

METROPOLITAN NY CHAPTER
Refrigeration Service Engineers Society

Continuing Education for the HVAC/R Industry

“Better Service Through Knowledge”

January 2024



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Metro NY RSES



EDUCATIONAL MEETING

January 10th, 2024 @ 7:30pm

Dinner at 6:15pm

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

Bosch combi-boilers, tankless water heating, and heat pumps.

- ⇒ The benefits of Bosch combi boilers and tankless water heaters for their efficiency and space saving designs provide the highest quality reliability
- ⇒ Cold Climate Heat pumps that provide an efficient and reliable solution for heating and cooling with pending gas restrictions

Presented by:

Tim Warnecke

Technical Lead Trainer

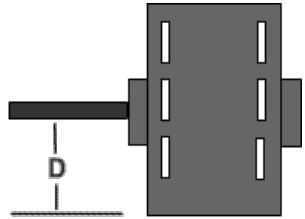
Platsky HVAC

NEMA Motor Frame Sizes

The National Electrical Manufacturers Association (NEMA) has established standards for designating mechanical dimensions for motors. The smaller motors most commonly used in our industry are referred to as fractional horsepower motors. The NEMA frame number refers to the “D” dimension, expressed in sixteenths of an inch. For example, the “D” dimension of 48 frame motor is 48/16” or 3”; and a 56 frame motor has a “D” dimension of 56/16” or 3-1/2”.

Letter suffixes are often added to a standard NEMA frame size to provide information on additional mechanical features, such as mounting or shaft dimensions. The most common standardized suffixes are:

“J” -	Mounting flange with 4-1/2” rabbet and a threaded shaft. Most commonly used in pump applications
“C” -	Mounting flange with 4-1/2” rabbet and a 5/8” keyed shaft. Most commonly used for gearboxes
“N” -	Mounting flange with 6-3/8” rabbet and a 1/2” shaft with setscrew flat. Usually an oil burner motor
“M” -	Mounting flange with 5-1/2” rabbet and a 1/2” shaft with setscrew flat. Usually an oil burner motor
“Z” -	Motor with a non-standard shaft size for its frame size
“Y” -	Motor with a non-standard mounting, such as a hub mount used on sump or carbonator pumps.

<u>Frame</u>	<u>Shaft Diameter</u>	<u>Shaft Length</u>	
42	3/8” with flat	varies	
48	1/2” with flat	1-5/8”	
56	5/8” with key	1-7/8”	

PRESIDENT'S MESSAGE

We hope you have had a safe and enjoyable Holiday. Rich Bruno is working hard to set up informative educational presentations. Suggestions are always appreciated just email Rich at: RichBrunoNY@aol.com.

If anyone is going to attend the 2024 AHR Expo in Chicago this month please keep the chapter's need for educational topics in mind. If you see something interesting please let Rich Bruno know. He can be reached at: RichBrunoNY@aol.com.

2024 brings a 30% reduction in refrigerant production. Refrigerant prices have already started to rise. Remember to review your refrigerant prices **regularly** so that you do not end up selling refrigerant below your replacement cost.

As we begin a new year, I encourage you to start/continue to attend our monthly meetings. It is a chance to learn, establish contacts and meet other service contacts.

Drew Garda, President

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Bosch combi-boilers, tankless water heating, and heat pumps

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If you have any suggestions or requests for **FUTURE EDUCATIONAL PROGRAMS**, please let us know!

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