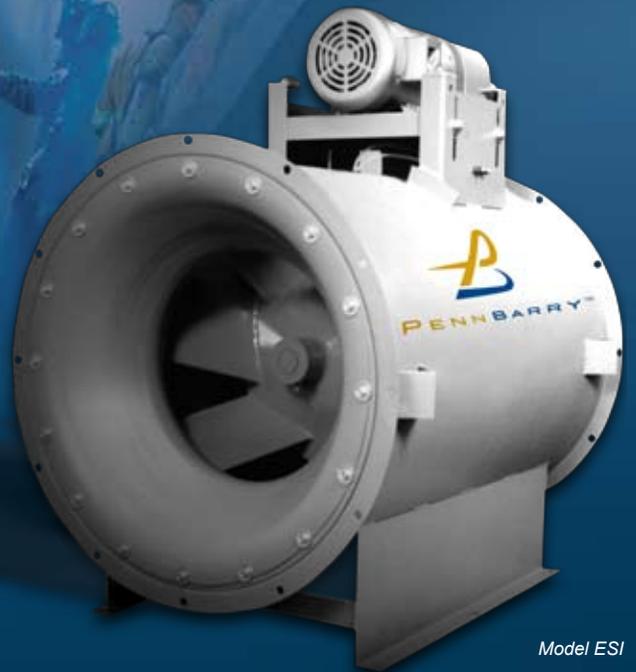




PENNBARRY™

## Company Overview

**PennBarry Profile & Case Studies**



*Moving Your Way*

*Model ESI*



**Moving Your Way**

## About PennBarry

PennBarry is proud to be your single source for commercial and industrial ventilation product solutions. From office buildings, manufacturing plants, and schools, to hospitals, hotels, and restaurants, PennBarry products can be found throughout the US and the world. You can rest assured that no matter the application, large or small, you can rely on high quality ventilation products and dependable customer service each time.

PennBarry has become very active with several leading organizations to not only improve our own products and processes, but to improve building ventilation equipment and help shape the industry. It is through this involvement that PennBarry continues to lead the industry with product development, LEAN manufacturing processes, and green building practices. From continued expansion of our Health, Safety, and Environmental (HSE) program, which focuses on reducing waste and energy usage at all of our plants, to our goal to have 4 LEED Accredited Professionals on staff by 2010, we believe through the commitment at every level that PennBarry will lead the industry into a new greener future.

For more information on how PennBarry products can assist you in your next ventilation application, talk to your knowledgeable PennBarry sales representative or simply visit our website to obtain technical product information, selection software, helpful tools, or other industry information.



### Energy Star Partnership

Energy Star aims to protect our environment and prevent climate change through sustainable energy design and help architects make informed decisions about energy efficiency during the design process.

PennBarry is the first commercial and industrial fan manufacturer that has been accepted as an Energy Star Service & Product Provider Partner. This relationship allows PennBarry to help the industry understand the value of improved energy performance, as fans use a significant amount of energy in commercial buildings. As a fan manufacturer, it is our responsibility to provide energy savings solutions to the market.

Capitalizing on knowledge of the HVAC industry, LEAN manufacturing, and product value analysis, PennBarry will continue to lead the industry in improving the efficiency of fan systems in new and existing buildings.



### USGBC Membership

The U.S. Green Building Council (USGBC) is a non-profit organization composed of leaders from every sector of the building industry working to promote buildings that are environmentally responsible, profitable and healthy places to live and work.

Fans in the HVAC system are key components of most mechanical systems and use a great amount of energy. PennBarry is committed to help the industry improve the efficiency of fans and reduce their energy consumption in buildings to achieve net-zero by 2030.

As a member company, PennBarry will be able to serve on a LEED or USGBC committee and help shape the future of LEED and green building. Company members also vote for the Board of Directors and participate in ballots of the LEED Rating System.



### ISO 9001:2000 Certified

PennBarry is proud to be ISO-9001:2000 Certified. ISO (International Organization for Standardization) is the world's largest developer of standards, incorporating a network of national standards institutes in 146 countries. These standards contribute to making the development, manufacturing and supply of products and services cleaner, safer and more efficient.

To ensure compliance to the ISO 9001:2000 quality assurance standards, PennBarry is externally audited every six months on the implementation of procedural changes, training, documentation, and adjustments to operating systems on every level of the manufacturing process.

ISO registration supports the PennBarry pursuit of continuous improvement and an on-going commitment to provide our customers assurance of product quality. Our success in achieving this goal is due to the tremendous dedication and teamwork of our employees.



