



# thermo- DYNAMIC NEWS



Volume 058-2

A publication of the H.M. Sweeny Co.®

Summer 2004

## The thermo-Dynamic News is BACK!

Many of you may remember this publication. Starting now, you will be receiving this free newsletter with all our new Sweeny events, updates on new products, birthdays, specials, educational programs, advice and anything you would like to contribute! Make sure you stop by your nearest H.M. Sweeny location and put your name on the mailing list so you NEVER have to miss another great opportunity!

Feel free to email us (hmsweeny@aol.com), fax us (301.322.1562) or call us (301.322.9100) and tell us your stories or events of your own that you'd want published!!!

Keep up to date with everything going on!

[www.hmsweeny.com](http://www.hmsweeny.com)

Upcoming events you don't want to miss:

### Summer Birthday Party - Monday, June 28 2004

Everyone's invited to a birthday party for the May, June, & July birthday people listed below! Come have some cake, chat, and enjoy the Sweeny sales specials! **Details below!**

### Salute to Local Heroes Day - Summer '04

Check [www.hmsweeny.com](http://www.hmsweeny.com) for details! Meet your local firefighters and EMS workers, and make deals with Klein tools! Snacks will be served!

### Motor Class - September

Find out all the secrets to motors! Go to [www.hmsweeny.com](http://www.hmsweeny.com) for registration form!

### Nascar Race day - Summer '04

In Annapolis... Check [www.hmsweeny.com](http://www.hmsweeny.com) for details!



## BIRTHDAY PARTY!

June 28, 2004 10am-2pm

Presents for the birthday people and goodies for everyone celebrating!

### May Birthdays!!

James Gaines May 19  
Ronald Jackson May 19  
Ed Heard May 20  
Ronald Horne May 20  
Bernie Salemie May 2  
Alfred Ornari May 5  
Carl Whitehead May 13  
William Savage May 6  
Troy Cartledge May 6  
Patrick Martinio May 8  
Jim Bechtold May 9  
Marcus Gorham May 10  
Ricky Price May 11  
Thomas Dickerson May 12  
Phillip Redman May 13  
James Patterson May 15  
David Lancaster May 16  
George Clark May 30  
Andre Simpson May 18  
Joe Cranford May 29  
Oscar Perez May 25  
Antonio Hart May 24  
David Lee May 20  
Brian Alleyne May 8  
Boris Johnson May 10  
Nathaniel Barnor May 4

### June Birthdays!!

Norman R Greenwell June 23  
Raphael Rice June 18  
Samuel Ngilt June 23  
Emanuel Aguilar June 28  
Douglas Whitley June 17  
Michael Waltz June 14  
Raymond Faunteroy June 13  
Eric Dreher June 13  
Phillip Dixon June 12  
Tony Barnes June 24  
Gary Bardynski June 3  
Louis Bose June 10  
Eugene Brim June 9  
D.C. Helton June 7  
William Padgett June 7  
Herbert Spencer June 26  
Willie Cheathorn June 1  
Ron Yee June 7  
David Joya June 7  
Levi Williamson June 5  
Charles Harriet June 5  
Joseph Freer June 5  
Charles Harried June 5  
John Wels June 27  
Eugene Brim June 9  
Cleveland Tyler II June 2  
Anthony Young June 3  
George Garrett June 26

### July Birthdays!!

Kevin Crael July 22  
Olson Samuel July 22  
Kevin Nelson July 17  
Dwayne Brown July 22  
John Butler July 28  
Barbara Spears July 28  
Joe Lyon July 30  
Robert Cunningham July 23  
Steven Washington July 27  
Royal Green July 16  
Joe Armiger July 2  
Buck Roddy July 15  
Kenneth Jones July 20  
Francis Briscoe July 15  
Kyle French July 15  
FJ Chesley July 15  
Charles Mahoney July 26  
Dakarai Uryuhart July 13  
Terry McCrea II July 12  
Roland Redmund July 10  
Don Jackson July 8  
Ron Yee July 7  
Joseph Martindale July 7  
John Horn July 7  
Sean Shorter July 6  
Tim Kenney July 16  
Buck Rodda July 15  
Brian Rock July 16

You must be present June  
28th to receive your  
birthday gift!



