



# The WESCO RUNNER



Third Quarter, 2007

## Arc Resistant Motor Control Centre

Eaton has designed and developed the industry's first ever Arc Flash Resistant Low Voltage Motor Control Centre (MCC). FlashGuard™ addresses the dangers associated with an arc flash event and is the first in the industry to offer features to help prevent injury from electric shock, arc-flash burn, and arc-blast impacts. FlashGuard focuses on four important factors: prevention, reduction of the time-available fault current, removing voltages dangerous to life from the unit, and maintaining the unit door closed during testing and troubleshooting.

Maintaining a closed-door unit is instrumental in mitigating an arc event. FlashGuard offers disconnect units from the vertical bus with the door closed and an optional remote operated racking device so an operator may advance and retract the stabs from a distance of up to 25 feet. For additional protection, FlashGuard also includes an unrestrictive racking mechanism that prevents over torquing, and an interlock that prevents removal of the buckets while the stabs are engaged on the vertical bus.

The three-position retractable stabs can be set in a "Connect", "Test", and "Disconnect" position. It offers an electronic-protected, fuseless, 24 volts DC control and an internal unit shutter to isolate from the vertical bus while in the "Test" position. When in "Test", only finger-safe 24 volts DC are released, and in the "Disconnect" position, no voltage is present at all.

In order to increase prevention, FlashGuard offers an insulated horizontal bus, an insulated

labyrinth vertical bus, shutters to isolate the vertical bus when a unit is removed, and finger-safe components inside the units.

To reduce the time-available fault current FlashGuard is offering an ARC Reduction Maintenance System (ARMS), applied to the breaker feeding the MCC to reduce trip time during an arc flash.



### FlashGuard™ - The industries first MCC to address Arc Flash.

These features will allow for safe access into the unit without exposure to the main bus voltage and will serve to reduce the personal protective equipment required to complete routine maintenance. They will also protect the operator from other hazards that can occur during an arc-flash event such as arc-flash impacts and falls.

Eaton's Cutler-Hammer® brand FlashGuard MCC is manufactured in Airdrie, Alberta and is now available through Wesco.

**EATON**

**Electrical**

## WESCO Publications

The Runner is a product newsletter distributed to WESCO industrially focused customers in Canada. Our goal is to feature leading electrical products that help you meet your operating goals. We feature four to five products per issue from various WESCO manufacturers and focus on control, automation, energy management, industrial ethernet and safety issues.

The Relay makes the connection from the manufacturer, through WESCO, to you. It is a Runner, except with a more in depth look into products and solutions from one of our leading manufacturers.

Our Hot Products publication focuses on providing construction and service contractors with valuable information about the latest products from WESCO. Each issue focuses on an assortment of feature rich products that help you solve problems and work smarter.

## WESCO Runner Contacts

**Editorial**  
rpartington@wesco.com

**Creative/Circulation**  
awilson@wesco.com

**For further information about WESCO Distribution visit:**  
www.wesco.ca

# Help for Your Store Room

Just like the mess in your basement that you stop seeing after a while, store rooms can gradually become a nagging point for lost productivity, inactive inventory and shop-floor frustration. Sometimes what you need is a new way of looking at the old problem, a new tool that refreshes your thinking about how to restore order to the confusion. At Wesco we have some ideas to consider.

## e-stock web based storeroom

e-Stock is a web-based storeroom inventory management system that uses a hand held bar-code scanner to scan storeroom bins for re-order. Docking the scanner to an internet connected PC allows the user to quickly and efficiently replenish storeroom or production inventory. Orders produced are routed via the web and then integrated directly into WESCO's branch system.



e-stock is highly cost effective, easy to set up, stand-alone solution. It is well suited to situations where you need to get control of frequent stock-outs or where you have multiple free issue or floor stock areas that are hard to control. Wesco in Canada have applied it in a wide range of environments. Outside of the traditional automated store-room we have used it to capture job costing data at an OEM, to integrate with an Ariba ERP system or to manage a segregated inventory dedicated to an on-site project. A WESCO application specialist can discuss your supply chain challenge to determine if e-stock is a practical solution within your operation.

## Vending Machines, a point-of-use disbursement system

A vending machine is an automated access control system that tackles the common store room challenges of control, accountability and tracking. It can also provide users with nearby access and inventory visibility resulting in a big pay-off in labour productivity as travel and wait times are substantially reduced.

Typical benefits of a point of use dispensing implementation are reduced indirect material consumption and reduced on-hand inventory as a result of better control and accountability and the elimination of employee stashes. Reduced consumption of items such as batteries and gloves is often a very significant pay-off. Procurement costs benefit from a system that fully automates and web-enables reordering and reporting utilizing an application service provider. Automated disbursements can make material available without the need for a storeroom attendant on the second or third shift. Line side vending machines can significantly reduce travel and wait times and will boost labour productivity.

WESCO distributes and supports the Supply Pro point of use system which offers a family of flexible solutions to address your specific plant challenges.

Some common applications are for automating accurate job costing, tracking expensive testers and instruments, control of critical spares and access control for keys, scanners, two-way radios etc.

WESCO in Canada is well experienced and equipped to support your store room clean-up aspirations. Call your local WESCO branch.



