

## XG-DS-600 AHRI CERTIFIED RATING POINTS



### RADIATED SOUND

Power Levels @ 1.5" w.g. ΔPs

Unit Size	CFM	Min ΔPs	Octave Band					
			2	3	4	5	6	7
4	150	0.09	59	53	47	47	36	32
5	250	0.20	60	54	47	47	38	35
6	400	0.45	62	54	47	47	40	38
7	550	0.47	63	54	47	47	43	42
8	700	0.49	64	54	47	47	45	45
9	900	0.49	66	59	50	50	45	44
10	1100	0.50	68	63	52	52	45	42
12	1600	0.50	68	63	52	52	45	42
14	2100	0.43	68	62	54	55	48	47
16	2800	0.58	70	63	55	55	48	47

### DISCHARGE SOUND

Power Levels @ 1.5" w.g. ΔPs

Unit Size	CFM	Min ΔPs	Octave Band					
			2	3	4	5	6	7
4	150	0.09	70	66	58	57	48	45
5	250	0.20	73	67	59	58	49	46
6	400	0.45	77	68	60	59	50	47
7	550	0.47	77	70	61	61	52	49
8	700	0.49	78	71	62	62	53	50
9	900	0.49	79	72	63	62	55	51
10	1100	0.50	79	72	63	62	56	52
12	1600	0.50	80	72	64	63	57	54
14	2100	0.43	80	73	64	64	58	57
16	2800	0.58	81	73	66	66	59	57

### PERFORMANCE NOTES

- 1) Radiated sound is the noise transmitted through the unit casing
- 2) Discharge sound is noise emitted from unit discharge into downstream ductwork
- 3) Sound power levels expressed in decibels, (dB) re 10<sup>-12</sup> Watts
- 4) Min ΔPs is the min. operating pressure requirement of the unit with the damper full open and is the static pressure drop from the unit inlet to the unit discharge
- 5) Performance data based on laboratory tests conducted in accordance with ASHRAE 130-2016 and AHRI 880-2017
- 6) Discharge sound power levels include duct end reflection corrections per AHRI Standard 880-2017
- 7) Sound performance based on units lined with standard dual density fiberglass insulation

