

January 2015

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Products

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Reversible
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Fight
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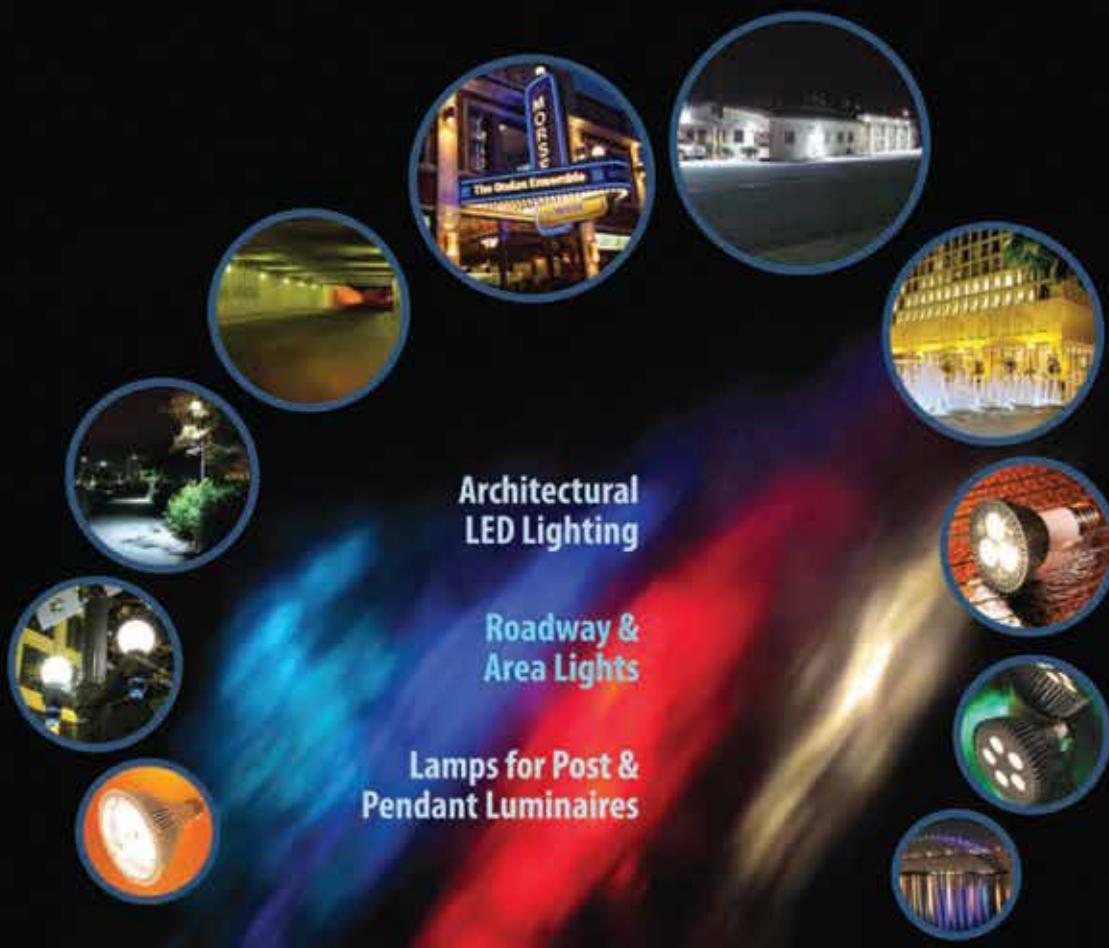


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NCP CONTENTS

- PG 4 Atlas Copco featured 1- megawatt QAC 1200 generator at POWER GEN International
- PG 8 New Product News
- PG 10 The Cleanfix Reversible Fan System
- PG 14 Fighting Frost with Infa- red
- PG 16 Ad Index



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New Construction Products™ is published twelve times a year on a monthly basis by H&F Media Group, Inc., 951 1st Ave. W. Alabaster, AL 35007 USA. *New Construction Products*™ is distributed free to qualified subscribers. Non-qualified subscription rates are \$57.00 per year in the U.S. and Canada and \$84.00 per year for foreign subscribers (surface mail). U.S. Postage paid at Birmingham, Alabama and additional mailing offices.

