

# METROPOLITAN NY CHAPTER Refrigeration Service Engineers Society

Continuing Education for the HVAC/R Industry

“Better Service Through Knowledge”

October 2017

WWW.METRONYRSES.ORG

Find us on Facebook

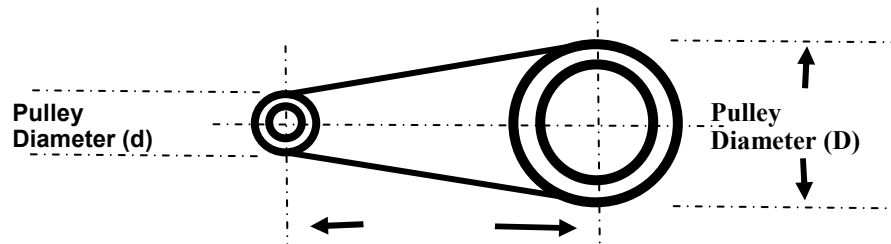


## Belt Length Formula

Replacing fan belts is a relatively common task for many service technicians. Normally, the size of a replacement is obtained from the old belt. But occasionally the correct size of the replacement belt cannot be determined from the old belt, due to the fact that it is either missing or so badly damaged its size cannot be determined.

When this occurs, a technician can determine the belt size to use by measuring the center line distance between the two pulleys and the diameter of each pulley. Using the formula below the approximate length of the belt can be determined.

$$\text{Approximate Length: } L = 2C + 1.57(D + d)$$



L = Length of belt

C = Center Distance

D = Pitch diameter of large pulley

d = Pitch diameter of small pulley

## Checking Fuses

When testing if a fuse is open, many times a technician will measure if there is a voltage drop across a fuse. If a voltage drop is measured, then the fuse is open; however, this may not always be an accurate method to use. ***In order for this method to work, there must not be another open circuit upstream of the fuse.*** If there is another open circuit upstream, no voltage drop will be measured even though the fuse is opened.

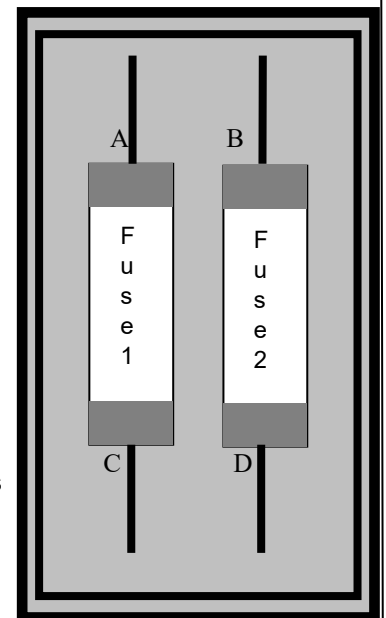
A better method to use is to measure the voltages across the fuses in a criss-cross fashion.

For example: Suppose we have a dual fused disconnect with 240 volts applied. First you measure the voltage across points A & B; you should measure 240 volts.

Next you measure across A & D. If you measure 240 volts across A & D, then fuse #2 is okay. If a lower voltage were measured (110 volts or 0 volts) fuse #2 is open.

Next you measure the voltage across B & C. Again if you measure 240 volts across B & C, then fuse #1 is okay. If a lower voltage were measured (110 volts or 0 volts) then fuse #1 is open.

This method will always work no matter what is happening upstream of the fuses.





**HVACR**  
**TECHNICAL**  
**TRAINING**

Coming to the  
Metro New York area

Recommended for:  
HVACR Service Techs  
HVACR Electricians  
HVACR Contractors  
HVACR Students

**SATURDAY,**  
**November 18, 2017**  
**8:30am – 5:00pm**

**FULL DAY**  
**with Hot Lunch**  
**served**

Location:  
Riccardo's Catering  
21-01 24th Avenue  
Astoria, N.Y. 11102  
(718) 721-7777

# Training Seminar

## Servicing HVAC Systems

Presented By Recognized Trainers in the HVACR Industry

YOU WILL LEARN:

SERVICING AND TROUBLESHOOTING GAS HEATING

- Proper Techniques For Preventive Maintenance (and avoiding "No-Heat" Calls)
- Eliminating Callbacks
- Making Service Calls Profitable

TROUBLESHOOTING AIR CONDITIONING SYSTEMS – A SYSTEMATIC APPROACH

- First Steps in Troubleshooting
- The Visual Inspection
- Knowing The Norms
- Read and Record
- Identifying Common Mechanical System Problems
- Identifying Common Air Flow Issues
- Identifying Some Uncommon System Problems

These programs utilize lecture, field examples, computerized demonstrations, handout materials and encourages audience participation. A certificate of completion will be mailed to all participants.