**RADIATED SOUND MODEL XG-DS**

		OCTAVE BAND SOUND POWER, Lw, dB																												
Unit Size	CFM	Min ΔPs	ΔPs = 0.50 in. wg.							ΔPs = 1.0 in. wg.							ΔPs = 1.5 in. wg.							ΔPs = 3.0 in. wg.						
			2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC
4	50	0.03	50	41	37	40	30	27	<15	51	43	34	34	31	29	<15	51	46	37	37	32	31	<15	52	49	45	45	41	41	19
	100	0.06	53	43	38	39	28	24	<15	54	47	41	41	36	32	<15	56	52	39	41	33	31	20	59	59	48	48	43	43	28
	150	0.09	58	48	43	44	36	30	20	57	47	42	42	34	27	<15	59	53	47	47	36	32	21	60	61	50	52	43	44	31
	200	0.12								63	51	46	46	37	30	22	67	57	50	52	41	37	31	65	63	53	56	45	45	33
	250	0.20								68	55	53	54	43	38	29	70	59	55	55	45	38	35	70	65	57	60	48	46	35
5	150	0.09	51	42	37	39	31	28	<15	52	44	36	36	33	32	<15	52	47	40	40	36	36	<15	54	50	46	46	43	44	20
	200	0.12	54	44	39	39	29	25	<15	55	48	42	42	37	33	<15	57	52	41	42	36	34	20	60	58	49	49	44	44	27
	250	0.20	59	49	43	44	36	30	21	58	48	43	43	36	30	16	60	54	47	47	38	35	22	62	61	51	53	44	45	31
	300	0.28								64	52	47	47	38	32	23	67	57	50	52	42	38	31	66	63	54	56	46	46	33
	350	0.37								69	56	53	54	44	39	30	70	59	55	55	46	39	35	71	66	57	60	48	47	37
6	200	0.12	51	42	37	38	31	29	<15	52	44	37	37	34	33	<15	52	47	41	41	38	38	15	55	51	47	47	44	45	21
	300	0.28	55	45	39	39	31	27	16	57	49	42	42	37	34	18	58	52	43	44	39	38	20	61	58	50	50	45	46	27
	400	0.45	60	49	43	43	35	30	22	60	50	44	44	38	34	22	62	54	47	47	40	38	25	64	61	52	53	45	47	31
	500	0.74								65	54	48	48	41	37	29	67	57	50	51	44	41	31	69	64	55	56	47	48	34
	600	1.00								70	58	53	53	45	41	35	70	60	54	54	47	43	35	74	67	58	59	49	49	40
7	350	0.16	53	44	37	37	33	31	<15	53	46	40	40	37	38	<15	54	48	45	45	44	45	19	58	53	49	49	47	49	23
	450	0.28	56	47	40	39	33	29	17	59	50	43	43	38	36	21	60	52	46	46	43	43	22	63	57	52	51	46	48	26
	550	0.47	61	50	43	43	35	30	23	62	52	45	45	41	38	25	63	54	47	47	43	42	26	67	61	54	54	47	49	31
	650	0.68								66	56	49	49	43	40	30	67	57	50	51	45	43	31	71	64	56	56	48	50	36
	750	0.90								71	59	53	53	46	43	36	70	60	54	54	48	45	35	76	68	58	59	49	51	42
8	400	0.17	53	44	37	36	33	32	<15	53	46	41	41	38	39	<15	54	48	46	46	46	47	20	59	54	50	50	48	50	24
	550	0.29	57	48	40	39	35	31	18	61	51	43	43	38	37	23	61	52	48	48	46	47	23	64	57	53	52	47	50	27
	700	0.49	62	50	43	42	34	30	25	64	54	46	46	43	42	27	64	54	47	47	45	45	27	69	61	55	54	48	51	34
	850	0.61								67	58	50	50	46	45	31	67	57	50	50	47	46	31	74	65	57	56	49	52	40
	1000	0.73								72	61	53	52	47	45	38	70	61	53	53	49	49	35	79	69	59	58	50	53	46
9	500	0.19	54	46	38	38	35	32	<15	55	48	42	42	39	39	16	56	50	46	47	45	46	20	61	56	52	52	47	50	26
	700	0.28	58	50	41	41	36	31	20	61	54	45	44	39	37	23	63	55	49	48	45	45	26	66	60	54	53	47	51	30
	900	0.49	63	53	45	44	36	30	26	65	58	48	48	43	41	29	66	59	50	50	45	44	30	70	64	56	55	48	52	35
	1100	0.62								68	60	52	52	44	42	32	69	62	53	53	47	44	34	73	68	58	57	48	53	39
	1300	0.81								73	64	55	54	47	43	39	72	65	56	55	48	46	38	77	73	59	58	49	53	45
10	700	0.23	56	50	40	42	39	31	18	58	53	44	44	40	39	21	59	55	47	48	43	43	24	65	60	55	55	46	50	30
	900	0.27	60	53	43	43	37	30	22	62	58	47	46	41	37	27	65	60	50	49	44	43	29	69	63	56	55	48	53	34
	1100	0.50	64	56	46	46	37	29	27	66	61	50	50	43	39	31	68	63	52	52	45	42	33	71	67	57	56	48	53	38
	1300	0.62								69	62	53	53	43	39	34	71	66	55	55	47	43	37	73	71	58	57	48	53	42
	1500	0.86								73	66	56	55	47	42	39	74	68	58	57	48	44	40	75	75	59	58	48	53	47
12	800	0.12	50	48	41	41	34	30	15	58	53	44	44	40	39	21	59	55	47	48	43	43	24	65	60	55	55	46	50	30
	1200	0.26	56	53	46	46	37	30	21	62	58	47	46	41	37	27	65	60	50	49	44	43	29	69	63	56	55	48	53	34
	1600	0.50	62	58	50	50	39	33	27	66	61	50	50	43	39	31	68	63	52	52	45	42	33	71	67	57	56	48	53	38
	2000	0.69								69	62	53	53	43	39	34	71	66	55	55	47	43	37	73	71	58	57	48	53	42
	2400	1.02								73	66	56	55	47	42	39	74	68	58	57	48	44	40	75	75	59	58	48	53	47
14	1000	0.02	52	44	39	40	35	31	<15	54	50	44	45	42	41	18	55	52	48	49	47	47	22	62	59	57	57	54	55	32
	1600	0.24	58	52	46	46	39	35	20	62	57	49	50	45	44	26	61	57	51	52	48	48	26	69	64	59	61	56	59	34
	2100	0.43	63	57	50	50	42	39	26	67	61	53	54	48	46	31	68	62	54	55	48	47	33	75	68	61	64	58	62	41
	2600	0.67								69	64	58	59	50	47	34	72	66	58	59	50	49	38	81	72	62	68	59	66	49
	3100	0.81								71	67	63	64	52	48	38	76	70	62	63	52	51	43	87	77	64	71	61	69	55
16	1400	0.14	53	47	41	41	34	33	<15	56	52	45	46	41	43	20	58	55	48	49	43	44	24	65	61	56	57	50	52	31
	2100	0.34	59	52	45	45	38	34	21	63	57	49	49	42	42	26	66	60	52	53	46	46	30	72	66	61	62	55	55	38
	2800	0.58	64	56	50	50	41	35	27	68	62	53	53	45	43	32	70	63	55	55	48	47	35	76	66	61	61	57	59	43
	3500	0.82								73	67	57	57	48	44	39	74	66	58	57	50	48	40	80	66	61	60	59	63	48
	4200	1.05								78	72	61	61	51	45	45	78	69	61	59	52	49	45	84	66	61	59	61	67	53

