

**XG-BP-600  
 AHRI CERTIFIED RATING POINTS**

**RADIATED SOUND**

Power Levels @ Min ΔPs

Unit Size	CFM	Min ΔPs	Octave Band					
			2	3	4	5	6	7
4	150	0.01	35	29	26	22	19	17
5	250	0.05	40	37	36	32	24	20
6	400	0.13	50	46	45	43	36	29
7	550	0.03	53	44	39	35	25	22
8	700	0.05	60	53	45	40	31	27
9	900	0.03	57	45	40	35	29	25
10	1100	0.05	57	49	45	40	33	28
12-OV	1500	0.08	55	51	47	41	33	26
14-OV	2000	0.10	57	54	53	49	43	41
16-OV	2400	0.09	59	58	57	53	45	31

**DISCHARGE SOUND**

Power Levels @ Min ΔPs

Unit Size	CFM	Min ΔPs	Octave Band					
			2	3	4	5	6	7
4	150	0.01	54	39	33	29	27	19
5	250	0.06	57	46	40	38	33	24
6	400	0.13	61	57	52	51	44	39
7	550	0.03	64	52	48	45	40	31
8	700	0.05	65	59	56	53	45	38
9	900	0.04	64	58	54	50	41	35
10	1100	0.05	66	62	58	54	46	41
12-OV	1500	0.08	63	60	58	55	48	42
14-OV	2000	0.10	64	65	65	58	53	50
16-OV	2400	0.09	62	59	59	58	49	42

**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 BP

OCTAVE BAND SOUND POWER, L <sub>w</sub> , dB									
Unit Size	CFM	Min ΔPs	ΔPs = Min ΔPs						
			2	3	4	5	6	7	NC
4	50	0.01	33	27	25	21	18	13	<15
	100	0.01	35	29	26	22	19	14	<15
	<b>150</b>	<b>0.01</b>	35	29	26	22	19	17	<15
	200	0.05	35	35	29	29	20	20	<15
	250	0.05	40	37	36	32	24	20	<15
5	150	0.01	35	29	26	22	19	17	<15
	200	0.05	35	35	29	29	20	20	<15
	<b>250</b>	<b>0.05</b>	40	37	36	32	24	20	<15
	300	0.08	45	39	42	35	27	20	15
	350	0.10	47	42	43	39	33	25	17
6	200	0.05	35	35	29	29	20	20	<15
	300	0.08	45	39	42	35	27	20	15
	<b>400</b>	<b>0.13</b>	50	46	45	43	36	29	19
	500	0.20	52	47	45	44	38	34	20
	600	0.30	54	49	46	47	41	39	20
7	350	0.01	46	38	33	28	20	20	<15
	450	0.02	48	40	35	30	22	20	<15
	<b>550</b>	<b>0.03</b>	53	44	39	35	25	22	17
	650	0.04	58	51	43	38	29	25	21
	750	0.05	61	54	46	41	32	27	22
8	400	0.02	45	38	33	26	20	20	<15
	550	0.03	53	44	39	35	25	22	17
	<b>700</b>	<b>0.05</b>	60	53	45	40	31	27	22
	850	0.08	63	54	47	44	35	33	25
	1000	0.10	66	55	48	46	40	35	30
9	500	0.01	55	38	30	23	20	20	16
	700	0.02	56	40	35	29	22	20	17
	<b>900</b>	<b>0.03</b>	57	45	40	35	29	25	19
	1100	0.07	58	50	48	43	36	31	22
	1300	0.07	58	50	48	43	36	31	22
10	700	0.02	56	40	35	29	22	20	17
	900	0.03	57	45	40	35	29	25	19
	<b>1100</b>	<b>0.05</b>	57	49	45	40	33	28	19
	1300	0.07	58	50	48	43	36	31	22
	1500	0.13	59	51	52	46	40	35	26
12-0V	700	0.02	47	45	42	34	28	20	<15
	1100	0.04	50	48	45	37	28	20	19
	<b>1500</b>	<b>0.08</b>	55	51	47	41	33	26	21
	1900	0.15	60	55	50	44	36	30	26
	2300	0.20	65	59	52	47	40	34	28
14-0V	1000	0.02	55	46	44	39	31	25	20
	1500	0.05	58	49	47	42	34	25	21
	<b>2000</b>	<b>0.10</b>	57	54	53	49	43	41	27
	2500	0.15	57	59	59	54	49	50	34
	3000	0.20	71	68	64	57	52	50	39
16-0V	1200	0.03	55	54	53	49	41	27	22
	1800	0.05	57	56	55	51	43	29	28
	<b>2400</b>	<b>0.09</b>	59	58	57	53	45	31	34
	3000	0.14	61	62	61	58	51	43	37
	3600	0.21	67	68	67	64	58	53	43

