

EXPANDED SOUND DATA



Current Product Only

**RESIDENTIAL / COMMERCIAL
PRODUCT SPECIFICATIONS**

Bulletin No. 000121
August 2019
Supersedes March 2019

AIR CONDITIONERS (1.5 TO 5 TONS)

1 Unit Model	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts Center Frequency - HZ							1 Sound Rating Number (dBA)	2 Estimated Sound Pressure Level at Distance From Unit (dBA at distance in ft.)				
	125	250	500	1000	2000	4000	8000		3	5	10	15	50
13ACXN													
018	53	60	64.5	68.5	67	61.5	54.5	76	69	64	58	55	44
024	51.5	62	64.5	68.5	67	60.5	53.5	76	69	64	58	55	44
030	52.5	62	67.5	69	67	61.5	54.5	76	69	64	58	55	44
036	52.5	61	67	69	67	61.5	52.5	76	69	64	58	55	44
042	58	68	73.5	75.5	74	69.5	62.5	79	72	67	61	58	47
048	57.5	67	73	74.5	71	64	58.5	79	72	67	61	58	47
060	57	63	69.5	71.5	71	65.5	60.5	79	72	67	61	58	47
14ACX													
018	69.5	70.5	71	71	69	63.5	57.5	76	69	64	58	55	44
024	69.5	72	70.5	70.5	67.5	62.5	57.5	76	69	64	58	55	44
030	72.5	74	74	72	67.5	61.5	56.5	76	69	64	58	55	44
036	73.5	75	74	72.5	67.5	62.5	56.5	76	69	64	58	55	44
041	76.5	74	73.5	73.5	70	62.5	58.5	78	71	66	60	57	46
042	73.5	75.5	74.5	73.5	70.5	64	58.5	78	71	66	60	57	46
047	76.5	77.5	77.5	73.5	69	63.5	60.5	80	73	68	62	59	48
048	76.5	74	73.5	73.5	70	62.5	58.5	78	71	66	60	57	46
059	79.5	76.5	76.5	72.5	68	63	60.5	78	71	66	60	57	46
060	76.5	77.5	77.5	73.5	69	63.5	60.5	80	73	68	62	59	48
16ACX													
024	54.9	64.3	70.7	74.5	67.3	64.4	57.6	77	70	65	59	56	45
036	58.5	67	70.7	71.1	67.6	64.6	57.7	76	69	64	58	55	44
048	63	66.9	72.5	73.7	70	68.7	60.3	78	71	66	60	57	46
060	60.6	65.7	69.2	64.2	66.6	65.4	56.5	75	68	63	57	54	43
EL16XC1													
018	55	61	67	68	63.5	59	50.5	72	65	60	54	51	40
024	55	62	67.5	66.5	63	59	52.5	72	65	60	54	51	40
030	54	61.5	66	66	62	57	51	71	64	59	53	50	39
036	56	66	69	67	62.5	57.5	50.5	73	66	61	55	52	41
041	54.5	62.5	67.5	67	62.5	58.5	52.5	72	65	60	54	51	40
042	55.5	62.5	68	67	62	57.5	51.5	72	65	60	54	51	40
047	55	62	67	66.5	62.5	57.5	49.5	72	65	60	54	51	40
048	55.5	64.5	70	71	65	60.5	54	75	68	63	57	54	43
060	55.5	62.5	67	66.5	62.5	60	53.5	73	66	61	55	52	41
ML14XC1													
018	53.0	58.5	66.5	69.5	65.0	62.5	54.5	73	66	61	55	52	41
024	56.0	66.0	72.0	71.0	67.0	63.0	56.5	76	69	64	58	55	44
030	55.0	64.5	70.5	72.5	67.5	61.0	54.0	76	69	64	58	55	44
036	58.0	67.5	71.5	70.5	66.5	61.5	55.0	76	69	64	58	55	44
041	56.5	64.0	70.0	69.0	66.0	62.5	56.0	74	67	62	56	53	42
042	56.0	65.0	71.0	71.5	67.5	62.0	55.0	76	69	64	58	55	44
047	61.5	71.5	76.5	75.5	71.5	65.5	56.5	80	73	68	62	59	48
048	61.5	68.0	73.5	72.5	69.0	64.0	56.5	78	71	66	60	57	46
059	62.0	69.5	73.0	71.0	69.0	63.5	55.0	77	70	65	59	56	45
060	63.5	70.0	75.0	75.0	70.5	68.0	61.0	80	73	68	62	59	48

NOTE - the octave sound power data does not include tonal correction.

¹ Sound Rating Number according to ARI Standard 370-2001 (includes pure tone penalty). "SRN" is the overall A-Weighted Sound Power Level, (LWA), dB (100 Hz to 10,000 Hz).

² Estimated sound pressure level at distance based on AHRI Standard 275-2010 method for equipment located on the ground, roof, or on side of building wall with no adjacent reflective surface within 9.8 feet. Sound pressure levels will increase based on changes to assumptions. For other applications, refer to AHRI Standard 275.

AIR CONDITIONERS (1.5 TO 5 TONS)