- AHRI certified data is highlighted while all other data are application ratings
- Radiated sound is the noise transmitted through the unit casing
- Sound power levels expressed in decibels, (dB) re 10<sup>-12</sup> Watts
- Min ΔPs is the minimum operating pressure requirement of the unit with the damper full open and is the static pressure drop from the unit inlet to the unit discharge
- Performance data based on laboratory tests conducted in accordance with ASHRAE 130-2016 and AHRI 880-2017
- NC values are calculated using attenuation credits outlined in AHRI 885-2008 Appendix E
- Blank spaces indicate Minimum Ps if unit exceeds the ΔPs across the unit
- Sound performance based on units lined with standard dual density fiberglass insulation

### DISCHARGE SOUND MODEL XG-DS

OCTAVE BAND SOUND POWER, Lw, dB																														
Unit Size	CFM	Min ΔPs	ΔPs = 0.50 in. wg.					NC	ΔPs = 1.0 in. wg.					NC	ΔPs = 1.5 in. wg.					NC	ΔPs = 3.0 in. wg.					NC				
			2	3	4	5	6		7	2	3	4	5		6	7	2	3	4		5	6	7	2	3		4	5	6	7
4	50	0.03	60	49	43	44	33	29	<15	63	56	48	47	36	34	18	64	55	48	47	39	35	20	66	60	50	49	47	43	22
	100	0.06	68	57	51	52	38	30	25	69	60	52	53	43	38	26	71	64	52	53	43	41	29	71	70	56	57	48	47	31
	150	0.09	67	60	52	52	43	38	23	68	55	52	52	39	32	25	70	66	58	57	48	45	27	78	74	62	63	52	51	38
	200	0.12								70	59	52	52	43	37	27	82	68	63	63	53	50	43	86	78	68	69	54	53	48
	250	0.20								81	70	63	64	53	48	41	80	68	61	61	51	48	40	93	81	73	74	56	56	57
5	150	0.09	61	51	44	45	34	30	<15	65	57	49	48	39	36	21	65	57	50	49	41	38	21	68	62	53	52	48	46	25
	200	0.12	69	58	52	52	39	33	22	70	61	53	53	44	39	27	71	64	54	54	45	43	29	73	70	57	58	49	48	31
	250	0.20	69	61	53	53	44	39	25	70	58	53	53	41	35	27	73	67	59	58	49	46	31	79	74	63	64	53	52	39
	300	0.28								72	61	54	54	45	39	26	82	69	63	63	53	50	39	86	78	68	69	55	54	44
	350	0.37								82	71	64	64	54	49	39	81	69	62	62	52	49	38	93	81	73	74	57	57	53
6	200	0.12	62	52	45	45	35	30	17	66	58	50	49	40	37	22	66	58	51	50	42	39	22	69	63	54	53	48	47	22
	300	0.28	69	59	52	52	41	35	22	71	62	54	54	45	40	25	72	65	55	55	46	44	26	74	70	59	59	50	50	29
	400	0.45	71	62	54	54	45	40	25	72	61	55	55	44	38	26	77	68	60	59	50	47	32	80	74	64	64	53	53	40
	500	0.74								75	65	57	57	48	43	30	82	71	64	64	54	51	39	86	78	69	69	56	56	44
	600	1.00								83	73	65	65	55	51	40	83	72	64	64	54	51	40	92	82	74	74	59	59	52
7	350	0.16	64	55	47	47	37	31	16	69	60	52	51	44	40	22	68	61	54	53	45	44	21	72	66	59	58	50	51	26
	450	0.28	70	60	53	52	43	39	23	73	64	55	55	47	42	26	73	66	57	57	48	46	27	76	70	61	61	51	52	31
	550	0.47	74	64	56	56	47	41	29	75	65	57	57	47	42	29	77	70	61	61	52	49	32	81	74	65	65	54	55	38
	650	0.68								78	68	60	59	50	46	34	82	72	64	64	55	52	39	86	78	70	69	57	57	44
