

# Hill PHOENIX

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A DOVER COMPANY

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## PRICE CHOPPER REMODEL FEATURES HILL PHOENIX

### NEXT GENERATION REFRIGERATION SYSTEM

*First CO<sub>2</sub> Cascade System Installed in North America*

CONYERS, Ga., May 5, 2008 – Price Chopper Supermarkets of Schenectady, N.Y., has teamed up with Hill PHOENIX, a leading designer and manufacturer of commercial refrigeration systems, to supply a first-of-its-kind, next generation refrigeration system to Price Chopper's newly remodeled grocery store in Saratoga, N.Y.

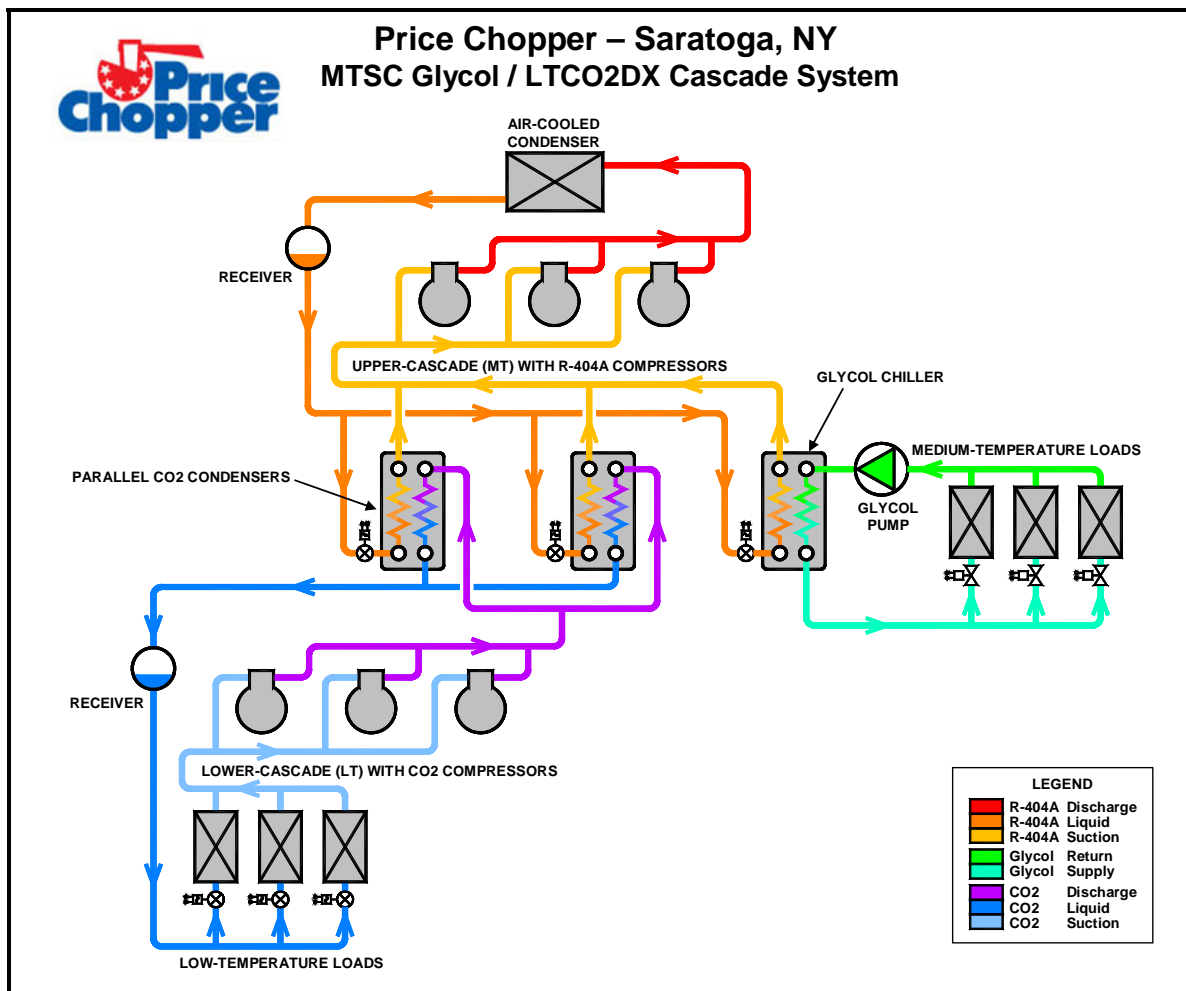


Located at 115 Ballston Ave., the Saratoga store represents the first installation in North America of a supermarket refrigeration system which uses a CO<sub>2</sub> cascade for low temperature refrigeration.

