

**Table 33: Primary Airflow Ranges (Velocity Wing™ Sensor)**

| Type       | Direct Digital       |             | Analog Electronic |             | Pneumatic   |             |
|------------|----------------------|-------------|-------------------|-------------|-------------|-------------|
| Controller | SimplyVAV / Conquest |             | Model 51          |             | Model 31    |             |
| Inlet Size | Min Airflow          | Max Airflow | Min Airflow       | Max Airflow | Min Airflow | Max Airflow |
| 5" Ø       | 45                   | 350         | 22                | 305         | 50          | 287         |
| 6" Ø       | 75                   | 575         | 45                | 470         | 81          | 469         |
| 7" Ø       | 100                  | 750         | 70                | 635         | 106         | 612         |
| 8" Ø       | 135                  | 1050        | 90                | 835         | 150         | 867         |
| 9" Ø       | 175                  | 1350        | 115               | 1100        | 190         | 1098        |
| 10" Ø      | 215                  | 1650        | 145               | 1355        | 234         | 1353        |
| 12" Ø      | 285                  | 2200        | 155               | 1740        | 312         | 1802        |
| 14" Ø      | 390                  | 3000        | 250               | 2300        | 428         | 2469        |
| 16" Ø      | 530                  | 4100        | 447               | 3390        | 583         | 3366        |

**Notes:**

- Minimum and maximum values shown are CFM
- Minimum and maximum airflow with pressure independent controls based on the following flow sensor signals:  
 Model 51 Controller - 1 VDC – 10 VDC  
 Model 31 Controller - 0.03" w.g. – 1.0" w.g.  
 Simply VAV / Conquest Controllers - 0.025" w.g. – 1.5" w.g.
- Settings below the minimum are not recommended for accurate control when using pressure independent controls. Minimum airflow for pressure dependent applications is 0 cfm.
- Pressure independent controls may be set for 0 CFM, at or above the minimum airflow shown in table 4, but not between.
- Model 31 controller can be used either as direct or reverse acting for normally open or normally closed damper positions. Field adjustable start point and reset span.
- Models 31 controllers equipped with separate adjustable knobs for maximum and minimum airflow settings.
- Model 51 electronic analog controller maximum and minimum airflow settings field adjustable at the thermostat.
- Airflow rates above maximum shown are available. Contact your Anemostat representative for application assistance.

**Table 51: Unit Fan**

| Casing Size | Fan Size | Max Fan CFM @ 0.25 ESP |      |      | Inlet | Max Prim CFM |
|-------------|----------|------------------------|------|------|-------|--------------|
|             |          | High                   | Med  | Low  |       |              |
| 1           | 17       | 375                    | 325  | 275  | 6     | 470          |
|             | 25       | 715                    | 675  | 635  | 7     | 635          |
|             | 25       | 715                    | 675  | 635  | 8     | 865          |
| 2           | 17       | 540                    | 410  | 285  | 9     | 1100         |
|             | 25       | 1100                   | 975  | 820  | 10    | 1355         |
|             | 50       | 1550                   | 1450 | 1280 | 12    | 1800         |
| 3           | 50       | 1800                   | 1600 | 1300 | 12    | 1800         |
|             | 75       | 2175                   | 1775 | 1380 | 14    | 2470         |
|             | 10       | 2350                   | 2225 | 2075 | 16    | 3390         |

 Fan Flow Ranges  
 Inlet Primary Ranges

**Chart 3: Unit Flow Ranges**

