

THE PERIODIC TABLE OF HVAC TERMS

Aeroseal is obsessed with all things HVAC. Why else would we organize this list of industry terms using the periodic table? It's not even close to being a complete list. But we hope you'll find it useful. You can even display it in your shop to remind everyone of your own HVAC know how.

										1 Ch Charge				
										2 Co Comfort	3 Con Condensation	4 DS Duct Sealing		
5 ACH ACH (Air Changes Per Hour)	6 Ar AFUE (Annual Fuel Efficiency Ratio)											7 ES Energy Star	8 HER HERS	9 HT Heat Transfer
10 BTU BTU (British Thermal Unit)	11 CFM CFM	12 DB Dry Bulb	13 AS Aerosolized Sealant	14 CC Condenser Coil	15 Com Compressor	16 CU Condensing Unit	17 Du Duct	18 HVAC HVAC	19 Iq IAQ					
20 DT ΔT	21 EER EER (Energy Efficiency Ratio)	22 LC Load Calculation	23 Mv MERV	24 Dw Ductwork	25 EC Evaporator Coil	26 FD Flex Duct	27 HP Heat Pump	28 In Insulation	29 SA Service Agreement					
30 Pa Pascal (Pa)	31 RH Relative Humidity	32 Sr SEER	33 Tn Tonnage	34 WB Wet Bulb	35 PI Plenum	36 PP Photovoltaic (solar) Panels	37 Re Refrigerant	38 Th Thermostat	39 Z Zoning					

■ Measurements
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 ■ Industry Terms

Measurements

- 5. ACH (Air Changes Per Hour)**
Number of times per hour a room is supplied with air, or it's removed, through ventilation.
- 6. AFUE (Annual Fuel Efficiency Ratio)**
Measures energy efficiency of a heating system and shows how much fuel is used to heat a home.
- 10. BTU (British Thermal Unit)**
Indicates the rate of cooling, dehumidifying, or heating in an HVAC system.
- 11. CFM**
An airflow calculation made in cubic-feet-per-minute used to determine the cooling requirements of a building.
- 12. Dry Bulb**
Method for determining temperature measurement.
- 10. ΔT**
A measurement between 2 temperatures.
- 21. EER (Energy Efficiency Ratio)**
Determines the energy efficiency of an AC; the higher the rating, the more efficient the unit.
- 22. Load Calculation**
This is used to determine heat gain and loss within a structure to ensure properly-sized HVAC equipment can be installed.
- 23. MERV**
Minimum Efficiency Reporting Value, a scale rating of the effectiveness of air filters.
- 30. Pascal (Pa)**
A unit of measure to track pressure on a manometer.
- 31. Relative Humidity**
The ratio of the partial pressure or density of water vapor to the saturation pressure or density.
- 32. SEER (Seasonal Energy Efficiency Ratio)**
The ratio of the total heat removed from the conditioned space to the total electrical energy input required to remove the heat.
- 33. Tonnage**
A unit of measure used to describe the cooling capacity of an AC system.
- 34. Wet Bulb**
Method for determining temperature measurement.

Equipment

- 13. Aerosolized Sealant**
The AeroSeal system applies heat to its water-based sealant to create a sealant mist. Injected into a pressurized duct system, this mist is drawn to the holes and cracks in the ductwork, sealing them as they collect around each leak.
- 14. Condenser Coil**
The hot side of an AC or heat pump transferring heat to air or to an intermediate fluid to carry heat to the ground, a body of water or air.
- 15. Compressor**
A pump circulating vapor refrigerant from the indoor evaporator to the outdoor condenser and back.
- 15. Condensing Unit**
A device that turns a gas to a liquid by cooling it.
- 17. Duct**
A tube or conduit used to convey air, hard ducts are typically made from sheet metal and flexible ducts can be made from a number of different materials.
- 24. Ductwork**
A system of ducts for distribution and extraction of air.
- 25. Evaporator Coil**
It is used to absorb heat from the air or from a liquid.
- 26. Flex Duct**
Ductwork made from flexible material to more easily fit into tight, awkward spaces.
- 27. Heat Pump**
A heating/refrigerating system that transfers heat.
- 28. Insulation**
This material reduces heat gain or heat loss where it is applied to reduce energy consumption.
- 35. Plenum**
It takes in the new cool or warm air from the heater or AC and distributes it throughout the building's ductwork.
- 36. Photovoltaic (solar) Panel**
Used to convert solar energy into electricity.
- 37. Refrigerant**
A substance that produces a cooling effect; used in most air conditioning and cooling systems.
- 38. Thermostat**
A temperature-control device used to maintain temperature at a fixed or adjustable setpoint.

Industry Terms

- 1. Charge**
The amount of refrigerant in an HVAC system.
- 2. Comfort**
An environmental condition of comfortability.
- 3. Condensation**
Changing of a vapor into a liquid by extracting heat from the vapor.
- 4. Duct Sealing**
Sealing ducts to eliminate leaks; in addition to AeroSeal duct sealing from the inside, accessible ducts can be sealed manually using tape and mastic.
- 7. Energy Star**
Energy efficiency guidelines set by the US Environmental Protection Agency.
- 8. HERS**
The Home Energy Rating System Program addresses HVAC system problems created by poor equipment installation.
- 9. Heat Transfer**
The transfer of energy induced by a difference in temperature.
- 18. HVAC**
The acronym for heating, ventilation, and air conditioning; also includes air cleaning and moisture control.
- 19. IAQ**
Indoor Air Quality
- 29. Service Agreement**
A paid fee to guarantee a company's ongoing services for an HVAC system.
- 39. Zoning**
The division of a building or a group of buildings into separately controlled spaces (zones).

To learn how our HVAC obsession can help your business, contact one of our duct experts at info@aeroseal.com, (877) 959-8421, or visit aeroseal.com.

