

Ducted Scrubber Mode Application - Airflow and Noise Level

For Ducted Scrubber mode application, when unit is connected to supply duct to discharge the air back inside the room space (inside the building).

The unit is capable to operate up to the maximum External Static Pressure of 0.6 in.w.g (150 Pascal) when operating at Tap-3/4/5.

Sound Pressure (dBA)

ESP	Pascal						
Speed	0	25	50	75	100	125	150
Tap-5		48.8	48.6	47.6	46.6	42.9	42.8
Tap-4		47.1	46.1	45.3	44.3	40.2	39.3
Tap-3		45.0	43.6	43.1	41.6	36.7	34.1
Tap-2		43.6	42.1	41.2	40.2	32.7	
Tap-1		41.8	39.9	39.9	37.8		

Noise Level

Ducted Scrubber Mode	Speed	Airflow		Octave Band – Lw (dB)								Lp (dBA)
		CFM	CMH	63	125	250	500	1K	2K	4K	8K	
	Tap-5	442	751	53.1	51.1	48.1	46.1	47.1	44.1	42.1	40.1	42.8
Tap-4	330	561	49.6	47.6	44.6	43.6	42.6	39.6	38.6	36.6	39.3	
Tap-3	210	357	44.5	42.5	39.5	38.5	36.5	34.5	33.5	30.5	34.1	
Tap-2	177	301	43.0	41.0	38.0	37.0	36.0	34.0	32.0	30.0	32.7	
Tap-1	158	269	47.7	46.7	43.7	41.7	40.7	38.7	36.7	34.7	37.8	

- Ducted Scrubber Mode at nominal airflow (and lower)
- Ducted Scrubber Mode at higher airflow

Note:

1. Sound pressure (Lp) measured at 1.5 meters distance in front of the unit, tolerance ± 1 dBA
2. Noise level at maximum ESP at respective speed
3. Factory speed tap is set at Tap-3

Ducted Scrubber Mode Typical Application



