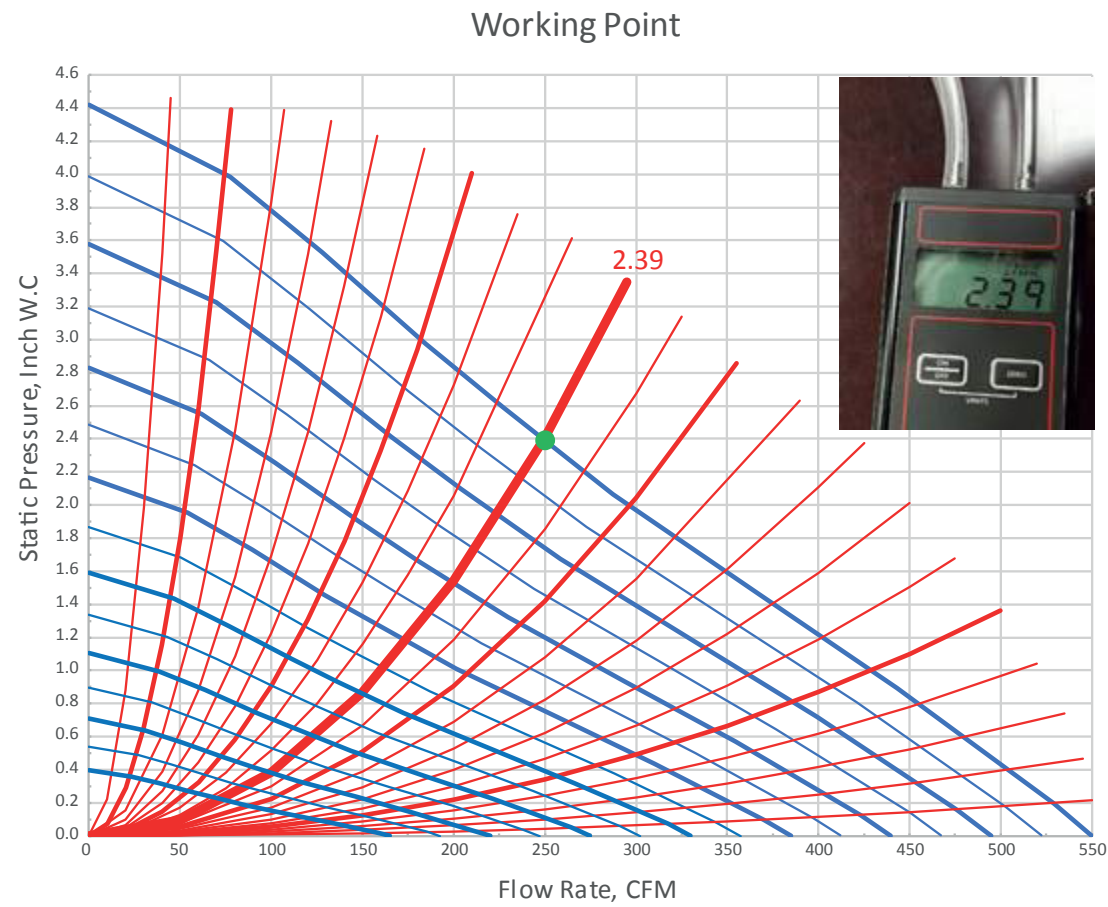


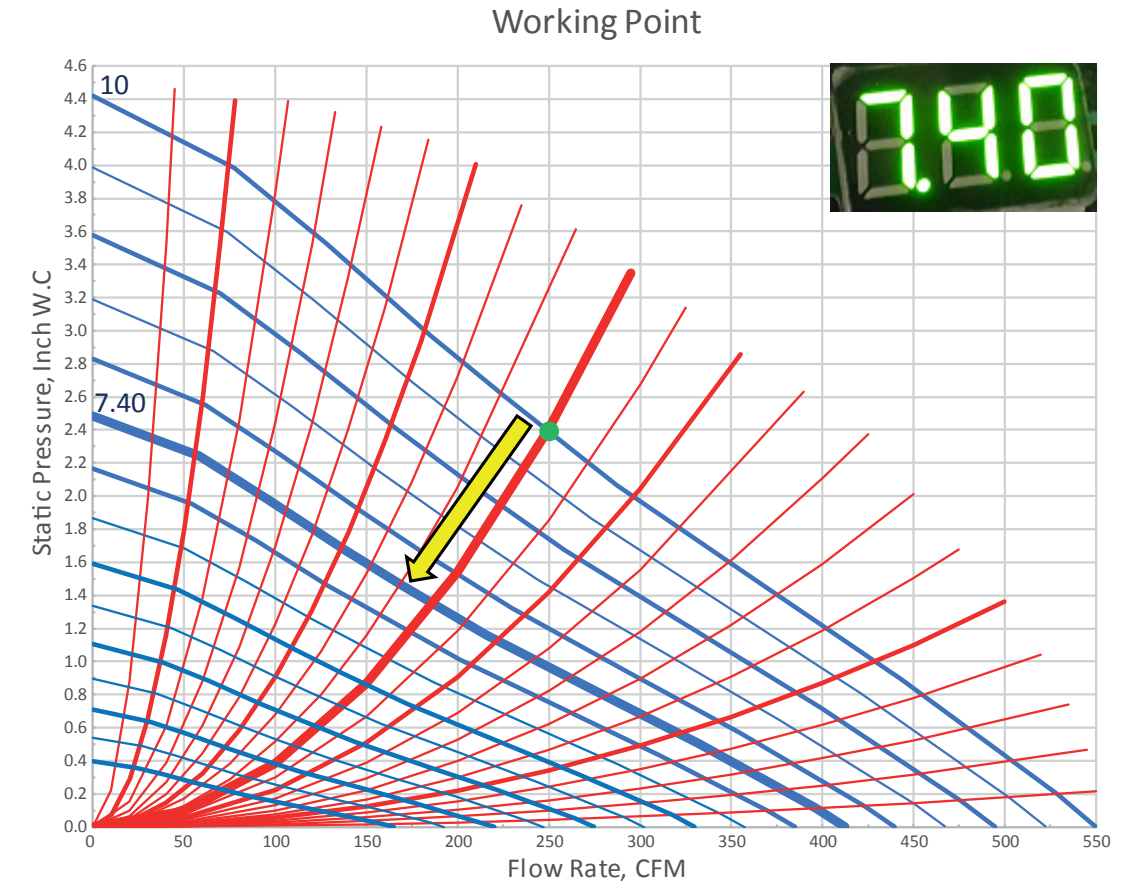
# Quick User Guide – Fan Selection

1. Connect and seal fan to suction pit
2. Connect pressure tubes to digital manometer and both couplers
3. If using flexible duct and exhausting to outside; read CALIBRATION also
4. Run fan at maximum RPM; digital display should show "10.0"
