Metropolitan Industries, Inc.
37 Forestwood Drive
Romeoville, IL 60446

Metropolitan Announces Green Initiative

Metropolitan Industries, Inc., a large supplier of residential pump and control products officially announced their commitment to the design and distribution of energy-efficient green products during a release of their 2008 product offering.

The initiative directed by Metropolitan President John Kochan, Jr. will focus on green marketing of two residential backup systems known as SUMPRO and StormPro that use energy efficient AC pumps that draw fewer amps than any other pumps on the market.

According to David Miller, national wholesale manager, Metropolitan's 3/4 HP StormPro Pump draws 7.5 amps which is less than most 1/3 HP pumps but moves over twice as much water. These pumps are packaged with Metropolitan's AC driven battery backup systems known as the Sumpro Series and StormPro series due to their efficiency and they provide much more capacity and reliability than the typical DC systems.

Utilizing an AC driven battery backup system is beneficial to people who have heavy water intake or live in larger homes where typical DC backup systems are not capable of handling the pumping volume and prove unreliable.

"Gallon for gallon, our AC driven backup systems out-perform any DC system on the market. Because they pump more they run less which increases the runtime during battery backup mode." Miller said.

The Sumpro Gold and Platinum series uses the 3/4HP pump at 7.5 amps and the StormPro and StormPro Deluxe use the extremely efficient 1/3HP pump at 4.5 amps that moves more water than most 1/2HP pumps. Depending on the package, one or two pumps are included. The dual pump packages like the Sumpro Platinum and the StormPro Deluxe system connect to an alternator that will switch to the other pump in case of failure and provides equal wear and exercise for both pumps. The alternator called the PumpGuard Plus is sold separately and can be used with any type of automatic 115V pump under 15 amps.

You can find more information about the products on www.sumpro.com by calling David Miller at 815-886-9200 or write in 107 on service card for more information.

Write In 107

When Flooding Is Not An Option

ENERGY EFFICIENT GREEN PRODUCT

5000 GPH at 10'

SUMPRO PLATINUM

- Back-up unit runs on either AC or DC power
- Works as both a primary and battery back-up system
- Comes complete with two heavy-duty 3/4HP 115V sump pumps
- Alternator will override to the other pump in case of a failure
- Built-in alarm and indicator lights for added protection
- Uses maintenance-free AGM batteries
- UL/CSA listing ensure reliability

3000 GPH at 10'

StormPro™

- Back-up unit runs on either AC or DC power
- Comes complete with heavy-duty 1/3HP AC 115V StormPro sump pump
- Can be installed as a back-up or primary pump
- Fully adjustable vertical float switch
- UL/CSA Listing Ensure Reliability

2100 GPH at 10'

StormPro™ Heavy Duty 12V DC Pump 2100-DC

- High Quality DC pump capable of pumping up to 35 gallons a minute at 10 ft.
- Heavy Duty adjustable vertical float switch for maximum reliability
- High output 8amp charger unit with 5 charging stages
- Safe for use with AGM maintenance free batteries
- Built in audible alarm and indicator lights for added protection
- Pump base keeps the pump off the bottom of the basin to avoid clogging from debris
- UL listings ensure reliability

Write In 108

THE PUMPING WORLD'S ONE STOP SHOP!™

Metropolitan Industries, Inc.

CURRENTS

SPRING 2008

50 Years and Counting

Over the last 50 years, Metropolitan Industries' ability to expand quickly into new markets sometimes leaves their customer base surprised and unaware of all of the products they engineer and manufacture. For instance, some customers may not know about their customized booster systems for high-rise buildings or are unaware that they market their own line of residential flood control products and battery back-up systems or never heard that they formally announced the creation of an HVAC department in fall 2007 and so on. Given the passing of their 50th year in business, we thought it would be timely to look back over 50 years and explain exactly what they do.