**Ice cream for everyone!!**

June 28 10am-2pm

**Don't miss out!!**

**Be here!**

LANDOVER, MD  
(301) 322-9100

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# RECAP of March & April

## Birthday Party & Klein Day

March 22, 2004 we celebrated all of our February, March & April birthdays. Klein Tools was also here with tons of sales. Hope everyone who came to celebrate had a great time, enjoyed the cake and birthday visitors, Happy Birthday and enjoy the present! Good to see you all again.

\*\* For more pictures go to  
[http://www.hmsweeny.com/klein\\_bday.html](http://www.hmsweeny.com/klein_bday.html) \*\*



## Heat Pump & Air Conditioning Class

March 26, 2004 H.M. Sweeny Co. held a Heat Pump and Air Conditioning class at the Best Western Hotel in Lanham. As you can see, it was a huge success - maybe too big because we had to add more chairs as everyone piled in. We all had a great time though!

\*\* For more pictures go to  
<http://www.hmsweeny.com/March26.html> \*\*

## Landover's Picnic & Trade Show

We held our Annual Picnic & Trade Show on April 14, 2004. Great turnout!! So nice to see everyone again, and to those who missed it, we missed you! There was a free vacuum pump clinic available to all who made an appearance, tons of door prizes, raffle prizes, great lunch, and tons more. We got lucky, the rain left us alone all day. We took almost 200 pictures just from that day so here are only some of them. ENJOY!!

\*\* For more pictures go to  
<http://www.hmsweeny.com/AprilTradeShow.html> \*\*



**Summertime!!!**  
**Don't forget to get your**  
**HOT**  
**summer items!!!**  
**Coil cleaners!**  
**Condenser Motors!! ...**

**Call NOW!**



## SALES POSITION OPEN!

**Looking for an amazing opportunity?**  
**Interested in outside or inside sales?**  
**Call Stephanie at (301) 322-9100 x19.**  
**Some experience in the HVAC field preferred. Self motivated, good attitude, great with people... think you fit these qualities?**

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# CONGRATULATIONS TOM!

*We would like to congratulate Thomas Angelos Backus, son of Angelos and Ann Backus, for his graduation as Juris Doctor from the University of Maryland School of Law. Thomas grew up at the Sweeny Company and all of us wish him the best in his future endeavors.*



## MOTOR CLASS coming up in September!!



Come to this **Motor class** and discover

ALL the secrets about MOTORS that you've always wanted to know.

**RPMs - HP - Rotation - Volts - Amps**

This will be invaluable knowledge that you don't want to miss!!

Space will be limited so make sure you sign up early!!

Look for details & registration form in the next thermodynamics or check online at

**[www.hmsweeny.com](http://www.hmsweeny.com)**



### YOU'LL GET YOURS...

But only if you're on our mailing list. Fill out and return this coupon and receive:

- Information on education classes
- Flyers showing Sweeny's Specials
- Your copy of the THERMO-DYNAMIC NEWS
- And more!! Don't miss out!!!

Fax this coupon today! (301) 322-1562

Attn: Stephanie or

just call (301) 322-9100 x19

Company: \_\_\_\_\_ Date: \_\_\_\_\_

Your Name: \_\_\_\_\_

Phone #: (\_\_\_\_) \_\_\_\_\_ Fax: \_\_\_\_\_

Address: \_\_\_\_\_

Please check which best indicates your type of business.

