Cooling System Air Test
Visual Report

Customer Details

[redacted]

Contractor Details

Wise Energy Efficiency Solutions
P.O Box 864101
Plano, TX 75023
214-228-7283

Location	Address	Main Contact
"Home"	[redacted]	[redacted]
(Residential)	Sunnyvale, TX 75182	[redacted]

Tested by	System	Area Served
on **Mar 8, 2017 4:00 PM**	**family room**	1st floor
Test ID: T:5023:6981	Split Gas-Electric	2110 Sq. Ft.

Fan Airflow

Required Fan Airflow	Measured Fan Airflow	Percent of Required Fan Airflow
1200 CFM	820 CFM	68%

The system's fan moves cooled air from the equipment through your duct system. To achieve the comfort and efficiency you expect and deserve, fan airflow must be 90% or higher. Low fan airflow is a leading cause of discomfort, high utility bills, and premature equipment failure. High static pressure is the most common cause of low fan airflow.

Total Static Pressure

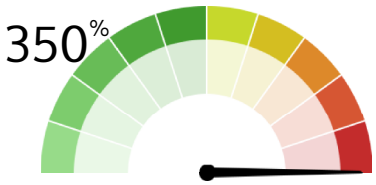
Entering Pressure	Exiting Pressure	Total Static Pressure	Rated Total Static Pressure	Percent of Rated
0.66 in. w.c.	0.6 in. w.c.	1.26 in. w.c.	0.8 in. w.c.	158%

High static pressure can best be understood by comparing it to high blood pressure. Just as high blood pressure causes many negative health consequences and shortens life, high static pressure has the same affect on your air conditioning system. High total static pressure is the most common reason for low airflow.

Air Filter

Entering Pressure	Exiting Pressure	Pressure Drop	Pressure Budget	Percent of Rated
0.1 in. w.c.	0.66 in. w.c.	0.56 in. w.c.	0.16 in. w.c.	350%

Air filters are intended to clean the air in your air conditioning system. However, when air filters are improperly sized or dirty, the efficiency of your system can be reduced by 30%. This percentage represents a snapshot of the current performance of your air filter. Percentages above 100% indicate the air filter is restricting airflow.



Coil

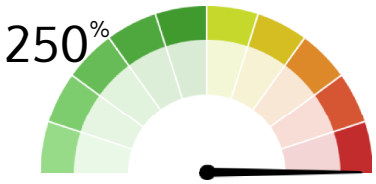
Entering Pressure	Exiting Pressure	Pressure Drop	Pressure Budget	Percent of Rated
0.6 in. w.c.	0.4 in. w.c.	0.2 in. w.c.	0.32 in. w.c.	63%

Your cooling coil lowers the air temperature. However, when coils are improperly sized or dirty, the efficiency of your system can be reduced up to 30%. This percentage represents a snapshot of the current performance of your coil. Percentages above 100% can indicate the coil is restricting airflow.

Supply Duct System

Supply Duct Pressure	Pressure Budget	Percent of Budget
0.4 in. w.c.	0.16 in. w.c.	250%

Conditioned air is supplied through a duct system into each room of your home. Improperly sized or restricted supply ducts directly affect comfort of individual rooms and air conditioning system efficiency. This percentage represents a snapshot of the current performance of your supply ducts. Percentages above 100% can indicate undersized or restrictive supply ducts.



Return Duct System

Return Duct Pressure	Pressure Budget	Percent of Budget
0.1 in. w.c.	0.16 in. w.c.	63%

Your return duct system brings back the air in your home to be cooled again. 90% of homes require return duct modifications to improve comfort and air conditioning system efficiency. This percentage represents a snapshot of the current performance of your return ducts. Percentages above 100% can indicate undersized or restrictive return ducts.