1 Unit Model	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts Center Frequency - HZ							1 Sound Rating Number (dBA)	2 Estimated Sound Pressure Level at Distance From Unit (dBA at distance in ft.)				
	125	250	500	1000	2000	4000	8000		3	5	10	15	50
SL18XC1													
024	68	67	66	60	52	47	45	65	58	53	47	44	33
030	68	69	67	63	56	51	49	68	61	56	50	47	36
036	72	72	71	65	59	53	48	71	64	59	53	50	39
042	71	73	72	65	58	53	49	71	64	59	53	50	39
048	72	74	75	68	62	56	51	74	67	62	56	53	42
060	74	73	74	69	62	58	55	74	67	62	56	53	42
SSB													
036	70.6	67.9	66.7	63.1	57.5	54.7	55.4	74	67	62	56	53	42
048	64.7	64.1	65.8	65.2	60.3	56.1	53.7	74	67	62	56	53	42
060	68.9	67	66.4	67.4	58.9	57.3	52.5	74	67	62	56	53	42
TSAH4													
036	73.5	75	74	72.5	67.5	62.5	56.5	76	69	64	58	55	44
042	73.5	75.5	74.5	73.5	70.5	64	58.5	78	71	66	60	57	46
048	76.5	74	73.5	73.5	70	62.5	58.5	78	71	66	60	57	46
060	76.5	77.5	77.5	73.5	69	63.5	60.5	80	73	68	62	59	48
XC13N													
018	67.5	66.5	68.5	66.5	60.5	56	52	74	67	62	56	53	42
024	69.5	66	68.5	65.5	61	61.5	58.5	74	67	62	56	53	42
030	70.5	71	73.5	70.5	67.5	61.5	57.5	76	69	64	58	55	44
036	69.5	72.5	74.5	71.5	68.5	63.5	58.5	76	69	64	58	55	44
042	73.5	71.5	72.5	69.5	65.5	60.5	57.5	76	69	64	58	55	44
048	73.5	72.5	72.5	71.5	66.5	61.5	61.5	76	69	64	58	55	44
060	75	72.5	73.5	71	65.5	61	60	76	69	64	58	55	44
XC14													
018	52	59.5	64.5	65.5	60.5	54.5	45.5	71	64	59	53	50	39
024	55	60	66	66	62.5	57.5	47.5	71	64	59	53	50	39
030	55	62	65.5	66.5	60	52.5	45	71	64	59	53	50	39
036	53	61	64.5	65	59.5	53.5	48.5	70	63	58	52	49	38
041	56.5	62	68	68.5	63.5	56.5	49.5	73	66	61	55	52	41
042	58.5	64	68.5	68.5	63.5	56.5	50.5	73	66	61	55	52	41
047	59.5	62.5	67.5	66	63	57.5	51.5	73	66	61	55	52	41
048	56.5	62	68	68.5	63.5	56.5	49.5	73	66	61	55	52	41
060	59.5	62.5	67.5	66	63	57.5	51.5	73	66	61	55	52	41
XC16													
024	55.5	63	68	69	63	62	57	73	66	61	55	52	41
036	55.5	64	69	68	63	59	55.5	74	67	62	56	53	42
048	56	63	69	71.5	67	63	53.5	75	68	63	57	54	43
060	54.5	62	68	68.5	65.5	65	55.5	75	68	63	57	54	43
XC20													
024 Min.	67	62	54	55	52	53	62	65	58	53	47	44	33
024 Max.	67	64	63	61	56	64	64	72	65	60	54	51	40
036 Min.	67	63	62	58	52	55	65	67	60	55	49	46	35
036 Max.	67	65	66	64	60	68	63	75	68	63	57	54	43
048 Min.	67	63	63	58	53	50	64	68	61	56	50	47	36
048 Max.	70	68	71	67	62	60	66	77	70	65	59	56	45
060 Min.	66	62	64	58	53	51	61	69	62	57	51	48	37
060 Max.	70	69	72	69	61	58	62	77	70	65	59	56	45
XC21													
024	54.5	61	64	62	60	56	49	69	62	57	51	48	37
036	60	65	66.5	64.5	61.5	56.5	50	71	64	59	53	50	39
048	59.5	66.5	68	67	63	58	52	73	66	61	55	52	41
060	60	65.5	70	68.5	64	57	50.5	73	66	61	55	52	41

NOTE - the octave sound power data does not include tonal correction.

¹ Sound Rating Number according to ARI Standard 370-2001 (includes pure tone penalty). "SRN" is the overall A-Weighted Sound Power Level, (LWA), dB (100 Hz to 10,000 Hz).

² Estimated sound pressure level at distance based on AHRI Standard 275-2010 method for equipment located on the ground, roof, or on side of building wall with no adjacent reflective surface within 9.8 feet. Sound pressure levels will increase based on changes to assumptions. For other applications, refer to AHRI Standard 275.

AIR CONDITIONERS (1.5 TO 5 TONS)

¹ Unit Model	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts Center Frequency - HZ							¹ Sound Rating Number (dBA)	² Estimated Sound Pressure Level at Distance From Unit (dBA at distance in ft.)				
	125	250	500	1000	2000	4000	8000		3	5	10	15	50
XC25													
024 Min.	49	49	46.3	45.1	38.2	37.7	33.8	59	52	47	41	38	27
024 Max.	54	56.3	56.9	53.4	46.7	45.2	37.4	70	63	58	52	49	38
036 Min.	48.1	50.4	50.6	43.1	34.9	33.9	30.5	59	52	47	41	38	27
036 Max.	58	62.5	63.8	60.4	54.2	48.7	41.8	73	66	61	55	52	41
048 Min.	52.2	55.8	57.2	52.2	45.5	39.3	39.1	66	59	54	48	45	34
048 Max.	58.5	62.2	65	61.5	55.3	49.8	43.1	74	67	62	56	53	42
060 Min.	54.1	55.1	54.5	51.1	44.4	38.6	38	64	57	52	46	43	32
060 Max.	58.9	61.9	64.3	61.1	55.2	49	42.6	74	67	62	56	53	42

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HEAT PUMPS (1.5 TO 5 TONS)

