



Once again York has left the competition scratching their heads!

## York Has Solved a Very Complicated Puzzle

Until now, the idea of offering or working with a modulating furnace was like solving a brainteaser. York has removed the complication and frustration with their new 95% AFUE Affinity Modulating Furnace. They've actually made it easy to install, and available in all capacities.

It's an easy choice to keep your customers comfortable. The furnace gas valve and inducer motor modulates in both PSC & ECM variable speed blower combinations.

It's easy for you too. York designed a furnace that's sophisticated, but simple to install and operate. In fact, it uses a single stage thermostat!

York's Affinity Modulating Furnace is easy to install, easy to operate, easy to maintain and easy to sell.

All models are 95% AFUE, which allows your customer to enjoy the \$150 Federal Individual Tax credit on next year's return! ECM blower models qualify for an additional \$50 Tax Credit for being electrically efficient.

## Getting Tired of Carrying the New 13 SEER Models?

Do you have a restricted space to set a new unit? As always, Upstate and York can help you out.

Introducing the smallest 13 SEER unit in the industry, York's Micro Channel Mini-Cube! Units come with standard 5-year parts and 5-year compressor warranties, and are R-22.

Once again, York is the Industry Leader!

-Ray Beato



Mini-cube dimensions

TON	LBS	HEIGHT	WIDTH	DEPTH	LIQ.	SUCT.
1.0	85	22-1/2	21 3/4	21 3/4	3/8	3/4
1.5	90	22 1/2	21 3/4	21 3/4	3/8	3/4
2.0	105	24 1/4	21 3/4	21 3/4	3/8	3/4
2.5	110	26 3/4	21 3/4	21 3/4	3/8	3/4
3.0	140	30 3/4	21 3/4	21 3/4	3/8	3/4

## New Buffalo Territory Manager

I am pleased to announce that Bob McCormick joined Upstate Systems April 3rd as a Territory Manager for Buffalo.

Bob will help grow our Buffalo operation with his successful experience in the contracting side of the business and his excitement about promoting Upstate's superior products and support services to customers.

Bob was with Tri-R Mechanical of Buffalo for the past seven years. An avid NASCAR fan, Bob lives in his hometown of Java Center with his wife and three children.

Please join me in welcoming Bob to our team!

-Fred Mangine

## Spring into the Cooling Season with Upstate's York Spring Promotion

Our exciting 2006 Spring Promotion will really get your phone ringing and help you close orders now through June!

York is continuing to aggressively promote your products in television and print advertising. The Spring Promotion again offers homeowners a choice of Rebates, Financing, or Extended Warranty. This spring, you can offer up to \$1,500 system rebates on both AC and HP systems.

A summary of the Promotion follows on the next page. Your Territory Manager will discuss it in more detail with you. Please note the usual Dealer contribution amounts for the various options. Please also give a copy of the promotion flyer to the person in your office that processes your Comfort Plan applications.

To further enhance the benefits of this Promotion to your business, York's new 95% AFUE modulating furnaces qualify your residential customers for an IRS individual income tax credit of \$150 (model PM9), or \$200 (model PC9) this year. Want to offer even more? York's CZE 15-SEER condensing units qualify your customers for a \$300 tax credit!

Use this strong Promotion and York's innovative products to kick off another big year! Thank you for your business and for the opportunity to be of service.

# 2006 YORK SPRING PROMOTION

Participation in the Spring Promotion is limited to registered York Liberties Dealers only. All equipment must be sold between 04/15/06 – 06/30/06, and be installed by 07/15/06. Program excludes new construction, rental and commercial applications. Co-op funds are not applicable with these programs.

Consumer chooses ONE of the following three options: rebate, financing, or extended warranty.

## Option One – Rebate

<u>Model</u>	<u>Rebate</u>	<u>Model</u>	<u>Rebate</u>
Affinity YZE	\$500	Affinity PC9	\$300
Affinity CZE	\$500	Affinity PM9	\$250
Affinity YMB/YZB	\$200	Affinity PV9	\$200
Affinity CMB/CZB	\$200	Affinity PT9	\$100
Latitude ERE	\$200	Affinity PV8	\$100
Latitude HRE	\$200	Affinity PT8	\$ 50

NVS/FFV/AVY/MV variable speed air handlers \$100

**System AC Rebate** \$1000 (System includes CZE 15-SEER A/C, PV9 or PV8 furnace or variable speed AHU, York coil, 2 IAQ items & a York T-stat. System rebate increases to **\$1500** if a PC9 furnace is used.)

