

## Performance Data • AHRI Certification and Performance Notes

### Model Series 38S • Series Flow (Constant Volume) • Basic Unit • AHRI Certification Rating Points Fiberglass Liner

Unit Size	Inlet Size	Fan CFM		Fan Watts	Fan Only** @ .25" w.g. (62 Pa) ΔPs														Fan + 100% Primary @ 1.5" w.g. (375 Pa) ΔPs w/ .25" w.g. (62 Pa) Discharge ΔPs									
					Discharge							Radiated							Primary CFM	Min. Inlet ΔPs		Radiated						
					2	3	4	5	6	7	2	3	4	5	6	7	cfm	l/s				"w.g.	Pa	2	3	4	5	6
1	4	180	85	277	65	63	65	62	58	56	54	43	43	39	34	30	180	85	0.08	20	59	52	51	51	45	43		
	5	260	123	277	69	69	71	69	65	63	58	48	48	44	38	34	260	123	0.08	20	63	56	54	52	46	46		
	6	375	177	140	76	77	78	79	74	73	63	56	54	52	44	40	375	177	0.05	12	69	63	60	55	49	49		
3	6	325	153	450	58	57	54	50	44	44	51	48	52	46	36	28	325	153	0.08	20	59	57	58	57	55	60		
	8	575	271	140	71	70	66	64	60	58	65	57	59	56	46	36	575	271	0.08	20	71	66	65	63	53	48		
	10	900	425	450	75	78	75	74	72	70	69	62	62	60	51	40	900	425	0.05	12	73	68	66	63	55	56		
5	10	1100	519	1080	75	78	76	71	68	69	66	65	68	66	61	61	1100	519	0.08	20	64	64	65	61	54	55		
	12	1500	708	880	84	84	79	79	77	75	78	67	68	65	56	52	1500	708	0.08	20	75	68	68	63	59	62		

Motor = ECM.

\*\*Primary air valve is closed and therefore primary cfm is zero.



Ratings are certified in accordance with AHRI Standards.

#### Performance Notes for Sound Power Levels:

- Discharge (external) static pressure is 0.25" w.g. (63 Pa) in all cases, which is the difference (ΔPs) in static pressure from terminal discharge to the room.  
Discharge Sound Power Levels (SWL) now include duct end reflection energy as part of the standard rating. Including the duct end correction provides sound power levels that would normally be transmitted into an acoustically, non-reflective duct. The effect of including the energy correction to the discharge SWL, is higher sound power levels when compared to previous AHRI certified data. For more information on duct end reflection calculations see AHRI Standard 880.
- Radiated sound power is the breakout noise transmitted through the unit casing walls.
- Sound power levels are in decibels, dB re 10<sup>-12</sup> watts.

- All sound data listed by octave bands is raw data without any corrections for room absorption or duct attenuation. Dash (-) in space indicates sound power level is less than 20 dB or equal to background.
- Min. inlet ΔPs is the minimum operating pressure of the primary air valve section.
- Asterisk (\*) in space indicates that the minimum inlet static pressure requirement is greater than 0.5" w.g. (125 Pa) at rated airflow.
- Data derived from independent tests conducted in accordance with ANSI / ASHRAE Standard 130 and AHRI Standard 880.