

APMG Ltd.

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ANTICIPATED SOUND LEVEL BARANEK FORMULA Forward Curved

(Sound Power Level (SWL)ref. 10 E-12W.)

(Sound Pressure Level (SPL)ref. 10 E-5 Pa.)

Job Ref:- APMG limited
Fan Ref:- H710

Volume : 5.16 m³/sec
Pressure: 1600 Pa

Inlet Volume:- 18576 cu. m/hr
Static Pressure:- 160 mm.
Impeller Speed :- 1150 rpm
No.of Blades 20
Blade Frequency;- 383.3333 Hz.
O/All S.W.L.:- 111 dB.

OCTAVE BAND

1	2	3	4	5	6	7	8
Mid Frequency of Octave Band							
63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
Spectrum Analysis:- In-Duct Sound Power Level (S.W.L.)							
107	104	103	102	95.5	95	93	89
Spectrum Analysis:- Break-out noise at 1m, Open Inlet, Ducted Outlet (S.P.L.)							
96	93	92	91	84.5	84	82	78
Anticipated Noise Level, dB(A) @ 1m, Open inlet, Ducted outlet							89.5
Spectrum Analysis:- Break-out noise at 1m, Ducted Inlet, Ducted Outlet (S.P.L.)							
92	88	85	83	81	78	75	72
Anticipated Noise Level, dB(A) @ 1m, Ducted inlet, Ducted outlet							86