

## PureGuard™ Getter Weld Argon Purification Systems



### Model: WASG-10

The simply designed system utilizes a PID temperature controller and redundant over-temperature controller. A temperature alarm alerts the operator to any high or low temperatures and automatically shuts down the unit. However, due to the unique properties of zirconium based getter, all oxygen bearing impurities will continue to be removed long after the purifier has cooled to room temperature.

The PureGuard Getter Weld Argon System offers the capability to maintain maximum gas purity at low, high and transient flow rates. Johnson Matthey offers standard units - 5kg, 10kg and 20kg - which meet most specified flow rates and pressure drops. And if there isn't a standard unit in our line to meet your needs, Johnson Matthey will custom-engineer a unit for you.

Not only do PureGuard Getter Weld Argon Systems fit your application needs, they fit your installation demands as well. Designed with a small footprint, these units require very little real estate in your facility, enabling you to conserve valuable floor space.

### **Features**

- NEMA rated cabinets
- Safety relief valve
- 5kg, 10kg and 20kg getter vessels available
- High and low temperature alarms and shutdown
- PID temperature controlled with redundant over-temperature controller using an independent thermocouple
- Custom units available upon request (designed to meet customer specified flow rates)

### **Pure Performance for Purifying Argon**

For the highest quality welds, rely on Johnson Matthey's PureGuard Getter Weld Argon Purification Systems. These heated getter purifier systems are designed to deliver high purity argon critical for the manufacture of high quality, oxidation-free welds. Johnson Matthey combines purification and filtration technology in one system to ensure maximum gas quality.

PureGuard Getter Weld Argon Purification Systems use the highest quality non-evaporable, zirconium-based getter materials, which deliver argon with sub-ppb impurity levels. Also, heated operation allows for use of the entire volume of the getter material resulting in extremely high capacities to adsorb not only all oxygen bearing species, but all impurities – H<sub>2</sub>O, O<sub>2</sub>, CO, N<sub>2</sub>, CO<sub>2</sub> and THC (including H<sub>4</sub>).



**Johnson Matthey**  
Gas Purification Technology

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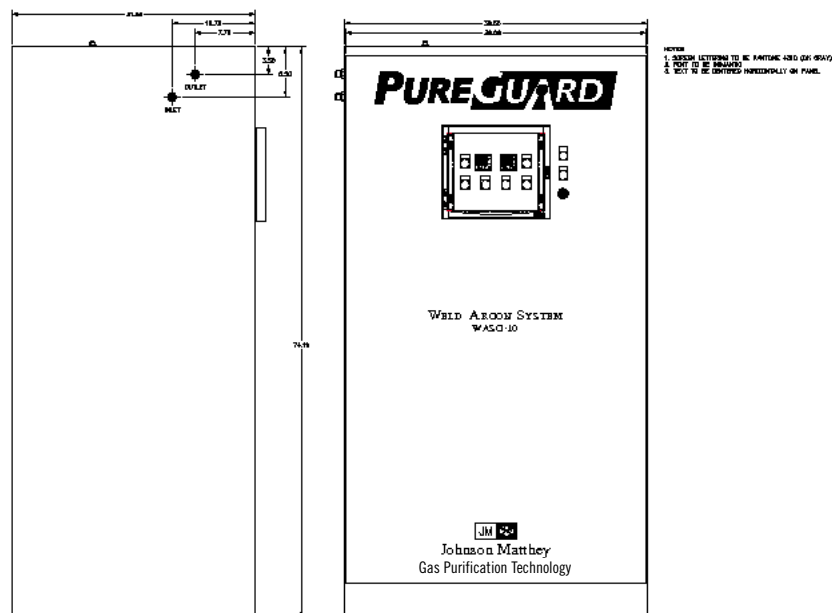
## Benefits

- Delivers ultra high purity inert gas for the manufacture of high quality welds and glovebox backfilling
- Easy operation
- Maintain maximum gas quality at low, high and transient flow rates
- Manufactured by Johnson Matthey, a global technology leader for 180 years
- Backed by superior Johnson Matthey technical support and customer service

## Specifications

- Flow rates: 5 Nm<sup>3</sup>/hr up to 40 Nm<sup>3</sup>/hr
- Impurities removed: O<sub>2</sub>, H<sub>2</sub>O, CO, THC, CO<sub>2</sub>, N<sub>2</sub>
- Pressure relief valve
- Particle count tested - to remove < 0.03 particles/liter (1 particle/ft<sup>3</sup>) greater than 0.01µm diameter
- Pneumatically operated inlet/outlet valves
- Process material: Getter
- Average power consumption: 2kW to 12kW
- Maximum pressure drop: 14psig = 1 bar
- Audible alarms
- Emergency stop

## Weld Argon System WASG- 5, 10, 20



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Japan, Singapore



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