5. Record pressure drop on digital manometer; a number less than 4.4"
6. Check pressure field extension holes for good communication; adjust fan RPM as needed and record fan RPM ratio; a number between 3.0 to 10.0
7. Turn fan off
8. Plot the following information:

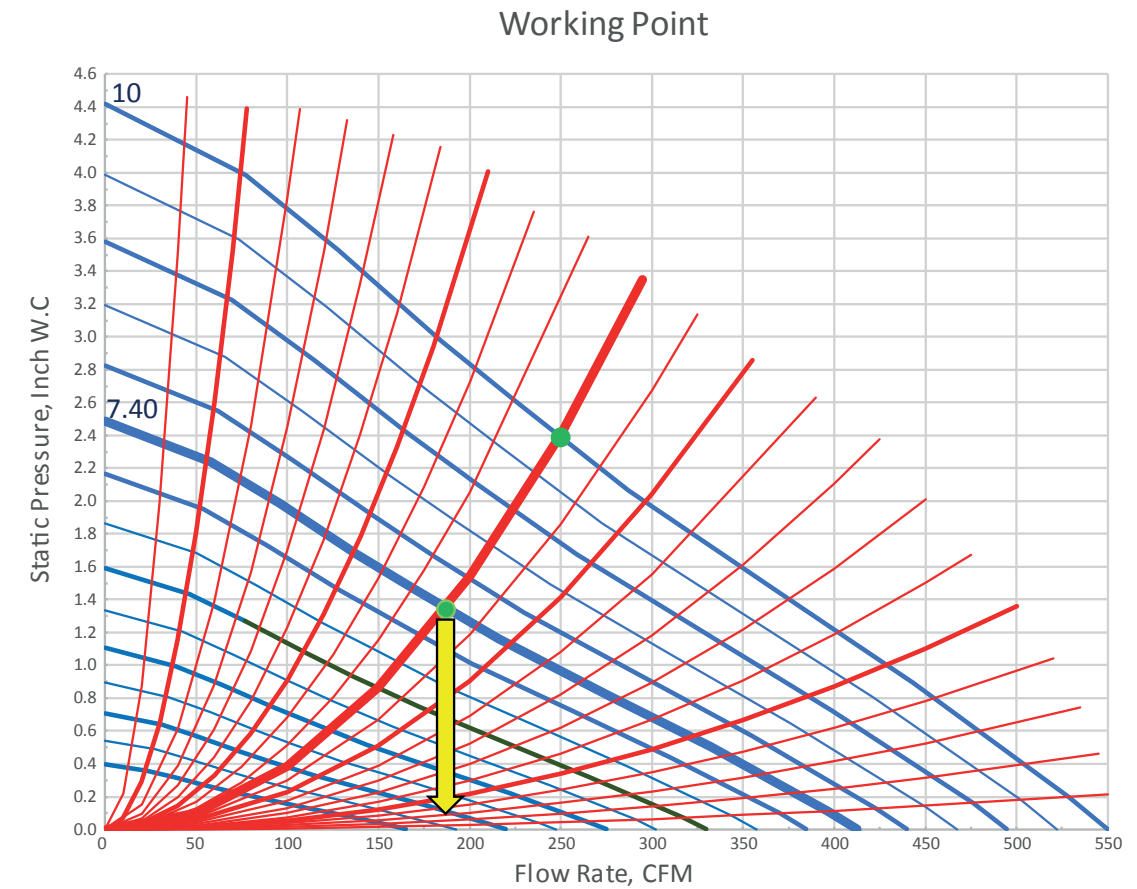
a. Plot digital manometer reading; green dot and thick red curve



