

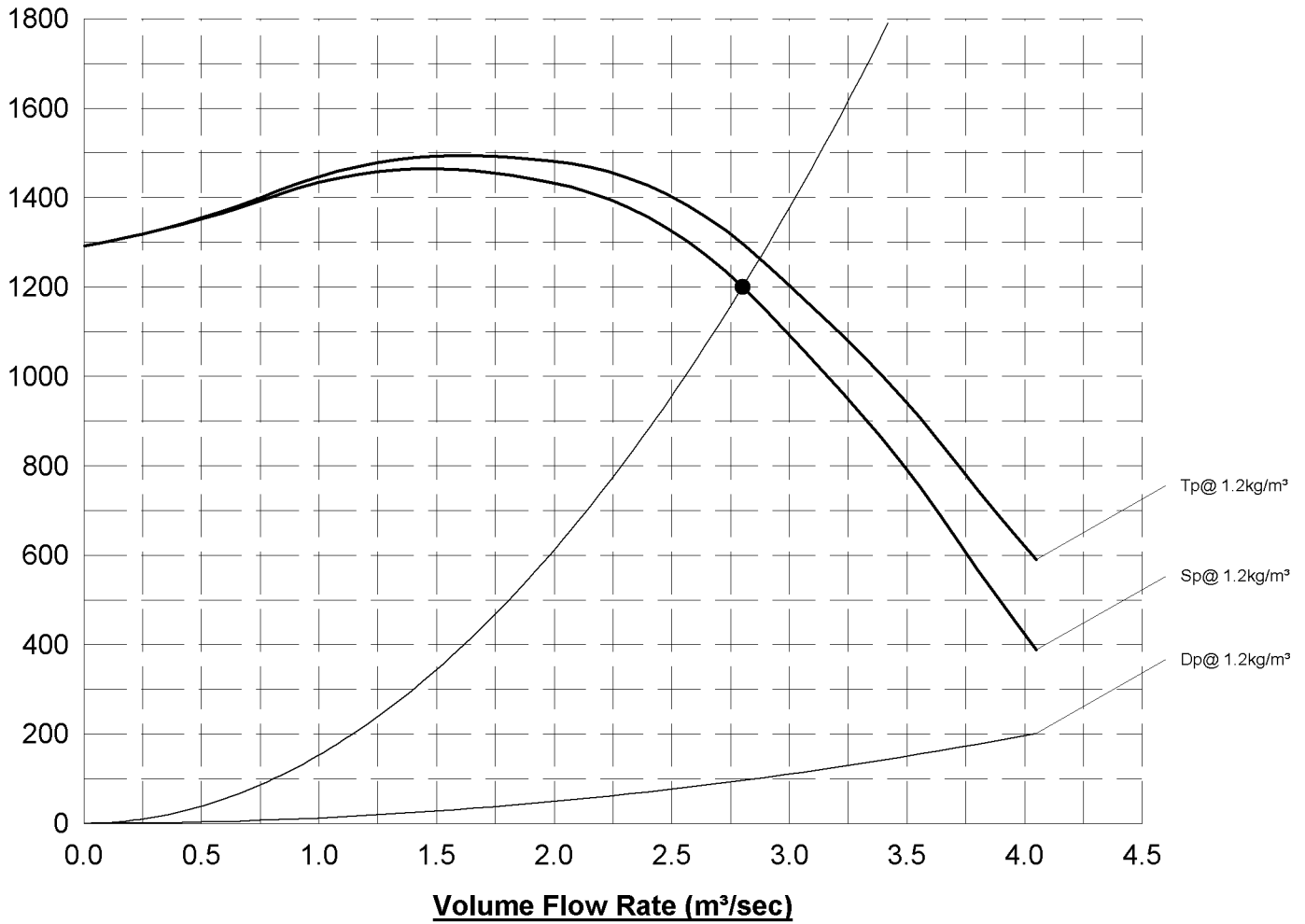
# Fan Performance Curve



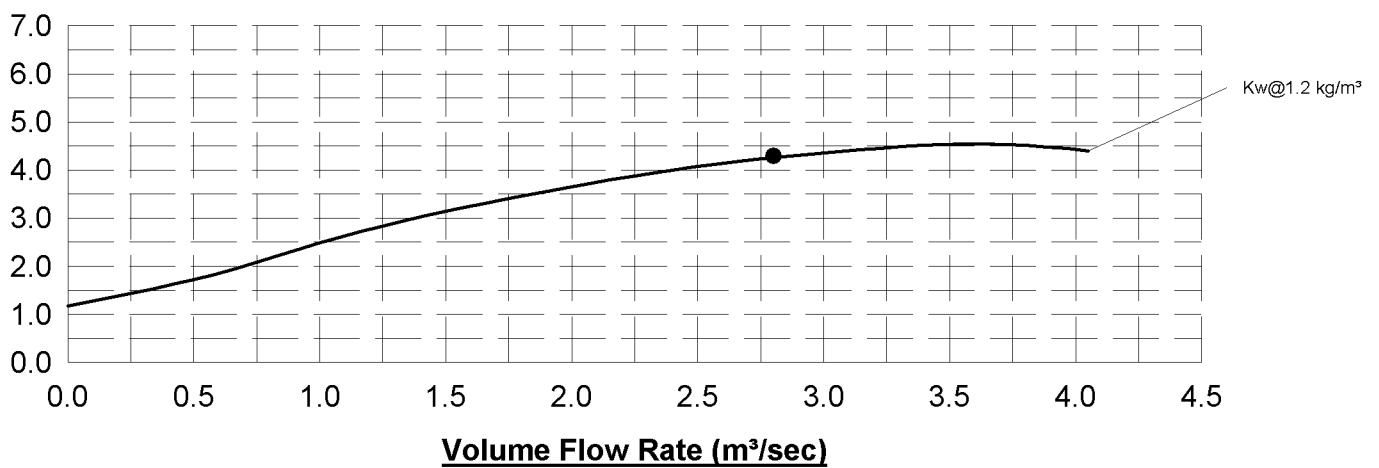
Better thinking, better solutions

Fan Type :- BW9  
Fan Size :- 500  
Fan Speed :- 1900 rpm (Performance tolerance class:-2)  
Density :- 1.2 Kg/m<sup>3</sup>  
Required Duty :- 2.8m<sup>3</sup>/sec @1200.0(static) @1.2 Kg/m<sup>3</sup>  
Operating point :- 2.8m<sup>3</sup>/sec @1200.0(static) @1.2 Kg/m<sup>3</sup>

## Pressure (Pa)



## Power (Kw)



Power values at 1.2 Kg/m<sup>3</sup> At operating point :-4.3 Kw / Peak:-4.54 Kw / Closed:-1.18 Kw

