



FIRST IN FINE EQUIPMENT AND
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Temperature Systems, Inc.



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New Product Information

We are excited about the Venstar Thermostats. Training for these thermostats will take place on on January 26 in Green Bay and January 27 in Madison. Classes will be from 4:30 P.M.—5:30 P.M. Please watch your mail for sign-up details. We look forward to introducing this new product to you.

VENSTAR®



2010 Parade/Showcase Home Program

CARRIER RCD

**PRICE
INCREASE
AS OF
JANUARY 1**

2009 was been a tough year for all of us. Many of our suppliers were looking for ways to save money. One of the areas where there was a significant cutback is the area of market funds. Due to these changes we will need to change our Parade/Showcase Home Program. Starting January 1, 2010 we will require pre-approval on all products being submitted under this program. Please send your request to the attention of Steve Blankenheim. You will also be able to claim a maximum of 4 homes per product line for each dealer. The list of claimable items is:

- Peerless Boilers 20% Discount
- Renewaire 20% Discount
- Rehau 20% Discount

Honeywell and Aprilaire products are handled directly with the vendor and Temperature Systems is not involved in these transactions. Thank you for your cooperation.

Steve Blankenheim—Supply Products Manager

Viewing Your Account Information Using e-Sales

If you are an eSales user you can easily check your account information and print invoices right from our website. Once you have logged in to eSales, simply hover your mouse over the Profiles tab and click on Account. Under the heading "Balance Information" click on a period balance link to view the detail transactions that make up a balance. Clicking on an individual invoice link will display the items on the invoice and allow you to print a copy of the invoice.

Don't have an eSales login? You can contact your TM or email dkoch@tsihvac.com to be set up.

Helpful Hints from our Credit Department

Are you reviewing receivables, payables and billings weekly? Do you need to make personal visits to collect \$\$? Excuses disappear when you call in person. Are you requiring 50% down on replacement work? Service work should be paid with cash, check or credit card. New commercial service work should be reviewed for risk. Is it a high risk customer such as a restaurant or a bar? Are they calling you because they have not paid for their last service call? Also remember to use Lien Rights. In general terms you have 90 days in Illinois and Michigan. Michigan does require a preliminary notice to be sent. In Wisconsin, you have 150 days and residential transactions may require preliminary notices. For all larger jobs, use a job sheet which lists job name and address: owner's name; general contractor name and the bank doing the financing. It is much easier to ask for this information earlier rather than later. Go collect those dollars!!

Service Tech Tips

Some essentials when working with R-410A

➤ Gauge manifold sets, hoses, recovery cylinders and the recovery machine must be rated for the higher pressures encountered with R-410A. An attempt to use standard refrigerant service tools is very dangerous. Recovery cylinders must be rated for R-410A use. These cylinders meet the U.S. Department of Transportation (DOT) DOT 4Ba 400 or DOT 4BW 400 standards for recovery cylinders. Be very careful here; it would be very easy and convenient to use whatever recovery cylinder was handy rather than the correct cylinder. Such a mistake could be the last one a technician makes. Standard recovery procedures for R-410A remain unchanged [from other recovery methods].

➤ Since R-410A has a slight (0.3 degree) fractionation, it—like other 400-series refrigerants—must be charged in the liquid state. Otherwise, follow the manufacturer's recommended charging procedure. The dew-point and bubble-point temperatures may be ignored (they are not even listed on pressure-temperature charts for R-410A) when calculating system superheat and subcooling. ♦

Source: Bacharach Inc. as seen in RSES Canada's, "The RSES Bulletin," Vol. 37, No. 1, July 2008.

▶ TECH TIPS

Brazing and soldering copper HVACR pipe

Refrigeration soldering is always brazed, since brazing makes a very solid leak-free joint that withstands high and low temperatures. Brazing in the HVACR industry is done with oxyacetylene torches, which heat the pipe to temperatures approaching 6,000°F. Oxyacetylene tanks should have pressure regulators to properly manage pressures. In addition, all safety precautions should be applied when brazing HVACR pipes, including the use of safety glasses and fire-extinguishing equipment. When soldering refrigeration pipe, use solder that has a composition of silver in it—the silver bonds with the copper for an excellent joint.

Before brazing any pipe, it is important to fit and clean it. This will ensure the job is done correctly. Cut the pipe to the desired length with tubing cutters, and ensure it has a good fit. Then, clean the area where the pipe is to be soldered, apply flux to the inner and outer joints. It is important to apply the heat evenly across the joint and heat the pipe before applying the solder. After the pipe has been heated, apply the solder to the joint and allow it melt into the joint. Do not use the torch to heat the solder, but use the heat on the pipe to melt the solder evenly. Do not use too much solder; the solder can migrate inside the pipe and cause a blockage of the pipe or little beads of solder may form inside the pipe, which will migrate through the refrigeration system and plug screens, metering devices, and possibly damage the compressor.

Source: High Performance HVAC Air Conditioning & Heating Systems Information, www.highperformancehvac.com.