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Generac® Enhances State-of-the-Art Generator Sizing Software With Gas Piping Module

Waukesha, Wis., – November 10, 2010 – [Generac® Power Systems, Inc.](#), the leading global manufacturer of industrial, commercial and residential generators, has introduced a new, one-of-a-kind, gas piping module, the first in a series of enhancements to its [Power Design Pro™ software](#), the most advanced generator sizing tool on the market.

The gas piping module is used to determine the required pipe size for gaseous fuel generators by automatically selecting and sizing the appropriate gas piping for a generator. It also allows the user to manually select the pipe sizing and calculate the available gas pressure at the unit. The module supports a single Generac generator as well as multiple generators in any Modular Power System (MPS) configuration.

“Generac’s Power Design Pro already had more features and capabilities than any other competitive software program,” says Mike Kirchner, technical support manager, Generac. “The new gas piping module adds to the advanced capabilities of this program. Generac will continue to roll out even more new features to Power Design Pro in the coming months.”

Introduced in 2009, Generac’s Power Design Pro is a complete generator sizing and system design tool supporting both electrical and mechanical design. Designed by engineers, for engineers, Power Design Pro incorporates 50 years of power generation experience into the market’s most advanced generator design tool. Additionally, Power Design Pro is a one-stop solution center for the consulting engineer, offering specification sheets, installation drawings, emission information, a specification text library with full inclusive design notes and the ability to link directly to supporting dealers for budgetary quoting and additional support.

In addition to the new gas piping module, Power Design Pro has a number of innovative features, including full harmonic and transient analysis to ensure complete generator to load compatibility; advanced load modeling that uses an expert system approach to model a load’s true characteristics and allows users to build their own load types; and load shedding capabilities that enable the user to shed loads entered into the program and evaluate the effects of running those loads against any generator configuration selected by the user. Power Design Pro also offers natural load sequencing in addition to the traditional concurrent starting load step method, which means that users no longer have to manipulate loads into an arbitrary grouping to prevent false transient conditions.

For more information on Generac, please visit www.Generac.com. To download the Power Design Pro Software, go to www.Generac.com/PowerDesignPro.

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About Generac (NYSE: GNRC)

Since 1959, Generac has been a leading manufacturer of backup power generation products serving industrial, light commercial, and residential markets. Generac power systems range in output from 800 watts to 9 megawatts, include a complete line of automatic transfer switches, and are available through a broad network of independent and industrial dealers, retailers and wholesalers. For industrial applications, Generac offers diesel- and gaseous-fueled generators; the Bi-Fuel™ system for dramatic cost savings; the Generac Modular Power System (MPS) for exceptional reliability and scalability; and the Gemini Twin Pack system for serious space-saving requirements. For more information on Generac and its extensive line of generators, visit www.GENERAC.com.

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photo caption

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The screenshot displays the 'Power Design Pro' software interface. The 'Mechanical Design' tab is active, showing the 'Gas Piping' module. The 'Sizing Method' is set to 'Auto Select (< 33% of allowable)'. The 'Pipe Size' is set to '2"'. The 'Generator Summary' table shows the following data:

Generator Summary	
Product Family	SG Spark (single)
Generator	100 kW, 6.8L
Fuel Type	Natural Gas
Fuel Consumption (Therms / Hour)	1260.00
Minimum pressure (inches of water)	11.00

The 'Inputs' table shows the following data:

Inputs	
Supply Gas Pressure (inches of water)	15.00
Length of run (ft)	150.00
Number of 90 elbows	5.00
Number of 45 elbows	2.00
Number of Tees	2.00

The 'Solution' table shows the following data:

Solution	
Pressure Drop (inches of water)	1.28
Available pressure (inches of water)	13.72
% of Allowable	32.02 %

*Piping pressure drop calculation only. Verify adequate service and regulator(s) sizing.