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“Hill PHOENIX is dedicated to providing innovative and sustainable technologies and we’re pleased to be offering yet another technology that’s never been seen before,” said Scott Martin, director of sustainable technologies for Hill PHOENIX.

With this next generation technology, CO<sub>2</sub> is condensed by a medium-temperature refrigeration system using R-404A which also chills propylene glycol for the relocated dairy and beverage departments. The Saratoga Price Chopper store is using the technology in the store’s new frozen food and ice cream departments.



*Simplified Piping Schematic of Second Nature LTX<sub>2</sub> - CO<sub>2</sub> Cascade System and Second Nature MT - Medium-Temperature Secondary Coolant System at Price Chopper*

According to representatives at Price Chopper, this innovative technology is a strong fit for the company. The team had been reviewing options with Hill PHOENIX and was presented with the opportunity to test the first next generation CO<sub>2</sub> system. As a company, Price Chopper is focused on sustainability and executives believed the new technology would blend in well with the many corporate initiatives currently underway.

According to experts at Hill PHOENIX, one of the greatest advantages of using CO<sub>2</sub> in a cascade system is reduced cost of refrigerant. Because CO<sub>2</sub> is \$.50 per pound compared to \$7 or \$8 per pound for HFCs, customers can realize significant savings. In addition, the system's other advantages include smaller line sizes, reduced copper piping, and increased system efficiency.

Another feature that made the system attractive to Price Chopper is its ability to reduce the store's carbon footprint. Since the global warming potential for HFCs is 3,300 but for CO<sub>2</sub> it is only 1, they believe the next-generation Hill PHOENIX system has a long-term ability to significantly reduce carbon emissions.

### **Innovation to Meet Customer Expectations**

What's important to its customers has long been the driving force for research and development at Hill PHOENIX. In fact, the company has been testing various types of low temperature CO<sub>2</sub> systems in its R&D laboratory in Covington, Ga., since 2001. First generation CO<sub>2</sub> systems (SNLT<sub>2</sub>), using Hill PHOENIX patented Second Nature CO<sub>2</sub> secondary coolant technology have been in operation at stores in the United States since 2006.

But Price Chopper was looking for further innovations in its efforts to reduce energy consumption. In fact, says Martin, Price Chopper specified several innovations including “high-efficiency ECM fan motors and LED lighting in all cases, the use of reach-in door cases for all new medium-temperature loads, and variable-speed fan control for the air-cooled condensers. That quest for innovation is what ultimately led them to use our next generation SNLTX<sub>2</sub> low temperature refrigeration system.”



CO<sub>2</sub> Compressors on the SNLTX<sub>2</sub> Cascade System

### **A Problem-Free Start-Up**

To ensure easy, problem-free implementation and start-up of the system at the Saratoga Price Chopper, the Hill PHOENIX Learning Center conducted contractor training sessions with installing contractor ABC Refrigeration of Syracuse, N.Y.

Once installed, the CO<sub>2</sub> system was up and running in record time with shoppers buying product out of the new cases in less than a week after start-up. Hill PHOENIX says similar training sessions have been key to the successful implementation of CO<sub>2</sub> secondary systems throughout the United States and Canada.

Price Chopper will evaluate the maintenance and efficiency of the system over the next several months. Should the system prove as advantageous as expected, the company will move forward with plans to use it in other Price Chopper stores.

### **About Hill PHOENIX**

Hill PHOENIX Inc., a Dover Company, is based in Conyers, Ga. The company designs and manufactures commercial refrigerated display merchandisers, refrigeration systems, integrated power distribution systems and walk-in coolers and freezers. Visit the company on the Web at [www.hillphoenix.com](http://www.hillphoenix.com) or call 800-283-1109.

### **About Golub Corporation**

Based in Schenectady, N.Y. the Golub Corporation owns and operates 116 Price Chopper grocery stores in New York, Vermont, Connecticut, Pennsylvania, Massachusetts and New Hampshire. The family-owned company prides itself on longstanding traditions of innovative food merchandising, leadership in community service, and cooperative employee relations. Golub's approximately 24,000 associates collectively own 51 percent of the company's privately held stock. For additional information, visit [www.pricechopper.com](http://www.pricechopper.com).

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