PERFORMANCE DATA

OAP Sound Power Levels - Standard Unit

Filter Type	Air Flow	Sound Power Levels, Lw, dB, re 10^{-12} Watts												
		Radiated Sound Power Levels							Discharge Sound Power Levels						
		Centre Octave Band Frequency, Hz						Radiated NC	Centre Octave Band Frequency, Hz						Discharge NC
	l/s	125	250	500	1k	2k	4k		125	250	500	1k	2k	4k	
HEPA	47	59	54	52	46	32	27	26	63	56	56	53	49	42	--
	142	65	59	56	53	38	30	31	68	61	61	59	56	51	21
	236	70	63	59	57	45	37	35	73	67	64	64	61	59	28
	330	73	67	62	61	51	45	39	77	72	69	70	67	65	33
	378	75	69	64	63	54	47	41	79	74	71	71	70	68	36

Performance Notes:

1. Test data obtained in accordance with AHRI Standard 880-2008 and ASHRAE Standard 130-2015.
2. Sound Power Levels expressed in decibels (dB) re 10^{-12} watts.
3. Data is raw without any corrections for room absorption, duct attenuation, or ceiling transmission loss.
4. Fan external static pressure is 63Pa in all cases.
5. NC values are calculated based on typical attenuation values outlined in Appendix E, 2002 Addendum to AHRI Standard 885-2008, "A Procedure for Estimating Occupied Space Sound Levels in the Application of air Terminals and Air Outlets".
6. **Radiated NC** is based on a mineral fiber tile ceiling and the environmental effect. The radiated attenuation deductions are as follows:

Radiated Attenuation	Octave Band					
	125	250	500	1k	2k	4k
Total Deductions	18	19	20	26	31	36

7. **Discharge NC** is based on the environmental effect, duct lining effect, end reflection, flex duct effect and sound power division. The total discharge attenuation deductions are as follows:

Discharge Attenuation	Octave Band					
	125	250	500	1k	2k	4k
< 142 l/s	24	28	39	53	59	40
142-330 l/s	27	29	40	51	53	39
> 330 l/s	29	30	41	51	52	39

8. Blanks "-" indicate NCs less than 20.