**System HP Rebate** \$1500 (System includes YZE 15 SEER HP, PV9 or PV8 furnace or variable speed AHU, York coil, 2 IAQ items & a York T-stat.)

## Option Two – Financing 12 Months Same as Cash

You must be signed up with CitiFinancial to offer this option. Complete details are on the promo flyer.

## Option Three – YorkCare Extended Warranty

You must be a registered YorkCare Dealer to offer these discounted 10 year parts and labor plans. Complete promotional plan numbers, pricing, and special processing requirements are listed on the promo flyer. Contact Jan Barnett at 1-866-419-9675, or [office@jswanson.com](mailto:office@jswanson.com) with any questions on the Comfort Plan option.

**\*\*In addition to any option chosen, consumers can get their choice of color panels or college logo panels when purchasing a qualifying Affinity Series Heat Pump or Air Conditioner.**

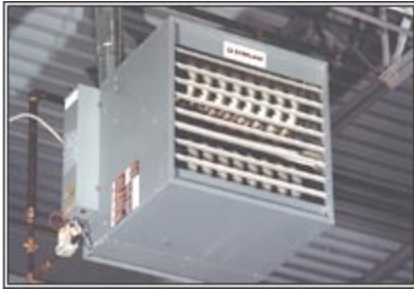
Color panels –	six choices	Program cost	\$ 70
College logo panels	over 50 choices	Program cost	\$180



-Fred Mangine

# Upstate Now Offers You Even More Options Check Out The New Additions To Our Already Great Line-up Of Products!

## Sterling Gas-Fired Product Line



We are pleased to announce that Upstate Systems has been named Sterling Gas-Fired Products Distributor for Upstate New York. Products now available to you include:

- Unit Heaters
- Make-up Air Units
- Industrial Gas Fired Equipment

More information will be in the next edition of the Upstate Update. Contact your Upstate Territory Manager for catalogs, pricing, and availability.



## Upstate Systems named LG Distributor for Upstate New York

We are pleased to add the LG line of Ductless Splits and PTAC's to our product line-up. Products are:

- 13 SEER
- R-410A refrigerant
- Inverter technology
- Optional 0° low ambient



A unique feature is the Art Cool line of evaporator cabinets for the customer who requires a more aesthetically pleasing look. Available styles and finishes include:

- Mirror finish
- Metal finish
- Wood and white wood look
- Artistic looks, such as "VanGogh" pictured at right.

Check with your Territory Manager for pricing and availability.



# York Introduces New R-410A Refrigerant 25, 30, & 40 Ton Millennium Rooftop Packaged Units

York and Upstate Systems are proud to introduce the new Millennium Rooftop packaged units utilizing R410A, an environmentally friendly refrigerant, in 25, 30 & 40 ton capacities. Customers can now enjoy the following improvements and enhancements:



1. Unit efficiency up to 10.5 EER (over 9.5% increase versus the R22 units).
2. Increase in part load efficiencies up to 12.3 IPLV (10-13% increase versus the R22 units).
3. Up to four independent stages of cooling offering more precise temperature control and energy savings.
4. Heating Capacity: 1-2 stages on 25 & 30 ton units, with up to 3 stages on the 40 ton unit.
5. No increase in size, weight, or footprint versus R22 units.

In addition to the above changes, Mechanical Contractors can still receive the following options, features, and benefits:

- Simplicity Elite BAS Control Platform
- Energy Recovery Ventilator Module
- Double wall construction
- Variable air or constant volume
- Stainless steel drain pan
- Single point power
- Multiple airflow configurations
- Hinged access doors and much more

The new product will start with “Z” in place of the “Y”, which was used on the R22 units. For more information please contact your Territory Manager.

