"How to determine Air Flow through an A/C unit"

Test for Correct System Airflow: A/C

Indoor Dry Bulb °F

Indoor Wet Bulb °F

Required supply air temp °F

Measure the indoor wet bulb & indoor dry bulb temps. Find the intersection of wet and dry bulb temps. If the air exiting the duct is 3° colder than the required supply air temp, the airflow is too low: replace the filter and/or clean evap and/or increase the blower speed. If the temp is higher than required, the system has too much airflow and/or low refrigerant and/or has weak compressor valves.

Tools you'll need to determine air flow through an A/C unit:

- 1. Digital thermometer
- 2. Digital humidity tester

Most common problems if the tested temperature is 3° warmer:

- 1. Low refrigerant
- 2. Weak compressor
- 3. A restricted metering device or bad TXV
- 4. A leak in the return air duct work
- 5. An oversized furnace or air handler

Most common problems if the tested temperature is 3° colder:

- 1. A dirty filter
- 2. A dirty coil
- 3. The fan is on too low of a speed
- 4. Too many registers or supply ducts are closed
- 5. The duct system is too small
- 6. The furnace or air handler is too small
- 7. The coil is too small for the condensing unit





