

# **Biomist™** *Power Sanitizing System*

The First Safe Method  
for Power-Spraying an  
Alcohol-Based Sanitizer

**BIOMIST**

*Saving Money. Saving Lives.*

# Today's Sanitizing Methods Demand Improvement

- Current sanitizing practices can be difficult, time-consuming, expensive, and not always effective.
- A single recall of tainted ground beef can reach into the millions of pounds.
- The CDC estimates that 5,000 die from food-borne pathogens in US each year.



**BIOMIST**

*Saving Money. Saving Lives.*

# Introducing the Biomist™ Power Sanitizing System

- Sanitizes more completely and with far less labor than any previous method.
- First safe method for power spraying with a solution of concentrated alcohols.
- Kills both surface and airborne pathogens.



**BIOMIST**

*Saving Money. Saving Lives.*

## Biomist—How Does It Work?

- Biomist uses CO<sub>2</sub> as a carrier to spray the sanitizing solution.
- Sanitizer contains 70% alcohol, an optimal disinfecting agent.
- Adjuvants continue sanitizing after the alcohol evaporates.



**BIOMIST**

*Saving Money. Saving Lives.*

## Fire Safe Operation

- By enveloping the alcohol mist in a stream of CO<sub>2</sub> propellant, alcohol cannot ignite, even in presence of fire or electrical spark.



**BIOMIST**

*Saving Money. Saving Lives.*

## Power Mist Unit

- Power mist unit propels fog of sanitizer up to 15 feet.
- Operation is as easy as point-and-spray.
- Easy-to-change reservoir holds proprietary Biomist sanitizing solution.
- Nozzle atomizes spray into micro-size droplets.