Founded in 1957 by the late Marty Martinson, Metropolitan Pump started out as a residential pump representative out of a tiny office in Western Springs, IL. Martinson later hired present Chairman John Kochan Sr., and the company evolved into a one-stop shop for pumps, controls and ancillary equipment serving residential, commercial, municipal and industrial markets. Metropolitan employs around 130 people, operates nine different divisions, holds 16 patents and plans to relocate to a new 150,000 sq. ft. building to keep pace with future growth in 2009/2010.

Municipal Sales

Metropolitan's Municipal Sales Department delivers pumping solutions inherent to municipal water pumping installations dealing with raw water supply and treatment, water distribution and wastewater collection. This department works closely with Mayors, City Managers, Engineers and Public Works officials offering them single source pump and control solutions.

On the water side of the business, such systems include housed booster systems, water treatment systems, Supervisory, Control & Data Acquisition systems (SCADA), valve and control stations, pressure reducing valve vaults and large pump stations. Wastewater equipment includes prefabricated lift stations, wastewater treatment plants, pumping control stations, seal water systems and non-potable water systems.

Wholesale Sales

The wholesale side of Metropolitan's business specializes in the sale of residential domestic sump and sewage pumps, controls, basins and battery back-up systems. Metropolitan serves as a

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Write In 100

Plus...

...Treatment Plant Poses Design Challenge
...Green Product Line Introduced
...Metropolitan Acquires Viessmann Catalog

Backed Into A Corner

Wastewater Treatment System Poses Design Challenge

Write In 101

When the Northern Illinois University's satellite campus located in Oregon, Ill., needed to replace an outdated and deteriorating wastewater treatment facility, their equipment options were limited given the location of the treatment site, the importance of aesthetics, and not polluting the pristine landscape with unnecessary noise and clutter.

NIU's Lorado Taft Field Campus is located one and one-half miles north of Oregon, Ill., on a wooded bluff overlooking the Rock River and adjacent to Lowden State Park. The field campus is known for its heavily wooded areas, rustic facilities and ravines that serve as the university's outdoor education, conference and retreat center.

The existing wastewater treatment system was in dire need of replacement. The system had deteriorated mechanically and structurally over its more than three decades of service. During low flows, the open-air system would collect branches or leaves and freeze in the winter months leaving it inoperable. In the summer months, snakes and animals would disrupt operations adding to the headache. Most of all, it was noisy, an eyesore and a potential safety hazard for the thousands of children, NIU students and professionals that would come to the campus for various educational retreats and seminars.

Licensed Wastewater Treatment Operator Tom Glendenning has operated the aging treatment system for the last twenty years. "Eventually the system fell out of compliance with Environmental Protection Agency's strict protocols. Everybody knew the system needed to go but getting the budget for the replacement was an issue," The veteran operator said. "It took many years to budget enough money to purchase a new treatment system. All the money had to come strictly from revenues generated by the campus," he added.

Once the funds were in place to purchase new equipment, the question of what to purchase was the next hurdle because the location's terrain is situated in a heavily wooded area, the size of only half a football field that overlooks a formidable bluff. With little space to work with, a prefabricated solution was critical. Also, given the way sound bounces of trees in a wooded area, noise reduction was crucial to maintain the location's tranquil existence.

"The terrain dictated the direction and technology we used. We were limited as to what we could purchase," said Glendenning.

Working with Engineer Gene Stoll, President of Arc Design Resources, Inc. in Rockford, Ill., Metropolitan Industries, Inc. of Romeoville, Ill., supplied a prefabricated, activated sludge wastewater treatment system designed to treat a total of 14,000 gallons per day. The compact design of the entire system only measured roughly 43' long by 10' wide by 10' to 19' deep and fit comfortably within the limited space available.