1 Unit Model	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts Center Frequency - HZ							1 Sound Rating Number (dBA)	2 Estimated Sound Pressure Level at Distance From Unit (dBA at distance in ft.)				
	125	250	500	1000	2000	4000	8000		3	5	10	15	50
14HPX													
018	72	70.5	68.5	68	65	59.5	53.5	76	69	64	58	55	44
024	71	74.5	72.5	71.5	68	62.5	56.5	76	69	64	58	55	44
030	70.5	70.5	71.5	71.5	66	62.5	59	76	69	64	58	55	44
036	78.5	77	77.5	74.5	69.5	63.5	61.5	79	72	67	61	58	47
042	76.5	78	78.5	73.5	69.5	63.5	58.5	79	72	67	61	58	47
048	75.5	78	78.5	75	70	63.5	58.5	80	73	68	62	59	48
060	75	77.5	77.5	75.5	70	65	65	80	73	68	62	59	48
16HPX													
024	56	58.5	64.5	67	64.5	59.5	57	74	67	62	56	53	42
036	60.5	72.5	78.5	77	72	66.5	61	82	75	70	64	61	50
048	62	72	77	75	71	64.5	57	81	74	69	63	60	49
060	60.5	69.5	74	73.5	68	63.5	57.5	80	73	68	62	59	48
EL16XP1													
018	56.5	62	65.5	66.5	62.5	59.5	52	71	64	59	53	50	39
024	55.5	64.5	66	66	62	59	52.5	71	64	59	53	50	39
030	54	61	65.5	67	61.5	57	50.5	71	64	59	53	50	39
036	55	63.5	69	67	62.5	58	52	72	65	60	54	51	40
042	54.5	61.5	68	67	63.5	57	48	72	65	60	54	51	40
048	55.5	62	68	67	63	57	50	73	66	61	55	52	41
060	54.5	61.5	67.5	67.5	64	59.5	55	73	66	61	55	52	41
ML14XP1													
018	59.5	65	71	70.5	67	63	58.5	76	69	64	58	55	44
024	55	65	73.5	70	66.5	63	57	76	69	64	58	55	44
030	55.5	64.5	71	69.5	66.5	63	56.5	76	69	64	58	55	44
036	55.5	66	70.5	70.5	66.5	61.5	56	76	69	64	58	55	44
042	63	70.5	74.5	73	70	64	56	79	72	67	61	58	47
048	64	72.5	75.5	73	69.5	63.5	56	80	73	68	62	59	48
060	61.5	69	73.5	73.5	70.5	67	62	80	73	68	62	59	48
ML16XP1													
018	59.5	65	71	70.5	67	63	58.5	76	69	64	58	55	44
024	56	66	73	71.5	67.5	63.5	57	76	69	64	58	55	44
030	56	66	73	71.5	67.5	63.5	57	76	69	64	58	55	44
036	63	68.5	71	69	65	61	55	76	69	64	58	55	44
042	65	69	74	72	68.5	62.5	55.5	79	72	67	61	58	47
048	65	69	74	72	68.5	62.5	55.5	80	73	68	62	59	48
060	65.5	70.5	73	73	70	65	60	80	73	68	62	59	48
SL18XP1													
024	53	60.3	62.7	61.3	58.4	50.9	44.3	67	60	55	49	46	35
030	56	59.1	65	65.1	59.9	52.7	48.7	69	62	57	51	48	37
036	58.2	62.8	65.6	65.7	59.9	53.4	46.3	70	63	58	52	49	38
042	55.7	61.9	64.7	62.9	60.3	53.8	50.6	70	63	58	52	49	38
048	56.4	61	64.8	65.4	60.1	52.9	47.9	70	63	58	52	49	38
060	57.2	61.8	64.6	62.6	59.4	53.2	48.2	73	66	61	55	52	41
SPB													
036	70.5	71.5	71	68.5	63.5	58.5	53.5	76	69	64	58	55	44
048	72.5	71.5	73	70.5	66	60.5	58.5	76	69	64	58	55	44
060	72.5	73.5	77.5	72.5	67	62.5	58.5	78	71	66	60	57	46
TPAH4													
036	78.5	77	77.5	74.5	69.5	63.5	61.5	79	72	67	61	58	47
042	76.5	78	78.5	73.5	69.5	63.5	58.5	79	72	67	61	58	47
048	75.5	78	78.5	75	70	63.5	58.5	80	73	68	62	59	48
060	75	77.5	77.5	75.5	70	65	65	80	73	68	62	59	48

NOTE - the octave sound power data does not include tonal correction.

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² Estimated sound pressure level at distance based on AHRI Standard 275-2010 method for equipment located on the ground, roof, or on side of building wall with no adjacent reflective surface within 9.8 feet. Sound pressure levels will increase based on changes to assumptions. For other applications, refer to AHRI Standard 275.

HEAT PUMPS (1.5 TO 5 TONS)