-Jon Beato

## York's DJ 036 – 060 Sunline Magnum Rooftops Beat 13 SEER Minimums

York Sunline Magnum units beat 13 SEER single phase minimums. They are convertible single package air conditioners with a common cabinet and a common roof curb for the 3, 4, and 5 ton sizes; the same size Sunline roof curb you've been using for years. The units were designed for light commercial and commercial applications. They can easily be installed on a roof curb, slab, roof jack or frame.

The Sunline Magnum combines high-efficiency and advanced-economizer controls with unprecedented installation flexibility and low-installed costs. A single footprint size serves all units from 3 – 5 tons. This unit is offered with natural gas heat.

The new DJ-36 – 060 lines also have the Simplicity control board standard on every unit. Factory installed options such as stainless steel heat exchanger, electric heating elements, single enthalpy economizer, high static drive blower motor, coil guard, dirty filter switch, hinged filter door, and tool-less access panels further reduce installation costs.

The units have on board diagnostics – each alarm will energize a trouble light on the thermostat, if so equipped, and flash an alarm code on the control board LED. Each high and low pressure switch alarm, as well as each freezstat alarm, has its own flash code. The control board saves the five most recent alarms in memory. These alarms can be reviewed at any time. Alarms and programmed values are retained through the loss of power.

All units have long lasting powder paint cabinets with 1000 hour slat spray test approval under ASTM-B117 procedures. All models are CSA listed. Contact your Territory Manager for more information.

-Jeff Heller

## XpediAir Introduces the CVW Model



XpediAir Inc. has introduced a new vertical fan coil to their Belt Drive Series offering. The CVW Vertical Belt Drive fan coil is the perfect cost-effective solution for meeting rooms in hotels, motels, schools, churches, apartment complexes, universities or any application with large common areas.

The CVW vertical unit offers a flexible range of air flows and total static pressures of up to 2.0 inches water gauge. This unit is ideal for ducted applications in which volume space conditioning is a must.

(continued on next page)

Available in sizes ranging from 600 – 4000 cfm, the CVW Vertical Belt Drive fan coil is factory packaged and assembled with optional factory installed electric heater and 24 volt controls, reducing the field labor required to install the unit. It also features an isolated motor and blower, positively sloping removable drain pan and easily removable access panels for service.

Multiple choices for coils, motors, filters, insulation and electric heat options are available, with an isolated blower assembly for quiet operation.

-Marc Palladino

## Building Groups to Set Minimum Standard for Green Building

More new building projects will be declared "green" under a new minimum standard for green building, if the current efforts of the U.S. Green Building Council (USGBC) and two engineering societies are successful. USGBC is working with the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and the Illuminating Engineering Society of North America (IESNA) to develop the new standard, which aims to bring green building into the mainstream. The standard will apply to new commercial buildings and major renovation projects and will address water use efficiency, energy efficiency, and other factors. The three groups hope to complete the standard next year. See the [USGBC press release](#).

ASHRAE may be helping to develop the minimum standard, but the society is shooting for a Gold LEED (Leadership in Energy and Environmental Design) rating from the USGBC as it prepares to renovate its Atlanta headquarters. ASHRAE has a strong commitment to sustainability, and recently published a "Sustainability Roadmap." The society has also joined with the Chartered Institution of Building Services Engineers (CIBSE) to issue a joint statement on climate change, in which the two groups pledge their support for the United Nations Framework Convention on Climate Change. See the ASHRAE press releases on its [new headquarters](#), the [Sustainability Roadmap](#), and [climate change](#), or go directly to the Sustainability Roadmap ([PDF 373 KB](#)) and the ASHRAE [Engineering for Sustainability Web site](#). [Download Adobe Reader](#).

Of course, there is another green building standard, at least in terms of energy efficiency: the Energy Star. The U.S. Environmental Protection Agency (EPA) announced in early February that the Energy Star was awarded to 2,500 buildings last year, including 1,007 office buildings, 501 public schools, 834 grocery stores, and more than 200 hotels, hospitals, medical offices, and other buildings. Buildings that qualify for the Energy Star generally use up to 40 percent less energy than typical buildings. The Energy Star program is a joint effort of DOE and the EPA. See the [EPA press release](#) and the list of Energy Star buildings ([PDF 2.4 MB](#)).

