

Checking Indoor Airflow Using Static Pressure Measurements

(need manometer to measure static pressure 0"WC – 1.5"WC range)

Air Handlers and Package Units - External Static Pressure Unit Model Number _____

1. Confirm that evaporator and filter is clean, and OEM blower assembly components.
2. Check supply voltage, heater size and cooling fan speed setting.
3. Operate the cooling mode until the evaporator coil is wet (if possible).
Otherwise operate the indoor blower in the cooling fan speed.
4. Check supply duct static pressure at unit (before first branch or transition): _____ IWC-S
5. Check return duct static pressure at unit: _____ IWC-R
6. _____ IWC-S minus _____ IWC-R equals: _____ ESP
7. Apply airflow performance table (from installers guide or service data) to find CFM.

*For ECM blowers use Heat Rise Method to determine actual CFM

Gas Furnaces – External Static Pressure Unit Model Number _____

1. Confirm that the evaporator and filter is clean, and OEM blower assembly installed.
2. Check cooling fan speed.
3. Operate the indoor blower in cooling fan speed.
4. Check supply duct static pressure upstream of evaporator coil: _____ IWC-S
5. Check return duct static pressure at furnace: _____ IWC-R
6. _____ IWC-S minus _____ IWC-R equals: _____ ESP
7. Apply airflow performance table (from installers guide or service data) to find CFM.

*For ECM blowers use Heat Rise Method to determine actual CFM

Evaporator Coil Pressure Drop Coil Model Number _____

1. Confirm that the evaporator coil is clean.
2. Operate cooling mode until evaporator coil is wet (if possible).
Otherwise, operate indoor blower in cooling fan speed.
3. Check static pressure upstream of evaporator coil: _____ IWC-1
4. Check static pressure downstream of evaporator coil: _____ IWC-2
5. _____ IWC-1 minus _____ IWC-2 equals: _____ PD
6. Apply pressure drop table (from installers guide) to find CFM.