1 Unit Model	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts Center Frequency - HZ							1 Sound Rating Number (dBA)	2 Estimated Sound Pressure Level at Distance From Unit (dBA at distance in ft.)				
	125	250	500	1000	2000	4000	8000		3	5	10	15	50
XP14													
018	70.5	67.5	69.5	66.5	59.5	53.5	47.5	71	64	59	53	50	39
024	71	68	68.5	65.5	60	54.5	48.5	71	64	59	53	50	39
030	71.5	66.5	67.5	65.5	59.5	54.5	48.5	71	64	59	53	50	39
036	80.5	70.5	69.5	65.5	60.5	55	51	71	64	59	53	50	39
042	82	70.5	70	67	63.5	55.5	52.5	71	64	59	53	50	39
048	80.5	70.5	70	66.5	61.5	55.5	53.5	73	66	61	55	52	41
060	82	69.5	69	67.5	63.5	66	53.5	73	66	61	55	52	41
XP16													
024	72	70	69.5	68.5	63.5	58	56.5	74	67	62	56	53	42
036	72.5	71.5	73	70.5	66	60.5	58.5	76	69	64	58	55	44
048	72.5	71.5	73	70.5	66	60.5	58.5	76	69	64	58	55	44
060	72.5	73.5	77.5	72.5	67	62.5	58.5	78	71	66	60	57	46
XP20													
024 Min.	50.7	50.8	48.9	50.6	47	46.9	53.3	65	58	53	47	44	33
024 Max.	51.7	54.5	58.2	60.9	60.2	58	58	72	65	60	54	51	40
036 Min.	50.6	51.1	52	52.3	45.8	43.5	48.7	67	60	55	49	46	35
036 Max.	54.1	59.6	65.5	64.6	60.4	57.9	58.7	75	68	63	57	54	43
048 Min.	52.8	54.7	59.9	57.8	51.9	50.6	58.2	68	61	56	50	47	36
048 Max.	57.7	59.2	65.6	64.6	60.2	59.6	58.4	75	68	63	57	54	43
060 Min.	51.1	53.5	56.8	55.3	49.7	50.4	56.7	69	62	57	51	48	37
060 Max.	53.8	59.8	66.5	65.5	61.7	60.7	59.4	75	68	63	57	54	43
XP21													
024	61	64	61	55.5	49	41.5	45.5	67	60	55	49	46	35
036	65.5	68	65.5	60.5	54	46	50.5	72	65	60	54	51	40
048	60	64.5	68.5	66	62	56.5	48.5	73	66	61	55	52	41
060	57	64.5	68	67	62.5	56	49.5	73	66	61	55	52	41
XP25													
024 Min.	49	46.3	47.6	45.1	40.3	38.3	34.8	58	51	46	40	37	26
024 Max.	52.2	54.6	55.3	51.8	49.6	45.9	39	68	61	56	50	47	36
036 Min.	47.5	46.1	42.8	42.1	35.8	36.5	32.6	58	51	46	40	37	26
036 Max.	59.7	63.5	63	59.2	54.4	49.7	42.7	73	66	61	55	52	41
048 Min.	50.9	52.8	55.5	50.9	46.6	40.6	39.4	64	57	52	46	43	32
048 Max.	58	59	59.2	57.1	53.3	50.2	44	74	67	62	56	53	42
060 Min.	51.7	51.6	53.9	49.7	44.1	38.5	38.2	64	57	52	46	43	32
060 Max.	56.6	60	62.1	57.7	53.8	48.4	42.6	74	67	62	56	53	42

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² Estimated sound pressure level at distance based on AHRI Standard 275-2010 method for equipment located on the ground, roof, or on side of building wall with no adjacent reflective surface within 9.8 feet. Sound pressure levels will increase based on changes to assumptions. For other applications, refer to AHRI Standard 275.

LARGE SPLIT SYSTEMS - ELS AIR CONDITIONERS / ELP HEAT PUMPS

Test Conditions	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts								1 Sound Rating Number (dBA)
	Center Frequency - HZ								
	125	250	500	1000	2000	4000	8000		
Outdoor Sound Levels									
ELS AIR CONDITIONER									
ELS072S4S	65	68	73	76	72	68	63	81	
ELS090S4S	64	69	73	77	74	70	63	81	
ELS120S4S	70	77	82	81	77	75	71	86	
ELS120S4D	71	77	80	80	77	72	67	85	
ELS150S4D	68	77	80	82	78	73	65	86	
ELS180S4D	73	80	83	83	79	74	66	88	
ELS240S4D	73	80	85	84	80	78	74	89	
ELP HEAT PUMP									
ELP090S4S	69	77	80	80	77	73	65	85	
ELP120S4S	69	77	80	81	78	72	64	86	

Note – The octave sound power data does not include tonal corrections.

¹ Tested according to AHRI Standard 270 test conditions.

LARGE SPLIT SYSTEMS - ELA AIR HANDLERS

1 Test Conditions	External Static Pressure in. w.c.	CFM	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts							
			Center Frequency - HZ							
			² 63	125	250	500	1000	2000	4000	8000
ELA072										
Supply	0.75	1920	59.2	66.4	70.7	74.2	75.1	74.2	72.0	64.9
	0.75	2400	59.0	67.2	71.5	75.0	75.9	75.0	72.8	66.7
Return	0.75	1920	53.2	63.7	56.4	61.1	58.1	55.2	53.0	45.9
	0.75	2400	54.0	63.6	57.2	60.9	58.9	56.0	53.8	46.7
ELA090										
Supply	0.75	2400	59.2	68.4	71.7	75.2	77.1	75.2	72.0	65.9
	0.75	3000	62.2	70.4	73.7	77.2	79.1	78.2	76.0	69.9
Return	0.75	2400	55.2	63.7	57.4	62.1	59.1	56.2	54.0	46.9
	0.75	3000	55.2	65.7	59.4	63.1	62.1	58.2	57.0	49.9
ELA120, ELA150										
Supply	0.75	3200	64.1	71.4	74.6	78.2	77.1	76.2	75.0	70.9
	0.75	4000	61.1	70.4	75.6	80.2	80.1	79.2	78.0	73.9
	0.75	5000	60.1	70.4	76.6	82.2	83.1	82.2	81.0	75.9
Return	0.75	3200	58.0	68.0	65.1	65.0	62.1	59.2	59.0	49.9
	0.75	4000	55.0	67.0	64.1	67.0	65.1	62.2	62.0	54.9
	0.75	5000	55.0	67.0	64.1	68.0	66.1	63.2	63.0	56.9
ELA180										
Supply	0.75	4800	60.1	69.1	74.1	78.0	79.1	78.2	76.0	69.9
	0.75	6000	63.1	71.1	76.1	80.0	81.1	81.2	80.0	73.9
	0.75	8000	62.1	71.1	78.1	83.0	82.1	82.2	82.0	77.9
Return	0.75	4800	55.4	65.7	60.0	64.0	62.0	59.2	57.0	49.9
	0.75	6000	55.4	67.7	62.0	65.0	65.0	61.2	60.0	52.9
	0.75	8000	56.4	69.7	67.0	69.0	68.0	65.2	65.0	57.9
ELA240										
Supply	0.75	6400	65.1	73.1	77.1	81.0	80.1	79.2	78.0	73.9
	0.75	8000	62.1	72.1	78.1	83.0	83.1	82.2	81.0	76.9
	0.75	10,000	61.1	72.1	79.1	85.0	86.1	85.2	84.0	78.9
Return	0.75	6400	60.4	65.7	59.4	63.1	62.1	58.2	57.0	49.9
	0.75	8000	57.4	69.7	67.0	70.0	68.0	65.2	65.0	57.9
	0.75	10,000	57.4	69.7	67.0	71.0	69.0	66.2	66.0	59.9

Note – The octave sound power data does not include tonal corrections.

