

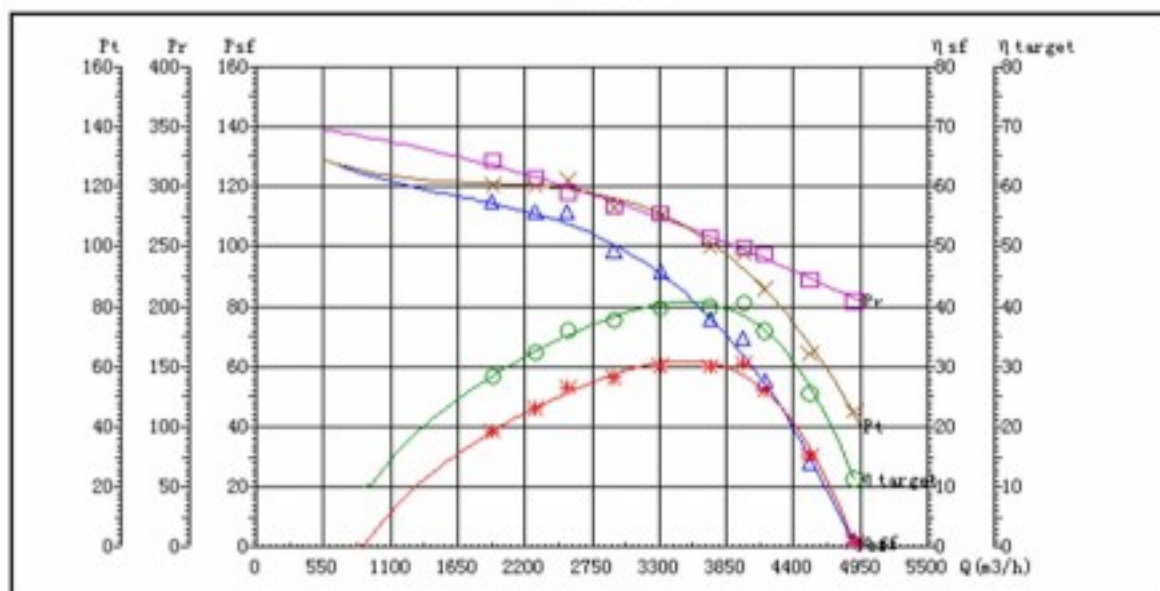


## Fan Air-dynamic Performance Test Report

|                         |                    |                              |      |                   |             |                     |              |
|-------------------------|--------------------|------------------------------|------|-------------------|-------------|---------------------|--------------|
| Test No                 | 20141217-4500-P4-5 | Product No                   | 01   | Flow Test Method  | Motor Model | 220V-50HZ-YD        |              |
| Flow(m <sup>3</sup> /h) | 5580.0             | Total Pressure(Pa)           | 1.00 | Rotate Speed(rpm) | 1390        | Electric Current(A) | 1.080        |
| Noise(dB(A))            | 68.00              | Outlet Area(m <sup>2</sup> ) | 0.16 | Impeller Dia. (m) | 0.4500      | Standard            | ISO5801-2000 |

| Items  | Unit              | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     |
|--|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| p=101325.00Pa    θ=20.0°C    ρ=1.2000kg/m <sup>3</sup> Dc=0.450m |                   |        |        |        |        |        |        |        |        |        |        |
| Air Flow   | m <sup>3</sup> /h | 1940.8 | 2293.2 | 2553.9 | 2935.0 | 3315.3 | 3719.4 | 3993.5 | 4165.1 | 4534.1 | 4899.9 |
| Total Pressure   | Pa                | 120.37 | 119.91 | 121.98 | 112.87 | 110.23 | 99.51  | 97.27  | 85.68  | 63.93  | 44.84  |
| Static Pressure  | Pa                | 113.53 | 110.36 | 110.14 | 97.22  | 90.28  | 74.41  | 68.31  | 54.16  | 26.64  | 1.09   |
| Electric Current   | A                 | 1.459  | 1.393  | 1.339  | 1.284  | 1.259  | 1.168  | 1.129  | 1.102  | 1.007  | 0.927  |
| Input Power  | W                 | 320.8  | 306.6  | 294.9  | 282.8  | 277.2  | 257.2  | 248.7  | 242.7  | 221.7  | 203.8  |
| Output Power   | W                 | 198.9  | 190.1  | 182.8  | 175.3  | 171.9  | 159.4  | 154.2  | 150.5  | 137.5  | 126.4  |
| Rotate Speed   | rpm               | 1199   | 1236   | 1263   | 1284   | 1293   | 1324   | 1339   | 1347   | 1374   | 1394   |
| Total Pt. Eff.   | %                 | 20.23  | 24.91  | 29.35  | 32.54  | 36.62  | 39.95  | 43.38  | 40.84  | 36.32  | 29.94  |
| Total Eff.   | %                 | 12.54  | 15.44  | 18.20  | 20.17  | 22.70  | 24.79  | 26.90  | 25.32  | 22.52  | 18.56  |
| Fan Noise  | dB(A)             | /      | /      | /      | /      | /      | /      | /      | /      | /      | /      |
| Energy Efficiency  |                   | 28.4   | 32.3   | 36.0   | 37.6   | 39.7   | 39.8   | 40.5   | 35.9   | 25.4   | 11.3   |

Performance Curve



X: Q (m<sup>3</sup>/h)  
Y: Δ Pst (Pa)    \* η sf (%)    □ Pr (w)    ○ η target    × Pt (Pa)