Heating\_\_ Oil Service\_\_ Electrical\_\_ Plumbing\_\_ Refrigeration\_\_  
Real Estate\_\_ Gas Service\_\_ Air Conditioning\_\_  
Apartment Maintenance\_\_  
Other, please specify \_\_\_\_\_

### Need your EPA Certification??

H.M. Sweeny's is an authorized  
EPA (CFC) Certification Center!!!

~Online computer testing~

~Immediate results~

~Appointments can be scheduled~

Monday-Friday

9am-2pm

For an appointment contact

**Stephanie**

Telephone: (301) 322-9100

Fax: (301) 322-1562



Bob Noyes

June 15, 1928 - February 19, 2004

*H.M. Sweeny Co. would like say how sorry we are for the loss of Noyes' owner, Bob Noyes. He was a great man, very respected and will be missed greatly.*

On February 19th Bob Noyes passed peacefully in his sleep with loved ones by his side. His life was a model for us all to follow.

In lieu of flowers the family requests that memorial contributions be sent to the Alzheimer's Association, 11240 Waples Mill Road Fairfax, Virginia 22030.

For more details you can go to their webpage:  
<http://www.nacgroup.com/>

**Don't forget to  
ask about our  
specials on  
HARD STARTS!!**

## Cleaning Condensing Coils - And you thought it wasn't important!

Unlike the evaporator coil, the condenser coil is exposed to unfiltered outdoor air—so it suffers much greater degradation due to dirt. The performance penalty of a dirty condenser makes this task one of the most cost-effective energy-efficiency practices available for rooftop unit maintenance.

A dirty coil reduces the cooling ability of the air blowing across the condenser coils. If the condensing temperature is raised from 95° Fahrenheit (F) to 105°F as a result, then cooling capacity will be cut by 7 percent and increase power consumption by 10 percent, with a net compressor efficiency reduction of 16 percent. Such performance degradation in a 10-ton unit operating at 9.0 EER for 2,000 hours per year at 8 cents per kilowatt-hour wastes about US\$250 per year in operating costs (Figure 1). It takes a technician about an hour to clean the condenser, which typically costs about \$50. This is money well spent—in this example, cleaning the unit would have a payback of just over two months, with a net annual savings of \$200.

The best tool for this maintenance job is a power washer that feeds cleaning solution into a high-pressure water flow. Some companies specialize in performing this type of cleaning for a competitive price. They typically use tank trucks and custom self-contained equipment. Spray-on cleaning solutions that are intended to be used with a brush and a hose will not do a good enough job of cleaning the coils, even though they may brighten the outer surface. A serious condenser cleaning involves before-and-after measurements of the temperature difference across the coil to verify the effectiveness of the cleaning. These measurements should be included in a report to the owner or supervisor.

Power washing, if done improperly (for instance, using the wrong spray angle or excessive pressure), can damage coils by bending the fins—or even breaking them off if the coil is old. The task isn't very complicated, but it should be done only by people trained in the proper use of the necessary equipment.

For more information on this article and others, check out [http://www.wisconsinpublicservice.com/business/hvac\\_03.asp](http://www.wisconsinpublicservice.com/business/hvac_03.asp)

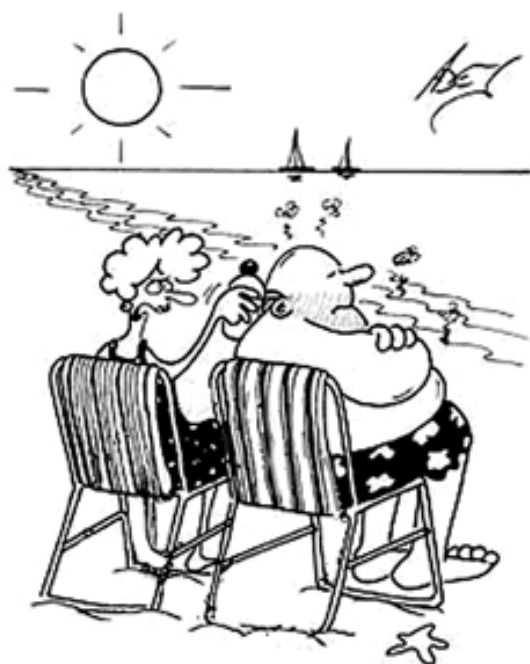
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**Be informed, it's habit forming!!**

Go to <http://www.hmsweeny.com> and stay up to date with the latest happenings, the newest products, & the best deals around!! Don't forget to email us if you're not on the mailing list!

