

RS-52 (R-428A) Replaces Ozone Depleting Refrigerant in Bidgood's Supermarket



Bidgood's Supermarket in Goulds, Newfoundland has a long history of concern for the environment. Roger Bidgood, the founder of the company, started doing his part to protect the environment in the early 1960s by giving free garbage bags to local hunters and fisherman with their grocery orders. He encouraged them to bring their own garbage back out with them and also remove any trash they found on their wilderness trips.

The Bidgood's supermarket specializes in traditional Newfoundland fare and produces a number of local delicacies such as seal flipper pie and moose pie which are sold exclusively at the store in Goulds. Newfoundlanders from far and wide go out of their way to visit the store regularly to pick up the high quality and traditionally prepared foods and products such as rabbit and caribou that are not available at your typical supermarket.

While Bidgood's has focused their attention on foods made from local products using local recipes and made by local people, they also carry all the typical supermarket products so their customers can enjoy one stop shopping for their grocery needs. Rick Bidgood keeps a close eye on the performance of the many refrigeration systems which are vital to maintaining the quality of the fresh and frozen goods found in the store.

Rick relies on Provincial Refrigeration Ltd., a well known local refrigeration contractor, to install and service the refrigeration equipment at the store. In the early 1990s, Provincial Refrigeration replaced the existing individual refrigeration systems with modern compressor rack systems originally designed to operate on CFC R502. Under the Montreal Protocol, Canada eliminated the production and import of CFCs in 1995. With the CFC phase-out, one of the systems has since been converted to HP80 (HCFC R402A). HCFCs are also being phased out under the Protocol so a long term solution was needed to allow the equipment to operate to the end of its useful life.

Don French, president and co-owner of Provincial Refrigeration Ltd, was charged with finding a non ozone depleting replacement for HP80 in use at the store. Having considered the alternatives available and working closely with Kerr Controls Ltd, a well known local wholesaler, he recommended that HP80 be replaced with RS-52 (R428A).

RS-52 is a non ozone depleting Drop-in replacement for R502 and the interim ozone depleting blends such as HP80 (also including R403B, R408A, R411B). Kerr Controls Ltd distributes RS-52 and the RS Series of refrigerants supplied by Refrigerant Services Inc, located in Halifax, Nova Scotia.

When it became necessary to replace the condenser on the second compressor rack system at Bidgood's, which was an air cooled Hussmann low temperature rack system with four 30 HP compressors, at the same time the opportunity was taken to convert the system to RS-52. Service manager and co-owner of Provincial Refrigeration Rob Kean supervised the project which took place in April 2008. The R502 refrigerant was recovered, the new condenser was installed, the system was leak tested, evacuated and recharged with RS-52. Rob reported that it was a very simple conversion, and no retrofitting or modifications were necessary. Provincial and Bidgood's are very happy with the performance of RS-52 and there have been no service problems with the system since the conversion.



From left to right: Don French - President, Provincial Refrigeration, Brian March, Provincial Refrigeration, Rob Kean, Service Manager, Provincial Refrigeration, Rick Bidgood, Bidgood's Supervisor

Ron Samson, manager of Kerr Controls Ltd, St John's branch, is well acquainted with the RS series of refrigerants and has been marketing these products since 2001. Ron says his customers have been very happy with the performance of RS-24 (R426A) in existing R12 applications and also RS-44 (R424A) for existing R22 applications. The recent introduction of RS-52 (R428A) is a welcome addition to the product line-up and will provide for a safe and easy to use long term replacement for ozone depleting refrigerants in low temperature applications. All RS series refrigerants are compatible with existing mineral oils and no retrofitting is required.

Refrigerant Services Inc and Refrigeration Solutions Ltd are part of the RPL Holding Ltd Group of companies dedicated to replacing ozone depleting substances at minimal expense.



REFRIGERANT SOLUTIONS LIMITED

8 MURDESTON ROAD, HALE, ALTRINCHAM, CHESHIRE WA15 9ST

Tel: (+44) (0)161 926 9876 Fax: (+44) (0)161 926 9875 Email: rs@refsols.com Web: www.refsols.com