



## Catalyzing the Future®

Activated Research Company (ARC) was founded in 2014 with a mission to create catalytic products for our customers to improve the accuracy and overall cost of chemical analysis. ARC's first product, the Polyarc® system, is a breakthrough innovation that combines catalysis with chemical analysis to revolutionize 60 year old GC/FID technology. Launched in 2015, the Polyarc® is the world's first commercial 3D printed reactor.



### What it is:

ARC introduces the NEW Jetanizer™ for drastically simpler analysis of CO and CO<sub>2</sub>. Made possible by advances in 3D printing and ARC's proprietary catalysts, the Jetanizer™ is the world's easiest methanizer to use and requires no extra plumbing, heaters, gases or toxic nickel catalysts.

The Jetanizer™ installs in your FID like a normal jet to catalytically convert CO and CO<sub>2</sub> to methane for ppb-to-100% concentration detection.

### How it works:

Simply remove your FID jet and install the Jetanizer™ in its place. It's that simple!

### Why it matters:

Your time is important. That's why ARC designed the Jetanizer™ to be a fast, easy, and economical replacement to your traditional methanizer. Install one and improve lab operations today!



## Retire Your Old Methanizer



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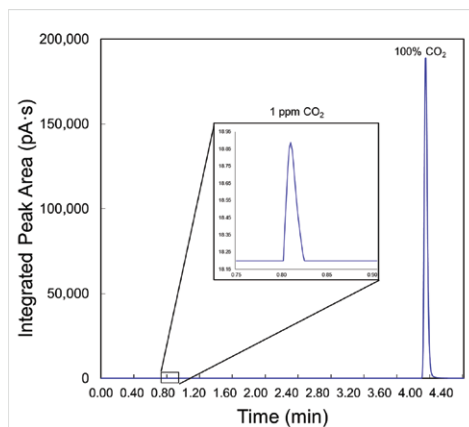
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# The Jetanizer™

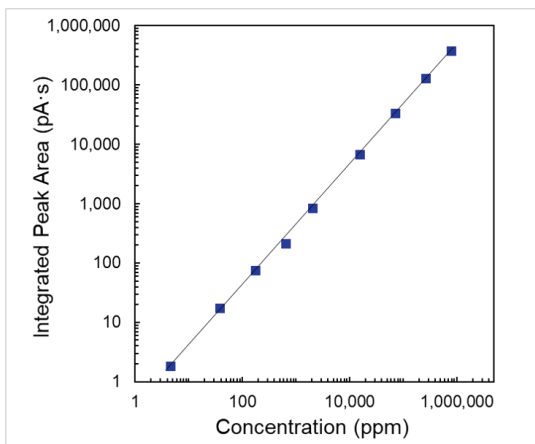
## The World's Easiest Methanizer

## Drastically simpler analysis of CO and CO<sub>2</sub>.

The Jetanizer™ allows you to maintain your chromatography while achieving simpler analysis. This chromatogram shows CO<sub>2</sub> conversion to methane from 1 ppm to 100% concentrations.



The Jetanizer's™ higher catalytic activity, as compared to nickel catalysts, allows for a larger linear dynamic range. Here, a linear dynamic response to CO<sub>2</sub> is depicted, from ppm to 100% concentrations.



## The Jetanizer™ has significant advantages when compared to a methanizer.

	Jetanizer™	Methanizer
Accurate CO and CO <sub>2</sub> Conversion	✓	✓
<5 minute installation	✓	✗
Sulfur Tolerant	✓	✗
No Extra Equipment Needed	✓	✗
Non-Toxic	✓	✗

- Lower up-front cost
- No extra plumbing: minimize fittings and leaks
- No extra heater or controller: utilizes heat from FID
- FAST installation: in as little as 5 minutes or less
- Free up space on the GC



## The Polyarc® system and the Jetanizer™ each have specific benefits, depending on your application.

	Polyarc® System	Jetanizer™
Universal Response	✓	✗
Resistant to Poisons	✓	✗
Capillary Column Compatible	✓	✓
Accurate CO and CO <sub>2</sub> Conversion	✓	✓
Reduction in Calibration	✓	✓

The Polyarc® system and the Jetanizer™ are used in many industries, including:

- Chemicals
- Paints & coatings
- Flavor & fragrance
- Pharmaceuticals
- Oil & gas
- Biofuels
- And more

Reach out to the technical experts at Activated Research Company to discuss which product is the best fit for you.

[contact@activatedresearch.com](mailto:contact@activatedresearch.com)