"We believe in customer satisfaction throughout the process. It's not only about providing great selection software, constantly maintaining high quality products, or meeting jobsite deadlines; it's the relationship and trust built over time that keeps PennBarry customers returning again and again. "

### **ESI Installation: Burj Tower**

The Burj Tower located in Dubai is now the tallest building in the world, standing at 818m, it holds an unprecedented 162 floors. With a price of \$800M, the project began in September of 2004 and is scheduled for completion in December of 2009. It contains many corporate and residential suites, fine dining restaurants, pools, fitness areas, retail shops, and one of the first Armani Hotels among other things.

Everyone involved, including developer, Emaar Properties, and consultant, Skidmore, Owings, & Merrill, shared the same vision, using "a simple principle, but one that is extremely difficult to achieve: to set a new world standard for quality. It requires attention to every detail – both the ones that people encounter daily and the ones that few will ever see."

With such a momentous structure and a need for high-quality ventilation products, they turned to PennBarry to provide the ventilation solution. The system requirements ranged from general ventilation to emergency smoke evacuation. PennBarry's broad product line matched the needs. The ESI, mixed flow fan served a dual purpose for daily ventilation and the need for life safety high temperature smoke evacuation. Several additional products, such as our VCR, centrifugal blower and VXB, vane axial fans were specified for stairwell pressurization and other miscellaneous ventilation needs.

### **ESI Installation : Dubai International Airport**

Dubai International Airport serves Dubai, the largest city of the United Arab Emirates. It is a major aviation hub in the Middle East, and is the main airport in Dubai. In 2008, the airport handled over 34% of all flights entering and leaving the Middle East and Africa. There are about 5,100 weekly flights operated by 140 airlines to over 260 destinations in North America, Europe, South America, East Asia, Southwest Asia, South Asia, Australia, and Africa. What is more astounding is that they handled a record 37,441,440 passengers, which made them the 21st busiest airport in the world.

The expansion of Terminal 3, totalling 16.1 million square feet, cost approximately \$1.5 billion (US). It features 82 moving walkways, 97 escalators, 8 skytrains, 157 lifts, 2 top-rated hotels, several first-class and business lounges in addition to an array of shopping areas. It opened on October 14, 2008 and is expected to be fully complete with Concourse 3 by year 2011, which will handle an additional 60 million passengers.

PennBarry belt drive ESI, mixed flow units and VCR, centrifugal blower products were installed in areas with high air volume and smoke control requirements. In the major corridors, approximately 200 VXD fans were required to meet stringent local codes of 300°C for 2 hours, for high temperature emergency exhaust to evacuate smoke and heat in a fire emergency. To meet the project's space limitations, many of the units included custom-designed hanging brackets that allowed for precise vertical installation.

### **A PennBarry Solution Built for You**

The world renowned Burj Tower and Dubai International Airport projects were both high profile settings for PennBarry fan solutions. Each project had special requirements that made them unique applications for PennBarry products. We look forward to meeting your next application need for high-quality ventilation equipment.



## Other PennBarry Product Solutions:



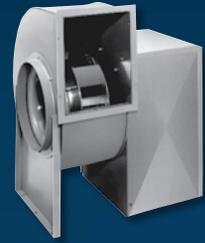
Domex  
Centrifugal Roof Exhausters



Fumex  
Centrifugal Roof Exhausters



Zephyr  
Ceiling & Inline Fans



Dynamo  
Centrifugal Blowers



Centrex Inliner  
Centrifugal Inline Fan



LC Dynafan  
Low Contour Centrifugal  
Roof Exhausters



ESI  
Efficient Silent Inline Fan



Fume Exhaust  
Curb Mounted  
Centrifugal Fans



Breezeway  
Propeller Wall Fan



Hi-Ex  
Power Roof Ventilator



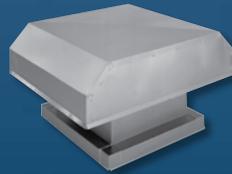
Tubeaxial  
Inline Fans



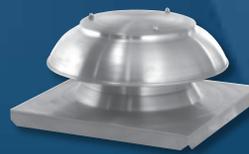
Vaneaxial  
Inline Fans



Powered Aurette  
Axial Roof Ventilators



Aurette  
Gravity Intake / Relief Hood



Domex Axial  
Axial Roof Ventilators



Axcentrix  
Bifurcator Fans



PENNBARRY™

PennBarry is proud to be your preferred manufacturer of commercial and industrial fans and blowers. To learn more about how PennBarry products can assist you in your next application, simply contact your nearest PennBarry representative or visit us on the web at [www.pennbarry.com](http://www.pennbarry.com).

PennBarry | Manufacturer of Ventilation Products | [www.pennbarry.com](http://www.pennbarry.com)  
1401 N. Plano Rd.; Richardson, TX 75081 :: Tel: 972.234.3202 :: Fax: 972.497.0468 :: [pennbarrysales@pennbarry.com](mailto:pennbarrysales@pennbarry.com)