¹ Indoor tested according to AHRI Standard 260.

² 63HZ band is not certified and is usually lower than reported.

ENERGENCE® / LANDMARK® / RAIDER® (2 TO 7.5 TONS)

	² Test Conditions	External Static Pressure in. w.c.	CFM	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts								¹ Sound Rating Number (dBA)
				Center Frequency - HZ								
				³ 63	125	250	500	1000	2000	4000	8000	
Outdoor Sound Levels	ENERGENCE											
	LCH/LGH036S,048S,036H,048H	---	---	52	63	66	70	71	68	62	53	75
	LCH/LGH060S,060H,072H,074H	---	---	64	67	72	77	76	73	68	61	82
	LCH/LGH036U	---	---	57	60	65	69	68	63	58	51	73
	LCH/LGH048U	---	---	58	64	67	73	71	66	59	52	76
	LCH/LGH060U	---	---	52	66	69	74	74	68	62	55	78
	LCH/LGH074U	---	---	63	67	72	76	76	70	64	58	80
	LANDMARK											
	KCA/KGA/KHA036S,048S	---	---	52	63	66	70	71	68	62	53	75
	KCA/KGA/KHA060S	---	---	64	67	72	77	76	73	68	61	82
	KCA/KGA072S,090S	---	---	62	66	71	74	73	70	65	57	79
	KHA072S	---	---	64	67	75	78	78	75	68	59	83
	KCB/KGB024S,030S,036S,048S	---	---	---	62	66	70	69	66	60	50	74
	KCB/KGB060S	---	---	---	72	75	78	77	73	68	58	83
	KCB/KGB072S,074S,090S	---	---	---	66	71	74	73	70	65	57	79
	KCB/KGB072H,074H,090H	---	---	---	66	71	74	73	70	65	57	79
	KHB024S,030S,036S	---	---	54	62	67	72	69	66	61	56	75
	KHB048S	---	---	52	61	67	70	70	68	63	56	75
	KHB060S	---	---	67	69	72	75	74	70	65	55	80
	KHB074S	---	---	66	67	75	78	78	75	68	59	83
	KHB/KDB024H	---	---	57	62	67	70	70	64	57	51	74
	KHB/KDB036H	---	---	57	62	66	71	69	64	57	51	75
	KHB/KDB048H	---	---	62	67	68	73	72	68	63	53	77
	KHB/KDB060H	---	---	58	66	68	70	72	69	63	56	77
	RAIDER											
ZCA/ZGA036S	---	---	65	66	70	73	72	70	67	60	78	
ZCB/ZGB036S	---	---	65	66	70	73	72	70	67	60	78	
ZCA/ZGA048S	---	---	62	68	71	75	74	71	68	63	80	
ZCB/ZGB048S	---	---	62	68	71	75	74	71	68	63	80	
ZCA/ZGA060S	---	---	65	73	74	78	77	73	69	63	83	
ZCB/ZGB060S	---	---	56	64	68	72	73	69	67	63	78	
ZCA/ZGA072S	---	---	61	73	76	80	78	73	68	66	84	
ZCB/ZGB074S	---	---	61	73	76	80	78	73	68	66	84	
ZHA036S, 048S	---	---	64	66	70	75	73	71	67	60	79	
ZHB036S	---	---	64	66	70	75	73	71	67	60	79	
ZHA060S	---	---	68	71	74	80	76	73	69	64	83	
ZHB048S	---	---	54	62	69	73	72	69	65	57	78	
ZHB060S	---	---	62	70	72	78	75	72	70	66	82	
ZHB072S	---	---	57	70	77	81	80	76	73	69	86	

KCB/KGB/KHB024S,030S with 1/4 hp Direct Drive Blower

KHB/KDB024H with 1/3hp Direct Drive Blower

Supply Air Only	0.25	800	41	47	45	47	46	44	39	33	---
	0.50	1150	42	51	54	55	54	54	52	44	---
Return Air Only	0.25	800	42	43	38	40	38	37	32	30	---
	0.50	1150	43	46	45	46	44	45	40	34	---

Note – The octave sound power data does not include tonal corrections.

¹ Sound Rating Number according to AHRI Standard 270.

² Indoor tested according to AHRI Standard 260.

³ 63HZ band is not certified and is usually lower than reported.

ENERGENCE® / LANDMARK® / RAIDER® (2 TO 7.5 TONS CONTINUED)

² Test Conditions	External Static Pressure in. w.c.	CFM	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts Center Frequency - HZ								¹ Sound Rating Number (dBA)
			³ 63	125	250	500	1000	2000	4000	8000	
LCH/LGH036 ,KHB/KDB036H with 1/2 hp Direct Drive Blower, LCH/LGH048, KHB/KDB048H with 3/4 hp Direct Drive Blower KCA/KGA/KHA036, 048 with 1/2 hp Direct Drive Blower, KCB/KGB/KHB036S, 048S with 1/2 hp Direct Drive Blower											
Supply Air Only	0.25	1200	48	52	53	56	53	52	51	42	---
	0.50	1600	50	60	62	65	64	63	64	58	---
Return Air Only	0.25	1200	47	50	49	47	42	41	39	40	---
	0.50	1600	48	52	53	52	50	51	50	43	---

