



Belt Drive Filtered Supply Fans

Models USAI, USAN and USAL



Models USAI, USAN and USAL provide a complete roof top package that includes the blower, washable aluminum filters and removable hood. These fans are designed to supply fresh, filtered make-up air to replace air being removed by ventilation systems exhausting fumes, gases and odors from building.



USAI



USAN



USAL

Construction Features

Housing

- Constructed of heavy gauge galvanized steel
- Designed for efficient airflow and maximum weather resistance
- Pre-punched mounting holes reduce installation time
- Platform constructed of heavy gauge galvanized steel

Hood

- USAN/USAI - Constructed of heavy gauge steel
- USAL - Constructed of extruded aluminum louvers with mitered and welded corners
- Insulated with 1" fiberglass to prevent condensation
- Hood held in place with quick release clips allowing easy access to filters and blower
- 1" washable aluminum filters

Blower

- Double width, double inlet blowers for maximum air delivery at higher pressures
- Forward curved galvanized steel wheels dynamically balanced for vibration free operation
- Bearing rated at L₅₀ life of 150,000 hours
- Open dripproof motor with sealed ball bearings designed for continuous operation
- Static free, oil and heat resistant belts
- Adjustable motor pulleys for system balancing

Disconnect Switch

- Standard NEMA 1 toggle switch mounted on blower housing sized for voltage and horsepower requirement

Options/Accessories

- Roof Curbs
- Dampers
- 2" Aluminum Filters
- Side Discharge (USAN & USAL)

Fast Ship Program	Next Day	10 Day
USAI106-181	•	•

Consult factory for specific motor availability.



U.L. 705 Listed



CSA Certified

Consult your U.S. Fan representative for availability.



USAL



USAN

based on tests and procedures performed in accordance with AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for [inlet Lw(A)] sound power levels for Installa-

tion Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction.

Model USAN also licensed to bear the AMCA seal for sound performance. The ratings shown are

tion Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction.

The application of sound ratings to various fan installations produces different sound rating requirements. Also, some engineers have preferences for the type of sound rating they want to use. For these reasons, U.S. Fan has provided two different sound rating values for the noise produced by each fan. They are shown in the following values:

DECIBELS this is the sound power level in decibels (db) for each of the 8 octave bands to the reference power of 10-12 watt.

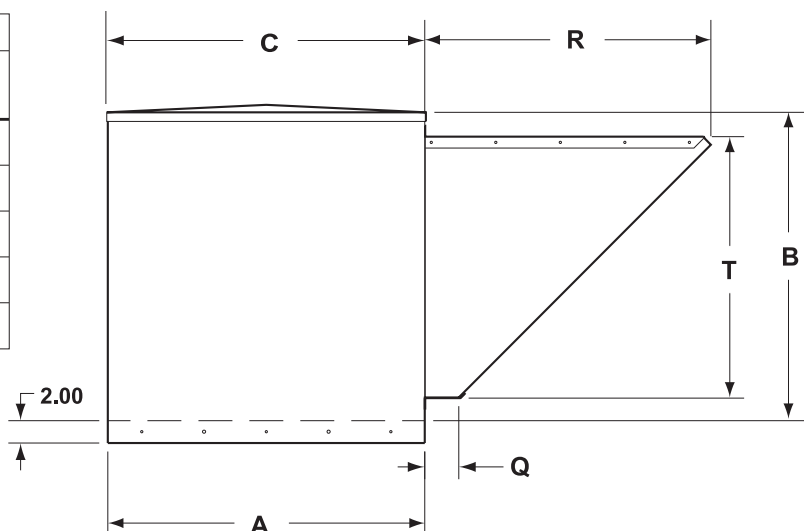
Lw(A) - is a single number sound power level in decibels adjusted to represent the affect of the "A" weighted network on each octave band.

Complete licensed sound rating data is available in Bulletin S20.

USAI

DIMENSIONS						
Fan Model	A	B	C	R	T	Q
USAI106	27.88	28.75	28.25	25.27	23.04	3.0
USAI126	31.86	33.88	32.25	31.45	28.54	3.0
USAI150	39.85	41.50	40.25	38.00	35.79	3.0
USAI181	45.97	45.75	46.44	38.00	35.79	3.0
USAI200	55.96	53.55	56.44	45.11	42.76	3.0

