



The Duct Man

HVAC Contractor News You Can Use

UPCOMING WEBINARS

HVAC Physics, Concepts & Theory

Thurs, Nov. 11 | 4:30-6:00 p.m.

HVAC topics discussed will include properties of refrigerant, heat transfer including latent and sensible, and associated concepts and theories. Instructed by Goodman's Doug Hocker.



Basic Electrical Principles

Thurs, Dec. 2 | 4:30-6:00 p.m.

Instructor Doug Hocker will identify, apply, illustrate, and accurately define electrical concepts and components as they pertain to the HVAC industry.



HVAC Diagnostics Fundamentals

Thurs, Dec. 16 | 4:30-6:00 p.m.

Dean Altemus will cover the basics of refrigeration system troubleshooting and how they are affected by refrigerant charge, restrictions, airflow, metering devices, and air in systems

All webinars are FREE. To register please call our Lakewood branch at (732) 364-7644 or email vsanders@ephomiek.com

Residential Testing, Adjusting & Balancing Study: TAB Benefits Both Owners and Contractors

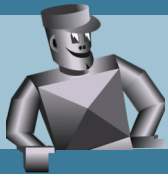
Airflow testing and balancing, or TAB, has long been used in large commercial and industrial HVAC systems to achieve peak system performance. It is becoming increasingly popular among residential customers looking to correct low airflow issues that cause problems like inconsistent temperatures from room to room, poor indoor air quality, poor humidity control, and high utility bills.

An energy efficiency study published by National Comfort Institute examined air balance tests performed on hundreds of existing residential HVAC systems. Some results were surprising:

- The average HVAC system operated at just 48% of its rated capacity.
- Less than 10% of the systems were performing above 80%.
- Of the 852 systems tested, 462 owners opted to move forward with improvements recommended by the TAB specialist.
- Upon retesting, HVAC systems that underwent TAB were found to be achieving an average of 83% capacity (up from 48%) and energy efficiency was improved by an average of 34%.

It isn't just home and building owners that stand to benefit from HVAC testing, adjusting and balancing. The participating TAB contractors' average sales closing rate for making system upgrades was an impressive 54%. These statistics show that when customers are presented with detailed airflow testing data, they are far more likely to see the benefits of TAB and go ahead with recommended improvements. Corrective measures can include duct sealing; repairing ductwork kinks, broken dampers and obstructions; insulation improvements; evaporator coil cleaning; filtration modifications; fan speed adjustments; and correcting duct and return sizing issues.





ASHRAE Equipment Life Expectancy Chart*

Air Conditioners	
Window units	10
Residential single or split	15
Commercial through-the-wall	15
Water-cooled package	15
Heat Pumps	
Residential air-to-air	15
Commercial air-to-air	15
Commercial water-to-air	19
Rooftop Air Conditioners	
Single-zone	15
Multi-zone	15
Boilers, Hot Water (Steam)	
Steel water-tube	24 (30)
Steel fire-tube	25 (25)
Cast iron	35 (30)
Electric	15
Burners	
(all)	21
Furnaces	
Gas- or oil-fired	18
Unit Heaters	
Gas or electric	13
Hot water or steam	20
Radiant Heaters	
Electric	10
Hot water or steam	25
Air Terminals	
Diffusers, grilles, and registers	27
Air Washers	
(all)	17
Ductwork	
(all)	30
Dampers	
(all)	20
Fans	
Centrifugal	25
Axial	20
Propeller	15
Ventilating roof-mounted	20
Coils	
DX, water or steam	20
Electric	15
Reciprocating Compressors	
(all)	20
Packaged chillers	
Reciprocating	20
Centrifugal	23
Absorption	23
Cooling Towers	
Galvanized metal	20
Wood	20
Ceramic	34
Air-Cooled Condensers	
(all)	20
Evaporative Condensers	
(all)	20
Insulation	
Molded	20
Blanket	24
Pumps	
Base-mounted	20
Pipe-mounted	10
Sump and well	10
Condensate	15
Reciprocating Engines	
All	20
Steam Turbines	
(all)	30
Electric Motors	
(all)	18
Motor Starters	
(all)	17
Electric Transformers	
(all)	30
Controls	
Pneumatic	20
Electric	16
Electronic	15
Valve Actuators	
Hydraulic	15
Pneumatic	20
Self-contained	10

*median years



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- ▶ All work is guaranteed