

Expanded Sound Data (R-454B)



In-Production Product Only

RESIDENTIAL / COMMERCIAL
PRODUCT SPECIFICATIONS

AIR CONDITIONERS (Small Splits)

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
EL15KC1													
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	54.5	60.5	67.5	69.5	67	61.5	60	74	67	62	55	52	41
042	55.5	62.5	68	67	62	57.5	51.5	72	65	60	54	51	40
048	61.5	63.5	71	74.5	67	61.5	59.5	77	70	64	58	55	43
060	55.5	62.5	67	66.5	62.5	60	53.5	73	66	61	55	52	41
EL16KC1													
018	55	60.5	65	67.5	61	55	49	72	65	60	54	51	40
024	56	60.5	67.5	69.5	62	58	51.5	73	65	60	54	51	40
030	56.5	62	68.5	66.5	63.5	58	50.5	72	64	59	53	50	39
036	56	65	68.5	67	64.5	58.5	51.5	73	66	61	55	52	41
041	54.5	61	66.5	65	64	59	52	72	65	60	54	51	40
042	55.5	63	68	68.5	63	56.5	47.5	72	65	60	54	51	40
047	58.5	63	67.5	66	64	59.5	51	73	65	60	54	51	40
048	55.5	63	69	69	66	62	54	75	68	63	57	54	43
060	58	62.5	69	69	65.5	61.5	53.5	74	66	61	55	52	41
EL18KCV													
024 Min.	53.5	58.5	62.5	61	59	56.5	56	67	60	55	49	46	35
024 Max.	54	58.5	66.5	63.5	62	60.5	56.5	70	63	58	52	49	38
036 Min.	53	56	60.5	59	58	53	54	66	59	54	48	45	34
036 Max.	62	63	68	71	70.5	66.5	61	76	69	64	58	55	44
048 Min.	56.5	62	67.5	67.5	63.5	61.5	58	72	65	60	54	51	40
048 Max.	56	65	70.5	69.5	67.5	67.5	57	76	69	64	58	55	44
060 Min.	52.5	58	63	59	60.5	56.5	51	67	60	55	49	46	35
060 Max.	59	64.5	72	73.5	70.5	71	57.5	79	72	67	61	58	47

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

¹ 1 Tested according to AHRI Standard 270-2008 test conditions. Sound rating Number is the overall A-Weighted Sound Power Level, (LWA), dB (100 Hz to 10,000 Hz).² 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 (Small Splits)

