**风门开度与风量关系**

 风机的风门开度（叶片角度）与风量之间的关系是非线性的，不同类型的风机的风门开度（叶片角度）与风量之间关系也是不一样的。离心式风机在不同风门开度时的特性曲线之间的间隔是不均匀的，也就是说其线性很差。

 离心式风机各个风门开度、风量、风压的关系见下表1，离心式风机的风门开度+风量曲线的线性度很差：小风门时，随着风门的开打，风量增大很快，当风门开大到50%以上时，风量增大的速度明显放慢，当风门开度大到75%以上时，风量增大已不明显了。

 表 1

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| --- | --- | --- | --- |
| 风门开度（度） | 风门开度（%） | 风量（%） | 风压（%） |
| 10˚ | 11.1% | 25.0% | 10.0% |
| 15˚ | 16.7% | 35.0% | 15.0% |
| 20˚ | 22.2% | 45.0% | 22.0% |
| 25˚ | 27.7% | 55.0% | 32.0% |
| 30˚ | 33.3% | 61.7% | 42.0% |
| 35˚ | 38.9% | 68.3% | 50.0% |
| 40˚ | 44.4% | 76.7% | 60.0% |
| 45˚ | 50.0% | 81.7% | 68.0% |
| 50˚ | 55.6% | 83.3% | 75.0% |
| 55˚ | 61.1% | 85.5% | 80.0% |
| 60˚ | 66.7% | 88.3% | 84.0% |
| 65˚ | 72.2% | 90.8% | 87.3% |
| 70˚ | 77.8% | 93.1% | 90.4% |
| 75 | 83.3% | 95.1% | 93.3% |
| 80˚ | 88.9% | 96.7% | 95.8% |
| 85˚ | 94.4% | 98.8% | 98.0% |
| 90˚ | 100.0% | 100.0% | 100.0% |