LCH/LGH060, KHB/KDB060H with 1 hp Direct Drive Blower KCA/KGA/KHA/KCB/KGB060 with 3/4 hp Direct Drive Blower											
Supply Air Only	0.4	1675	49	60	66	65	63	62	64	60	---
	0.5	2000	50	64	69	69	68	67	68	65	---
Return Air Only	0.4	1675	48	54	55	55	52	51	50	43	---
	0.5	2000	48	56	59	59	55	56	55	48	---

LCH/LGH036, 048, 060 with Belt Drive Blower, KCA/KGA/KHA036, 048, 060, 072 with Belt Drive Blower KCB/KGB/KHB036S,048S,060S,074S with Belt Drive Blower, KHB/KDB036H,048H,060H with Belt Drive Blower											
Supply Air Only	0.75	1005	49	55	62	65	65	64	62	56	---
	0.75	1200	49	56	63	66	66	66	65	59	---
	0.75	1340	50	56	64	67	67	67	66	61	---
	0.75	1600	50	58	67	69	69	69	69	64	---
	0.75	1675	50	58	67	69	70	70	70	65	---
	0.75	2010	51	62	71	73	74	74	73	68	---
	0.75	2400	53	65	74	76	77	77	78	74	---
Return Air Only	0.75	1005	49	51	52	52	50	47	41	40	---
	0.75	1200	49	52	53	53	53	51	47	40	---
	0.75	1340	50	53	55	55	54	53	79	42	---
	0.75	1600	51	54	56	56	55	55	52	43	---
	0.75	1675	51	54	56	56	55	55	52	44	---
	0.75	2010	52	55	58	59	59	58	56	48	---
0.75	2400	52	57	60	61	62	61	60	54	---	

LCH/LGH072, 074 with Belt Drive Blower KCB/KGB072H,074H with Belt Drive Blower KCA/KGA090 with Belt Drive Blower, KCB/KGB090 with Belt Drive Blower											
Supply Air Only	0.75	2010	42	52	56	67	61	60	59	53	---
	0.75	2400	45	56	60	66	64	64	64	58	---
	0.75	3000	43	58	64	69	69	67	67	63	---
Return Air Only	0.75	2010	41	45	49	50	50	50	48	40	---
	0.75	2400	41	46	50	52	52	52	51	44	---
	0.75	3000	45	51	55	55	57	56	56	50	---

ZCA/ZGA/ZHA/ZCB/ZGB/ZHB036 with Belt Drive Blower											
Supply Air Only	0.75	1005	53	58	60	44	61	60	62	56	--
	0.75	1200	54	59	53	43	64	62	63	57	--
Return Air Only	0.75	1005	52	53	51	54	52	49	44	33	--
	0.75	1200	53	54	53	53	54	51	46	37	--

ZCA/ZGA/ZHA/ZCB/ZGB/ZHB048 with Belt Drive Blower											
Supply Air Only	0.75	1340	54	61	63	43	63	62	63	57	--
	0.75	1600	55	61	66	42	66	65	66	60	--
Return Air Only	0.75	1340	55	57	54	56	55	53	48	40	--
	0.75	1600	57	58	56	57	57	56	52	44	--

Note – The octave sound power data does not include tonal corrections.

¹ Sound Rating Number according to AHRI Standard 270.

² Indoor tested according to AHRI Standard 260.

³ 63HZ band is not certified and is usually lower than reported.

ENERGENCE® / LANDMARK® / RAIDER® (2 TO 7.5 TONS CONTINUED)

² Test Conditions	External Static Pressure in. w.c.	CFM	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts								¹ Sound Rating Number (dBA)
			Center Frequency - HZ								
			³ 63	125	250	500	1000	2000	4000	8000	
ZCA/ZGA/ZHA/ZCB/ZGB/ZHB060 with Belt Drive Blower											
Supply Air Only	0.75	1675	57	63	68	40	68	67	69	65	--
	0.75	2000	60	66	72	42	71	70	71	68	--
Return Air Only	0.75	1675	55	55	58	51	60	57	52	45	--
	0.75	2000	56	57	60	49	62	59	55	49	--
ZHB060, ZCA/ZGA/ZHB072 with Belt Drive Blower											
Supply Air Only	0.75	2000	55	61	64	66	65	64	62	55	--
	0.75	2400	55	64	65	67	67	66	65	58	--
Return Air Only	0.75	2000	54	57	57	56	58	54	48	39	--
	0.75	2400	54	58	59	57	60	56	50	42	--
ZCB/ZGB/ZHB074 with Belt Drive Blower											
Supply Air Only	0.75	2000	58	62	65	68	66	67	66	60	--
	0.75	2400	58	66	68	69	68	69	71	64	--
Return Air Only	0.75	2000	51	52	53	59	55	51	48	36	--
	0.75	2400	54	55	56	57	60	55	51	43	--

Note - The octave sound power data does not include tonal corrections.

¹ Sound Rating Number according to AHRI Standard 270.

² Indoor tested according to AHRI Standard 260.

³ 63HZ band is not certified and is usually lower than reported.

ENERGENCE® / LANDMARK® / RAIDER® (7.5 TO 12.5 TONS)

