

## Performance Data • AHRI Certification and Performance Notes

### 3100 Series • Basic Unit • AHRI Certification Rating Points

#### Fiberglass Liner

Inlet Size	Airflow		Min. Inlet ΔPs		Discharge Sound Power Levels @ 1.5" w.g. (375 Pa) ΔPs							Radiated Sound Power Levels @ 1.5" w.g. (375 Pa) ΔPs						
					Octave Band							Octave Band						
	cfm	l/s	"w.g.	Pa	2	3	4	5	6	7	2	3	4	5	6	7		
4	150	71	0.10	25	74	66	59	54	51	44	57	49	44	41	38	32		
5	250	118	0.05	12	68	68	65	57	52	47	60	52	46	40	36	30		
6	400	189	0.01	2	68	68	65	57	52	47	61	58	52	41	37	32		
7	550	260	0.01	2	71	71	64	59	55	52	61	57	53	44	40	34		
8	700	330	0.01	2	72	71	65	60	56	51	63	59	51	44	39	37		
9	900	425	0.01	2	71	68	64	59	56	52	61	56	52	43	40	34		
10	1100	519	0.01	2	70	68	66	62	59	54	59	54	52	44	39	31		
12	1600	755	0.01	2	75	69	68	64	61	57	65	58	53	47	43	35		
14	2100	991	0.01	2	75	68	67	64	61	57	61	56	49	45	42	35		
16	2800	1321	0.02	5	77	69	68	63	60	56	67	62	58	50	46	41		
24 x 16	5350	2525	0.01	2	87	81	79	76	72	69	72	70	70	65	60	55		



Ratings are certified in accordance with AHRI Standards.

#### Performance Notes for Sound Power Levels:

- Discharge sound power is the noise emitted from the unit discharge into the downstream duct. 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.
- Minimum inlet ΔPs is the minimum operating pressure requirement of the unit (damper full open) and the difference in static pressure from inlet to discharge of the unit.
- 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.