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POSTMASTER: Send address changes to
H&F Media Group, Inc., P.O. Box 1568
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Atlas Copco featured 1-megawatt QAC 1200 generator at POWER-GEN® International

Atlas Copco QAC 1200 generators produce 1 megawatt of predictable power. They can be used in prime power or critical standby applications in a multitude of industries, including construction, mining, and oil and gas. Operators also can parallel as many as 16 QAC 1200 generators for greater dependability, versatility and reduced fuel consumption.

Atlas Copco featured the QAC 1200 at booth 1800 during the 2014 POWER-GEN® International tradeshow December 8-11 in Orlando, Florida.

The generators feature plug-and-play technology that allows users to connect the units with a single cable. Once this is done, they can connect the power cables to a common bus, set the desired parameters, and the generators automatically synchronize. This enables the units to automatically power down or up, depending on the load requirement, which helps save fuel.

In addition to reduced fuel consumption, paralleled QAC 1200s provide more dependable power than multi-megawatt generators. Relying on a single multi-megawatt generator for primary power puts the worksite and budget at risk if an outage occurs. By comparison, running multiple, 1-megawatt generators that are paralleled keeps power supplied to tools and machinery even if one unit goes offline.

Atlas Copco engineers the QAC 1200 into custom, 20-foot enclosures with the same footprint and form factor as ISO containers. This ensures the units are structurally sound and can accommodate features that would otherwise weaken the integrity of standard shipping containers such as larger openings for maintenance access and control panels on the outside. The enclosure also helps minimize engine noise to 75 dBA at 23 feet, which makes it an ideal generator for sound-sensitive applications near hospitals, museums and schools.

The International Convention for Safe Containers (CSC) also approves the 20-foot enclosures, which means cargo ships, railroad cars and semi-trailers can readily transport the QAC 1200 generators.

The QAC 1200 features a Cummins QST30G5 diesel engine that is EPA Tier 2 certified and provides 1158 kVA/926 kW prime power rating (60 Hz). With this fuel-efficient, electronically governed engine, the integrated fuel tank provides a minimum run time of eight hours.

Engine fluids are plumbed to the edge of the skid on the QAC 1200 to eliminate the hassle of maneuvering pans into the interior space. The standard, spillage-free base frame is sized to contain 110 percent of all the machine's fluids and fuel, which safeguards the site and protects the environment.

Atlas Copco also offers optional cold-weather packages for the QAC 1200 generators. They include alternator heaters, coolant heaters and battery chargers to ensure dependable starts and operations in cold climates. •



Atlas Copco's 1-megawatt QAC 1200 can be used in prime power or critical standby applications in a multitude of industries, including construction, mining, and oil and gas. Operators can parallel as many as 16 QAC 1200 generators for greater dependability, versatility and reduced fuel consumption.



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IN PROGRESS

STANLEY® Announces New Line-up of Long Lasting Snips Promising Thousands of Cuts



Stanley® announces the launch of its robust new line-up of FATMAX® Snips for professional construction markets.

Stanley is offering 19 new FATMAX® Snips which include Aviation, Tin, and specialty HVAC snips. These new Snips feature extended life cutting blades compared to previous FATMAX® Snips providing a new level of durability and longevity.

Aviation Snips which have become popular recently because the linkage on the snips increases the mechanical advantage without increasing the blade length of the snips. Previously known as compound-action snips, they were developed for the aviation industry in the construction of aircraft, but are widely used in many construction trades today.

New features on the FATMAX® Snips include laser etched 1/4" blade markings to help make quick cuts, spring-loaded external latches for quick one-handed operation, and low profile hardware to prevent getting in the way while cutting.

"We are offering this extensive line of Aviation, Tin, and specialty HVAC snips to convince pros that FATMAX® provides a breadth of Snips so they can switch to the FATMAX® brand and meet all their cutting needs," said Rob Ronan, Senior Product Manager.

Research shows that pros want Snips

with high longevity and durability of cutting edges for fast and precise cutting. In fact, pros who use snips frequently will buy new snips up to once a month.

To achieve cutting longevity, the FATMAX® Snips are manufactured with forged Cr-V steel blades and induction hardened. FATMAX® Snips are also rated for 18 gauge cold-rolled steel and 22 gauge stainless steel,

which meet ANSI® specifications. The FATMAX® Bulldog Snip is rated for 16 gauge cold rolled steel or 20 gauge stainless steel, also meeting the ANSI specifications.