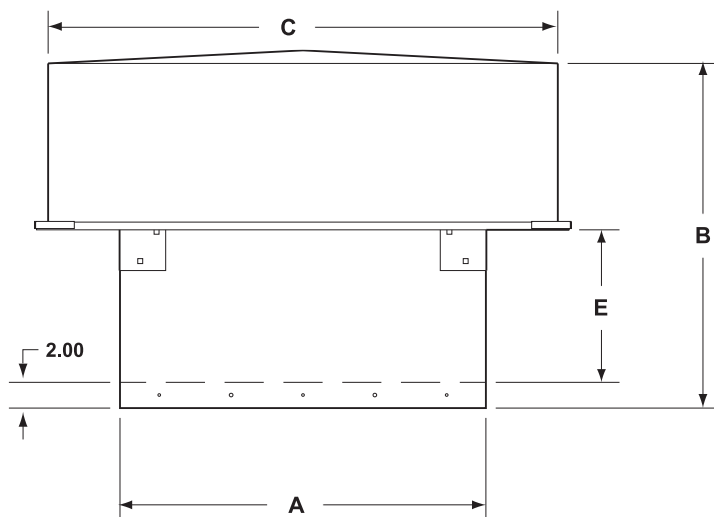
Dimensions are shown in inches.



USAN

DIMENSIONS				
Fan Model	A	B	C	E
USAN106	27.87	26.70	39.00	11.68
USAN126	31.86	35.15	44.00	16.43
USAN150	39.85	39.45	52.00	18.46
USAN181	45.97	50.16	61.36	20.20
USAN200	55.96	58.22	77.49	28.97

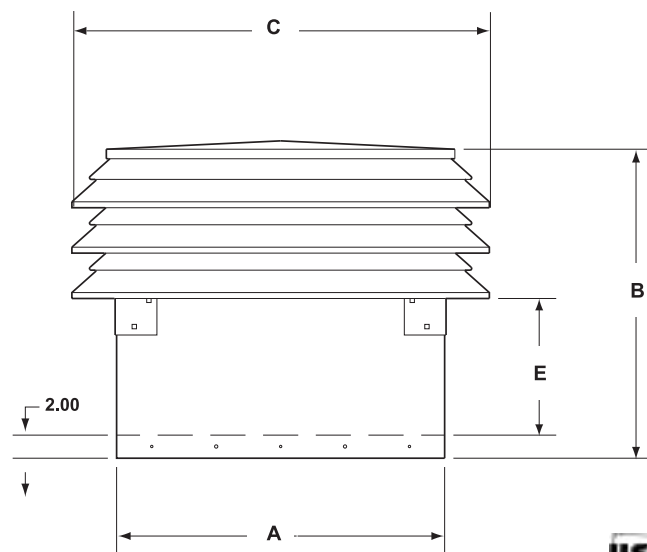
Dimensions are shown in inches.



USAL

DIMENSIONS				
Fan Model	A	B	C	E
USAL106	27.87	27.04	35.63	11.69
USAL126	31.86	36.09	39.63	16.57
USAL150	39.85	40.25	47.63	18.68
USAL181	45.97	53.10	53.79	20.80
USAL200	55.96	61.16	63.91	31.57

Dimensions are shown in inches.



USA1126

PERFORMANCE DATA																																	
Fan Size HP	CFM	Static Pressure																															
		.000" RPM		.125" RPM		.250" RPM		.375" RPM		.500" RPM		.625" RPM		.750" RPM		.875" RPM		1.000" RPM		1.125" RPM		1.250" RPM		1.500" RPM		1.625" RPM		1.750" RPM		1.875" RPM			
		BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)		
126F .33	1400					470		555																Fan Model		HP	RPM Range		Est. Unit Wt. lbs.		Est. Ship Wt. lbs.		
						0.15	66	0.20	67															126F		.33	470-652		170		244		
						488		567		640														126G		.50	496-728		173		247		
	1600					0.19	67	0.25	67	0.30	68													126H		.75	572-850		178		252		
						509		581		652		716												126J		1.00	687-960		185		259		
						0.24	67	0.30	68	0.36	69	0.43	70											126K		1.50	730-1109		202		276		
						533		601		665		728		785										126L		2.00	839-1237		207		281		
						0.30	68	0.36	68	0.43	69	0.50	70	0.57	71																		
					490		560		622		683		741		798		850		903														
					0.30	69	0.37	69	0.44	69	0.51	70	0.59	71	0.67	72	0.74	72	0.83	73													
126G .50					522		587		647		704		758		812		863		912		960												
	2400				0.37	70	0.45	70	0.52	70	0.60	71	0.69	72	0.77	72	0.86	73	0.94	74	1.02	75											
					496		554		615		673		725		778		827		877		925		971		1014								
		0.39	71	0.46	71	0.54	71	0.62	71	0.70	72	0.79	72	0.88	73	0.98	74	1.07	75	1.16	75	1.24	76										
					534		588		645		699		750		799		848		893		939		984		1027		1109		1151				
					0.49	72	0.56	72	0.65	72	0.73	72	0.82	73	0.91	73	1.01	74	1.11	75	1.21	75	1.31	76	1.40	77	1.60	78	1.72	79			
126H .75	3000	572		623		676		727		777		822		868		913		955		998		1041		1121		1158				1197		1237	
		0.61	73	0.68	73	0.77	74	0.86	74	0.95	74	1.05	74	1.15	75	1.26	76	1.36	76	1.47	77	1.57	78	1.78	79	1.88	80	1.99	80	2.12	80		
		611		659		707		756		803		848		890		934		975		1015		1055		1134		1172		1208					
		0.74	75	0.82	75	0.91	75	1.00	75																								

