AXIAL FLOW FANS PERFORMANCE DATA



How the performance curves work

Selecting from these graphs provides a guide only to possible selections. Basic noise level data as well as indicative power absorbed figures are incorporated on the graphs. The Fans by Fantech Product Selection Program will show other possible impeller combinations between the two illustrated here for each fan size/speed. The Selection Program will provide full performance information including air flow, pressure, noise levels, absorbed power as well as complete dimensional information.

The example shown here is for a 630mm axial flow fan (AP Series) running at 24 rev/sec in Type D installation (fully ducted). It illustrates a duty of 2.5 m³/s at 150Pa static pressure.



p_tF = fan total pressure, Pa

$$= p_s F + p_d F$$

 P_{R} = fan impeller power, kW

 $\frac{q_v \times p_t F}{10P_0} = \frac{2.5 \times (150+39)}{10 \times 0.65}$ = 73% 10×0.65