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
EL22KCV													
024 Min.	38.5	54.5	54.5	49	53	47	53	60	53	48	42	39	28
024 Max.	52	58.5	63	58.5	63.5	59	54	68	61	56	50	47	36
036 Min.	42	54	55.5	49	53	47	54	61	54	49	43	40	29
036 Max.	56.5	64	67	66	65.5	65	57	73	66	61	55	52	41
048 Min.	50.5	58	57.5	53.5	48.5	48	50	62	55	50	44	41	30
048 Max.	54	67.5	70	61.5	66.5	64.5	56.5	74	67	62	56	53	42
060 Min.	51	58	58.5	55.5	50.5	47	50	63	56	51	45	42	31
060 Max.	56	69	69	65.5	70	67.5	57.5	75	68	63	57	54	43
ML13KC1 - 1 Phase Models													
018	53	58.5	66.5	69.5	65	62.5	54.5	73	66	61	55	52	41
024	56	66	72	71	67	63	56.5	76	69	64	58	55	44
030	55	64.5	70.5	72.5	67.5	61	54	76	69	64	58	55	44
036	58	67.5	71.5	70.5	66.5	61.5	55	76	69	64	58	55	44
042	56	65	71	71.5	67.5	62	55	76	69	64	58	55	44
048	61.5	68	73.5	72.5	69	64	56.5	78	71	66	60	57	46
060	63.5	70	75	75	70.5	68	61	80	73	68	62	59	48
ML13KC1 - 3 Phase Models													
036	58	67.5	71.5	70.5	66.5	61.5	55	76	69	64	58	55	44
042	56	65	71	71.5	67.5	62	55	76	69	64	58	55	44
048	61.5	68	73.5	72.5	69	64	56.5	78	71	66	60	57	46
060	63.5	70	75	75	70.5	68	61	80	73	68	62	59	48
ML14KC1													
018	55.5	64.5	69	67.5	65	61	56	73	66	61	55	52	41
024	61.5	64	70	69.5	66	62.5	54.5	75	68	63	57	54	43
030	60	67	72	70.5	67.5	62.5	56	76	69	64	58	55	44
036	58	67.5	72.5	71.5	66.5	62	54.5	76	69	64	58	55	44
041	63	66.5	69	69.5	66.5	61	54	75	68	63	57	54	43
042	59.5	67.5	71.5	70	69	63.5	57.5	76	69	64	58	55	44
047	61	66	72	71	66.5	63	63.5	76	69	64	58	55	44
048	60	70.5	73.5	72.5	70.5	67	60.5	78	71	66	60	57	46
059	63	69.5	73.5	71.5	69.5	64.5	56.5	78	71	66	60	57	46
060	63.5	69.5	75	75	73	68	62.5	80	73	68	62	59	48
ML17KC2 - 1 Phase Models													
024	56.5	63.0	67.2	71.4	67.7	63.2	59.0	75	68	63	57	54	43
036	54.6	61.5	66.8	69.2	63.3	58.3	54.3	73	66	61	55	52	41
048	56.7	63.6	68.6	70.4	65.5	61.6	54.9	74	67	62	56	53	42
060	57.6	63.1	69.2	70.9	67.0	64.4	59.2	75	68	63	57	54	43
ML17KC2 - 3 Phase Models													
036	54.6	61.5	66.8	69.2	63.3	58.3	54.3	73	66	61	55	52	41
048	56.7	63.6	68.6	70.4	65.5	61.6	54.9	74	67	62	56	53	42
060	57.6	63.1	69.2	70.9	67.0	64.4	59.2	75	68	63	57	54	43

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

¹ 1 Tested according to AHRI Standard 270-2008 test conditions. Sound rating Number is the overall A-Weighted Sound Power Level, (LWA), dB (100 Hz to 10,000 Hz).

² 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 (Small Splits)

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
SL25KCV													
024 Min.	49	51.5	48	47	45.5	44	50.5	58	51	46	40	37	26
024 Max.	51	58.5	63	63.5	58.5	58	55.5	68	61	56	50	47	36
036 Min.	49	52	51	51	48	48	46.5	58	51	46	40	37	26
036 Max.	54.5	60	67	64	60	57	51.5	70	63	58	52	49	38
048 Min.	49	51.5	51	51	45.5	43	39	58	51	46	40	37	26
048 Max.	54.5	64.5	68.5	66	63	60	54	73	66	61	55	52	41
060 Min.	48.5	51.5	47.5	49	45	47.5	42.5	58	51	46	40	37	26
060 Max.	53.5	63.5	70	70.5	64.5	60.5	56	74	67	62	56	53	42

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

¹ 1 Tested according to AHRI Standard 270-2008 test conditions. Sound rating Number is the overall A-Weighted Sound Power Level, (LWA), dB (100 Hz to 10,000 Hz).

² 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 (Small Splits)