² Test Conditions		External Static Pressure in. w.c.	CFM	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts								¹ Sound Rating Number (dBA)
				Center Frequency - HZ								
				³ 63	125	250	500	1000	2000	4000	8000	
Outdoor Sound Levels	LCH/LGH/092 thru 120 KCA/KGA092 thru 120 KCB/KGB092 thru 120	---	---	63	76	79	84	83	79	73	66	88
	LCH/LGH150 KCA/KGA150 KCB/KGB150	---	---	62	75	81	87	85	80	73	67	90
	KHA092, 102 and 120	---	---	---	76	79	84	83	79	73	66	88
	KHA150	---	---	---	77	80	85	84	79	74	66	88
	KHB092, 102	---	---	---	72	75	76	73	67	60	50	86
	KHB122	---	---	---	73	74	75	72	66	60	50	85
Supply Air Only		0.75	2515	51	61	68	71	71	69	67	63	---
		0.75	2850	52	61	69	72	71	70	68	64	---
		0.75	3000	52	61	69	72	72	70	69	64	---
		0.75	3400	52	63	70	73	73	71	70	66	---
		0.75	3600	53	63	71	73	74	72	71	66	---
		0.75	4000	53	64	72	74	75	73	72	68	---
		0.75	4125	53	64	72	74	76	74	72	69	---
		0.75	4800	54	66	75	76	79	76	74	71	---
Return Air Only		0.75	2515	47	52	54	56	56	54	51	44	---
		0.75	2850	48	52	54	56	57	55	52	46	---
		0.75	3000	48	51	55	56	57	55	53	47	---
		0.75	3400	49	53	57	57	58	56	55	50	---
		0.75	3600	49	54	57	58	59	57	56	51	---
		0.75	4000	51	55	58	58	60	58	57	52	---
		0.75	4125	51	56	58	59	61	59	58	53	---
		0.75	4800	51	55	60	60	63	62	60	56	---
Exhaust Fan Only - Return		0.13	---	62	69	72	75	74	72	66	59	---
Outdoor Sound Levels	ZCA/ZGA092 thru 120	---	---	---	72	74	79	80	76	70	63	84
	ZCA/ZGA150	---	---	---	76	81	87	86	80	77	76	91
	ZHA092, 102	---	---	---	76	79	84	83	79	73	66	88
	ZHA120	---	---	---	77	80	85	84	79	74	66	88
Supply Air Only		0.75	2510	56	63	66	73	72	70	69	63	---
		0.75	2850	56	64	68	74	74	72	70	64	---
		0.75	3000	56	65	68	74	74	72	71	65	---
		0.75	3400	57	66	70	76	77	74	73	67	---
		0.75	4000	57	68	73	78	80	76	75	70	---
		0.75	4190	57	68	74	79	81	77	76	70	---
		0.75	5000	59	70	77	81	84	80	79	74	---
Return Air Only		0.75	2510	54	56	59	60	57	55	55	48	---
		0.75	2850	54	58	60	61	59	57	57	50	---
		0.75	3000	54	58	60	61	60	58	57	51	---
		0.75	3400	54	59	61	63	61	59	59	52	---
		0.75	4000	55	61	63	64	64	62	62	55	---
		0.75	4190	54	61	65	65	65	63	63	56	---
		0.75	5000	55	63	67	68	68	66	65	59	---

Note – The octave sound power data does not include tonal corrections.

¹ Sound Rating Number according to AHRI Standard 270 or AHRI Standard 370.

² Indoor tested according to AHRI Standard 260.

³ 63HZ band is not certified and is usually lower than reported.

ENERGENCE® ULTRA-HIGH EFFICIENCY (3 TO 6 TONS)

DIRECT DRIVE

² Test Conditions		External Static Pressure in. w.c.	CFM	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts								¹ Sound Rating Number (dBA)
				Center Frequency - HZ								
				³ 63	125	250	500	1000	2000	4000	8000	
Outdoor Sound Levels	LCH/LGH036U4E	---	---	57	60	65	69	68	63	58	51	73
	LCH/LGH048U4E	---	---	56	64	67	73	71	66	59	52	76
	LCH/LGH060U4E	---	---	60	66	69	74	74	68	62	55	78
	LCH/LGH074U4E	---	---	63	67	72	76	76	70	64	58	80

**LCH/LGH036U4E with 1/2 hp Direct Drive Blower,
LCH/LGH048U4E with 3/4 hp Direct Drive Blower**

Supply Air Only	0.25	1200	48	52	53	56	53	52	51	42	---
	0.50	1600	50	60	62	65	64	63	64	58	---
Return Air Only	0.25	1200	47	50	49	47	42	41	39	40	---
	0.50	1600	48	52	53	52	50	51	50	43	---

**LCH/LGH060U4E with 1 hp Direct Drive Blower,
LCH/LGH074U4E with 1 hp Direct Drive Blower**

Supply Air Only	0.40	1675	49	60	66	65	63	62	64	60	---
	0.50	2000	50	64	69	69	68	67	68	65	---
Return Air Only	0.40	1675	48	54	55	53	52	51	50	43	---
	0.50	2000	48	56	59	57	55	56	55	48	---

Note – The octave sound power data does not include tonal corrections.

¹ Sound Rating Number according to AHRI Standard 270 (includes pure tone penalty). "SRN" is the overall A-Weighted Sound Power Level, (LWA), dB (100 Hz to 10,000 Hz).

² Indoor tested according to AHRI Standard 260.

³ 63HZ band is not certified and is usually lower than reported.

ENERGENCE® ULTRA-HIGH EFFICIENCY (7.5 TO 12.5 TONS)

DIRECT DRIVE

² Test Conditions	External Static Pressure in. w.c.	CFM	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts								¹ Sound Rating Number (dBA)
			Center Frequency - HZ								
			³ 63	125	250	500	1000	2000	4000	8000	
Outdoor Sound Levels LCH/LGH/094, 122, 152	---	---	---	85	81	80	76	70	65	62	81
Supply Air Only	0.75	2515	45	59	65	67	68	65	62	56	---
	0.75	2850	48	67	67	68	69	66	63	58	---
	0.75	3000	47	63	67	69	70	67	64	59	---
	0.75	3400	48	71	68	71	72	68	66	61	---
	0.75	3600	47	71	69	71	73	70	68	62	---
	0.75	4000	48	77	71	73	74	72	70	64	---
	0.75	4125	49	72	72	74	74	73	70	65	---
	0.75	4800	52	68	85	77	79	77	73	68	---
Return Air Only	0.75	2515	54	56	60	54	53	52	49	43	---
	0.75	2850	53	55	61	55	54	54	51	46	---
	0.75	3000	53	63	61	56	55	55	52	46	---
	0.75	3400	53	60	62	58	57	57	54	47	---
	0.75	3600	53	64	62	59	58	58	56	49	---
	0.75	4000	53	59	64	60	60	60	58	51	---
	0.75	4125	53	61	64	61	60	61	58	51	---
	0.75	4800	54	59	69	64	64	64	61	54	---

Note – The octave sound power data does not include tonal corrections.

