

referrals that have helped him build his four-year-old business, which he operates with his wife, Margaret, after being laid off as a long-term service tech for Acme Mechanical & Sheet Metal Co., Somersworth, N.H. Vacuum-packed sealants and true moisture removal agents are two proven methods of increasing new and old refrigeration system operating life cycles by several years so owners can budget and plan for equipment replacement at a later time.

For example, Northwood Country Market became a loyal customer since Berger successfully fixed the convenience store's 40-gallon refrigerated seafood/live bait tank, which is responsible for drawing many customers as well as selling 300 to 400 lbs. of lobster weekly in the summer and 25 to 30 lbs. of live bait in the winter. Previous service techs couldn't find the R-12 leak that periodically brought water temperatures up to 56°F from the recommended 36°F on the half-ton, 7,000-Btu system. The last service company suggested new components at a cost of over \$1,000 or replacing the entire unit at more than \$4,000, according to Eric Enos, the convenience store's owner.



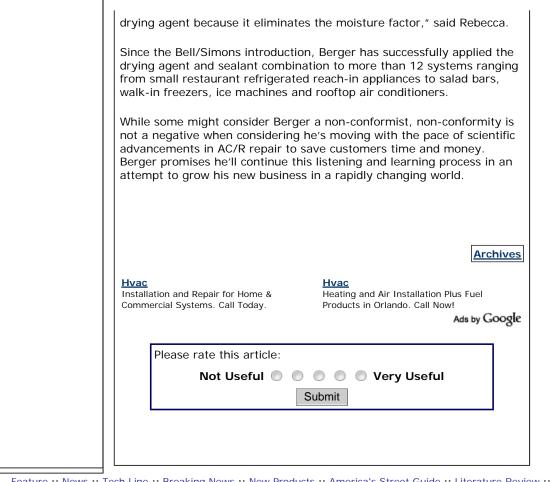
Steve applies Dry-R to the lobster tank.

After charging the system with R-12 alternative, R-409a by the Genetron div.— Honeywell, Morristown, N.J., Berger couldn't find the intermittent leak either because it was most likely hidden in the evaporator coil. The low pressure side was still in a vacuum, which indicated internal moisture was causing sludge and soft particulate formation that blocked the capillary tubes. Berger applied one can of Dry-RTM, a drying agent capable of removing up to 60 drops of moisture, thereby freeing up the partially blocked capillary tubes and returning the system to normal operating

pressures and conditions. Instead of the conventional method of replacing the capillary tube(s), applying the drying agent eliminated the existing blockage and future particulate formations caused by moisture.

The leak was still indeterminable however, even after inspection with his Inficon, East Syracuse, N.Y., and Amprobe, Everett, Wash., leak detectors. Berger applied one can of Super Seal ACR designed for smaller refrigeration systems under 1.5 tons. Since moisture elimination is critical to sealing process success, the prior Dry-R application guarantees a moisture free system. The absence of moisture allows the sealant to do more work while ensuring the optimal life cycle and performance of the system. Both products use a patented vacuumpacked can instead of hydrocarbon refrigerant propellants that are known to reduce the system's refrigerant purity and operating efficiencies. "Berger HVAC saved us a lot of replacement costs, not to mention lost sales from downtime," Enos said. "We call them for all of our repairs (HVAC/R) now."

Countermen, Kevin Blanchette and Derek Reposa of the Manchester, N.H., branch of wholesale distributor, Bell/Simons, introduced Berger to Super Seal as well as a myriad of other product trial samples it provides to all customers, according to branch manager, Stephen Ribecca. Along with samples, Bell/Simons "counter day" seminars are critical to the success techs have with new products. For example, manufacturer's representative, Edison, N.J.-based MarketAir Inc. and its New Hampshire territory sales rep, Jim DeSantis routinely hold seminars on sealants and drying agents at wholesalers. Bell/Simons, which operates 32 HVAC/R distributorships in New Hampshire, Maine, Vermont, Connecticut, Rhode Island, New York and Massachusetts, has carried the sealant for almost five years with no complaints, according to Ribecca. "Now it looks like the techs are beginning to buy a lot of



<u>Feature :: News :: Tech Line :: Breaking News :: New Products :: America's Street Guide :: Literature Review</u> :: <u>Supplier Directory :: Links :: Toolbox</u> :: <u>Archives</u>

Contact Webmaster

Chief Engineers Association of Chicagoland 4701 Midlothian Turnpike, Suite 4 Crestwood, IL 60445 Phone: 708.293.1720 Fax: 708.293.1432 Copyright © 2010, Chicagoland Chief Engineer All Rights Reserved www.chiefengineer.org