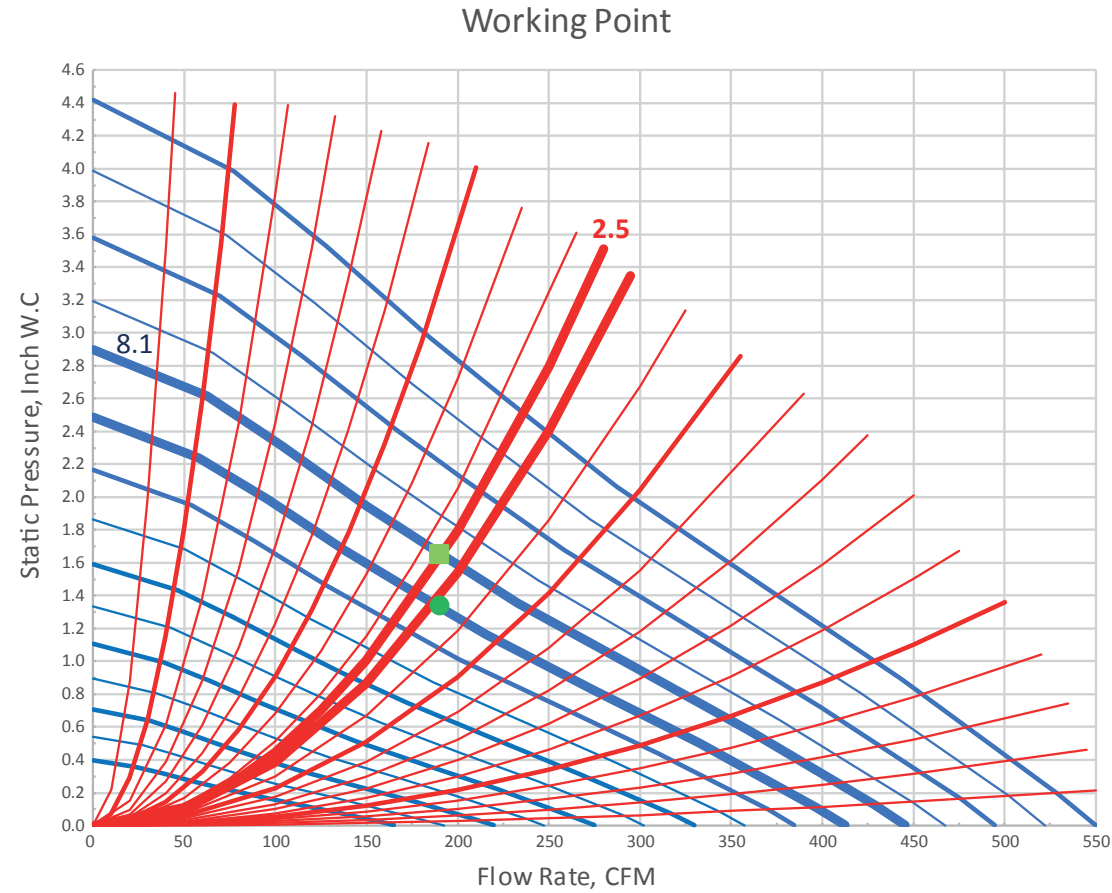
b. Plot fan performance curve for RPM ratio; thick blue curve