Unique to the new FATMAX® Snips, the new 1/4" blade markings offer quick, precise cutting, eliminating the need to measure and mark the cut. Spring-loaded external latches provide quick one-handed operation

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NCP NEW PRODUCT NEWS

and allow for quick and easy access in and out of work pouch. FATMAX® Offset Snips have offset angled blades to provide clearance between the snip and the material while cutting.

Low profile hardware includes a slim bolt that helps provide strength, while keeping a low profile for access. Flush mount hardware also helps prevent catching on materials or opening in the tool pouch versus external hardware as found on some competing snips. Slim bi-material grips provide comfort for a full day's work.

These Snips are backed with a Limited Lifetime Warranty. If the product fails during its useful life due to any deficiencies in material and product, the Snips will be replaced. A person must contact customer service or send damaged tool to Stanley Tools, Attn: Quality Assurance, 1000 Stanley Drive, Concord, NC 28027.

STANLEY® FATMAX® Introduces New Premium Box Beam Levels



STANLEY® FATMAX® introduces its new line of seven durable 24", 32", 48", 58", 72", 78" and 96" Premium Box Beam Levels with a range of new features that make leveling easy and accurate.

A leading new feature is the Removable End Cap. With a push-button release, the End Cap detaches so the square edge of the level fits flush in the corner of a room. This allows for an accurate mark from one wall to be transferred onto the next wall to continue a level line around a room.

Because levels are lightweight they tend to get knocked around on a jobsite, and there never seems to be a good place to store a level. The new 24", 32", and 48" Premium Box Beam

Levels include an integrated rafter hook so the level conveniently hangs on door frames offering an on-site convenient storage solution.

The MaxEdge™ Bridged Center Vial is another outstanding feature. The rail on one side of the level has been removed around the vial to enhance visibility. On the other side of the level is a solid rail for continuous marking and durability.

The new Premium Box Beam Levels feature Block Plumb Vials calibrated for accuracy of 0.0005"/in. All the levels also feature a magnified center block vial for easy readability, and enlarged vial housing for bright lit vials.

The Premium Box Beam levels feature a box-construction design to sit securely on framing. The extruded aluminum body offers strength in a lightweight design. Over-molded rubber end caps offer non-marring

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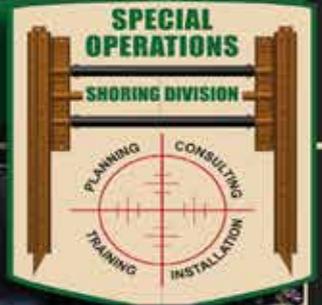
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The STANLEY® FATMAX® Premium Box Beam Levels will be available in December 2015 at mass retailers, home centers, and independent retailers.

STANLEY® FATMAX® Introduces New Torpedo Levels



STANLEY® FATMAX® introduces a new 9" Cast Torpedo Level – **model FMHT43610** – and FATMAX® 9" Extruded Torpedo Level – **model FMHT42437** – both with new features to enhance visibility and quickly adjust projects to level.

The 9" Cast Torpedo Level features rare earth magnets for excellent holding power to steel and other metals. The die-cast aluminum body is slightly heavier than other levels for strength and long tool life. The level also features 180° Rotating Vials for duplicating precise angles such as a roof pitch of plumbers' drainage lines.

The 9" Extruded Torpedo Level features a box-construction design to sit securely on framing. The level also includes both a block plumb and 45 degree vials. The extruded aluminum body offers strength in a lightweight design. Over-molded rubber end caps offer non-marring leveling and shock resistance.

On both levels, the block plumb vials are calibrated for accuracy of 0.0005"/in. The levels also feature a magnified center block vial for easy readability, and enlarged vial housing for bright lit vials.

The STANLEY® FATMAX® Levels will be available in December 2014 at mass retailers, home centers, and independent retailers. The 9" Extruded Torpedo Level (FMHT42437) will retail for approximately \$16.99. The 9" Cast Torpedo Level (FMHT43610) will retail for approximately \$19.99.