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
EL16KP1													
018	56	58	64.5	62.5	61.5	55	49	71	64	59	53	50	39
024	55.5	58	63	63.5	59	55	51	71	64	59	53	50	39
030	60	60	65	67.5	64	57	49.5	71	64	59	53	50	39
036	62	61	66	66.5	63	57	48	72	65	60	54	51	40
042	55	60	66	66.5	63	57	50.5	72	65	60	54	51	40
048	56	61.5	67.5	68.5	63	56	50	73	66	61	55	52	41
060	57	64	68	67	65	60	56	73	66	61	55	52	41
EL18KSLV													
024 Min.	---	---	---	---	---	---	---	54	47	42	36	33	22
024 Max.	---	---	---	---	---	---	---		62	57	51	48	37
036 Min.	---	---	---	---	---	---	---	57	50	45	39	36	25
036 Max.	---	---	---	---	---	---	---		68	63	57	54	43
060 Min.	---	---	---	---	---	---	---	62	55	50	44	41	30
060 Max.	---	---	---	---	---	---	---		71	66	60	57	46
EL19KPV													
024 Min.	65.5	62.0	63.8	53.4	46.8	48.0	52.8	62	54	50	44	41	28
024 Max.	69.0	69.7	69.7	64.9	60.8	59.1	57.1	71	63	59	53	50	37
036 Min.	65.6	61.6	60.3	53.5	51.2	48.7	53.0	61	53	49	43	40	27
036 Max.	70.1	67.2	69.5	66.5	64.3	65.6	59.6	73	65	61	55	52	39
048 Min.	67.3	64.9	66.3	60.4	58.9	51.0	48.8	67	59	55	49	46	33
048 Max.	70.1	70.7	74.4	71.8	66.4	66.1	56.6	76	68	64	58	55	42
060 Min.	68.0	63.4	63.9	58.4	53.5	48.8	48.2	64	56	52	46	43	30
060 Max.	71.4	70.5	72.6	72.5	69.4	65.6	57.1	77	69	65	59	56	43
EL21KLV													
024 Min.	51	59.5	52.5	52	53.5	49	48	63	56	51	45	42	31
024 Max.	52.5	60.5	64	58.5	59.5	60.5	54	68	61	56	50	47	36
036 Min.	50.5	59.5	52.5	51	53.5	49.5	49	62	55	50	44	41	30
036 Max.	54.5	62.5	64.5	66.5	63.5	65	56	72	65	60	54	51	40
048 Min.	53	56.5	58.5	54.5	53	46	38.5	63	56	51	45	42	31
048 Max.	57.5	66	71	67	65.5	66.5	57	75	68	63	57	54	43
060 Min.	51.5	57.5	59	53.5	53	47	46.5	63	56	51	45	42	31
060 Max.	60	72.5	72	68.5	70.5	66	57	78	71	66	60	57	46

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

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

² 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 (Small Splits)

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
ML14KP1 - 1 Phase Models													
018	56.5	62	68.0	71.5	66.0	57.0	50	74	67	62	56	53	42
024	56.0	62	66.5	71.0	66	60	55.0	74	67	62	56	53	42
030	56.0	64	69.5	70.0	65	59	52.5	74	67	62	56	53	42
036	59	68	71.5	68.5	66	61	54	75	68	63	57	54	43
042	62	71.0	74.5	72.5	70	63	55.5	78	71	66	60	57	46
048	61	70.5	75.5	73.0	70	64	56.0	79	72	67	61	58	47
060	61.5	70.0	73.0	71	71	68	63	79	73	68	62	59	48
ML14KP1 - 3 Phase Models													
036	59	68	71.5	68.5	66	61	54	75	68	63	57	54	43
042	62	71.0	74.5	72.5	70	63	55.5	78	71	66	60	57	46
048	61	70.5	75.5	73.0	70	64	56.0	79	72	67	61	58	47
060	61.5	70.0	73.0	71	71	68	63	79	73	68	62	59	48
ML15KSPV													
018 Min.	---	---	---	---	---	---	---	58	51	46	40	37	26
018 Max.	---	---	---	---	---	---	---	---	63	58	52	49	38
024 Min.	---	---	---	---	---	---	---	58	51	46	40	37	26
024 Max.	---	---	---	---	---	---	---	---	64	59	53	50	39
030 Min.	---	---	---	---	---	---	---	57	50	45	39	36	25
030 Max.	---	---	---	---	---	---	---	---	66	61	55	52	41
036 Min.	---	---	---	---	---	---	---	57	50	45	39	36	25
036 Max.	---	---	---	---	---	---	---	---	67	62	56	53	42
042 Min.	---	---	---	---	---	---	---	57	50	45	39	36	25
042 Max.	---	---	---	---	---	---	---	---	68	63	57	54	43
048 Min.	---	---	---	---	---	---	---	57	50	45	39	36	25
048 Max.	---	---	---	---	---	---	---	---	69	64	58	55	44
060 Min.	---	---	---	---	---	---	---	62	55	50	44	41	30
060 Max.	---	---	---	---	---	---	---	---	70	65	59	56	45

