

Things We Do Differently...and Why!

Purge Welding - Oxygen in the air combines with copper to form surface copper oxide. We see this on copper tube as a light to dark brown discoloration. To prevent this oxide formation inside the copper pipe and fittings dry nitrogen is purged through them during the brazing process. If purge welding is not done or not done correctly it will drastically shorten the life of all the system components. This will insure a very clean system that will provide years of trouble free service.



Pressure Testing – Pressure testing all brazed joints is very important to make sure there are no leaks in your new system that can cause unnecessary service calls in the future. We pressure test all of our systems at 300 psi with dry nitrogen for a minimum of 30 min to make sure all of our brazed joints are leak free. This will insure a leak free system that will provide years of trouble free service.



Deep Evacuation – A proper evacuation is required to remove all moisture from the inside of all the installed components. Moisture in a system is very harmful, it reduces the capacity of the system, causes freezing of metering devices and when mixed with refrigerant creates acid which drastically reduces the life of all system components. We monitor our evacuations with a micron gauge to make sure the vacuum is deep enough and left long enough to remove all the moisture. Our technicians verify this by allowing the system to maintain a vacuum of 500 microns or less for at least 20 minutes once isolated from the vacuum pump. This will insure a very dry system that will provide years of trouble free service.



Liquid Line Filter Dryer – A liquid line filter dryer is installed to absorb any moisture and catch any contaminants that may be introduced into the system during future service.



Centrotherm Gasketed Poly Propylene Venting Systems – Poly Propylene venting systems were specifically designed for high efficiency furnaces, boilers and water heaters.

All the joints are connected together with a gasket to prevent any leaks of combusted flue gases or condensate and can be easily taken apart for future service.

The fittings are also specifically designed for this by building the proper grade for drainage into them and they are all rated for temperatures appropriate for this application. In contrast to PVC which was designed for drain and waste it has a lower temperature threshold, none of the fittings were designed for proper grade so undue stress will be created at joints and primer and glue are required to bond the joints.

This glue and primer will produce VOC's that reduce the indoor air quality of your home and future service will require pipe and fittings to be cut and re-glued. These are the reasons we strongly believe it is worth the investment in a proper venting system that is designed for this use and will provide years of trouble free use and allow for future ease of service.



New Gas Shut Off - When we install a new furnace or water heater we always install a new ¼ turn ball type gas safety shut off valve that does not require any tools for you to be able to rapidly and easily shut the gas off during an emergency situation.



New Gas Flex Connector - When we install a new furnace or water heater we always install a new flexible gas line connector. This helps with the transmission of noise and provides some movement of the equipment due to frost heave without putting unnecessary strain on the gas line.



Combustion Analysis – When installing any kind of fuel burning appliance but especially high efficiency appliances it is of utmost importance that proper combustion be achieved to ensure the appliance is operating correctly, at maximum efficiency and safely.

The only way to do this properly is with a high quality combustion analyzer. We use Bacharach combustion analyzers to check for proper combustion by making sure that the readings of O2, CO2, CO, exhaust stack temperature and efficiency are all within the manufacturers specifications.



High Capacity Media Filter - The EZ Flex system provides whole home air filtration using a high efficiency filter.

Designed to keep air flowing cleanly and efficiently through your home, this cabinet air filtration product is a convenient and affordable way to improve indoor air quality and system performance.

Even replacing the filter is a breeze.



NATE Certified Technicians and Lead Installers - Founded in 1997, North American Technician Excellence (NATE) is the nation's largest non-profit certification organization for heating, ventilation, air conditioning and refrigeration technicians. Headquartered in Arlington, VA, NATE is the certification organization governed, owned, operated, developed and supported by the entire HVACR industry. NATE certified technicians are recognized as meeting the highest standards for knowledgeable installation and services of HVAC/R equipment and systems. Because NATE certified technicians meet those high industry established standards, it is more likely that they will install and service systems right the first time

