Use the following chart for your interpolations on this work sheet:

|  |
| --- |
| **Air Resistance Across The Coil** |
| **Model Number** | Air Volume CFM | Dry Coil in. w.g. | Wet Coil in. w.g. |
| **XYZ** | 200 | 0.03 | 0.04 |
| 400 | 0.08 | 0.09 |
| 600 | 0.14 | 0.17 |
| 800 | 0.22 | 0.29 |
| 1000 | 0.31 | 0.42 |

Find the air volume in CFM for dry coil w.g. value of 0.055.

300 CFM

Note: (0.08 + 0.03) ÷ 2 = 0.055 Thus it is in the dead center.

Find air volume in CFM for a wet coil w.g. value of 0.55

1) 0.09 - 0.04 = 0.05

2) 0.09 – 0.055 = 0.035

3) 0.035 ÷ 0.05 = 0.7

4) 400 – 200 = 200

5) 0. 7 × 200 = 140

6) 400 – 140 = 260

260 CFM

Find air volume in CFM for a wet coil w.g. value of 0.18

1) 0.29 - 0.17 = 0.12

2) 0.29 – 0.18 = 0.11

3) 0.11 ÷ 0.12 = 0.9166666

4) 800 – 600 = 200

5) 0.9166666 × 200 = 183.3333

6) 400 – 183.3333 = 216.6666 or 217 CFM