### DISCHARGE SOUND MODEL BP

OCTAVE BAND SOUND POWER, L <sub>w</sub> , dB									
Unit Size	CFM	Min ΔPs	ΔPs = Min ΔPs						
			2	3	4	5	6	7	NC
4	50	0.01	48	33	27	23	21	13	<15
	100	0.01	51	36	30	26	24	16	<15
	<b>150</b>	<b>0.01</b>	54	39	33	29	27	19	<15
	200	0.05	57	42	36	32	30	22	<15
	250	0.06	57	46	40	38	33	24	<15
5	150	0.01	54	39	33	29	27	19	<15
	200	0.05	57	42	36	32	30	22	<15
	<b>250</b>	<b>0.06</b>	57	46	40	38	33	24	<15
	300	0.08	56	50	45	43	35	25	<15
	350	0.10	58	54	48	47	39	35	<15
6	200	0.05	57	42	36	32	30	22	<15
	300	0.08	56	50	45	43	35	32	<15
	<b>400</b>	<b>0.13</b>	61	57	52	51	44	39	<15
	500	0.20	66	62	58	56	49	45	21
	600	0.30	72	68	64	62	55	52	27
7	350	0.01	61	46	42	38	37	26	<15
	450	0.02	63	48	44	40	39	28	15
	<b>550</b>	<b>0.03</b>	64	52	48	45	40	31	16
	650	0.04	65	57	51	49	43	35	17
	750	0.06	66	60	57	54	46	39	18
8	400	0.02	63	46	40	36	36	25	<15
	550	0.03	64	52	48	45	40	31	16
	<b>700</b>	<b>0.05</b>	65	59	56	53	45	38	17
	850	0.08	68	64	60	58	50	42	21
	1000	0.10	72	68	64	63	55	49	26
9	500	0.01	61	50	45	39	31	24	<15
	700	0.03	63	52	47	41	33	26	<15
	<b>900</b>	<b>0.04</b>	64	58	54	50	41	35	16
	1100	0.05	66	62	58	54	46	41	19
	1300	0.07	67	63	61	58	51	42	20
10	700	0.03	63	52	47	41	33	26	<15
	900	0.04	64	58	54	50	41	35	16
	<b>1100</b>	<b>0.05</b>	66	62	58	54	46	41	19
	1300	0.07	67	63	61	58	51	42	20
	1500	0.10	69	64	65	60	57	43	22
12-0V	700	0.02	57	49	46	43	35	27	<15
	1100	0.04	59	51	48	45	37	27	15
	<b>1500</b>	<b>0.08</b>	63	60	58	55	48	42	16
	1900	0.12	65	62	61	58	52	47	17
	2300	0.17	68	63	63	62	56	52	19
14-0V	1000	0.02	55	56	51	44	38	33	<15
	1500	0.05	58	59	54	47	41	36	15
	<b>2000</b>	<b>0.10</b>	64	65	65	58	53	50	22
	2500	0.15	70	69	69	63	58	55	27
	3000	0.20	77	74	74	68	63	60	33
16-0V	1200	0.03	55	50	51	49	41	34	<15
	1800	0.05	58	53	54	52	44	37	15
	<b>2400</b>	<b>0.09</b>	62	59	59	58	49	42	17
	3000	0.14	68	71	66	65	58	54	29
	3600	0.21	73	71	73	72	65	60	29

1) AHRI certified data is highlighted while all other data are application ratings  
 2) Radiated sound is the noise transmitted through the unit casing  
 3) Discharge sound is noise emitted from unit discharge into downstream ductwork  
 4) Sound power levels expressed in decibels, (dB) re 10<sup>-12</sup> Watts  
 5) 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  
 6) Performance data based on laboratory tests conducted in accordance with ASHRAE 130-2016 and AHRI 880-2017

7) NC values are calculated using attenuation credits outlined in AHRI 885-2008 Appendix E  
 8) Blank spaces indicate Minimum Ps if unit exceeds the ΔPs across the unit  
 9) Sound performance based on units lined with standard dual density fiberglass insulation  
 10) Discharge sound power levels include duct end reflection corrections per AHRI Standard 880-2017  
 11) Size 12, 14, and 16 are flat ovals and the AHRI rating points are calculated from multiplying the inlet area, ft<sup>2</sup>, by 2000 fpm per AHRI Standard 880-2017