



THE DUCT MAN QUARTERLY

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UPCOMING WEBINARS

March Webinars:

- Basic Electrical Understanding and Reading Wiring Diagrams
- Understanding Air Flow and Static Pressure and their Effects in an HVAC System

These FREE webinars are hosted by E.P. Homiek and instructed by an experienced electrical mechanical engineer.

Understanding and Taking Static Pressure Readings Can Help Transform Your Business

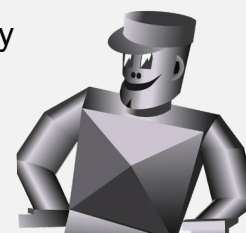
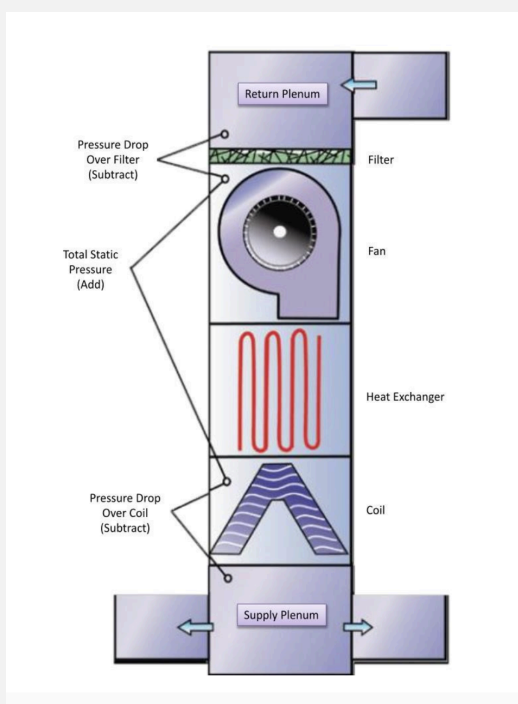
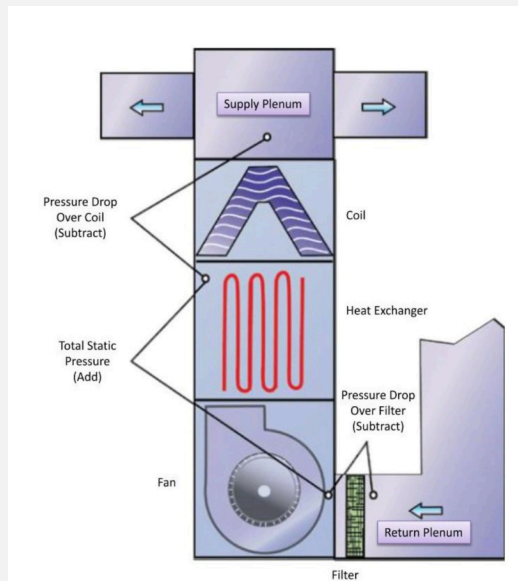
Airflow in residential HVAC systems is often overlooked and rarely measured, yet it is the lifeblood of every system. The easiest way to determine airflow in an HVAC system is through static pressure measurement, which can be completed in just a few minutes.

Static pressure (or total static) in residential HVAC systems should be 0.5 or 1/2 in/wc (inches of water column). When static pressure is too high, airflow decreases. When it's too low, this can indicate several problems, such as leaking or open ductwork. Both high and low readings can signal serious issues.

A helpful analogy to remember is that static pressure is similar to blood pressure - too high or too low could spell trouble. Just as a blood pressure reading of 120/80 is ideal for humans, a static pressure reading of 0.5 in/wc indicates a healthy residential HVAC system. This comparison is particularly useful when explaining static pressure problems to customers and discussing necessary corrective actions.

Surprisingly, as an engineer who has visited hundreds of problem projects, I've seen various HVAC companies' contact information stickers on furnaces, but I've rarely encountered properly drilled holes for taking static pressure readings. This oversight is puzzling given the importance of these measurements.

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Static Pressure—continued from page 1

Blower Performance

Model	Motor HP	Blower Size	Temp. Rise	Blower Speed	CFM @ ext. Static Pressure - in. W.C. w/Filter(s)*								
					.20	.30	.40	.50	.60	.70	.80	.90	
FURNACE MODEL "A"	1/3	10 x 8	35-65	High	1518	1446	1366	1297	1219	1122	1003	834	
				Med/Hi	1340	1298	1234	1182	1101	1018	903	752	
				Med	1099	1084	1060	1019	952	883	783	709	
				Low	942	935	896	868	829	760	651	553	
FURNACE MODEL "B"	1/3	10 x 8	45-75	High	1390	1337	1270	1207	1138	1063	949	858	
				Med/Hi	1230	1176	1137	1082	1012	931	838	718	
				Med	1008	984	956	912	872	806	722	587	
				Low	872	847	834	800	758	690	600	495	
FURNACE MODEL "C"	3/4	12 x 10	35-65	High	1921	1888	1831	1759	1668	1624	1549	1445	
				Med/Hi	1750	1720	1682	1661	1625	1494	1397	1327	
				Med	1515	1491	1462	1421	1397	1330	1258	1185	
				Med/Low	1315	1300	1255	1213	1188	1159	1103	1017	
				Low	1033	982	962	952	906	851	804	721	

*Chart shown for illustrative purposes only. Please consult manufacturer's specifications for accurate product-specific data.

systems, regardless of manufacturer, are designed for specific airflow and static pressure parameters. After taking static pressure readings, it's essential to compare them to a standard airflow chart.

For those interested in learning more about implementing static pressure readings during service calls, we recommend watching ["Static Pressure Testing and Mapping Demonstration: Home HVAC Duct Performance"](#) on YouTube.

Stay tuned for our upcoming free online static pressure webinar, open to all interested parties. Watch for the EP Homiek technical webinar invitation in your inbox.

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