	750	0.90								84	74	66	65	56	52	39	84	74	66	66	56	53	40	92	82	74	74	60	60	49
8	400	0.17	65	56	48	47	38	31	17	70	61	53	52	45	41	23	69	62	55	54	46	45	22	73	67	60	59	50	52	27
	550	0.29	70	61	53	52	45	41	23	74	65	56	56	48	43	29	74	67	59	58	50	48	29	78	71	63	62	52	54	34
	700	0.49	76	65	57	57	48	42	31	77	68	59	59	50	45	32	78	71	62	62	53	50	34	82	74	66	65	54	56	39
	850	0.61								81	72	63	63	54	50	35	82	74	65	65	56	53	36	87	79	71	70	58	59	41
	1000	0.73								85	76	67	66	57	54	40	86	77	68	68	58	55	41	91	83	75	74	62	62	48
9	500	0.19	66	57	49	48	39	33	18	70	62	54	53	46	43	23	70	63	55	54	46	45	23	74	68	61	60	51	52	29
	700	0.28	73	64	55	55	48	44	25	74	66	58	57	49	45	29	74	67	59	58	50	48	29	78	71	64	63	54	55	34
	900	0.49	81	72	64	63	55	51	29	78	69	61	61	53	48	31	79	72	63	62	55	51	31	82	75	67	66	56	57	36
	1100	0.62								81	73	64	64	55	51	35	82	75	66	66	57	54	36	86	79	71	70	60	60	41
	1300	0.81								84	76	67	67	58	55	39	86	78	69	69	60	57	41	90	83	74	74	64	64	47
10	700	0.23	68	58	50	49	42	37	23	71	64	57	56	48	46	25	72	64	54	54	47	44	26	75	69	63	63	53	53	30
	900	0.27	77	67	59	58	52	47	32	75	67	60	59	52	48	27	76	68	59	58	52	48	29	79	72	65	65	56	56	31
	1100	0.50	86	79	70	70	62	59	42	79	70	62	62	55	50	32	79	72	63	62	56	52	32	82	75	67	66	58	58	36
	1300	0.62								82	73	65	65	57	53	39	83	76	67	66	59	56	39	86	79	71	70	62	62	44
	1500	0.86								84	76	67	67	59	56	39	86	79	70	70	62	59	41	90	83	74	74	65	65	46
12	800	0.12	63	55	48	47	42	36	<15	66	59	54	52	46	44	16	68	62	57	56	48	47	19	71	66	64	62	52	54	24
	1200	0.26	70	61	54	53	47	42	21	73	65	59	58	51	48	32	74	67	61	60	53	51	26	78	72	66	65	55	58	31
	1600	0.50	76	67	60	59	52	48	29	79	71	63	63	56	52	32	80	72	64	63	57	54	34	84	77	68	67	58	61	39
	2000	0.69								83	75	68	67	60	56	38	84	76	69	68	61	58	39	91	83	70	70	61	65	46
	2400	1.02								87	79	72	71	63	60	43	88	80	73	72	64	61	44	97	88	72	72	64	68	53
14	1000	0.02	61	52	46	46	39	34	<15	66	58	52	52	44	41	16	68	62	56	56	47	45	19	72	67	65	64	53	54	25
	1600	0.24	70	60	53	53	47	43	21	74	65	57	57	51	47	26	75	68	60	60	53	52	27	80	73	66	66	57	58	34
	2100	0.43	77	67	59	59	54	50	30	80	70	62	62	57	52	34	80	73	64	64	58	57	34	86	77	68	67	61	61	42
	2600	0.67								83	74	66	66	60	56	36	84	76	67	67	61	59	39	93	82	70	69	65	64	50
	3100	0.81								85	77	69	69	62	60	40	87	79	70	70	63	60	43	99	87	71	70	68	68	58
16	1400	0.14	68	58	52	52	46	39	18	70	62	55	55	49	45	21	71	64	59	59	51	49	22	75	70	66	67	55	55	28
	2100	0.34	75	65	58	59	53	47	27	78	68	61	61	56	51	31	80	70	63	63	57	54	34	82	74	67	67	60	58	36
	2800	0.58	76	65	58	59	54	48	29	81	72	64	65	58	54	35	81	73	66	66	59	57	35	89	78	68	67	65	61	45
	3500	0.82								84	76	67	69	60	57	39	82	76	69	69	61	60	36	96	82	69	67	70	64	54
	4200	1.05								87	80	70	73	62	60	43	83	79	72	72	63	63	39	103	86	70	67	75	67	63