**Call us anytime!  
We're here for ALL of  
your cooling needs!  
(301) 322-9100**



"For goodness sake Robert! Put some sun-cream on, you're beginning to smell like that bonfire on the farm down the road!"

## **ABC ELECTRIC MOTORS**

ABC Electric Motors Division of the H.M. Sweeny Co. has been serving the market place since 1939 with the largest variety of electric motors to meet every application.

ABC Electric Motors has acquired the capability and the capacity to recognize electric motors of all manufacturers past & present; from 1/100 HP to 500 HP, such as:

A.O. Smith  
Baldor  
Century  
Emerson  
EMS  
Fasco  
Franklin  
General Electric  
Lincoln

Lesson  
Magnetek  
Marathon  
Morrill  
Packard  
RMR  
Universal  
Westinghouse

ABC Electric Motors Division of the H.M. Sweeny Co. takes pride in serving the motor needs for Refrigeration, Air Conditioning, Heating, Ventilation, Elevators, Bridges, Water Pumps, Appliances, etc.

ABC Motors can be found in government buildings, commercial buildings, hospitals, universities & colleges, churches, apartments, homes, and everywhere else you can imagine.

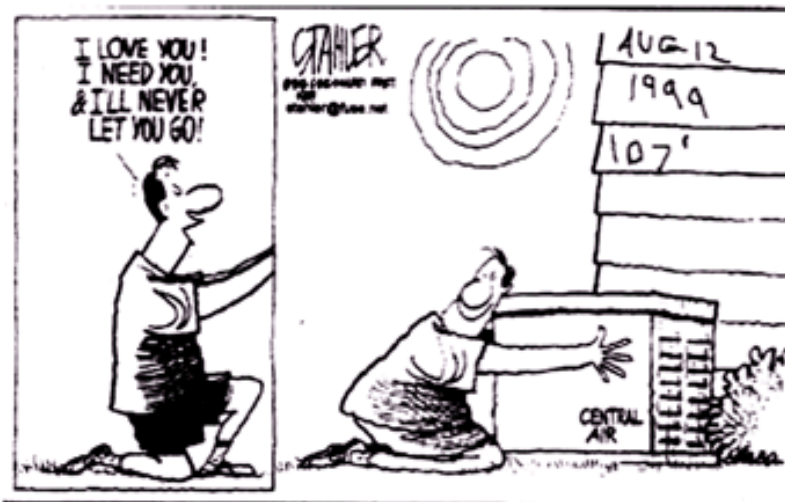
Contact the motor experts with the knowledge and experience to save you money and time for all your motor needs!

**IF THE MOTOR EXISTS,  
ABC WILL FIND IT!!!**

**The only Parts Center  
you'll ever need!**

AMANA  
AMERICAN STANDARD  
ARMSTRONG  
BARD  
CARRIER/BRYANT  
GOODMAN  
FEDDERS  
FRIEDRICH  
HEIL/TEMPSTAR

JANITROL  
LENNOX  
MAGIC CHEF  
MILLER  
RHEEM/RUUD  
TAPPAN  
TRANE  
YORK  
And more!



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# *Installing & Servicing Equipment*

## *Safety tips from us to you, our valued customer*

### I. Introduction

In the interest of promoting safety in the refrigeration and air conditioning industry, Tecumseh Products Company has prepared the following information to assist service personnel in safely installing and servicing equipment. This section covers a number of topics related to safety. However, it is not designed to be comprehensive or to replace the training required for professional service personnel.