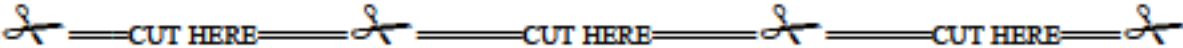
The cost for full program, including morning & afternoon refreshment breaks and full service, hot sit-down lunch is:  
\$130 - (\$105 for RSES & OESP members)

Brought to you by:  
R.S.E.S.

**REFRIGERATION SERVICE ENGINEERS SOCIETY**  
**METROPOLITAN NY CHAPTER**

**For Further Information Call:**  
**Stan Hollander @ 718 232-6679**

**REGISTER EARLY – SEATING LIMITED**



SERVICING HVAC SYSTEMS SEMINAR 11/18/17

RSES Membership # (if applicable) \_\_\_\_\_

NAME \_\_\_\_\_ COMPANY NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

WANT TO USE CREDIT CARD? # \_\_\_\_\_ EXP. DATE \_\_\_\_\_

**MAKE CHECKS PAYABLE TO: METRO NY RSES (or call 718 232-6679 w/info)**

**MAIL CHECKS ALONG WITH THIS REGISTRATION FORM (DETACHED) TO:**  
**STAN HOLLANDER; 1837 61<sup>st</sup> STREET, BROOKLYN, NY 11204**

**JOHNSTONE** **HVAC/R**  
Parts  
Supplies  
Equipment

27-01 BROOKLYN QUEENS  
EXPRESSWAY WEST  
WOODSIDE, NY 11377

FAX (718) 274-4972

Large  
Local  
Stock  
Free Catalogue

**718-545-4896**  
WHOLESALE ONLY

**Supco**

SEALED UNIT  
PARTS CO., INC.

P.O. BOX 21  
2230 LANDMARK PLACE  
ALLENWOOD, NJ 08720 USA  
(732) 223-6644  
FAX: (732) 223-1617

**H&L**  
HEATING SUPPLY, Inc.  
COMMERCIAL / INDUSTRIAL /  
RESIDENTIAL

AUTHORIZED DEALER OF  
• HONEYWELL • McDONNELL MILLER •  
• FIREYE • HEAT TIMER •  
• FUEL WATCHMAN •  
• BELL AND GOSSETT • ASCO •  
• POWERFLAME BURNERS •  
• T.A.C. BUILDING AUTOMATION •  
• ECLIPSE GAS BOOSTER •  
• SIEMENS GAS TRAINS •  
• GRUNDFOS •

BRIAN T. O'NEILL  
BRIAN@HLHEATINGSUPPLY.COM

1077 CONEY ISLAND AVENUE  
1100 BROOKLYN, NY, 11230  
(718) 859-2424  
FAX (718) 859-5727

**UR**  
UNITED  
REFRIGERATION INC.  
Refrigeration, Air  
Conditioning, Heating,  
Supplies, Equipment & Parts

Jim Herlinger  
Branch Manager  
51-05 59<sup>th</sup> Place  
Woodside, NY 11377-7408

Tel: 718 476-2600  
Fax: 718 476-2648  
Branchv2@uri.com

**HALSEY** SUPPLY  
CO. INC.

FOR ALL YOUR  
•  
AIR CONDITIONING  
REFRIGERATION  
•  
EQUIPMENT  
PARTS SUPPLIES  
•  
EPA-CERTIFICATION TESTING

241 HALSEY STREET  
BROOKLYN, NY 11216

**(718) 574-4774**  
FAX (718) 574-4778

**RA**  
**RATHE**  
ASSOCIATES

EXPECT MORE  
& GET IT.

REPRESENTING THE  
INDUSTRY'S FINEST  
MANUFACTURERS

CERTIFIED FACTORY  
TRAINING BY  
INDUSTRY EXPERTS

LOOK TO US FOR ALL YOUR  
PLUMBING, HEATING & HVAC NEEDS

NY 631.822.1200  
NJ 908.753.4666 • fax 631.822.1400  
ratheassoc.com

**COMING TOPICS**

*Scotsman Ice Machines – New Machines,  
New Problems, New Fixes*

*Coil Treatment*

*Blower Basics*

*Torch Safety*

**COMPRESSORS –**  
*The Latest from Copeland*  
(to be rescheduled)

If you have any suggestions or requests for Future programs,  
please let us know!