c. Obtain CFM, intersection of these two curves; yellow arrow



9. Use CFM value to calculate PVC pipe pressure drop as described in PVC PIPE PRESSURE DROP CALCULATION




10. Add PVC pipe pressure drop to Working Point value; green square point

11. If you are using Fantech App;

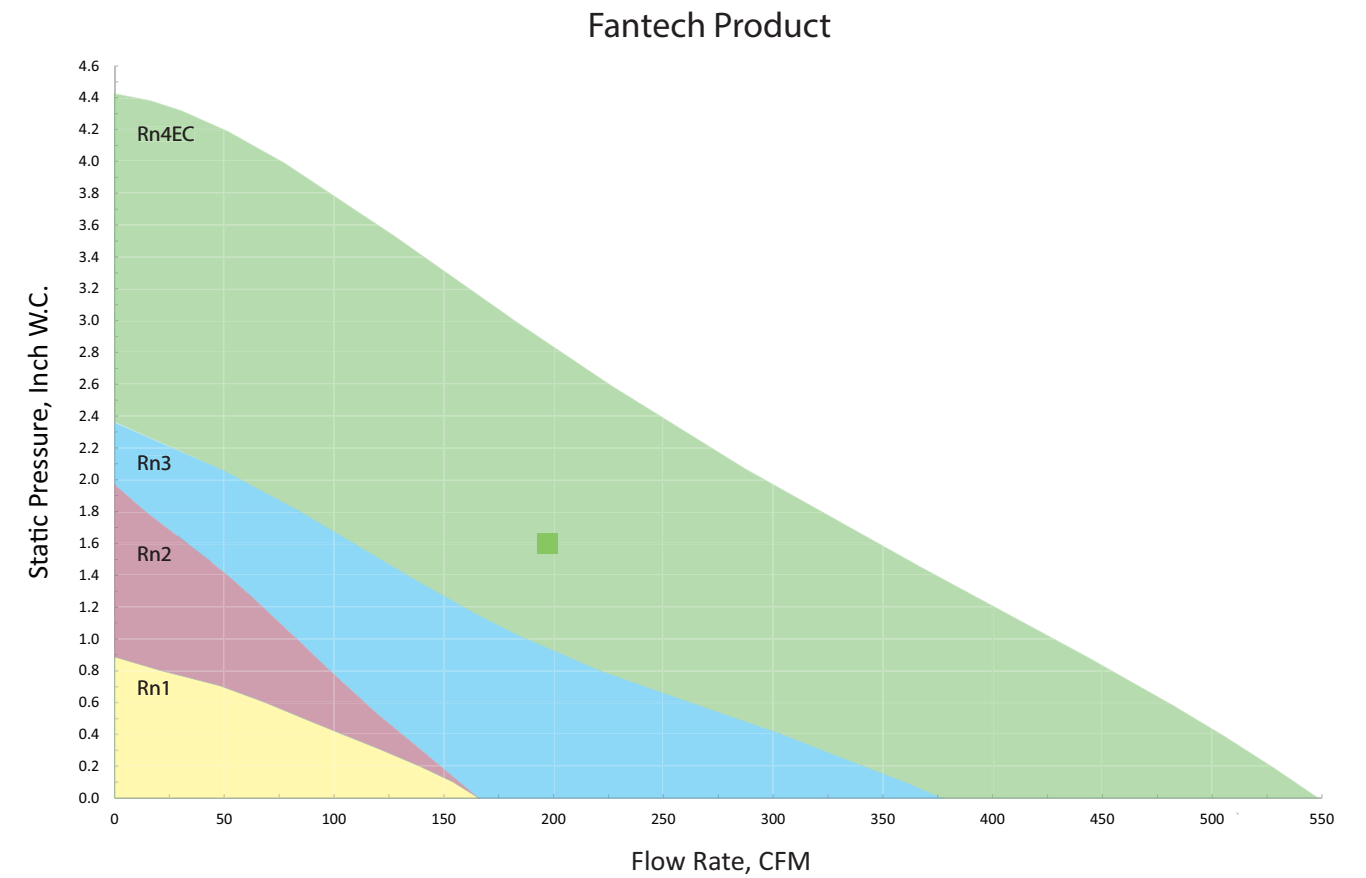
- a. Enter total pressure drop; green square point, 1.63 for this example
- b. Determine and enter RPM ratio; where square green point meets blue curves, 8.1 for this example
- c. Push GRAPH button to see result



 We will gladly send you our PFEDK phone app, just email us at [sales@fantech.net](mailto:sales@fantech.net).

12. If you are not using Fantech App;

- a. Overlay fan manufacturer performance curves over Working Point Graph and select a fan that performs equal or better than your system Working Point; Rn4 in this example



Notes:

- If an EC fan is selected, fan RPM can be set to RPM ratio; 8.1 in this example
- Total system curve is different now due to added PVC pipe pressure drop; 2.5 in this example

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