

New Low Profile Oil Furnace in Planning Stages

Here at Thermo Pride we're always striving to design and build our products to be the best they can be. We not only want to design the units to high quality standards, but we also want to make our furnaces easy to install and service.

We are now in the process of designing a new, low-profile oil furnace. It features a top flue discharge like the popular Highboy design. This unit will contain all the features you're familiar with in a Thermo Pride oil furnace including the 13-gauge copper-coated octatherm heat exchanger and a cabinet produced with furniture grade steel and rounded corners. Beyond that, the new low-profile oil furnace will be a significantly shorter unit with the smaller footprint of the Highboy, so that it will fit in those smaller basement installations.

Earlier this spring Thermo Pride took a prototype unit out on the road to obtain dealer feedback. The unit visited several events throughout the northeastern part of the country specifically set up to give our dealers the chance to take a look at the new unit. We received a great deal of

useful feedback from everyone. Now we've taken the suggestions back to the engineering department where they will be applied to the new furnace design producing not only a furnace built to last, but also a furnace that is built with ease of installation and service for the dealer.



Tim Wolf, Thermo Pride's Technical Advisor, discusses the low-profile prototype with a dealer.

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Stay Safe During the Heat of Summer

Hot summer weather is great for our industry—but you need to make sure you are safe when working in this heat!

Remember:

1. Gradually get used to the heat. Allow proper time to acclimatize so your body can adjust to the warmer conditions.
2. Take in enough fluid and minerals to prevent hypothermia. Ideally, drink 5 to 7 ounces of cool water every 15 minutes—even if you don't feel thirsty. Light, cool meals will provide you with more energy than hot, heavy meals when the temperatures are extreme.
3. Follow suggested work/rest cycles. Alternate light and heavy work or indoor and outdoor work.

Heat exhaustion symptoms may include:

- Clammy, cool, moist and pale skin
- Intense thirst from dehydration
- Anxiety or agitation
- Failing or loss of coordination
- Nausea or vomiting
- Slightly low oral body temperature
- Fatigue or weakness
- Low to normal blood pressure
- Clouded senses or impaired judgment
- Loss of appetite
- Rapid breathing

In case of heat exhaustion and heat stroke:

- Move victim into the shade
- Remove or loosen boots and clothing
- Fan the victim
- Massage the victim's arms and legs
- If the victim is conscious give them slightly salted water
- Call for medical help
- Pour water and ice over the victim
- Elevate the victim's legs
- Stay until medical help arrives.

Hopefully by following these guidelines you can keep yourself safe during the heat of the summer!

This information was reprinted with permission from the Air Conditioning Contractors of America – National Capital Chapter.

Thermo Products Receives NORA Grants for Oil Furnace Research

Thermo Pride is proud to announce that after an extensive application process (including presenting the proposals to the National Oilheat Research Association's (NORA) grant board during the AREE show in Atlantic City this spring), the company has received two research grants to develop or enhance existing products.

Over the next year Thermo Pride will use these grants to research the feasibility of a 2-stage oil furnace with an ECM motor, as well as to expand our line of ThermoPacks to include 4 and 5-ton version of these packaged oil furnace/ac units.

NORA is a government agency devoted to promoting the benefits of the oil heating industry through consumer education, research and development and technical training. For more information on NORA check out www.nora-oilheat.org.



NCPMA – Training the Next Generation

As you're well aware, there is a continuing shortage of qualified technicians in our industry. The North Carolina Petroleum Marketers Association (NCPMA) is doing their part to help train the next generation of technicians. NCPMA is donating Thermo Pride ThermoPack (combination oil heat and air conditioning) units to all North Carolina state community colleges with HVAC training programs. This donation will give the students valuable experience with equipment they will encounter when out in the field.

Over three years the NCPMA is donating 38 ThermoPacks to the community colleges. This year, ten schools in the following cities will receive units.

Asheville, NC
Winston-Salem, NC
Salisbury, NC
Wilson, NC

Flat Rock, NC
Jamestown, NC
Dobson, NC

Fayetteville, NC
Winterville, NC
Murphy, NC

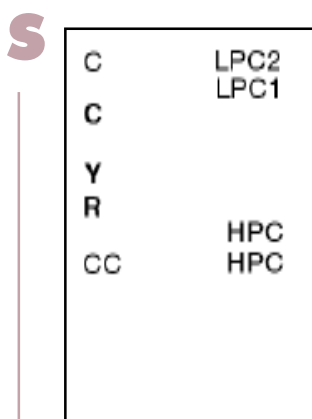


NCPMA received support for this program through the National Oilheat Research Alliance (NOA).

TECH

Troubleshooting the New Premiere 14 SEER AC Condensing Unit

P The new Premiere 14 SEER AC is equipped with a solid-state diagnostic control board that helps to diagnose the most common AC system problems: high and low pressure cut-offs.



Premiere A/C diagnostic control board

The key issue is the need for correct phasing (similar to polarity in a DC system) of the system. Proper phasing is essential with this 230-volt system. The diagnostic control utilizes a low ac voltage/current to sense and prove proper system pressure. Incorrect polarity can prevent the board from sensing properly and result in an inoperative system. This is the most likely culprit if you have a new installation, have a call for cooling, have given the unit the full three minutes for the delay on make and nothing happens.

To check for proper phasing, first connect your voltmeter between **Y** and **C** on the board to ensure there is a call for cooling. If you have a call for cooling from your thermostat, you should read 24 volts at this connection. Now connect your voltmeter between **Y** and **R** on the control board. If your meter reads greater than 30 volts, the phasing is reversed.

If the phasing is reversed, the best way to correct the situation is to reverse your two 115 volt leads (230 volt connection) at the contactor. (Reversing the leads at the transformer would also alleviate the situation but may cause confusion to the next technician that may work with the unit, because of color-coding in the wiring diagram.)

Answers to April 2002 Tech Tip

1. Why should trouble shooting of the Silicon Nitride ignitor be done with an ohmmeter instead of a voltmeter?

Troubleshooting the ignitor should be done with an ohmmeter by performing a check to see that there is a complete circuit through the igniter. Checking voltages to the igniter with a voltmeter will give inaccurate voltage readings because the control chops parts of the sign waves.

2. What is the best way to check for poor ground?

To check for a poorly grounded system, take a volt reading between the neutral wire at the control and a ground. A voltage reading of more than 2 volts indicates a bad ground connection. If the voltage is greater than two volts the ground connection must be repaired to ensure continuous, reliable ignitor life.

Premiere A/C Units Now Manufactured in North Judson, IN

The Thermo Pride Premiere 14 SEER A/C units are now manufactured in the North Judson, IN plant. Since the units are now being produced directly, Thermo Pride will have much better control over the production schedule and quality benefiting you, the dealer, with a superior product and enhanced availability.

Thermo Pride's Premiere A/C stands out from the competition with its unique design. This includes the UV-resistant ABS cabinet, zinc-coated aluminum micro-channel tubing that provides increased durability, a fully insulated Copeland scroll compressor and a self-diagnostic LED panel. To learn more about



the Premiere A/C check out www.thermopride.com or ask your local Thermo Pride representative.



Coming this Fall!

Tantalizing premiums
when you purchase furnaces.

Watch for further details!

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