1) AHRI certified data is highlighted while all other data are application ratings  
 2) Discharge sound is noise emitted from unit discharge into downstream ductwork  
 3) Sound power levels expressed in decibels, (dB) re 10<sup>-12</sup> Watts  
 4) Min ΔPs is the min. operating pressure requirement of the unit with the damper full open and is the static pressure drop from the unit inlet to the unit discharge  
 5) Performance data based on laboratory tests conducted in accordance with ASHRAE 130-2016 and AHRI 880-2017

6) NC values are calculated using attenuation credits outlined in AHRI 885-2008 Appendix E  
 7) Blank spaces indicate Minimum Ps if unit exceeds the ΔPs across the unit  
 8) Sound performance based on units lined with standard dual density fiberglass insulation  
 9) Discharge sound power levels include duct end reflection corrections per AHRI Standard 880-2017

## XG-DS-600 RECOMMENDED MIN/MAX AIRFLOW RANGES

XG-DS-600 Recommended Minimum and Maximum Airflow Ranges						
Unit Size	Pneumatic / Analog		Digital Controls - DDC			
			Transducer Min $\Delta P$ / Min CFM		Transducer Max $\Delta P$ / Max CFM	
	Min CFM	Max CFM	0.01	0.03	1	1.5
4	50	300	30	50	300	370
5	65	375	40	65	375	460
6	95	540	55	95	540	660
7	130	760	75	130	760	930
8	170	990	100	170	990	1210
9	220	1250	125	220	1250	1530
10	285	1640	165	285	1640	2010
12	410	2350	235	410	2350	2880
14	565	3250	325	565	3250	3980
16	710	4100	410	710	4100	5020

### PERFORMANCE NOTES

- 1) Actual minimum and maximum airflow ranges depend on the transducer differential pressure range and accuracy.
- 2) Contact the manufacturer of installed DDC equipment for transducer minimum and maximum differential pressure,  $\Delta P$ , limits.
- 3) Minimum CFM for Pneumatic and Analog controls are based on a sensor differential pressure of 0.03 in. w.g.
- 4) Maximum CFM for Pneumatic and Analog controls are based on a sensor differential pressure of 1.00 in. wg.
- 5)  $CFM = (\sqrt{\Delta P}) * K$  Factor
- 6) K Factor is the airflow at 1"  $\Delta P$
- 7) Recommendations are for pressure independent units.
- 8) Pressure dependent units minimum CFM is always zero and there is no maximum.

### CERTIFICATIONS AND STANDARDS

- Units tested per ANSI / ASHRAE Standard 130.
- All model sizes certified in accordance with AHRI 880 certification program.
- ETL listed to meet requirements of UL 1995 and CSA 236.
- Dual-density fiberglass insulation meets UL 181 and NFPA 90A requirements.
- Insulation meets ASHRAE 62.1 requirements for resistance to mold growth and erosion.