

METROPOLITAN NY CHAPTER
Refrigeration Service Engineers Society

Continuing Education for the HVAC/R Industry

“Better Service Through Knowledge”

March 2024



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Metro NY RSES



EDUCATIONAL MEETING

March 13th, 2024 @ 7:30pm

Dinner at 6:00pm

At *TAVERNA KOS* 41-19 23rd Ave., Astoria

ECM MOTORS

- **Traditional HVAC Motors**
- **ECM Technology and History**
- **ECM Motor Types – Constant Torque, Constant Speed, Constant Airflow**
- **EM (constant Torque) Motor – Replacement for X-13 Constant Torque ECM Blower Motor**
- **Troubleshooting using the ECM PRO**
- **IM Motor (constant torque) – PSC to ECM Upgrade for Blower Motors**
- **OM Motor (constant speed) – PSC to ECM Upgrade for Condenser Fan Motors**

Presented by: Alejandro Reanos, CK Sales

PRESIDENT'S MESSAGE

The transition to A2L refrigerants is going to affect all of us. The new refrigerant requires new tools. Everything from gauges and hoses to vacuum pumps are different. That means you will eventually have to upgrade your tools to accommodate the new A2L refrigerants. So if you need to replace any of your current tools be sure what you buy is A2L compatible. Even if you are not currently selling any A2L equipment you may be called to service it.

We are currently looking into the possibility of running an in-depth seminar on “*Manual J*” which deals with **PROPER & ACCURATE** HVAC load calculation. If you are interested in the Manual J seminar, send me an email:

president@metronyrse.org requesting to be notified when registration is open. Put “Manual J” in subject line.

Join us on March 13th as we learn all about ECM motors.

Drew Garda, President

Metropolitan NY Chapter, RSES

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TEST YOUR KNOWLEDGE *IN HEATING*

1. A downflow furnace is also called a:
a) high-boy b) low-boy c) horizontal
d) counterflow
2. The fan blades on forced-air furnaces are:
a) backward-curved b) forward-curved
c) flat d) propeller-shaped
3. The type of fuel that requires the greatest chimney draft is:
a) gas b) oil c) coal d) electric
4. A thermocouple produces how many millivolts?
a) 25 to 30 b) 35 to 50 c) 500 to 600
d) 750 to 900
5. The maximum safety drop-out time for units with thermocouples is:
a) 1 minute b) 1 1/2 minutes
c) 2 1/2 minutes d) 4 minutes

6. Air that is mixed with gas before burning is called:
a) outside air b) total combustion air
c) secondary air d) primary air
7. Cold air returns from bathrooms should be:
a) same size as the supply b) 1" up from the floor
c) omitted d) supplied with a damper
8. A burner should be run for a minimum of how many minutes before combustion tests are made?
a) 1 to 2 b) 5 to 10 c) 15 to 20
d) 30 to 45
9. On a bi-metal thermostat, the metal used in addition to copper is:
a) zinc b) invar c) chromium
d) iron
10. A self-generating system uses its own control circuit of how many volts or millivolts?
a) 30mv b) 750 mv c) 24v
d) 120v

COKE FACTS

- In many states (in the USA) the highway patrol carries two gallons of Coke in the trunk to remove blood from the highway after a car accident.
- You can put a T-bone steak in a bowl of Coke and it will be gone in two days.
- To clean a toilet: Pour a can of Coca-Cola into the toilet bowl and let the "real thing" sit for one hour, then flush clean. The citric acid in Coke removes stains from vitreous china.
- To remove rust spots from chrome car bumpers: Rub the bumper with a crumpled-up piece of aluminum foil dipped in Coca-Cola.
- To clean corrosion from car battery terminals: Pour a

- can of Coke over the terminals to bubble away the corrosion.
- To loosen a rusted bolt: Applying a cloth soaked in Coca-Cola to the rusted bolt for several minutes.
- To bake a moist ham: Empty a can of Coke into the baking pan, wrap the ham in aluminum foil, and bake. Thirty minutes before the ham is finished, remove the foil, allowing the drippings to mix with the Coke for a sumptuous brown gravy.
- To remove grease from clothes: Empty a can of Coke into a load of greasy clothes, add detergent, and run through a regular cycle. The Coca-Cola will help loosen grease stains. It will also clean road haze from your windshield.

A woman shoots her husband. Then she holds him under water for over 5 minutes. Finally, she hangs him. But 5 minutes later they both go out together and enjoy a wonderful dinner.

How can this be?

Answer elsewhere in this newsletter—look for it!

ANSWERS TO TEST YOUR KNOWLEDGE
1.D 2.B 3.C 4.A 5.C 6.D
7.C 8.B 9.C 10.B

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