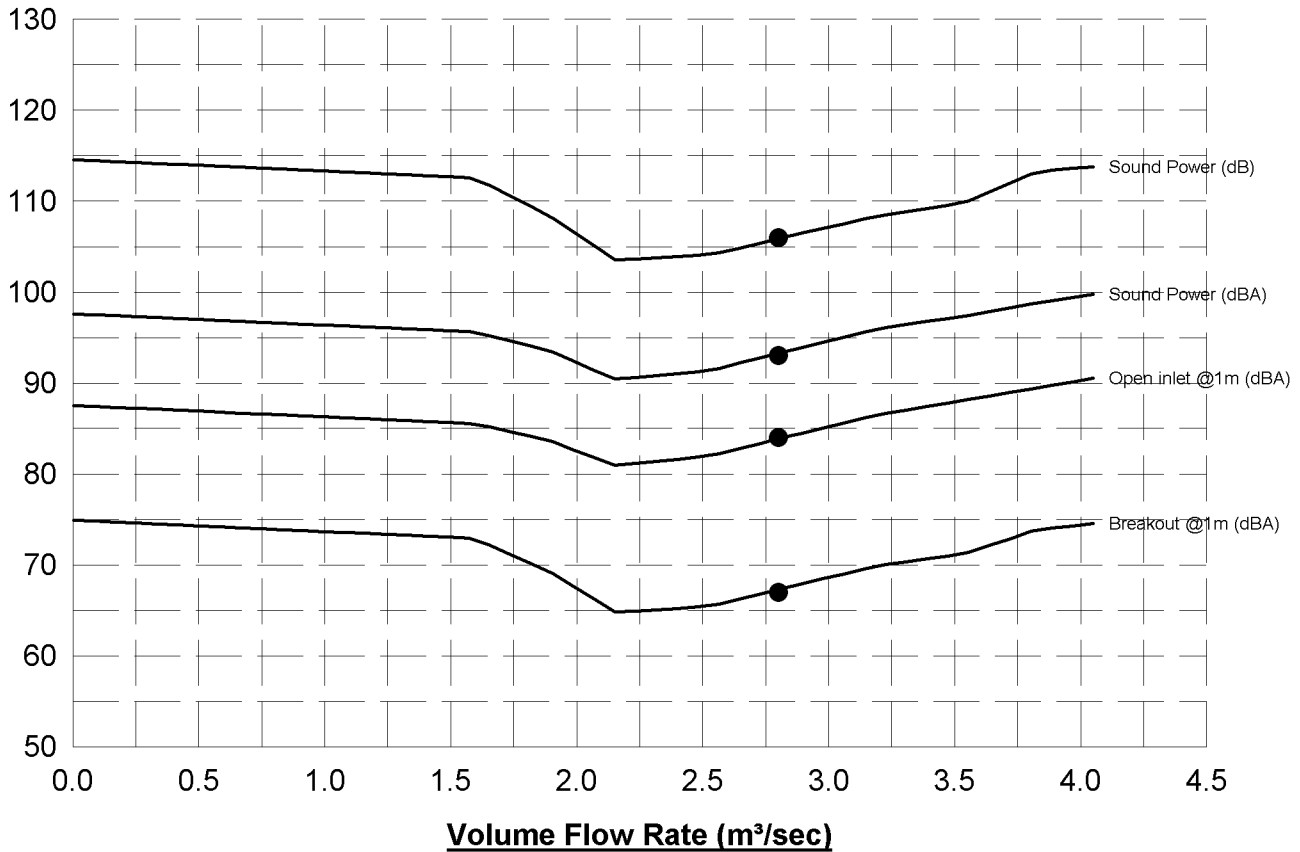
# Fan Noise Data



Better thinking, better solutions

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 Operating point :- 2.8m<sup>3</sup>/sec @1200.0(static) @1.2 Kg/m<sup>3</sup>  
 Breakout figures based on an unlagged fan

## Noise level dB/dBA



## Noise Spectrum Figures at operating point

|  | 63Hz | 125Hz | 250Hz | 500Hz | 1 KHz | 2 KHz | 4 KHz | 8 KHz | O/All |
|--|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Sound Power radiated into duct (dB):-  | 104  | 95    | 100   | 89    | 84    | 80    | 77    | 68    | 106   |
| Sound Power radiated into duct (dBA):- | 78   | 79    | 91    | 86    | 84    | 81    | 78    | 67    | 93    |
| Sound Pressure open inlet @ 1m (dBA):- | 60   | 66    | 80    | 78    | 76    | 73    | 70    | 59    | 84    |
| Sound Pressure open inlet @ 3m (dBA):- | 50   | 56    | 71    | 68    | 67    | 63    | 60    | 49    | 74    |
| Breakout Sound Pressure @ 1m (dBA):-   | 63   | 58    | 64    | 53    | 47    | 44    | 41    | 30    | 67    |
| Breakout Sound Pressure @ 3m (dBA):-   | 54   | 49    | 54    | 43    | 38    | 34    | 31    | 20    | 58    |

Motor Sound Pressure @ 1m (dBA):- 62    Fan & un-muffled motor @ 1m (dBA):-68    Fan & muffled motor @ 1m (dBA):-67

Figures are based on undisturbed flow into the fan, any disturbances to the flow will result in increased noise and reduced flow rate.  
 Breakout figures are based on fan being ducted in and out, and in gauges equal or greater than those of the fan.  
 Spectrum figures vary across the whole curve, the figures quoted above apply only to the operating point.  
 Tolerance on values -0 +3db.