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	Volume :	7.04 m³/sec
Fan Ref:-	H910	Pressure:	1900 Pa

Inlet Volume:-	25344	cu. m/hr
Static Pressure:-	190	mm.
Impeller Speed :-	1000	rpm
No.of Blades	20	
Blade Frequency;-	333.3333	Hz.
O/All S.W.L.:-	114	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.)							
110	107	106	105	98.5	98	96	92
Spectrum Analysis:- Break-out noise at 1m, Open Inlet, Ducted Outlet (S.P.L.)							
99	96	95	94	87.5	87	85	81

Anticipated Noise Level, dB(A) @ 1m, Open inlet, Ducted outlet 92.5

Spectrum Analysis:- Break-out noise at 1m, Ducted Inlet, Ducted Outlet (S.P.L.)							
95	91	88	86	84	81	78	75

Anticipated Noise Level, dB(A) @ 1m, Ducted inlet, Ducted outlet 89