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Praxair argon and helium for the Endocare Cryocare® Surgical System™

Praxair is the approved provider of specialized cylinders of argon and helium for the Endocare Cryocare® Surgical System.™

Medical facilities worldwide use the Cryocare Surgical System to treat prostate, liver, and kidney cancer through cryoablation. Cryoablation is a minimally invasive surgical procedure in which extreme cold destroys targeted tissue within the human body.

Here's how it works

Argon flows through multiple slender cryoprobe inserted into the body. The gas expands inside the probe tip and creates an "iceball" that encircles the targeted tissue at temperatures cold enough to kill the targeted cells.



The argon is expelled through the back of the Cryocare System. Gas does not contact the patient directly and is not recirculated through the system.

Helium provides a warming "thaw" effect when it expands in the probe tips. This combination of freezing and thawing forms the essential elements of all Cryocare procedures.

At a glance

Praxair argon and helium for the Cryocare surgical system

Gas	Purity	Oxygen	Water	Pressure
Argon 4.8 <i>Part Number: AR 4.8ENDO-6K</i>	99.998%	< 5 ppm	< 5 ppm	6,000 psig
Helium 4.5 <i>Part Number: HE 4.5ENDO-K</i>	99.995%	< 5 ppm	< 5 ppm	2,640 psig



Praxair argon and helium for Endocare's Cryocare System are nontoxic, nonflammable, and inert. Material Safety Data Sheets (MSDSs) are available on www.praxair.com/msds listing gas, hazards, characteristics, and valve connection data.

Tips for proper cylinder handling

Gas cylinders should be placed against a wall in the operating room and chained into place for safety. Alternatively, cylinders can be kept in their dollies during use.

The line between the cylinders and the Cryocare unit is 25 feet long. Care should be taken to tape the line to the floor or place the line out of heavily trafficked areas. For more information on gas use in the operating room, contact your Praxair or Endocare representative.

Easy cylinder management throughout your facility

Praxair offers wall-mounted regulator stations complete with hoses, inlets, and outlets. The flexible hoses permit quick and easy connections to cylinders.

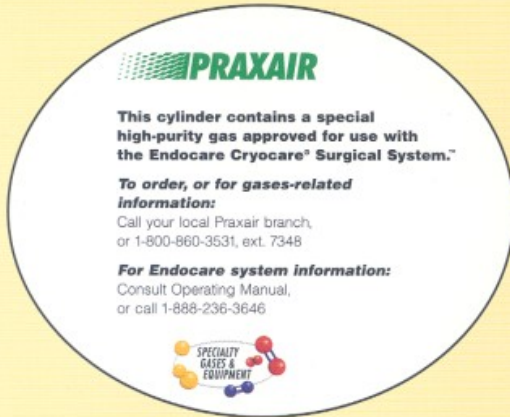
Rugged, maneuverable cylinder carts and stands make it easy to safely store and transport cylinders around your hospital or surgical center. Publications and training on procedures for cylinder storage, transport, and valve operation are available from Praxair.

Praxair's advanced cylinder management program allows more efficient and accurate tracking of cylinders, helping you lower costs and meet anticipated supply needs.

Cylinders for Cryocare gases

Argon is supplied in special 6000 psig cylinders measuring 61 inches high and 10 inches in diameter.

Starting pressure for argon should be at 6000 psig. Any discrepancy in delivered pressure should be reported to Praxair before use.

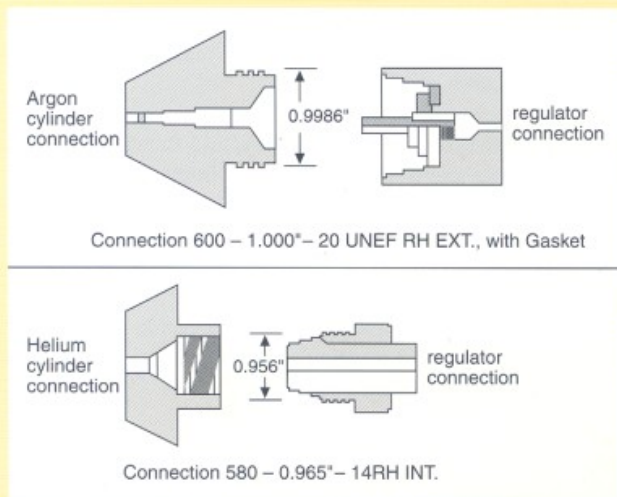


Cylinder labels may also be used to record pressures after each use. Argon cylinders are used to a pressure of 3000 psig and then replaced with a full cylinder. Helium cylinders are used to pressures down to 1,000 psig.



Praxair argon and helium cylinders for use with the Cryocare Surgical System are supplied with valves that meet ANSI/CSA/CGA Standard V-1.

For safety reasons, connections to the cylinder that do not fit must not be forced. Threads on regulator connections or other auxiliary equipment must match those on the container valve outlet.



Choosing your Cryocare system gases supplier

Praxair is Endocare's approved gases supplier. This ensures that the Cryocare System is operated with gases meeting Endocare's strict specifications. With annual sales of over \$5 billion and nearly a century of experience in the health-care market, Praxair is the largest industrial, medical and specialty gases company in North and South America. We have over 300 distribution locations across the United States and Canada.

We provide one-stop shopping for medical gases, equipment, and services such as high-purity oxygen, respiratory therapy gases, laboratory gases, regulators, flow meters, portable liquid oxygen containers, and magnetic resonance imaging cryogens. We also offer medical gas piping and vacuum systems and environmental testing. For the home care market, Praxair provides products and services including concentrators, compressed gas and liquid oxygen systems, and oxygen conserving devices.

To order, or for gases-related information, contact your local Praxair branch, or call 1-800-860-3531, ext. 7348, today. Or visit www.praxair.com/healthcare.

WARNING

Potential ASPHYXIATION HAZARD. Although argon and helium are non-toxic and non-reactive gases, they displace room air AND DO NOT CONTAIN OXYGEN. These gases are emitted at a rate of 20 cu ft/min. It is important that ADEQUATE VENTILATION be provided for their use.

To ensure you are providing a safe environment, the operating room ventilation must conform to US Dept. of Health and Human Services "Guideline for the Prevention of Surgical Site Infection - 1999," p. 260 and be of minimum size 3000 cu ft.

Read and understand product warning and safety data sheets before use.



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