-Eric Schardein

# Standard Warranty & Comfort Plan Claim Submission Clarification



It has recently been brought to our attention by several dealers that we need to clarify warranty & comfort plan claim submission procedures.

First, let's clarify standard warranty procedures. Unless your service technician informs our parts administrators AT THE TIME OF PICKUP that a part is under warranty, we do not automatically check for warranty status or fill out a warranty claim form. This is the case even if you have asked / advised us when you called for part availability, as it could be a few hours, days or weeks between the time the order is placed and actually picked up.

If your technician does advise us of warranty, and has the information required to complete the claim form, we will, time permitting, complete the claim form right away and send the top white copy of the form and a copy of the order with your technician. If complete information cannot be provided, we will give them a blank warranty form to be completed and returned to us. Or the claim may be entered by you online at upgnet. If no installation date is provided, the warranty start date defaults to the day the unit was shipped from the factory to us.

It remains the dealer's responsibility to inquire if / inform us if a unit is still under warranty and to submit a standard warranty claim for parts that fail during the warranty period. Thank you for your understanding in this matter.

Second, there has been confusion on who is responsible for verifying Comfort Plan coverage and submitting Comfort Plan claims. The short answer to that is, you – the dealer. If you sell or service Comfort Plans, you can easily verify coverage online at [www.upgnet.com](http://www.upgnet.com). This site does require a user name and password – contact me if you are not already signed up for access or need help in navigating the website. I can be reached at [office@jswanson.com](mailto:office@jswanson.com), 716-270-2700 or 1-866-419-9675.

Comfort plans supplement standard warranty; therefore if a part or unit fails while still covered under standard warranty, two claims must be submitted for full re-imbusement. File a standard warranty claim with us for the part. You must also file a comfort plan claim directly with York for the part mark-up, travel allowance and labor allowance (if labor coverage was purchased). If the standard warranty has expired on a unit, then only a comfort plan claim needs to be filed. Contact me if you need anything clarified.

-Jan Barnett

# Service Updates

## **Variable Speed Furnace CFM Board, YS-013-06**

After receiving reports of limit control tripping on PV8 & PV9 variable speed furnaces, York has determined the cause to be a communication glitch between certain electronic programmable room t-stats, and the furnace ECM fan motor. The problem generally occurred either when coming out of night set back mode of operation, or if a consumer manually quickly raises the room thermostat set point. During this condition, the “W1” and “W2” heating low voltage signals from the room thermostat to the furnace jams the signal to the motor, causing the motor to not operate, and the limit to trip.

A software change in the board has been implemented that will resolve the ECM communication issue described above. The new Source1 part number is S1-031-09118-000, and can be identified by an asterisk (\*) added to the numeric portion of the SAP barcode, located on the face of the control.

If you encounter a variable speed furnace tripping on limit, there is a temporary field repair that can be put into place until the replacement board is obtained. Remove the second stage heating wire “W2”, from the furnace and reset the second stage timer in the furnace from 0 to the 10 or 15 minute pin setting on the CFM control. This will allow normal furnace operation until you can replace the board.

A one hour labor allowance will be provided to replace the CFM boards that experience the limit trip issue. A one hour labor allowance will also be provided if an interim field repair of removing the W2 wiring from the room t-stat and reprogramming the second stage timer was necessary until the upgraded CFM board could be obtained. In either instance, a standard warranty form should be completed and YS-013-06 should be entered into the service letter portion of the claim form.

## **Nuisance Fault Code on Furnace Ignition Control Modules S1-031-01972-000 & S1-031-01973-000, YS-016-06**

York has received reports of fault code #9 lockouts on furnaces during both heating and cooling cycles. The lockouts were linked to software in the subject ignition modules that under certain isolated conditions, with a power interruption to the module, would trigger a fault code #9. In some cases the flame sensor had to be removed, and cleaned to reset the fault code.

The ignition control vendor, Texas Instruments, has recently instituted a software change to the subject modules, which will prevent the fault code #9 from occurring and causing either a heating or cooling lockout from occurring.

The modified ignition control boards will have a software code of “CL:A6” printed on the bottom right-hand corner of the label on the face of the control.