New 27 Cal Ground Glove by Youngstown



Youngstown's new 27 Cal Ground Glove is a high performance goat grain work glove that is designed to improve dexterity, comfort, safety

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and compliance for utility workers. The glove features a modern 3D design pattern and double layering of high quality goat grain leather in all the critical wear areas. The result is a glove that fits great and offers outstanding durability. Youngstown guarantees 2 months minimum use for utility field workers with this glove. Compare that to the 'low bid driver gloves' most places use where a worker may only get 1 or 2 weeks out of a single pair. Over the course of a year this leads to significant costs savings per worker while also greatly easing the burden of continual ordering of low quality gloves. The 27 Cal Ground Glove is compliant to OSHA 1926 standards and NFPA 70e. It also has an Arc Rating of 27 Cal. Cost savings. Compliance. Comfort. Dexterity. Durability. Take Safety Into Your Own Hands!

New Load Support Kits For 2009-2015 Ram 1500 From Air Lift Company

New load support solutions from towing safety experts Air Lift Company are available for the suspension system on 2009-2015 RAM 1500 half-ton pickup trucks. The LoadLifter 5000(tm) and LoadLifter 5000(tm) ULTIMATE are industry-leading air spring kits designed to improve ride quality, handling and safety when towing and hauling heavy loads.

To provide additional support for the new five-link-coil rear suspension system of the two-wheel and four-wheel drive RAM 1500 models, Air Lift engineered two heavy-duty towing options featuring application-specific brackets and air springs. Air Lift adjustable air spring kits ensure that weight is properly distributed to all four tires to maximize vehicle stability, safety and comfort. Working with the existing suspension, air springs improve braking and steering, eliminate squat and sway and maintain ideal ride height.



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The Cleanfix Reversible Fan System

Smarter Radiator Cleaning

Most modern agricultural, construction, recycling or forest machines are equipped with up to six radiators and their cooling/fan capacity is enormous. The fan becomes a vacuum cleaner and causes higher dust and dirt accumulation. In no time radiators and air-intake screens are clogged. Everyone is familiar with the annoying results of this inevitable process: overheating of the engine, transmission and hydraulics, need for more frequent maintenance, higher fuel consumption, and reduced performance of the air-conditioning. In other words, repair, cleaning, and downtime may easily cost several thousands of dollars each year.

In 1998, the German based agricultural equipment specialist Hägele came up with a simple but very clever idea to solve this dilemma: a reversible fan. The subsidiary Cleanfix was born. Ever since then it has focused on the further development of the concept of reversible fans. The objective: developing an innovative technology to clean cooling systems. The unique idea turned into a success story. Cleanfix has distribution partners around the globe. Earlier this year, Cleanfix North America Ltd. opened a manufacturing facility in Stratford, Ontario, Canada. The new site has the objective to better serve North American customers.



COOLING



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PRESSURE CLEANING

Nowadays, Cleanfix Reversible Fans provide cooling system cleaning solutions to a wide range of heavy construction, demolition, waste-handling, recycling, forestry, agriculture, and specialty industries where airborne debris clogs cooling systems and causes overheating, costly downtime, and higher repair and fuel costs. Cleanfix Variable-Pitch Reversible Fans provide significant fuel-savings in a wide-range of operating conditions. In this way, efficiency and productivity are enhanced. The unique multi-patented Cleanfix design has been awarded several prestigious industry awards. On top of that, customers are excited about the immediate benefits of the fans:

"I purchased a Cleanfix ® Reversible fan after seeing it at the Tulare Farm Show in February of 2005. It was very easy to install. Since we have put it on the loader, we have not had any engine problems. My driver doesn't have to mess with the radiator any more. I would recommend it to anybody."

-Robert Van Hofwegen, Westwind Dairy, Tolleson, AZ

"We put the Cleanfix® Automatic Reversible Fan on the new Shred-All shredders. The operator likes the fact that the air conditioning works great because the condenser stays clean. The owner likes the fact of no down time blowing out the radiator. We would highly recommend Cleanfix® Reversible Fans on all orchard equipment to keep the radiator and coolers clean."

-Joe & Domenic Di Anna, Shred-All Inc. Modesto, CA

"I have the Cleanfix® Reversible Fan on six Caterpillar D-6 packing units. The fan keeps the engine temperature in the green without having to blow out the radiators manually every hour. These Cleanfix® Fans really make the difference."