Supply Air Fans

USA150

PERFORMANCE DATA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
150G .50	2000					351																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

USA181

PERFORMANCE DATA																																			
Fan Size HP	CFM	Static Pressure																																	
		.000"		.125"		.250"		.375"		.500"		.625"		.750"		.875"		1.000"		1.250"		1.500"		1.750"		2.000"		2.250"		2.500"					
		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM					
		BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)				
181J 1.00	3000							363		412																									
								0.38	73	0.47	73																								
	3500							375		420		462																							
								0.49	73	0.59	74	0.69	74																						
	4000							388		432		472		509		545																			
								0.63	74	0.74	74	0.86	74	0.97	74	1.09	75																		
	4500					354		401		445		484		519		554		585																	
					0.66	74	0.79	74	0.92	74	1.05	75	1.18	75	1.31	76	1.43	76																	
181K 1.50	5000					377		413		458		497		532		564		596		654															
						0.85	75	0.97	75	1.12	75	1.27	75	1.41	76	1.55	77	1.70	77	1.98	79														
	5500					373		400		433		470		510		545		577		607		664		717											
					0.99	76	1.08	76	1.20	76	1.35	76	1.52	76	1.68	77	1.84	78	1.99	78	2.31	79	2.62	80											
181L 2.00	6000					378		403		425		455		484		522		558		590		620		675		727		775		824					
						1.17	78	1.27	78	1.35	78	1.49	78	1.61	77	1.80	77	1.98	78	2.16	79	2.34	79	2.67	80	3.02	81	3.35	82	3.72	82				
	6500					410		433		453		479		507		535		570		603		633		687		737		786		831		874			
					1.49	79	1.60	79	1.69	79	1.81	79	1.96	79	2.11	79	2.32	79	2.51	80	2.70	81	3.08	81	3.44	82	3.82	82	4.18	83	4.55	84			
181M 3.00	7000					442		463		482		502		529		554		583		616		646		701		750		796		841		883	923		
						1.86	81	1.98	81	2.08	81	2.18	81	2.35	81	2.50	80	2.68	81	2.90	81	3.11	82	3.33	82	3.93	83	4.32	83	4.73	84	5.12	85	5.50	85
	7500					473		493		512		529		552		577		600		628		658		714		763		808		851					
					2.29	82	2.42	82	2.53	82	2.63	82	2.79	82	2.96	82	3.11	82	3.32	83	3.56	83	4.00	83	4.45	84	4.88	84	5.30	85					
181N 5.00	8000					505		523		541		558		576		600		622		644		671		727		777		822							
						2.78	84	2.92	83	3.04	83	3.15	84	3.27	84	3.46	84	3.64	84	3.80	84	4.04	84	4.54	84	5.01	85	5.48	85						
	8500					536		554		571		586		602		623		645		666		686		739											
						3.34	85	3.48	85	3.61	85	3.73	85	3.84	85	4.03	85	4.22	86	4.41	85	4.58	85	5.11	85										
	9000					568		584		600		616		630		646		668		688		708													
					3.96	86	4.11	86	4.25	86	4.38	86	4.50	86	4.65	87	4.86	87	5.07	86	5.26	86													
	9500					599		615		630		645		659		672																			
					4.66	87	4.82	87	4.97	87	5.11	88	5.24	87	5.36	88																			
	10000					631																													
					5.44	89																													