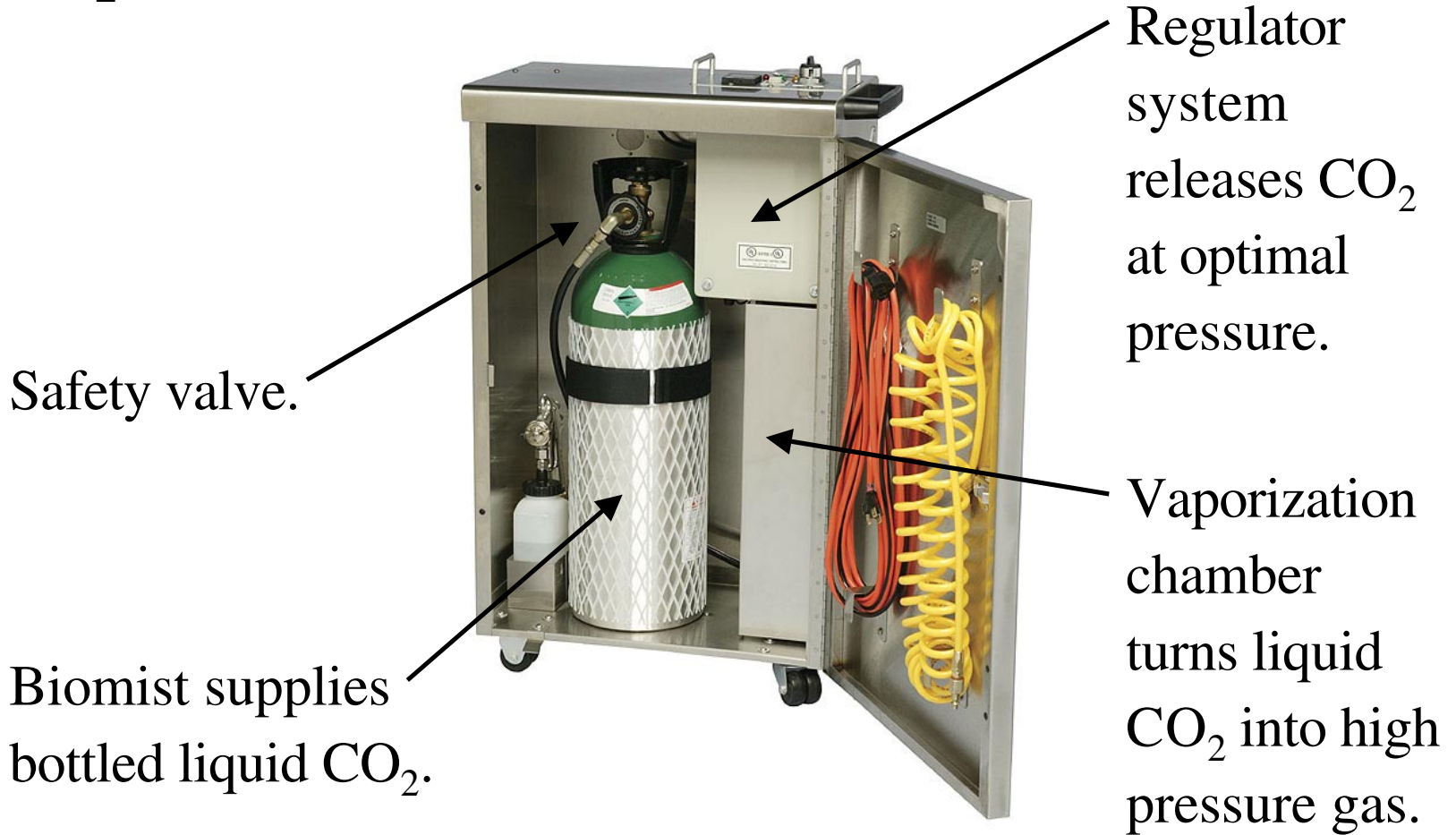


**BIOMIST**

*Saving Money. Saving Lives.*



# CO<sub>2</sub> Propellant System



**BIOMIST**

*Saving Money. Saving Lives.*

# Biomist Control System

- Easy-to-use controls set vaporization chamber temperature and gas pressure.
- Indicator lights show Standby, Ready, and Low CO<sub>2</sub>.
- Timer can shut system down automatically.
- Digital vaporization temperature readout.



**BIOMIST**

*Saving Money. Saving Lives.*



## More Effective & More Cost-Effective

- Fastest sanitizing method available, by far.
- More thorough: Micro-droplets swirl into places impossible to reach with other methods.
- Requires no wipe-down.
- Dries in seconds.
- Can be used on precision machinery or electronic equipment without risk of corrosion.



**BIOMIST**

*Saving Money. Saving Lives.*

# Biomist Testing Protocol

## EPA Testing Guidelines

- Food and medical industries
  - 3 microorganisms
    - Staphylococcus aureus
    - Pseudomonas aeruginosa
    - Salmonella choleraesuis
  - 60 inoculated plates, 3 trials
  - Demonstrate 99.999% microorganism kill
  - Challenge level of microorganism:  $>1 \times 10^6$
- Simulate intended use conditions
  - 70% isopropanol solution
  - Spray distance 3-4 feet
  - Mist contact 2-3 seconds

**BIOMIST**

*Saving Money. Saving Lives.*

# Biomist Study Results

Test Organism	Number of Carriers	
	Exposed	Showing Growth
Staphylococcus aureus	180	0
Salmonella choleraesuis	180	0
Pseudomonas aeruginosa	180	0

**BIOMIST**

*Saving Money. Saving Lives.*

# Biomist Testing Protocol

## EPA Testing Guidelines

- Food and medical industries
  - 2 microorganisms
    - *Lysteria monocytogenes*
    - *Escherichia coli*
  - 10 inoculated plates, 3 trials
  - Demonstrate 99.999% microorganism kill
  - Challenge level of microorganism:  $>1 \times 10^6$
- Simulate intended use conditions
  - 70% isopropanol solution
  - Spray distance 3-4 feet
  - Mist contact 2-3 seconds

**BIOMIST**

*Saving Money. Saving Lives.*

# Biomist Study Results

Test Organism	Number of Carriers	
	Exposed	Showing Growth
<i>Lysteria monocytogenes</i>	30	0
<i>Escherichia coli</i>	30	0

**BIOMIST**

*Saving Money. Saving Lives.*