NEWS & VIEWS

September,2018

The Pacific NW Heating Cooling Association Serving Oregon and SW Washington

September 13th @ NW College of Construction



The September ORACCA meeting will be held at the NW College of Construction, 8111 NE Holman St, Portland, OR 97218 at 11:30AM,, Thursday, September 13, 2018.

This meeting is sponsored by Geary Pacific and lunch is provided by Emerson/White Rodgers

Our presenter is Tim Burke Educational, Applications and Technical Services Manager | Emerson | White-Rodgers. His presentation will deal with *Dual Fuel Heat Pumps and Staging Options* This presentation qualifies for 1.0 NATE CEU and 1.0 CCB credit.

This training explains thermostat control choices available to a building designer in controlling the balance point staging and operation of a dual fuel heat pump to enhance energy efficiency and occupant comfort.

The course is taught from an HVAC building design standpoint. This course will give practical information that can be used by building design consultants in the design of Dual Fuel Heat Pump applications.



White-Rodgers

After completing this course, attendees will have an understanding and be able to apply knowledge in the application of:

- 1- Dual Fuel Heat pump system terminology
- 2- Manual "J", bin temperature, and equipment impacts on OAT balance point
 - a. Balance point calculations
- 3- Outdoor Sensors versus
 Algorithm Logic
 a. Comparative
 between OAT sensors and
 logic, Pros & Cons
- 4- Impact of comfort versus economy of operation
- 5- Heat Pump Defrost and impacts on performance and cost of operation

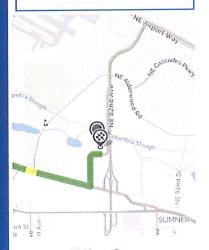
Join us for lunch and a presentation vital to sales personnel, technicians and owners alike.



P.O. Box 87907 Vancover, WA. 98687-7907 360-834-3805 dick@oracca.org

Inside This Issue

| September Meeting | 1 . |
|-------------------|-----|
| Gas Guage Code | 2 |
| Sponsorship | 3 |
| Calendar | 4 |



What?

Emerson/White Rodgers Design Criteria

When?

11:30AM - 09/13/18 NW College of Construction 8111 NE Holman St, Portland, OR 97218

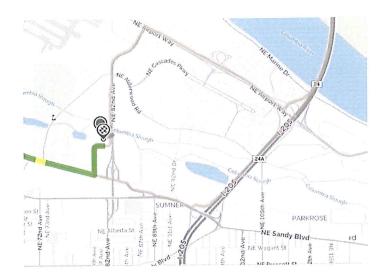
Thursday, Sept. 13, 2018 11:30AM

NW College of Construction

Emerson/White Rodgers

<u>Dual Fuel Heat Pumps</u>

<u>and Staging Options</u>



Do you know the code for gauges and what gauge for what LB of gas and what to pump it to and for how long?

Well now you do! It is listed here below and on the ORACCA website. Use this link to find it on the net. http://www.oracca.org/gas-gauge-code-clarification/ Compliments of Loren Watts.

Sections G2418.4 & G2418.4.1 of the 2017 Oregon Residential Specialty Code (ORSC) and Sections C406.4 & C406.4.1 of the 2014 Oregon Mechanical Specialty Code (OMSC) state in part that, "....Mechanical gauges used to measure test pressures shall have a range such that the highest end of the scale is not greater than five times the test pressure." "Gas-piping systems under 14 inches water column (1/2# gas typ) shall be tested at a pressure not less than 10 pounds per square inch gauge. Test pressures shall be held for not less than 15 minutes with no perceptible drop in pressure. For welded piping and piping carrying gas at pressures exceeding 14 inches water column pressure (2# typ), the test pressure shall be at least 60 pounds per square inch for not less than 30 minutes."

If the test gauge manufacturer wants a higher scale on their gauge to test a 60 psi pressure than an 80# gauge would be acceptable per the above code but it's not a requirement in code that an 80# gauge is required. Usually we see 30# gauges on a ½# system and 60-90 psi gauges o the 2# systems.

Standard pressure gas lines need 12 psi for 15 min, 2lb gas lines need 60 psi for 15 min. so if you use a 30 Lb gauge you can leave it at 15 psi for standard pressure, if you use a 60 PSI gauge for 2 LB then you need to max it out at 60 PSI or use a 90 PSI gauge and put it at 65 PSI.



ORACCA distributes NEWS & VIEWS on a monthly basis to members and selected non-members, so that all those in the HVAC/R industry can keep informed of issues regarding our trade, and Chapter activities. We hope the non-members will see this newsletter as an example of the quality services that ORACCA provides. Contributions or suggestions can be faxed to Association Headquarters at 503-914-1999 or emailed to dick@oracca.org





Making a Difference in Air

www.johnsonair.com

It's Our Business to Protect Yours



SPONSOR OF THE MONTH



Lindsey Axberg 4286 NE 185th Dr. Portland, OR. 97230 503-262-8202

. TRAINING/TESTING

NATE Test, On Demand - Call ORACCA for details and scheduling

<u>CFC Test</u>, On Demand - Call ORACCA for details and scheduling

Brazing Certification Test, October 19, 2018, PCC @ Swan Island Facilty

Not a member? We'd love to serve you, too.