USAI200

PERFORMANCE DATA																																							
Fan Size HP	CFM	Static Pressure																																					
		.000"		.125"		.250"		.375"		.500"		.625"		.750"		1.000"		1.250"		1.500"		1.750"		2.000"		2.250"		2.500"		2.750"									
		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM									
		BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)	BHP	Lw(A)								
200K 1.50	4500											436																											
												0.90	74																										
												406	444	479																									
	5000									0.89	73	1.04	74	1.21	76																								
												417	453	487	549																								
	5500									1.05	74	1.21	75	1.38	76	1.74	79																						
												427	463	495	556	611																							
6000									1.22	75	1.40	76	1.58	77	1.98	80	2.34	82																					
6500									1.43	76	1.61	77	1.81	78	2.20	81	2.62	83	3.03	85																			
												440	473	505	564	619	668																						
7000												419	453	485	516	573	627	676	722																				
200L 2.00												436	466	498	527	584	635	684	729	772																			
	7500							1.72	77	1.91	78	2.13	79	2.34	80	2.78	83	3.22	85	3.71	86	4.19	88	4.67	89														
												423	453	481	511	540	594	645	692	737	779																		
	8000											1.80	79	2.01	79	2.20	79	2.42	80	2.65	81	3.11	84	3.59	85	4.06	87	4.59	88	5.10	89	5.61	90						
200M 3.00	8500											413	441	471	498	524	553	605	655	701	745	787	827	865															
												1.90	79	2.10	80	2.33	80	2.53	81	2.74	82	3.00	83	3.47	83	3.98	86	4.48	87	5.00	89	5.56	89	6.11	91	6.64	91		
200N 5.00	9000											433	460	489	515	539	566	617	665	711	753	795	835	872	908														
												2.23	81	2.44	81	2.68	82	2.90	82	3.11	83	3.36	84	3.88	86	4.39	87	4.94	88	5.46	88	6.03	90	6.62	91	7.20	92	7.77	92
	9500											425	454	480	507	532	556	579	630	676	721	763	803	842	880														
												2.35	82	2.60	82	2.82	83	3.06	83	3.31	84	3.54	84	3.76	85	4.32	87	4.84	87	5.42	88	5.98	88	6.53	90	7.14	91	7.76	92
200P 7.50	10000											448	475	501	525	550	573	595	643	688	731	774	813	850															
												2.75	83	3.01	83	3.24	84	3.48	85	3.75	85	4.00	86	4.23	86	4.79	87	5.36	88	5.92	89	6.53	89	7.12	90	7.69	91		
200N 5.00	12000											537	561	583	603	623	644	665	703	740																			
												4.74	88	5.06	89	5.36	89	5.64	90	5.91	90	6.24	90	6.55	89	7.14	89	7.73	90										
200P 7.50	14000																																						
												627	647																										
												7.53	92	7.91	93																								

The AMCA Certified Ratings Seal for Sound and Air Performance does not apply to model USAI. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for [inlet Lw(A)] sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction. Performances shown are for units with outlet ducts and filters in place. BHP does not include drive losses. **Motors and drives are not mounted and are shipped in separate cartons.**

USAN/USAL106

PERFORMANCE DATA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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		.000"		.125"		.250"		.375"		.500"		.625"		.750"		.875"		1.000"		1.125"		1.250"		1.375"		1.500"		1.750"		1.875"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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		.000" RPM		.125" RPM		.250" RPM		.375" RPM		.500" RPM		.625" RPM		.750" RPM		.875" RPM		1.000" RPM		1.125" RPM		1.250" RPM		1.500" RPM		1.750" RPM		1.875" RPM		2.000" RPM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*	BHP	Lw(A)*																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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PERFORMANCE DATA																							
Fan Size HP	CFM	Static Pressure																					
		.000"		.125"		.250"		.375"		.500"		.750"		1.000"		1.250"		1.500"		1.750"		2.000"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
Fan Size HP	CFM	.000"		.125"		.250"		.375"		.500"		.750"		1.000"		1.250"		1.500"		1.750"		2.000"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*	Lw(A)*
200K 1.50	4000							329	0.48	374	0.61												
	5000							346	0.70	386	0.85	459											
	6000					330	0.83	368	1.15	404	1.50	471	532	589									
	6500					345	1.00	380	1.16	415	1.34	480	537	593	645								
	7000					361	1.19	394	1.37	427	1.56	488	545	598	649	696							
	7500					341	1.22	377	1.41	409	1.78	499	554	604	653	700	744						
	8000					329	1.31	360	1.47	393	1.66	424	482	510	563	613	658	705	749	790	829		
	8500					349	1.57	379	1.74	410	1.94	439	498	521	572	621	667	709	753	794	833	870	
						370	1.87	398	2.05	427	2.25	455	482	532	583	630	675	717	758	799	838	875	910
						390	2.20	417	2.39	444	2.59	472	498	545	594	640	684	725	764	803	842	879	
200L 2.00	9000					411	2.56	436	2.76	461	2.96	488	513	560	606	651	693	734	773	809	846		
	9500					421	2.81	447	3.01	474	3.21	501	526	573	619	664	706	746	785	823	861		
200M 3.00	10000					452	3.41	478	3.61	505	3.81	532	557	603	649	693	734	773	809	846			
	11000					462	3.63	488	3.83	515	4.03	542	567	613	659	702	742	781	817	853			
200N 5.00	12000					493	4.43	519	4.63	546	4.83	573	598	644	690	732	771	808	844				
	13000					534	5.63	560	5.83	607	6.23	664	689	735	781	822	861	897	932				
200P 7.50	14000					575	7.03	601	7.23	648	7.43	695	720	766	812	852	888	923					

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for [inlet Lw(A)] sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction. ***Lw(A) shown reflects levels for Model USAN only. Subtract 1 db to find Lw(A) for Model USAL.** Performance shown is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of filters in the airstream. Power rating (BHP) does not include drive losses.