-Erie Danell, Danell Brothers Green Chop, Inc. Hanford, CA

"We have a 9960 and a 9965 and would have to clean our screens after every dump. Now, we can go 4 or 5 days before checking the radiator and air cleaner. It is also safer now that no one has to run around the picker to clean it."

-Mark Rosa, Rosa Farms, Hanford, CA

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To achieve this effect the Cleanfix VP-SERIES fan has a small thermo element positioned at each of fan blades, which adjusts the blade angles to match the optimal requirements of temperature and revolution speed.

Thermal Sensitive Control

In the beginning the pitch of the blades is in a reduced angle, but if the temperature begins to rise, the thermo elements begin to expand to move the blades to a steeper position to create more cooling performance. As the engine and hydraulics cool, the thermo elements contract and the blades begin to flatten out creating less airflow. The complete angle variation of the Cleanfix VP-SERIES fan totals 18-degrees. This change in cooling performance can provide an extreme savings for both fuel and horsepower consumption but without compromising its ability to reverse the direction of the airflow to purge the radiator of chaff and debris.

Cleanfix VP-SERIES fan means: less operational shutdowns for engine and radiator cleaning. Additionally, cold weather is no longer a limiting factor for ideal engine combustion and hydraulic system operation. Does your fan pay you your money back? •

In a Nutshell

Cleanfix Reversible Fans are designed to purge debris and chaff from the radiator and air intake screens at full engine rpm, the Cleanfix Reversible Fan can help prevent overheating of the engine, transmission and hydraulics system at the push of a button.

Cleanfix Reversible Fans feature:

- The Cleanfix reversing fan system
- Nine specially designed fan blades
- An integrated air cylinder reverses the fan blade pitch with air pressure – all neatly housed within the central fan hub.
- The blades to rotate on their individual axis – through the cross position – to create optimum cooling and cleaning performance.

The reset occurs automatically by spring tension – a simple, reliable operation. A small 12/24-volt compressor is sufficient to supply the required air pressure. Optionally, the Cleaning process can be automated with an electronic control module to periodically purge the cooling system. This eliminates the requirement to manually actuate the button.

A closer Look at the Cleanfix VP-SERIES

The new VP-SERIES fan takes the existing patented design of the Cleanfix Reversible Fan and combines a thermal control system that enables it to have true variable pitch performance.

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MSA's **Workman® Arc Flash-Rated Harness** provides excellent arc flash protection* in a sleek, black design that's lightweight and comfortable. The high-strength nylon is designed to maintain its integrity after exposure to an arc flash and in the event of a fall. The Workman Arc Flash harness is a cost-effective option for safety managers and contractors who need to be compliant to the latest electrical requirements without breaking the budget.

Learn more at MSAsafety.com/ArcFlash

FALL PROTECTION SOLUTIONS





Challenging winter utility installations have a Calgary contractor seeing infra-red

No matter where you live, underground utility installations get a lot more difficult when the ground freezes. However, the last several years have proven to be especially tough for Calgary contractors, ever since their traditional ground-thawing techniques of coal burning have been outlawed. In fact, the new rules have severely slowed most wintertime utility installations in the city, as contractors have struggled to find new ways to fight the frost.

Perhaps no one has felt the effects as much as ATCO Gas, the area's natural gas distributor. During December of 2010, Calgary's Skyview Ranch development was in a bind to supply services to the new commercial buildings on its property. By this point all utilities were installed except for gas. Three commercial buildings urgently needed gas by January 1st, and several more buildings requested it soon thereafter. Christmas was rapidly approaching, so schedules were extremely tight. To complicate matters even more, one meter of frost had already formed in the ground.

Several years ago, the frost might not have presented such a problem. Calgary's utility contractors would have laid straw beds and used burning coals to thaw a path of frozen ground. Then, excavators could trench along the path for the gas lines. Despite the lack of sophistication, this method worked somewhat effectively. Nonetheless, the environmental concerns were too great for legislators, causing them to put a stop to the practice.

The coal-burning ban created serious issues for everyone involved with underground utility work, including ATCO's service contractor for the Skyview Ranch job. The contractor couldn't bring large excavators in to rip through the frost – partly because of the heightened risk of damaging existing underground utility lines, but also because mini excavators were the only machines small enough to access the jobsite. Unfortunately, mini excavators didn't have the power to dig through frost, so without some method of heating the ground, the contractor couldn't install the gas lines.