### II. Trained Personnel Only

Refrigeration and air conditioning devices are extremely complicated by nature. Servicing, repairing, and troubleshooting these products should be done only by those with the necessary knowledge, training, and equipment.

#### WARNING

Never service, repair, or troubleshoot unless you are a professional air conditioning/refrigeration service person. Improper servicing can lead to serious injury or death from fire, electric shock, or explosion.

### III. Terminal Venting and Electrocutation

Improperly servicing, repairing, or troubleshooting a compressor can lead to electrocution or fire due to terminal venting with ignition. Follow the precautions below to avoid serious injury or death from electrocution or terminal venting with ignition.



#### A. Fire Hazard from Terminal Venting with Ignition

Oil and refrigerant can spray out of the compressor if one of the terminal pins is ejected from the hermetic terminal. This "terminal venting" can occur as a result of a ground fault (also known as a short circuit to ground) in the compressor. The oil and

refrigerant spray from terminal venting can be ignited by electricity and produce flames that can lead to serious burns or death. When spray from terminal venting is ignited this is called "terminal venting with ignition." See Figures 1-1 through 1-3 for detail.

#### B. Terminal Venting and Electrocutation Precautions

To reduce the risk of electrocution, serious burns, or death from terminal venting with ignition:

- *Disconnect ALL electrical power before removing the protective terminal cover.*

Make sure that all power legs are open. (NOTE: The system may have more than one power supply.)

- *Never energize the system unless: 1) the protective terminal cover is securely fastened, and 2) the compressor is properly connected to ground.*

Figures 1-4 through 1-6 illustrate the different means of fastening protective terminal covers.

- *Never reset a breaker or replace a fuse without first checking for a ground fault (a short circuit to ground).*

An open fuse or tripped circuit breaker is a strong indication of a ground fault. To check for a ground fault, use the procedure outlined in "Identifying Compressor Electrical Problems" on page 47.

- *Be alert for sounds of arcing (sizzling, sputtering or popping) inside the compressor. If you hear these sounds, IMMEDIATELY get away.*
- *Disconnect power before servicing.*

Always disconnect power before servicing, unless it is required for a specific troubleshooting technique. In these situations, use extreme caution to avoid electric shock.



# Congratulations to the Prince George's Community College HVAC

class of 2003-2004 who successfully completed both Part I and Part II. It's been a long road, but you did it and you did it well! We want to wish you the best of luck in the future. For all of these pictures online, go to <http://hmsweeny.com/MayPictures.html>



And a special thanks  
to our Director at  
PGCC!



*Sweeny's will be holding an:*  
**AIR CONDITIONING CLASS**  
*Friday, June 18th 9-4pm*  
For all of our  
Park Forest Customers!  
*We're looking forward to it!!*

## Registration starts **AUGUST 1st!!**

Registration for the Refrigeration,  
Heating, and Air Conditioning Fall Semester  
Part I and Part II starts August 1st!!

Go online to:  
<http://hmsweeny.com/education.html> and  
click on the link to Prince George's Community  
College to register. You can also  
call Stephanie for the registration form.  
(301) 322-9100 x19.

Fall Semester for Parts I and II  
starts in **September!!**



*On a similar note:*

*We'd like to extend a warm welcome to the Pentagon students!  
We are so proud of the Pentagon staff striving to become  
better in the HVAC industry! Keep it up!!*

Inside this issue of the:



thermo-  
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- \* Upcoming events (page 1)
- \* May, June, July Birthday party!! June 28th (page 1)
- \* Cleaning Condensing Coils (page 4)
- \* Recap of March & April (page 2)
- \* Our summer specials (pages 2, 3, & 4)
- \* Motor class in September (page 3)
- \* Sales position open! (page 2)
- \* Need your EPA Certification?
- \* And much more!

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