Argon Management Systems

Inert manufactures a complete line of Argon Management Systems designed to integrate with various sized enclosures and processes. Our Gas Management Systems are the centerpiece of all our gloveboxes and enable our customers to achieve the <1 ppm O₂ and H₂O working environment they demand.

QUALITY YOU CAN COUNT ON.

Argon-1

**External Dimensions:**
660 mm W x 914 mm D x 813 mm H

**SR Models:** Large capacity solvent vapor removal system.
Contents: 7.5Kg activated carbon.

**RSR Models:** Regenerable Large capacity solvent vapor removal system.
Contents: 9.5Kg molecular sieve.

Argon-2

**External Dimensions:**
660 mm W x 914 mm D x 813 mm H

**SR Models:** Large capacity solvent vapor removal system.
Contents: 7.5Kg activated carbon.

**RSR Models:** Regenerable Large capacity solvent vapor removal system.
Contents: 9.5Kg molecular sieve.

Argon-10

**External Dimensions:**
1219 mm W x 1270 mm D x 1575 mm H

**SR Models:** Large capacity solvent vapor removal system.

**RSR Models:** Regenerable Large capacity solvent vapor removal system.

Argon-20

**External Dimensions:**
1854 mm W x 1270 mm D x 1575 mm H

**SR Models:** Large capacity solvent vapor removal system.

**RSR Models:** Regenerable Large capacity solvent vapor removal system.
OPTIONS

- 0-1000 ppm Zirconia oxygen analyzer (not for use with solvents)
- 0-1000 ppm electrochemical oxygen analyzer (solvent compatible)
- 0-25% zirconia oxygen analyzer
- 0-1000 ppm moisture analyzer
- 0-25% Helium in Argon analyzer
- Solvent sensor
- Heat exchanger located in the circulation loop. 1000 W cooling capacity with 18 lpm flow rate of cooling water
- Dry scroll pump
- Solvent removal system

SYSTEM APPLICATIONS

- Additive (3D) Manufacturing
- Aerospace
- Automotive
- Chemistry
- Lamp Manufacturing
- Lithium Ion Battery
- Medical Device
- Nuclear
- OLED
- Pharmaceutical
- Semiconductor
- Solar
- Specialty Chemical
- Thin Film
- Many other applications

SPECIFICATIONS

External surfaces: RAL 7035

Casters for mobility

<1 ppm O₂ and <1 ppm H₂O purity level

- When connected to a glovebox system that has a leak rate of <0.05 vol%/h
  
  **Argon-1 and -2 – All Permutations:**
  
  O₂ capacity = 43 L
  H₂O capacity = 1800 g

- **Argon-10 and -20:**
  
  O₂ capacity = 217 L per Purifier Column
  H₂O capacity = 9000 g per Purifier Column

Automated purifier column valves: Interlocked with the blower.

Blower will not run if the valves fail to open

Variable speed circulation blower:

- **Argon-1 and -2 – All Permutations:** 120 cfm max flow rate blower
- **Argon-10 and -20 – All Permutations:** 185 cfm max flow rate blower

Max flow rate through purifier column:

- **Argon-1 and -2 – All Permutations:** 60 cfm (101 m³/h)
- **Argon-10 and -20 – All Permutations:** (315 m³/h)

PLC control system

- 6” color touch screen

Trending Screen: Pressure, O₂ and H₂O Value is logged for 24 hours

Automatic pressure control: (+/- 15 mbar)

Manual pressure control: Footswitch

Fully automatic regeneration sequence

Purge valve: O₂ Level, Timer or manually controlled

Vacuum pump: 10 cfm (17 m³/h) rotary vane pump with oil mist eliminator & oil return kit

Integrated oxygen analyzer:

- Range 0-1000 ppm
- Zirconia sensor as standard or electrochemical sensor for solvent compatibility

Eco Mode Features

- Vacuum pump timer: Shuts pump off for energy reduction
- Automated Blower speed control: O₂ level adjusts blower speed