Metropolitan Adds New Distributor

We want to welcome McCook Sales Company to the Metropolitan team as a Commercial Distributor/Representative. McCook Sales is located at 4973 Old Ranch Road, La Verne, CA, 91750. Their expert sales staff can be reached at (909) 593-7452. Territories covered by McCook include southern California and southern Nevada including the Los Angeles and Las Vegas metropolitan areas. As of January 1, 2008 McCook Sales will be serving the entire commercial marketplace. Typical users include hospitals, hotels, motels, condominiums, apartments and office buildings.

With the addition of McCook Sales Company to the distributor list, Metropolitan Industries, Inc. now has 17 representatives covering 33 states nationwide. For more information, contact Mike Tierney, National Sales Manager at 815-886-9200 or write in 104 on service card for more information.

Write In 104

Metropolitan Adds Viessmann To Product Catalog

Metropolitan Industries, Inc. is pleased to announce the addition of Viessmann Boilers and Solar powered products to their HVAC catalog building on the addition of the Grundfos/PACO HVAC pump line added last year.

Viessmann manufactures a comprehensive range of advanced heating products in 10 production locations worldwide including solar operated products. The Viessmann product line is comprised of oil and gas fired hot water heating boilers rated from 4 to 150,000 kW, including a closed range of gas-fired condensing boilers rated from 4 to 6,600 kW, a complete program of gas-fired wall-mounted heating and condensing boilers, as well as wall-mounted oil-fired condensing technology. Annual sales are in excess of 2 billion (US$) and they employ over 7,500 people.

With the addition of Viessmann heating products and the acquisition of Grundfos/Paco HVAC pump line, Metropolitan can now offer a competitive HVAC package unmatched by any competitors. The availability of Viessmann solar heating products will add a niche unseen in Illinois and promote green applications.

"We are very excited about the addition of Viessmann to the HVAC product catalog and expect to be very competitive in the HVAC market," said Metropolitan President John Kochan, Jr.

For more information about Metropolitan's HVAC products call Rob Brennan at 815-886-9200 or write in 105 on service card for more information.

Write In 105

Metropolitan provides "All Access" during introduction of new product

Metropolitan Industries, Inc. recently introduced the CV Pac "All Access" which is an economical, high-quality solution for sewage and storm water lift stations that provides complete access to all working parts.

The Metro-CV Pac "All Access" distinguishes itself by featuring insulated, removable panels and removable, double doors with lift-off hinges on both sides, allowing easy access in the field. The Metro CV Pac AA can be stripped opened, down to its base, allowing installers and maintenance personnel unhindered access to the station's valves and control panels.

Another unique feature of the CV Pac "All Access" is fully adjustable piping that aids in installation. Piping can be easily adjusted a minimum of one inch in any direction to assure perfect alignment with field piping.

Piping is made of high-quality 304 stainless steel and comes with plug valves for pump isolation and maintenance, adapter flanges for easy field connection and swing check valves with outside levers.

Standard features include R-7 encapsulated insulation, a heater with thermostatic control, a complete patented level control package, and an epoxy-coated galvanized steel base.

The CV Pac AA comes available with many options such as discharge and suction by-passes, a hatch for easy wet well access, a SUMPRO battery back-up supply for the heater, and a stainless steel base.

The system comes pre-piped and wired, ready for immediate installation. Contact us today or write in 102 on service card for more information.

Write In 102

50 Years and Counting

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time and money into seminars that educate industry leaders in various areas of pump maintenance, control troubleshooting and technology advances. Many of the seminars that Metropolitan offers are certified through the Environmental Protection Agency so attendees can receive "continuing education" credit as mandated by the ILEPA. Other seminars Metropolitan offers are certified through the Illinois Department of Public Health so that licensed plumbers may satisfy their educational requirements. As for Engineers, Metropolitan has many classes worthy of Professional Development Hours so that they can keep up on their mandated education requirements as well.

To streamline the registration process, Metropolitan developed three websites that allow users to view schedules, syllabi and register online. Anybody registering a group of ten or more has the ability to choose the class topic from our list of over 13 and pick the day and time that best suits the group. The best part of the education process is there are never fees associated with this service and lunch is catered. Engineers can log onto www.pdhcredit.com, Water/Wastewater operators from Illinois log onto www.ilceu.com and Water/Wastewater operators from Indiana log onto www.indceu.com.