A one hour labor allowance will be provided to replace ignition modules experiencing the nuisance fault code #9 failures, on a fix on fail basis only. A standard warranty claim

must be completed with YS-016-06 entered in the service letter portion of the claim form.

### **Single Stage 80% Horizontal Rollout Tripping Issue on PS8 & GY8 Furnaces, YS-010-06**

York has received reports of rollout tripping on single stage 80% furnaces installed in horizontal applications. Testing has not found any significant cause. Below is a summary of the steps to follow if this problem is experienced. A copy of the complete service letter is available at any Upstate parts counter.

1. Insure the air deflector is installed as intended, at a sharp 90 degrees. Position below inducer motor is critical and is different for the different cabinet widths.
2. Double check heat blower speed per airflow requirements and static pressure.
3. Keep the door on; removal of furnace door will increase temperature by 50°F.
4. Was unit converted to high altitude or LP application properly?
5. Check manifold gas pressure.
6. Check temperature rise.
7. Check rollout limits settings.
8. Check maximum outlet temperature.
9. If everything checks out properly, then 'Clock the Meter' per the installation instructions. This is the only way to determine the true Input BTU.
10. For more information please refer to the installation instructions, where most of this data came from.
11. Note which limit tripped, top, middle or bottom.

A one hour labor allowance can be claimed to inspect and reposition an incorrectly positioned deflector shield. Please complete a standard warranty claim form and enter YS-010-06 in the service letter section.

### **Nuisance Limit Tripping On 90% Furnaces, YS-025-06**

York has received reports identifying nuisance field limit tripping on certain 90% upflow units result in lockouts. These lockouts were linked to isolated incidents, while the unit was operating under normal conditions.

Lab testing has determined that the limit switch in selected units can safely be changed to one with a higher temperature setting on specifically listed units only. If it has been

confirmed that there are no abnormal airflow restrictions (dirty filters, closed registers, etc.) and that the unit is on the correct blower speed and operating within the nameplate temperature rise range, the limit switch may be changed on the units listed below. The limit changes listed below have been implemented in production beginning April 2006.

Variable-speed 80K, 3T upflow units (PV9B12N080UP11 & GM9v080B12UP11) can be changed from the current 170°F limit to a 210°F limit setting, p/n S1-025-30290-700.

Two-stage PSC 80K, 3T upflow units (PT9B12N080UP11 & GM9T080B12UP11) can be changed from the current 170°F limit to a 200°F limit setting, p/n S1-025-29041-006.

Single-stage 80K 3T upflow units (PT9B12N080UP11, GY9S080B12UP11 and GM9S080B12UP11) can be changed from the current 190°F limit to a 200°F limit setting, p/n S1025-29041-006

On all 120K, 5T upflow units (PV9D20N120UP11, PT9D20N120UP11, PS9D20N120UP11, GY9S120D20UP11, GM9V120D20UP11, GM9S120D20UP11 & GF9S120D20UP11) can be changed from the current 180°F limit to a 200°F limit setting, S1-025-29041-006.

On a few units, it has also been determined that the blower deck was incorrectly formed in the factory, which can also contribute to nuisance limit tripping. The formed flange on the front of the blower opening in the blower deck is called the blower cutoff. If the angle of the blower cutoff is not correct, the proper amount of air is not directed to the front of the furnace, causing the limit switch to get hotter than normal

If the change in limit switch described above doesn't resolve the limit tripping issue on a particular unit, the blower cutoff will need to be checked and corrected if necessary. The angle of the flange should be 47 degrees. Adjustment can be done with hand seamers or folding tools. A copy of this service letter with pictures of the proper blower cutoff is available at the Upstate parts counter.

A one-hour labor allowance will be provided to check blower cutoff and replace limit switches on units experiencing the nuisance lockouts, on a fix on fail basis only. Reference YS-025-06 in the service letter portion of the standard warranty claim form.

### **P\*9 & F\*9 Furnace Condensate Gaskets Splitting & Leaking**

All 40" 90% furnace models currently have a gap in between the two halves of the condensate pan. This gap can allow the pan gasket to split and leak if the screws securing the pan are significantly over-tightened.

