



NAC Message

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Our Mission

To deliver total building solutions that operate efficiently, are sustainable, and make environments safe, secure and comfortable.

Our Vision

To provide solutions by understanding customer needs, leveraging technologies, maximizing efficiencies, building trusted relationships and empowering employees success.

Our Values

Safety

Safe environments through planning and execution.

Customers

Develop exceptional partnerships through customer-first philosophy.

Integrity

Fair, Honest and truthful to each customer, each employee and to the community as a whole.

Quality

Best-in-class results, driven by decades of experience.

Innovation

Utilize latest technologies to maximize building safety and efficiencies.

Single-Source

Put all your needs in the industry's most capable hands with NAC's full service capabilities.

2019 ALERTON PLATINUM DEALER

NAC is proud to make Alerton's Top 13 Platinum Dealers list, again!

In May, 2019, Alerton announced the 13 Platinum Dealers throughout the world. NAC is the only Platinum Dealer in MN and the entire Midwest. Each of the 13 Platinum Dealers achieved this status by delivering market leading results in the areas of sales, growth, and customer service.



Employee Spotlight

The NAC crew at Anoka HS -Tinnars, Fitters, Plumbers, and Electricians - after the *Minnesota Safety Stand-down*.

Thank you to everyone for participating!

Knowing the hazards of trenching and excavation can help save lives at work, at home, and on vacation. *Remember an unprotected trench is an early grave.*

Got a good photo to include in the newsletter? Send it to shagen@nac-hvac.com.



Jean Sluss, has retired after 13 years, 1 month and 13 days of hard work and loyalty at NAC!

She will be spending time with her family, and taking road-trips across the country, visiting national parks with her husband, Bob.

We will certainly miss her greeting us every morning at the front desk. Best wishes Jean!

HAPPY RETIREMENT JEAN!

Jean Retired May 16th, 2019

Pipefitter Apprentice Competition

Update: Phase 2, Regionals!

Thor Mathison is a 5th year pipefitter apprentice in Local 455, graduated in April. He won the MN pipe trade's State Apprentice Competition in March, and is going to regionals at local 455 June 10th. Best of Luck Thor!

Service Coordination DAVE CARLSON

We want to thank all of you for working hard on your schedules and status changes. We are all working hard to get the Work Order system running better for our customers as well as for you. Again we appreciate your dedication to making NAC better and more efficient for all.

SERVICE NEW HIRES:

Ryan Skeie Local 34 joins NAC as a journey plumber with many years of experience in projects and service plumbing.

Kevin Nichols Local 539 joins NAC as a 2nd year

apprentice with 7 years of experience in general service and refrigeration.

Power wash crews have started and are working diligently through the start of coil cleaning. If you need a crew or assistance please talk to a service coordinator. We have 2 power washing crews consisting of 2 people in each crew.

Nick Schmidt	Local 455
Tom Niemczk	Local 455
Colin Weber	Local 539
Parker Tompkins	Local 539

NAC Updates

Construction Foremen Meeting

NAC held a foreman's meeting on June 6th to kick-off the summer construction season. We are working hard to streamline processes to add efficiencies and reduce any field frustrations. It was a great time to communicate this and share ideas.

Office Additions

To better support project managers and the field, we hired Chris Haglund and Samantha Kropp as Assistant Project Managers. They can assist you if you cannot reach your project manager and help with processes, like Bluebeam, if you need it. Nicole Bishop is now our Project Accountant and is responsible for the financial piece; all billings, costs, budgets, etc., and making sure projects track correctly in the system. Sue Steuernagel is now our Accounts Payable Administrator.

Other new hires in the office we are excited to have are Kyle Heinsch, Electrical Project Manager and Estimator and Glen Hubble, Account Manager for service.

Office New Hires

Brian Wallace—Purchasing

Lars Bischoff—Shipping/Receiving

Kyle Heinsch—Electrical PM

Glen Hubble—Account Mngr Service

Christopher Haglund—Assistant PM

Samantha Kropp— Assistant PM

Welcome back to:

Tatum Huntress : Fab Shop summer helper

Conrad Johnson: Warehouse

Purchasing & Warehouse

NAC has made some changes in the office to better support our service and construction projects. Brian Wallace, as purchasing manager, is responsible to get what you need, at the right price, to keep your project moving smoothly. Don, who has done a fantastic job with shipping and receiving processes, is moving into purchasing to work with Brian. Don will still oversee shipping and receiving and we welcome Lars Bischoff, who is now doing shipping and receiving.



HVAC Troubleshooting Tips:

York Central Microchannel Unit Charging

One of the best features of our microchannel units is the smaller size of the unit, which is made possible by the size of the microchannel condenser coil used in each unit. This smaller sized condenser coil results in a refrigeration system that requires less refrigerant than a comparable unit with a tube-and-fin condenser coil. The amount of factory charge is up to 50% less than tube-and-fin units. Because of the unique design of these coils and the fact that they use about half of the refrigerant needed for conventional “tube and fin” coils, **charging of these units is critical**. It is very easy to overcharge a unit with a microchannel coil. The flow through these coils is what is referred to as “parallel flow”, which means in the top portion of the coil, all the refrigerant flows in 1 direction to *de-superheat* the refrigerant and then enters into a header where it drops down to the bottom part of the coil where the refrigerant is sub-cooled providing a solid column of liquid refrigerant so the metering device can function properly.

