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Matheson Tri-Gas Air Separation Plant

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Contact Details:

8200 Washington NE

Albuquerque

New Mexico

87113

United States of America

Tel: (505) 823-2606

Fax: (505) 857-9172

Email: celenbaas@matheson-trigas.com

In large industrial air separation plants atmospheric air is filtered, compressed, and cooled. The contaminants (primarily moisture, carbon dioxide and heavy hydrocarbons) are removed and are either frozen out in a reversing heat exchanger or absorbed by a molecular sieve. The air is then separated in a four column system. The columns are trayed distillation columns with vapor rising through holes in the trays as liquid travels across them, and then down to the next tray. As the vapor rises, it contains a higher percentage nitrogen, which is the lower boiling point constituent. As the liquid descends the column, it becomes richer in the higher boiling point constituents of air, oxygen and argon. The first column produces nearly pure (99.9999%) nitrogen vapor, and oxygen rich (40%) liquid. The second column produces nearly pure oxygen liquid at the bottom, and nearly pure nitrogen vapor at the top. A side stream which is rich in argon is removed from the second column. The sidestream is removed at a point where the vapor rising through the trays is about seven to fifteen percent argon, with the balance being oxygen. This stream is then distilled in a third column which produces a product stream which is about 98% argon and 2% oxygen. The remaining oxygen is removed in a catalytic oxidizer; then any trace amounts of nitrogen are removed in a fourth distillation column.

Press Releases on Matheson Tri-Gas Air Separation Plant:

[Bionorica Offers Expert Resources, Health Tips for 'Natural Moms'](#)

24th November,
2009

Bionorica

SAN CLEMENTE, Calif., Nov. 24 /PRNewswire/ -- Bionorica, an international company pioneering clinical research of natural remedies, announced today the availability of new educational resources for

Marianjoy Medical Group Physician Receives James Brady Award	24th November, 2009	Marianjoy Rehabilitation Hospital	WHEATON, Ill., Nov. 24 /PRNewswire-USNewswire/ -- Dr. Nelson Escobar, a physician with the Marianjoy Medical Group, has been named the recipient of the James Brady Award. The award was presented to
A Call to Copenhagen - Health Effects of Climate Change	24th November, 2009	National Institute of Environmental Health Sciences	Major Study Unveiled, Evaluates Strategies to Reduce Green House Gas Emissions What Members of the press are invited to the unveiling and policy discussion of a major international study on the Public
Huifeng Bio-Pharmaceutical Technology Reports 26% Quarterly Revenue Increase	24th November, 2009	Huifeng Bio-Pharmaceutical Technology, Inc.	XI'AN, China, Nov. 24 /PRNewswire-Asia/ -- Huifeng Bio-Pharmaceutical Technology, Inc. (OTC Bulletin Board: HFGB), a leading developer and producer of plant extracts and pharmaceutical raw
Hillenbrand Reports Earnings for Fourth Quarter and Fiscal Year 2009	24th November, 2009	Hillenbrand, Inc.	Hillenbrand, Inc. (Unaudited) (amounts in millions, except per share data) Fiscal year ending

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Why you should upgrade your BioPortfolio BioCorporate profile:

- the ability to amend and add information on products and services to your profile using a membership username and password
- the option to add a corporate logo
- the creation of high value URL links back to your organization's website which will improve search engine ranking - resulting in increased site traffic
- the option have your press releases published on BioPortfolio and distributed via our BioNewsCast service
- an enhanced BioCorporate profile will also improve your exposure on BioPortfolio's related service InDepth and GeneDB

The annual cost is \$995.00 for established organizations and \$495.00 for organizations less than 12 months old.

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Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

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