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Not just any heating source would work for the Skyview Ranch, however. It needed to thaw ground as quickly as coal and straw – if not quicker – in order to make the deadline. Without an effective solution, the building tenants could have been forced to wait until spring to receive natural gas services. But since their contracts stated a January 1st occupancy, delaying the process was simply not an option.

When it was determined that the service contractor simply didn't have the tools or the time to complete the task, ATCO started considering other options. That's when ATCO heard its seasoned mains-installation contractor, Dunwald & Fleming Enterprises Ltd., had recently purchased some infrared heating devices. The new technology boasted to thaw ground faster than any other method, so ATCO quickly asked Dunwald & Fleming to step in and put the heaters to the test.

The new infrared heaters were Serious Toasters from Serious Thermal Products. Each Toaster measures only 10 feet long by 2 feet wide, but multiple units can be placed together in a series according to the route of the proposed trench. They are powered by propane and run from a 110-volt power source. Using targeted reflectors, the infrared technology of the Toasters efficiently directs heat into the ground with minimal heat loss. Thanks to these advantages, the units appeared to be an ideal solution for the Skyview Ranch job.

"We explored several options before finally finding the infrared heaters," said Marv Dunwald, owner of Dunwald & Fleming who struggled to identify alternatives to coal and straw. First, he tried glycol boiler systems to heat the ground, but they proved to be extremely inefficient for utility work. "There was so much heat loss that it would take three to four days just to thaw one foot of ground," he said.

Next, Dunwald experimented with trailer-mounted units, which he found to be cumbersome. "A trailer only thaws about 12 feet at a time," he said. "Plus, there are only about 10 units in all of Calgary, so nobody can get their hands on one."

Upon discovering the Toasters, Dunwald ended his long, frustrating search and purchased 10 units. Therefore, his plan for the Skyview Ranch job was to line all 10 of them up to thaw 100 feet of ground at a time. After one stretch of ground had thawed, he would move the Toasters ahead to start heating more frozen ground while his crew trenched the first 100 feet. The process would be repeated until 1,000 feet of ground had been thawed and trenched with gas lines installed and the dirt backfilled.

The infrared units provided a safe, quiet heat source, allowing

Dunwald to place the Toasters against buildings and fences, and let them operate overnight without close supervision. "Glycol boilers would have been too noisy to operate overnight near residential areas," said Dunwald, "and most other systems use open flames, which would have been a fire hazard on our jobsite."

It took approximately 24 hours for the Toasters to thaw one meter (deep enough to install the gas lines). Therefore, every morning when the crew got to the jobsite, they could move the Toasters, and the ground would be ready for trenching. "With coal and straw we would only thaw about one foot every 24 hours," said Dunwald. "The infrared heat worked up to three times faster."

Not only did the infrared heat system increase Dunwald's productivity, but it also helped his crew work safely next to the existing utility lines. "We had the inside path, so we were constantly crossing our lines with other utilities," he said. But, thankfully, the ground was thawed well enough that Dunwald didn't have to be too forceful when trenching with his Yanmar mini excavator. "We could have used a shovel to dig," he said.

The gas line installation spanned 10 days, and all buildings were ready to be occupied by the January deadline. Without the infrared heaters, Dunwald isn't sure what might have happened. Consequently, both ATCO and the developer were fully enthused by Dunwald's work. "The developer wanted to buy our Toasters on the spot," Dunwald said.

His only regret was not having enough units to get the job done even faster. "We could have worked a lot quicker if we had more than 10 Toasters," he said. "Then again, the same job might have taken us 30 days if we didn't have any."

Since working on the Skyview Ranch project, Dunwald has better prepared himself for future underground installations. He eventually purchased 20 more Toasters, giving him a total of 30. He's used them on a variety of other jobs – both commercial and residential. "The Toasters have given us the upper hand in Calgary, and more work has started to flow our way," Dunwald said.

With happy clients and an increasing workload, Dunwald is thankful for the infrared technology that allows him to trench during winter months. And the coal-burning ban that once hampered his business has finally provided a silver lining. Now that he offers services that no other contractor in Calgary can match, when it comes to underground utility installations, Dunwald definitely has the hot hand. •

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