

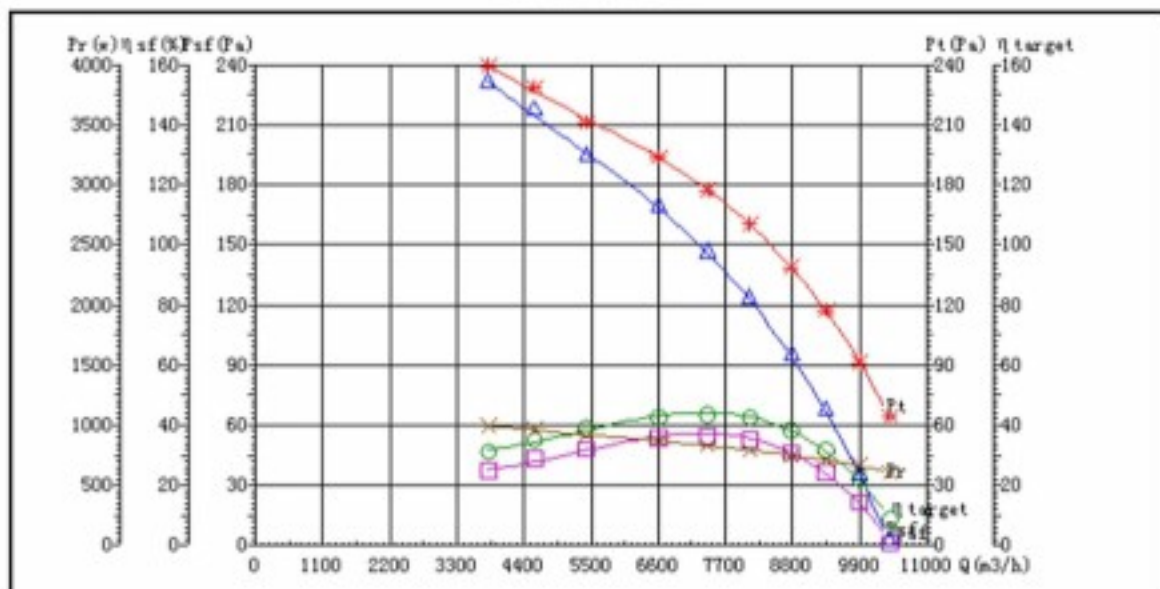


## Fan Air-dynamic Performance Test Report

|                         |                |                              |       |                   |           |                     |              |
|-------------------------|----------------|------------------------------|-------|-------------------|-----------|---------------------|--------------|
| Test No                 | 2016. 7. 1-600 | Product No                   | 01    | Note              | 380V/50Hz | Motor Model         | 380V/50Hz-TS |
| Flow(m <sup>3</sup> /h) | 12000.0        | Total Pressure(Pa)           | 1.00  | Rotate Speed(rpm) | 1350      | Electric Current(A) | 1.520        |
| Power:                  | 3~380V/50Hz    | Outlet Area(m <sup>2</sup> ) | 0.283 | Impeller Dia. (m) | 0.6000    | Standard            | ISO5801-2000 |

| Items   | Unit              | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10      |
|---|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| p=101325.00Pa    θ=20.0℃    ρ=1.2000kg/m <sup>3</sup> Dc=0.600m |                   |        |        |        |        |        |        |        |        |        |         |
| Air Flow  | m <sup>3</sup> /h | 3821.2 | 4580.9 | 5427.8 | 6614.9 | 7405.4 | 8100.4 | 8780.6 | 9350.9 | 9903.8 | 10402.8 |
| Total Pressure  | Pa                | 239.01 | 228.42 | 210.61 | 193.56 | 176.98 | 160.05 | 138.34 | 116.89 | 90.71  | 63.93   |
| Static Pressure   | Pa                | 230.62 | 216.37 | 193.68 | 168.41 | 145.47 | 122.31 | 94.02  | 66.56  | 34.27  | 1.62    |
| Electric Current  | A                 | 1.769  | 1.727  | 1.666  | 1.611  | 1.562  | 1.512  | 1.468  | 1.425  | 1.370  | 1.308   |
| Input Power   | W                 | 992.8  | 961.7  | 914.7  | 865.9  | 825.2  | 782.9  | 744.1  | 709.5  | 660.3  | 602.2   |
| Output Power  | W                 | 496.4  | 480.8  | 437.4  | 433.0  | 412.6  | 391.5  | 372.1  | 354.8  | 330.1  | 301.1   |
| Rotate Speed  | rpm               | 1327   | 1335   | 1345   | 1356   | 1365   | 1374   | 1381   | 1389   | 1398   | 1407    |
| Total Pt. Eff.  | %                 | 25.55  | 30.22  | 34.72  | 41.07  | 44.12  | 46.00  | 45.34  | 42.79  | 37.79  | 30.68   |
| Dynamic Pressure  | Pa                | 8.39   | 12.05  | 16.93  | 25.14  | 31.51  | 37.73  | 44.31  | 50.32  | 56.43  | 62.30   |
| Fan Noise   | dB(A)             | /      | /      | /      | /      | /      | /      | /      | /      | /      | /       |
| Energy Efficiency   |                   | 31.1   | 35.2   | 38.6   | 42.6   | 43.2   | 42.3   | 38.1   | 31.7   | 21.9   | 8.6     |

Performance Curve



X: Q(m<sup>3</sup>/h)

Y: △Psf (Pa)

\*Pt (Pa)

□ η af (%)

○ η target

×Pr (w)