Future

As for the future, Metropolitan Industries, Inc., remains committed to customer service, innovation and quality products designed to advance the industry. Furthermore, they look forward to being a partner during the design, manufacturing and installation of your next pump system.

Write In 100

Scrambling for Education Credits?

Register for CEU and PDH classes online 24/7

Introducing the simplest and fastest way to satisfy your CEU and PDH requirements ....without incurring any costs!! Log on today to any website below to view real time class information, register for upcoming classes, request a seminar and more.... Sign up ten or more people and qualify for a special presentation at our facility or yours. No fees ever and lunch is served.

Engineers: www.pdhcredit.com

Illinois Operators: www.ilceu.com

Indiana Operators: www.indceu.com

For more information, contact Joe Sanchez at 815-886-9200

Write In 103

Metropolitan Industries was brought in early during the design phase and suggested that a factory-prefabricated system manufactured by Ashbrook Simon-Hartley of Houston, TX would meet the space requirements of the confined area and would be aesthetically pleasing given its small footprint and is easily installed given the packaged design.

In order to meet the low-noise requirements, Metropolitan suggested housing the open-air system, which would eliminate freezing in the winter months and would maximize noise reduction.

Housing the treatment plant involved fabrication of a steel channel, framed base set on top of the treatment plant installed below ground. The framed base supports the modular building assembled in the field piece by piece. After assembly, installation of various electrical equipment such as lighting, an alarm dialer, heater, smoke detector and fans was completed.

The treatment system consists of five separate chambers consisting in order of, two sludge-holding chambers, two aeration chambers and a clarifier chamber. A bar screen is situated at the influent port that removes any unusually large solids from the incoming raw sewage. The sludge-holding chamber consists of two aerated aerobic digester chambers able to hold 2,000 gallons of sludge each. The two aeration chambers work in conjunction with the clarifier chamber to process the wastewater through the various stages. From there, the processed fluid goes through a packaged tertiary filter and then gets filtered and disinfected in the final chamber and moves into the clearwell. The result is that the final effluent is within compliance per the Illinois EPA's latest standards and discharged to the small creek tributary to the Rock River.

The new system is installed and operational. The goals of maximizing the small area of space to work with, limiting the amount of noise pollution by housing the system and keeping the entire worksite aesthetically pleasing were met. For more information about the project contact Steve Moak at 815-886-9200.

50 Years and Counting

Continued from page 1

manufacturer's representative offering such brands as Hydromatic Pumps, Grundfos Pumps, Topp Basins and Myers Pumps.

Battery Back Up Systems are paramount to this industry and Metropolitan serves as a leader with their popular SUMPRO system. The SUMPRO, brainchild of Metropolitan President John Kochan, Jr., is one of the best back up systems on the market in terms of reliability and is sold through a network of distributors across various states. Since the inception of the SUMRPO over a decade ago, Metropolitan has expanded their back-up line to include the StormPro system, which serves as a less expensive alternative to the SUMPRO but with the same quality engineering and reliability users have come to expect.

Commercial Sales

Metropolitan's Commercial Sales department serves applications related to high-rise buildings, stadiums, museums, hospitals and universities. This department is known for pumping water in some of the most famous landmarks in Chicago such as Soldier Field, The United Center, The John Hancock Building and The Field Museum.

The bread and butter of this department are the skid-mounted, variable speed, prefabricated water booster systems. These systems pressurize water in the building so the tenant living on the top floor has just as much pressure as the tenant on the bottom floor. Other products sold by this department include self-priming sump and sewage ejector pumps, control packages and other related accessories.

