



### 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



**CHROMATOGRAPHIC  
SPECIALTIES INC.**

**1-800-267-8103**

**[www.chromspec.com](http://www.chromspec.com)**

**[tech@chromspec.com](mailto:tech@chromspec.com)**

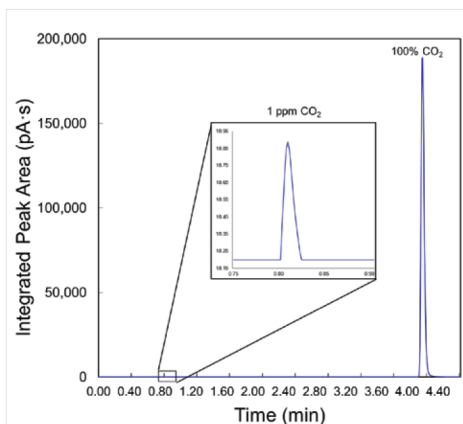
## The Jetanizer™

### The World's Easiest Methanizer

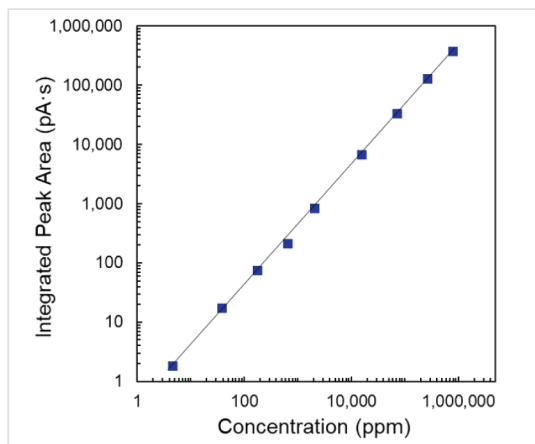
[www.activatedresearch.com](http://www.activatedresearch.com)

## 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