# The new standard in "green" lighting

Public attention has shifted over the past few years to an increasing focus on the environment and sustainability. Companies have met this awareness by trying to be more eco-friendly, both in the products they sell and their daily operations. Often though, products which are better for the environment can compromise performance. Philips has always believed that a product can be good for the environment and provide the same, or superior performance. This belief led to one of the industry's most innovative technologies. In 1995, Philips transformed the market by launching a line of linear fluorescent lamps featuring ALTO® Lamp Technology. Not limited to fluorescent lamps, this technology led to some of the lowest mercury lamps in the industry. ALTO Lamp Technology became widely recognized as a leading low-mercury solution for lighting.

## Now, 12 years later, Philips is setting a new standard again with new ALTO II™ Technology.

ALTO II fluorescent lamps have 50% less mercury than the original ALTO, making them the most sustainable linear fluorescence available. Best of all, these lamps offer the same superior performance levels as before. That means you don't have to sacrifice lamp life, light quality, or energy to help your company be more sustainable.

## There are many benefits to using Philips fluorescent lamps featuring ALTO II™ Technology

Your company can help the environment, without sacrificing performance.

The Philips T8 portfolio offers the lowest mercury and the longest life in the industry, making it the most sustainable line of T8s available. The

portfolio also includes a full lineup of energy efficient lamps with the 25, 28 and 30W Energy Advantage T8's.

Purchasing the longest life T8s mean you are reducing maintenance costs by extending the relamping cycle. The Philips T8 portfolio includes Extra Long Life lamp options featuring an unprecedented 40,000 rated average life at 12 hours per start on instant start ballasts<sup>1</sup>. These Extra Long Life lamps are available in four colour temperatures and in two wattages: 32W and 25W.

Purchasing fluorescent lamps mean you're using one of the most energy efficient lamps available. You can save money by refitting older T12 lighting systems with new high performance T8 lamps and electronic ballasts. T8 lamps also offer improved life, quality of light and colour rendering. You can also save by refitting T8s with Energy Advantage T8 lamps— without changing a ballast.

## You also benefit from outstanding light output

Philips T8s have Hi-Vision® phosphor which delivers at least 95% lumen maintenance and reduced lamp-end blackening. Philips Advantage (32W) and Energy Advantage (25W, 28W and 30W) lamps offer industry leading 97% lumen maintenance.

Adding it up, Phillips ALTO II Lamp technology gives you everything you need in lamp performance and gives the environment the lowest footprint currently achievable. Talk to WESCO about how you can help the environment without giving up performance requirements.

1. Average life under engineering data with lamps turned off and restarted once every 12 operating hours.

# PHILIPS



	Philips Alto™ II Technology	Lowest Mercury Level for a Competitor
T8 700 Series	1.7 mg	6.0 mg
T8 800 Series	1.7 mg	3.5 mg
PLUS T8 700 Series	1.7 mg	6.0 mg
PLUS T8 800 Series	1.7 mg	3.5 mg
Energy Advantage T8	1.7 mg	3.5 mg
Advantage T8	1.7 mg	3.5 mg
T8 Extra Long Life	1.7 mg	NA
Energy Advantage T8 Extra Long Life	1.7 mg	NA

Lowest competitor levels published as of April 2007.

## PHILIPS

Alto II™ TECHNOLOGY

ALTO II™ TECHNOLOGY

# Pipe Freeze Protection from 3M

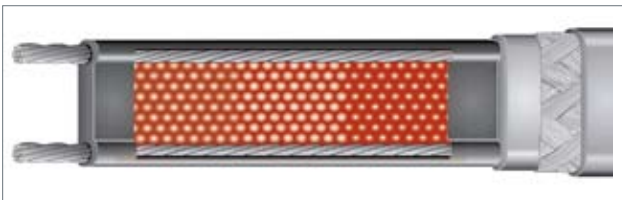
Freezing Pipes, a winter aggravation and a maintenance headache or a serious threat to your operation? You know how important it is to maintain flow in process and utility piping systems so when the chill comes, be ready with the self regulating pipe freeze protection solution from 3M. It's the one to count on for system flexibility, ease of installation, and no hassle maintenance.

The Heat Tracing Cable consists of a conductive-polymer heating matrix extruded between two parallel copper bus conductors. Heat is generated in the conductive polymer matrix when energized. At low temperatures the electrical paths in the carbon-polymer heating matrix become shorter decreasing the resistance. This causes more electricity to flow and a consequent increase in heat output of the cable. At higher temperatures the matrix expands, resistance increases and less heat is generated. This is a self-regulating effect.

Because of the self regulation there are advantages on installation. At any point cables can be cut. They can be looped around valves and overlapped with no concern for overheating. They are simple and safe to handle, splice and install. You can count on 3M for design assistance with your specific application. They also support and supply all the required controls and installation accessories.



Common applications are freeze protection and low temperature maintenance in metallic and non-metallic piping systems and equipment such as, sewage pipes, drain pipes, water pipes and sprinkler systems.



Self-regulating Heat Tracing Cables adjust their output to the surrounding temperature down the cable length. This adaptability to individual thermal conditions provides more heat when and where needed. Energy consumption is also managed by the self regulating nature so as the ambient temperature increases, heating costs are reduced.

3M markets TTS self regulating Heat Trace Cable in Canada under an exclusive agreement with Thermon Manufacturing Limited. Contact your local WESCO Branch for more information.



**You can count on 3M for design assistance and support with all the required control and accessories.**

## Contact a Branch Near You!

- |   |  |
|---|--|
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WESCO Distribution  
475 Hood Road  
Markham, ON L3R 0S8  
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