For situations requiring the removal of CO<sub>2</sub> and/or H<sub>2</sub>O, a LINETRON series purifier can be installed downstream. The CATTRON series purifiers are engineered for continuous, uninterrupted operation without the need for consumable components. Under normal conditions, there is no need to replace or regenerate the purification column, eliminating the need for an end-point detection device and ensuring straightforward installation and operation.

### Purifier Performance

Inlet Impurity		Outlet Impurity
CH <sub>4</sub>	} 30 ppm	< 1 ppbv.
NMHC		< 1 ppbv.
CO		< 1 ppbv.
H <sub>2</sub>		< 1 ppbv.

### Numbering System

Model No.:	Flow Rate
CT2-1 (110VAC) or CT2-2 (220 VAC)	5 slpm.
CT3-1 (110VAC) or CT3-2 (220 VAC)	80 slpm.
CT4	150 slpm.

## CATTRON® CT2 platform | The 5 slpm Heated Catalyst Purifier. Model No.: CT2-1/2



**CATTRON® CT2 platform**  
The 5 slpm Catalyst Purifier.

**110VAC and 220VAC Power Options:** The CATTRON® CT2 platform heated catalyst gas purifier offers adaptable power supply choices for diverse applications. Select between 110VAC and 220VAC to suit your specific needs and ensure optimal performance.

**PID Temperature Controller:** Integrated within the purifier, this controller precisely manages and maintains elevated temperatures. By regulating the temperature, it ensures consistent gas purity in the outlet stream, enhancing the overall performance of the system.

**Wall-Mountable Design:** The purifier's space-saving design is engineered for efficiency. It can be conveniently mounted on walls.

<b>Flow Rate:</b>	5 slpm
<b>Inlet Gas Pressure:</b>	3.5 ~ 9.8 bar.
<b>Inlet and Outlet Connection:</b>	1/4" MVCR
<b>Outlet Gas Temperature:</b>	<50 °C
<b>Power Input:</b>	M/N: CT2-1, 110 VAC, 100 W. M/N: CT2-2, 220 VAC, 75 W.
<b>Dimension:</b>	H: 635 mm x W: 254 mm x D: 123 mm
<b>Weight:</b>	5.2 Kg.



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**GAS** Analytical  
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## CATTRON® CT3 platform | The 80 slpm Heated Catalyst Purifier. Model No.: CT3-1/2

**110VAC and 220VAC Power Options:** The CATTRON® CT3 platform heated catalyst gas purifier offers adaptable power supply choices for diverse applications. Select between 110VAC and 220VAC to suit your specific needs and ensure optimal performance.

**Integrated with a PLC and 7" Touchable HMI:** The purifier is equipped with an integrated PLC and a 7" HMI, which precisely controls and maintains elevated temperatures and purifier operations. This stability ensures consistent gas purity in the output stream. The CT3 series purifier is embedded with MODBUS communication for integration with customer SCADA monitoring systems, enhancing the overall performance of the system.

**Wall-Mountable and Floor-standing Design:** The purifier's space-saving design is engineered for efficiency. It can be conveniently mounted on walls or floor-standing.



<b>Inlet Gas Pressure:</b>	3.5 ~ 9.8 bar.	<b>Flow Rate:</b>	80 slpm
<b>Inlet and Outlet Connection:</b>	1/4" MVCR	<b>Outlet Gas Temperature:</b>	<50 °C
<b>Instrument Air:</b>	4.1 ~ 6.9 bar. N2 or CDA. 1/4" Quick plug.	<b>Power Input:</b>	M/N: CT3-1, 110 VAC, 300 W. M/N: CT3-2, 220 VAC, 220 W.
<b>Bypass Type:</b>	Auto Bypass.	<b>Communication:</b>	MODBUS, RJ-45 Connection.
<b>System Exhaust:</b>	4" Duct.	<b>Dimension:</b>	H: 900 mm x W: 300 mm x D: 300 mm
		<b>Weight:</b>	41 Kg.

## CATTRON® CT4 platform | The 150 slpm Heated Catalyst Purifier. Model No.: CT4



**Integrated with a PLC and 7" Touchable HMI, MODBUS Communication available:** The purifier is equipped with an integrated PLC and a 7" HMI, which precisely controls and maintains elevated temperatures and purifier operations. This stability ensures consistent gas purity in the output stream. The CT4 series purifier is embedded with MODBUS communication for integration with customer SCADA monitoring systems, enhancing the overall performance of the system.

**Floor-standing Design:** The purifier features a space-saving design optimized for efficiency, making it ideal for convenient floor-standing installation.

<b>Inlet Gas Pressure:</b>	3.5 ~ 9.8 bar.
<b>Inlet and Outlet Connection:</b>	1/2" MVCR
<b>Instrument Air:</b>	4.1 ~ 6.9 bar, N2 or CDA, 1/4" SWG.
<b>Bypass Type:</b>	Auto Bypass.
<b>System Exhaust:</b>	4" Duct.
<b>Flow Rate:</b>	150 slpm
<b>Outlet Gas Temperature:</b>	<50 °C
<b>Power Input:</b>	220 VAC, 1,200 W.
<b>Communication:</b>	MODBUS, RJ-45 Connection.
<b>Dimension:</b>	H: 1,241 mm x W: 700 mm x D: 450 mm
<b>Weight:</b>	150 Kg.



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