Recommended Procedures for Charging a Unit With a Microchannel Coil

- 1) On any NEW INSTALLATION, accurately measure the length of the correctly sized line set.
- 2) Weigh in the charge based on coil and line set adds published in the Tabular Data sheet for the unit you are installing.
- 3) Allow system to operate at least 15 to 20 minutes for charge to stabilize. Anytime you add or remove refrigerant, it is *critical* to allow this time for the refrigerant to circulate and stabilize in the system before adding or removing more refrigerant.
- 4) Check head pressure per charging chart on unit. All residential units have this chart on the side of the unit near the data plate.

5) Check superheat (for indoor orifice metering device) or subcooling (for indoor TXV metering device). This information is also on the side of the unit by the data plate.

- When it is hot outside the load will be high and the txv will be open. Refrigerant will be at full flow. Subcool should be set on the lower end of the Factory recommended amount under these conditions.
- When it is cool outside the evaporator load will be lower and the txv will close off, and the extra refrigerant will stack up into the condenser. This extra refrigerant can cause nuisance high pressure trips. Charging under cool ambient conditions, set to high end subcooling. Block the condenser to simulate warm day. Maintain 100F sat Cond Temp. (**Tip: Garbage bags work to evenly block the condenser**).
- Test start the unit a many times with the evaporator load satisfied if you can get lower the space temp in a timely manner.

6) When in doubt, verify operation of system per the information in the Service/Condenser Application Guide (438317-UAG-B-0409) available through your local YORK branch.

Other things of Significance to note:

HVAC technicians are tempted to pump down a system that has a microchannel condenser coil. This practice can result in damage to the compressor or condenser coil. Therefore, **THE PUMP DOWN OF REFRIGERANT INTO A MICROCHANNEL UNIT IS NOT APPROVED UNDER ANY CIRCUMSTANCE.**

Cleaning Microchannel Coils: Use of chemicals is not required or recommended. Low pressure water is recommended. High pressure spraying is not recommended.

Safety Focus

New Hires and Summer Rush: Help keep our jobsites safe this summer by doing frequent inspections that identify, anticipate, and control hazards. Fall Hazards, muscle strains and sprains, and cuts are our biggest risks, so keep an eye on new hires and remind them of ways to work safely. As the weather gets hotter and more humid, ensure everyone stays hydrated and watch for signs of heat illness.

Permit Required Confined Spaces

Confined spaces are big enough to enter, hard to get into or get out of, and not meant for continuous occupancy. If severe hazards are present or introduced, it becomes a permit required confined space. Even an attic can be considered a permit required space (PRCS) if it contains hazardous materials, chemicals, excessive heat, or requires other special precautions to safely enter and perform work.

Each day you enter, fill out a permit to help identify and control all hazards, make a valid rescue plan, and train all involved. Have the attendant stationed outside the space to monitor entrants' safety and health, and enact the rescue plan if needed. Entrants shall wear 4-gas monitor.

If you are performing work in a confined space, contact NAC's Safety for an assessment and training.

Product and Chemical Safety

Hazard Communication, SDS Book, GHS, and MN Right to Know: Chemical safety

When working at a client site, you may be working near chemicals that require special precautions. The clients must inform you of the precautions and hazard identification if you are affected, so you can work safely. NAC maintains an SDS of the chemicals we use, available on our website. If you transfer product into a secondary container, make sure you label it. If you ever have concerns about a chemical, review the SDS or ask NAC Safety to help.

First Aid and BBP

All foremen should have first aid training. Take advantage of your union's training opportunities so you can take swift action if an injury occurs. Remember the *Precautionary Principle*: always assume body fluids contain pathogens, use PPE and wash hands well after handling soiled material. Seal in plastic bags and dispose properly.

Remember, if you have a safety photo to share, send in to Stephanie at shagen@nac-hvac.com. Or use the Safety Spot Check on our employee website.

Announcements:

Upcoming Tuesday Night Training classes:

- 06/18/2019 Electrical Troubleshooting.
- 06/25/2019 Schematic Reading classes
- 07/02/2019 Refrigeration Basics

Purchasing

Send all order requests to: purchasing@nac-hvac.com. Please try to send separate orders for tools, rentals, fabrication, and material orders. It helps us ensure you get all your items in a timely manner. Order 3 days ahead to guarantee deliveries on-time. Emergency situations? Order by noon the day before, and clarify details with Brian. Don't forget to include your job #, cost codes, and item descriptions with product specs. We don't know your job's specifications, and don't want to send you the wrong equipment. Delivery date needed, any delivery details and contact person on site should be included.