

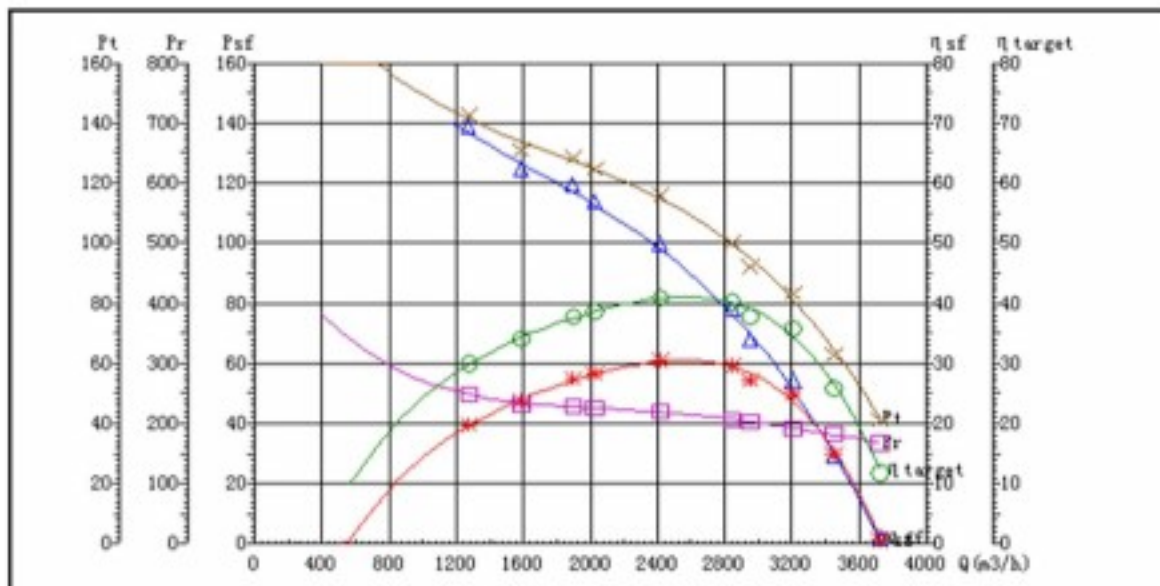


## Fan Air-dynamic Performance Test Report

|                         |                  |                              |       |                   |        |                     |              |
|-------------------------|------------------|------------------------------|-------|-------------------|--------|---------------------|--------------|
| Test No                 | 20141127-400D-03 | Product No                   | 03    | Flow Test Method  |        | Motor Model         | 220V-50HZ-YD |
| Flow(m <sup>3</sup> /h) | 4235.0           | Total Pressure(Pa)           | 1.00  | Rotate Speed(rpm) | 1400   | Electric Current(A) | 0.910        |
| Noise(dB(A))            | 1.00             | Outlet Area(m <sup>2</sup> ) | 0.126 | Impeller Dia. (m) | 0.4000 | 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=0.400m |                   |        |        |        |        |        |        |        |        |        |        |
| Air Flow   | m <sup>3</sup> /h | 1277.6 | 1590.0 | 1896.9 | 2024.9 | 2417.0 | 2846.7 | 2952.6 | 3206.8 | 3455.2 | 3727.5 |
| Total Pressure   | Pa                | 142.30 | 130.73 | 128.53 | 124.44 | 115.74 | 100.13 | 91.69  | 82.89  | 62.65  | 41.17  |
| Static Pressure  | Pa                | 137.56 | 123.39 | 118.09 | 112.54 | 98.79  | 76.64  | 66.42  | 53.07  | 28.01  | 0.85   |
| Electric Current   | A                 | 1.127  | 1.049  | 1.037  | 1.024  | 0.995  | 0.937  | 0.919  | 0.873  | 0.838  | 0.772  |
| Input Power  | W                 | 247.9  | 230.8  | 228.2  | 225.0  | 218.6  | 205.5  | 201.3  | 190.9  | 182.5  | 166.7  |
| Output Power   | W                 | 153.7  | 143.1  | 141.5  | 139.5  | 135.5  | 127.4  | 124.8  | 118.3  | 113.2  | 103.4  |
| Rotate Speed   | rpm               | 1309   | 1333   | 1339   | 1343   | 1352   | 1368   | 1374   | 1386   | 1397   | 1413   |
| Total Pt. Eff.   | %                 | 20.37  | 25.01  | 29.67  | 31.11  | 35.54  | 38.53  | 37.35  | 38.69  | 32.94  | 25.57  |
| Total Eff.   | %                 | 12.63  | 15.51  | 18.40  | 19.29  | 22.04  | 23.89  | 23.16  | 23.99  | 20.42  | 15.85  |
| Fan Noise  | dB(A)             | /      | /      | /      | /      | /      | /      | /      | /      | /      | /      |
| Energy Efficiency  |                   | 29.8   | 33.9   | 37.6   | 38.5   | 40.8   | 40.1   | 37.8   | 35.6   | 25.7   | 11.8   |

Performance Curve



X: Q(m<sup>3</sup>/h)  
 Y: Δ Pst (Pa)    \* ηsf (%)    □ Pr (W)    ○ ηtarget    × Pt (Pa)