**T  
H  
I  
S  
S  
P  
A  
C  
E**

**A  
V  
A  
I  
L  
A  
B  
L  
E**

**SEE US 1st**

**Sid Harvey's**  
WHOLESALE DISTRIBUTORS  
Refrigeration/AC/Heating

BROOKLYN (718) 257-3347  
10720 Avenue D

JAMAICA (718) 526-0330  
139-29 Queens Blvd.

MT. VERNON (914) 668-3631  
551 S. Columbus Ave.

**DUPONT**

**Fire Ice  
Mechanical Inc.**

HVAC/R Service Contractors

KURT J. EGGERT

Vogt Tube-Ice Authorized Dealer/  
Sales & Factory Certified Technicians  
Goldenrod Distributor,  
The Newest in Water Treatment Technology  
Air Conditioning & Refrigeration

Tel (718) 631-1503  
Fax (718) 279-4686

**ThermatiX Supply**

Plumbing, Heating, and Air  
Conditioning Supplies

"We keep you supplied  
7 days a week!"



73 Broadway, Hicksville, NY 11801  
toll free: (877) 390-9421  
tel: (516) 513-0985 / 0986  
fax: (516) 620-5942  
email: sales@thermatixsupply.com

**ABCO**

49-70 31st STREET  
L.I.C., NY 11101  
Phone: 718-937-9000  
Fax: 718-392-1296  
1-800-937-9000

**DUPONT**  
Suva®

**Riccardo's**  
*by the bridge*

**WEDDINGS**  
**OUR SPECIALTY**  
*Special Attention Given To*  
Dinner Dances • Company Parties  
Cocktail Parties • Business Meetings  
Fund Raisers • Fashion Shows  
Engagement Parties • Christenings  
*Special Discounts Given to Senior Citizens*

*Riccardo's*  
*by the bridge*  
21-01 24th Avenue, Astoria, NY 11102  
718 721-7777  
ANTHONY M. CORBISSERO  
RICHARD F. CORBISSERO

# METROPOLITAN NEW YORK CHAPTER, RSES

For Information Call: Stan Hollander, CMS (718) 232-6679

## ***CHAPTER OFFICERS AND BOARD OF DIRECTORS***

### **OFFICERS**

*PRESIDENT:* DREW GARDA  
*VICE-PRESIDENT:* *AVAILABLE*  
*SECRETARY:* NITO MEHRA  
*TREASURER:* STEVE AIELLO  
*SERGEANT-AT-ARMS:* KURT EGGERT

### **BOARD OF DIRECTORS**

*EDUCATIONAL DIRECTOR:* STAN HOLLANDER, CMS  
*EDUCATIONAL LIAISON:* RICH BRUNO  
*NEWSLETTER EDITORS:* STAN HOLLANDER, CMS  
HERB MEYER  
*BOARD MEMBERS:* JOHN PLAUT

***In the unlikely event of scheduled meeting cancellations,***

**Wednesday Oct 11th, 2017 at 7:30 pm**

at

**RICCARDO'S**  
21-01 24th Avenue, Astoria NY 11102

***Scotsman Ice Machines – New Machines,  
New Problems, New Fixes***

By

James Templeman—Scotsman Ice

## **PRESIDENT'S MESSAGE**

Are you willing to help out another technician with a problem? For most of you the answer is ***YES***. I see it at meetings when members discuss common problems or seek advice. Why not help out a lot of technicians by joining our Board of Directors? Our chapter has a great and active Board of Directors. In addition to being at the regular monthly chapter meeting, they meet once a month to conduct the chapter's business. At these meetings, speakers are reviewed, seminars planned and chapter business conducted. We are looking for more chapter members to join the Board of Directors. They would be able to provide fresh ideas for the chapter and contribute to future plans for the chapter. Not sure if you want to make the commitment? Give it a try. Talk to any Board member at the October meeting. Come to our next Board meeting. If you feel you can contribute and want to continue, that would be great. If it is not for you then, that is fine. At least you gave it a chance. Can't make it in October, no problem. We meet every month September thru May. Just talk to any Board member.