

MG1E & MG2R Blower Speed Selection Guide

Technician Field Reference based on the training video transcript

Step 1: Determine Required Airflow (CFM)

Use the blower performance chart. Typical targets: Cooling approximately 400 CFM per ton. Example: 3-ton AC = 1200 CFM.

Step 2: Measure Total External Static Pressure (TESP)

Measure supply pressure and return pressure. Treat both readings as positive values and add them together. Example: +0.30 and -0.20 = 0.50 in. WC TESP.

Step 3: Find the Correct Blower Speed

Use the blower chart to match desired airflow with measured TESP.

Step 4: Identify Motor Speed Wire

Verify which motor wire color corresponds to the selected speed tap.

Step 5: Understand the Control Board

The board energizes T1, T2, T3, or T4 based on the operating mode.

Step 6: Set Fan Speed

Use FAN ADJUST dip switches to select the desired tap for fan-only operation.

Step 7: Set Heating Speed

Use HEAT ADJUST dip switches to select the tap used during a heat call.

Step 8: Set Cooling Speed

Use COOL ADJUST dip switches to select the tap used during a cooling call.

Step 9: Ignore Variable-Speed Settings

Do not use settings beyond T4 on MG1E and MG2R furnaces.

Step 10: Cycle Power

Disconnect and restore power after changing dip switch settings.

Step 11: Verify Operation

Test Fan Only, Heating, and Cooling modes and verify airflow and operation.

Technician Shortcut

1. Measure TESP.
2. Determine required CFM.
3. Use blower chart.
4. Find required speed tap.
5. Identify motor wire color.
6. Set Fan, Heat, or Cool dip switches to T1-T4.
7. Cycle power.
8. Verify airflow.

Key Takeaway

You are not directly selecting blower RPM. You are assigning a T1-T4 speed tap for Fan, Heat, and Cooling. The motor operates at the speed connected to the energized tap.