For additional information visit www.oracca.org or call 360-834-3805. Email dick@oracca.org

PRESIDENT Mark DeFrancisco Heat Relief 503/261-9915 VICE-PRESIDENT Dan Pfau BlairCo 360-573-1331 SEC-TREASURER Loren Watts Watts Heating 360-786-2858

LEGISLATIVE-CODES - ENERGY

Mert Gagle Gagle's Htg. & AC 503/581-2972

IMMED. PAST PRESIDENT

Buck Sheppard

503/ 936-9672

EDUCATION/ APPRENTICESHIP TRADE SHOW/ PROMOTION

Planning Ahead

MEETING DATES

- January 18 Codes Update & Utility Update@NW Natural, Sherwood NATE

 CEU (1.0), CCB CE (1.0)
- B. February 1 Honeywell @ MarHy NATE CEU (1.0), CCB CE (1.0)
- C. March 1- Cyber Security Presentation @ YORK, Tigard, OR- NATE CEU (1.0),

 CCB CE (1.0)
- D. April 19 Codes Update, Mfg. Reps Presentation @ NW Natural, Sherwood-NATE CEU (1.0), CCB CE (2.0)
- E. May 3 Training Day @ Johnstone Corp. NATE CEU (8.0)
- F. June 7 AIREFCO Presentation @ TBD- NATE CEU (1.0), CCB CE (1.0)
- E June 9 Shoot Out Canby Rod & Gun Club
- G July 16 Golf Tournamnet Oregon City Golf Course
- G July 19 Codes Update@NW Natural, Sherwood NATE CEU (1.0) & CCB CE
- H. August No Meeting
- I. Sept. 13 Geary Pacific (Emerson/White Rodgers) Presentation

@ NW Coll. of Constr. - NATE CEU (1.0), CCB CE (1.0)

- October 18 Codes Update@NW Natural, Sherwood NATE CEU (1.0) & CCB CE 2.0
- K. Nov. 1 Thermal Presentation @ NW Coll. of Constr. NATE CEU (1.0), CCB CE (1.0)
- L. Dec. 6 Xmas Party @ Lennox

Visit our Website for information on the association's activities. www.oracca.org



BOARD OF DIRECTORS

Mark DeFrancisco
Clyde Burton
Mert Gagle
Dennis Klink
Dan Pfau
Randy Preston
Buck Sheppard
Travis Smith
Cory Streeter
Loren Watts
Kelly Wilhite

ASSOC. BOARD MBRS

Keith Barrow
Eric Falk
Larry Johnson
John Karasaki
Stewart Mercer
Erik Scholibo
Jeff Schmidt

EXECUTIVE DIRECTOR

Suzanne M. Stilwill
Association
Management
360/834-3805
Fax: 503/914-1999

"We Meet on Thursday!

ORACCA

Oregon Air Conditioning Contractors of America P.O. Box 87907 Vancouver, WA. 98687-7907 360-834-3805



| -To: | | |
|------|--|--|
| | | |
| | | |
| | | |

Not a member? We'd love to serve you, too.



ORACCA Monthly Meeting

Geary Pacific Supply



Join Us for Emerson/White-Rodgers ORACCA Monthly Meeting

Instructor: Tim Burke | Educational, Applications and Technical Services Manager | Emerson | White-Rodgers

Date: Thursday, September 13, 2018

Time: **11:30am - 1:00pm**

Location: Northwest College of Construction 8111 NE Holman St Portland, OR 97218 *** Room 101***

Lunch provided by Emerson/White-Rodgers

Dual Fuel Heat Pumps and Staging Options 1.0 Hours

After completing this course, attendees should understand the theory of Dual Fuel applications, design considerations and their impact on Balance Point Calculations.

This training explains thermostat control choices available to a building designer in controlling the balance point staging and operation of a dual fuel heat pump to enhance energy efficiency and occupant comfort.

RSVP: Lindsey Axberg 503-262-8202 Email: Lindsey@gearypacific.com

The course is taught from an HVAC building design standpoint. This course will give practical information that can be used by building design consultants in the design of Dual Fuel Heat Pump applications.

After completing this course, attendees will have an understanding and be able to apply knowledge in the application of:

- Dual Fuel Heat Pump system terminology
- Manual "J", bin temperature and equipment impacts on OAT balance point a. Balance point calculations
- Outdoor Sensors versus Algorithm Logic
 - a. Comparative between OAT sensors and logic, Pros & Cons
- Impact of comfort versus economy of operation
- 5. Heat Pump Defrost and impacts on performance and cost of operation