To prevent this from occurring, an insert/filler was developed constructed of the same Red RTV silicone material as the gasket that fills this gap. Production gaskets have now been changed to add this insert and re-designed gasket.

The insert cannot be ordered separately and will not work with the old style gaskets. For replacement, the complete Gasket Kit listed below needs to be ordered which includes the insert and new pan gasket. The kit also contains the fiber gaskets needed as well.

Upflow	Downflow/Horizontal
14.5" S1-373-23784-001	14.5" S1-373-23784-005
17.5" S1-373-23784-002	17.5" S1-373-23784.006
21.0" S1-373-23784-003	21.0" S1-373-23784-007
24.5" S1-373-23784-004	24.5" S1-373-23784-008

### **Possible Water Entry on Predator style 6.5 – 12.5 Ton DM,DF,DH & DR Units, YS-007-06**

York has received a few reports of water entry on the economizer controls for the above units causing possible premature failure of the control and the mounting bracket.

Initial water testing did not reveal any leaks. By increasing the return static York engineering was able to duplicate the problem. Water could be drawn into the unit at the upper corners of the panel above the economizer. The inside tip edge of the panel is cut back .93" on both sides so the panel will install over the side rails. This is the area that could leak. Taking the panel on and off to service the economizer could exacerbate the leak. This leak could happen even if the unit doesn't have an economizer.

If you encounter a unit leaking at these points, first check the return static to see if it's high. If you can relieve some of the return static the unit will operate more effectively.

The fix for this possible leak point is the addition of a closed cell piece of foam. All units produced after 02/01/06 will have this new gasket/seal installed at the factory. Units produced prior that exhibit a leak at this point would have to have the gasket/seal field installed. The gasket/seal is 1" x .6875" x 30.375" and made from closed cell foam rubber with self-adhesive on one side, p/n SI-028-15462-000. Complete replacement directions are available at the parts counter.

This is a fix on fail notification only. If you have a unit drawing water at these point, York will allow a credit of 1 hour per unit to install this new gasket/seal. Reference YS-007-06 in the service letter portion of the standard warranty claim form.

### **EZ-Zone Replacement Parts / Meridian Upgrade**

York has informed us that replacement parts for EZ-Zone controls system sold in the 1980's and early 1990's will no longer be available. The parts supplier of these components is unable to continue to produce these parts at a reasonable cost.

A document (036-21423-001) outlining the procedure and components necessary to upgrade an older EZ-Zone system to the new Meridian system is available on [www.upgnet.com](http://www.upgnet.com) under the commercial product section, zoning systems and controls.

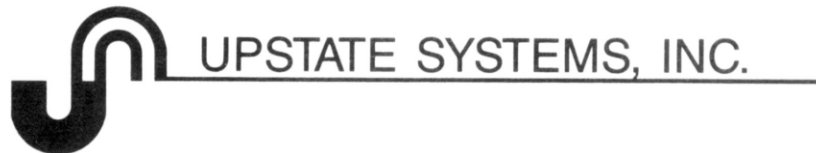
Or you can ask for a copy at the parts counter. EZ-Zone replacement parts that are unique to EZ-Zone and **no longer available** are:

Version 7.8 Master Controller	p/n 2ZZC004708624
Version 8.0 Master Controller	p/n 2ZZC004708724
Version 7.8 Zone Controller	p/n 2ZZC004708824
Version 8.0 Zone Controller	p/n 2ZZC004708924

The zone sensors, SAT sensors, and duct pressure transducers remain the same for both EZ-Zone and Meridian. The current part numbers listed below are still available for both EZ-Zone and Meridian.

Zone Sensor Plain	p/n 2ZTS004704024
Zone Sensor w/override	p/n 2ZTO004704024
Zone Sensor w/setpoint adjust	p/n 2ZTA004704124
Zone Sensor w/override and adjust	p/n 2ZTB004704124
Supply Air Temp Sensor 6" Probe	p/n 2ZDS004700124
Supply Air Temp Sensor 12" Probe	p/n 2ZDS004700224
Duct Pressure Transducer	p/n 2ZPS004704324
Static Pressure Probe	p/n 2ZSP004704424

-Rob Ambrosetti



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(Watch for an announcement of our new  
Albany address and phone number!)