¹ Sound Rating Number according to AHRI Standard 270 or AHRI Standard 370 (includes pure tone penalty). "SRN" is the overall A-Weighted Sound Power Level, (LWA), dB (100 Hz to 10,000 Hz).

² Indoor tested according to AHRI Standard 260.

³ 63HZ band is not certified and is usually lower than reported.

ENERGENCE® / LANDMARK® (13 TO 25 TONS)

² Test Conditions		External Static Pressure in. w.c.	CFM	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts								¹ Sound Rating Number (dBA)	
				Center Frequency - HZ									
				³ 63	125	250	500	1000	2000	4000	8000		
LCH/LGH													
Outdoor Sound Levels	156H	---	---	70	71	78	81	81	76	71	63	86	
	180H	---	---	69	80	83	87	88	84	80	71	93	
	210H, 240H, 300S	---	---	72	79	84	88	89	85	82	73	94	
	180U	---	---	64	71	76	80	78	74	70	63	86	
	240U	---	---	64	73	81	86	84	78	73	67	90	
KCA/KGA/KCB/KGB													
Outdoor Sound Levels	156H,180S, 210S	---	---	70	71	78	81	81	76	71	63	86	
	180H, 240S	---	---	69	80	83	87	88	84	80	71	93	
	210H, 240H, 300S	---	---	72	79	84	88	89	85	82	73	94	
KHA													
Outdoor Sound Levels	180	Cooling Cycle	---	---	72	75	81	87	89	86	81	69	93
		Heating Cycle	---	---	70	76	81	87	89	87	81	70	93
	240	Cooling Cycle	---	---	72	77	81	87	89	86	80	67	93
		Heating Cycle	---	---	72	78	81	88	89	87	81	67	93
156, 180, 210, 240, 300 – Indoor Blower with Hybrid Roof Curb													
Supply Air Only	0.75	4355	55	60	61	64	62	62	59	50	---		
	0.75	5025	56	61	61	65	64	63	61	52	---		
	0.75	5200	57	63	63	68	66	64	62	53	---		
	0.75	6000	58	63	64	68	66	65	63	54	---		
	0.75	6700	58	64	64	68	67	66	65	56	---		
	0.75	7000	58	65	65	69	68	68	66	58	---		
	0.75	8000	58	68	66	71	71	70	69	62	---		
	0.75	8375	59	68	67	72	72	71	70	63	---		
Return Air Only	0.75	10,000	61	69	70	75	75	75	74	67	---		
	0.75	4355	52	60	53	52	51	48	48	43	---		
	0.75	5025	54	60	53	54	51	49	49	44	---		
	0.75	5200	54	62	56	59	55	52	52	48	---		
	0.75	6000	54	61	54	54	53	51	51	46	---		
	0.75	6700	55	62	55	55	55	52	52	46	---		
	0.75	7000	55	63	56	56	57	56	54	48	---		
	0.75	8000	56	64	59	58	59	58	57	51	---		
0.75	8375	56	64	58	59	60	58	58	52	---			
0.75	10,000	57	66	61	62	62	61	61	55	---			
156, 180, 210, 240, 300 - Indoor Blower with Horizontal Roof Curb													
Supply Air Only	840 rpm	1.04	8000	52	63	66	71	73	72	70	62	---	
	1040 rpm	1.80	6500	56	67	68	73	78	76	74	68	---	
	1050 rpm	1.72	8300	57	68	69	73	79	77	76	69	---	
	1272 rpm	2.72	7800	60	71	72	76	82	81	79	74	---	
Return Air Only	840 rpm	1.04	8000	54	62	61	65	63	61	60	53	---	
	1040 rpm	1.80	6500	60	66	66	70	69	66	65	60	---	
	1050 rpm	1.72	8300	60	67	66	70	68	66	65	60	---	
	1272 rpm	2.72	7800	63	71	70	73	72	70	70	65	---	

Note – The octave sound power data does not include tonal corrections.

¹ Sound Rating Number according to AHRI Standard 370.

² Indoor tested according to AHRI Standard 260.

³ 63HZ band is not certified and is usually lower than reported.

ENERGENCE® (20 TO 30 TONS)

¹ Test Conditions		External Static Pressure in. w.c.	CFM	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts								¹ Sound Rating Number (dBA)
				Center Frequency - HZ								
				² 63	125	250	500	1000	2000	4000	8000	
Outdoor Sound Levels - 242H, 300H, 360H												
Gas/Electric & Cooling -	242H, 300H, 360H	---	---	80	84	85	90	90	85	80	72	95
242H/300H - Indoor Blower												
Supply Air only	790 rpm	1.15	8750	57	67	66	73	72	73	70	63	---
	900 rpm	1.50	10,000	59	71	71	76	76	76	73	67	---
Return Air only	790 rpm	1.15	8750	55	63	58	60	59	60	58	52	---
	900 rpm	1.50	10,000	57	67	61	63	63	63	62	56	---
360H - Indoor Blower												
Supply Air only	860 rpm	1.15	10,500	59	71	71	76	76	77	73	66	---
	985 rpm	1.50	12,000	61	74	75	79	80	80	77	70	---
Return Air only	860 rpm	1.15	10,500	56	67	61	63	62	63	61	55	---
	985 rpm	1.50	12,000	59	70	65	66	67	67	66	59	---

Note – The octave sound power data does not include tonal corrections.

¹ Indoor tested according to AHRI Standard 370.

² 63HZ band is not certified and is usually lower than reported.

REVISIONS

Sections	Description of Change
Document	Corrected sound data for KCB/KGB060, 072, 074, 090 models.



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