National Sales

National Sales sells their products through a network of distributors nation-wide. Products offered nationally include Housed and Skid-Mounted Booster Systems, Protected Water Systems, Seal Water Systems, Commercial Sump and Sewage Packages, Prefabricated Submersible and Self Priming Lift Stations, Custom Control Packages, Lift Station Valve and Control packages and generators.

Control Integration

In order to be more competitive in the marketplace, Metropolitan established a controls division in the late 1980s to allow them to keep pace with the rapid growth of pumps and systems technology. Having a control division allows Metropolitan to offer "the whole package" in terms of delivering a complete system and allows for "single source responsibility" putting us entirely responsible for system performance.

Metropolitan's control division includes a panel shop that manufactures panels under various UL Listings allowing them to meet the needs of individual end-users. Energy efficiency and performance are two words paramount to this division. A system from Metropolitan delivers savings on your energy bills while offering peak performance during the highest demands.

A Supervisory Control and Data Acquisition system (SCADA) is a specialty of Metropolitan's control division. SCADA systems allow municipal water operators to integrate their entire water system infrastructure into a network that allows quick communication access to system information, status, control, alarms, etc. The ability to monitor vital pumping equipment from anywhere via an internet connection, puts the operator at an advantage.

HVAC

With the addition of PACO Pumps late last year, Metropolitan Industries recently announced the creation of a new HVAC division.

This department specializes in Primary and Secondary Chilled Water Systems, Boiler Feed and Condensate Return Systems, Condenser Water Pumps, Cooling Tower Pumps and Heating Circulation systems. Metropolitan celebrated the launch of the department back in September 2007, with a formal dinner reception for engineers held at the Sears Tower.

Drawing on the experience of operating and maintaining O'Hare Airport's HVAC system and other HVAC systems they designed and fabricated over the years, Metropolitan hopes to become the standard supplier for all HVAC systems in the City of Chicago.

There are many moving parts associated with Metropolitan that allows them to stay ahead of the technology curve and offer niche products and innovative designs to their customers. However, what goes on behind the scenes is not always apparent to their customers due to the sheer size of Metropolitan's operation. This section will take an inside look at day to day operations at Metropolitan in an effort to provide a "big picture" to customers who may or may not be aware of all that Metropolitan has to offer.

Research and Development

This is an area where Metropolitan surpasses many large corporate pump companies. Success in this area is due to their management style, ability to think outside the box and the allocation of personnel and resources to the endeavor.

Metropolitan has a down/up management style that allows its employees the ability to swim in a sea of creativity. This creative freedom motivates employees to dream big, and leaves them unafraid to suggest a concept. This "hands off approach" works for Metropolitan mostly because employees know if they have a good idea, they will have the support of management. In fact, Metropolitan has four dedicated research and development employees strictly dedicated to innovation, which is more than most large corporations. During the last ten years, research and development has been responsible for acquiring over 16 patents for such things as variable speed operation, processor based pump control systems, DC pump control systems operation, flow calculations and more. This translates into better products for end-users.

Engineering

Metropolitan's engineering department is an important aspect of behind the scene, day-to-day operations at the company. This department serves a crucial role during system design and modeling, production and testing. Metropolitan's Engineering Department also offers design assistance to customers, contractors, and engineers for green water systems, booster pump systems, control systems, water and wastewater treatment plants and seal water systems. Also, systems can be designed to UL and other third party standards.

Our experienced engineering staff considers important factors such as motor protection, variable speed control, wet well level control monitoring and control systems. Evaluations of physical, mechanical, electrical and environmental parameters are conducted prior to selection, procurement and installation of OEM equipment and components comprising the system.

"We've learned that each installation has a unique set of challenges that must be met," says Paul Larson, Metropolitan's Chief Mechanical Engineer. "We start by thoroughly understanding each system's initial performance parameters, as well as any long-term requirements that address future growth and design a system that meets the application's needs," he says.

Education

There is a belief at Metropolitan that, "An educated consumer is an empowered consumer." Management's belief in this philosophy is evident by Metropolitan's proactive effort of investing

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Write In 100