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

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

² 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 (Small Splits)

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
ML16KP2													
024 Low	55	62.5	66.5	68	65.5	62	59.5	73	66	61	55	52	41
024 High	55	63	65.5	71.5	66	60.5	55	74	67	62	56	53	42
036 High	54.5	60.5	64.5	67.5	63.5	59.5	60.5	72	65	60	54	51	40
036 High	57.5	66.5	67.5	71.5	66.5	59.5	57.5	75	68	63	57	54	43
048 High	61	70.5	73	71.5	68.5	62.5	58.5	78	71	66	60	57	46
048 High	60.5	69.5	72.5	71.5	68.5	62	55	77	70	65	59	56	45
060 Min.	62.5	70	72.5	71	68	66	63	77	70	65	59	56	45
060 High	61.5	68.5	72	71.5	68	63.5	58.5	77	70	65	59	56	45
SL22KLV													
024 Min.	53.2	49.8	45.0	42.2	34.0	33.2	41.6	58	51	46	40	37	26
024 Max.	56.2	59.4	61.6	58.4	52.4	48.8	44.4	71	64	59	53	50	39
036 Min.	55.1	53.2	51.8	47.5	42.4	38.2	32.3	61	54	49	43	40	29
036 Max.	56.5	60.3	63.8	58.2	53.7	48.6	41.2	72	65	60	54	51	40
048 Min.	54.2	54.2	51.3	47.4	43.7	38.4	32.5	61	54	49	43	40	29
048 Max.	58.0	63.2	64.4	60.6	56.6	51.8	44.1	74	67	62	56	53	42
060 Min.	54.1	51.0	47.9	44.4	40.9	37.1	32.6	59	52	47	41	38	27
060 Max.	59.8	63.4	67.6	63.6	58.6	53.3	46.7	76	69	64	58	55	44

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

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

² 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 / HEAT PUMPS (Large Splits)

6 TO 20 TONS

Test Conditions		Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts							¹ Sound Rating Number (dBA)	² Estimated Sound Pressure Level at Distance From Unit (dBA at distance in ft.)				
		Center Frequency - Hz								3	5	10	15	50
		125	250	500	1000	2000	4000	8000						
ELKC AIR CONDITIONER														
Outdoor Sound Levels	072KCSS	65	68	73	76	72	68	63	81	74	69	63	60	49
	090KCSS	64	69	73	77	74	70	63	81	74	69	63	60	49
	120KCSS	70	77	82	81	77	75	71	86	79	74	68	65	54
	120KCSD	71	77	80	80	77	72	67	85	78	73	67	64	53
	150KCSD	68	77	80	82	78	73	65	86	79	74	68	65	54
	180KCSD	73	80	83	83	79	74	66	88	81	76	70	67	56
	240KCSD	73	80	85	84	80	78	74	89	82	77	71	68	57
ELKP HEAT PUMP														
Outdoor Sound Levels	072KPSS	64	69	73	77	74	70	63	81	78	73	67	64	53
	090KPSS	69	77	80	80	77	73	65	85	78	73	67	64	53
	120KPSS	69	77	80	81	78	72	64	86	79	74	68	65	54

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

¹ Tested according to AHRI Standard 270 test conditions.

¹ 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 HANDLERS (Large Splits)

6 TO 20 TONS

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
EL072KASS											
Indoor Sound Levels	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
EL090KASD											
Indoor Sound Levels	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
EL120KASD, EL150KASD											
Indoor Sound Levels	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
EL180KASD											
Indoor Sound Levels	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
EL240KASD											
Indoor Sound Levels	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.

UNIT HEATERS**LF25 | LS25**

Unit Model	¹ Estimated Sound Pressure Level at Distance From Unit (dB at distance in ft.)						
	3	5	10	15	25	35	50
30, 45	63	59	53	50	---	---	---
60, 75	64	60	54	51	---	---	---
90, 105	65	61	55	52	---	---	---
125, 150	71	67	61	58	54	51	48
175, 200	73	69	63	60	55	52	49
250, 300	72	68	62	59	55	52	49
350, 400	74	70	64	61	57	53	50

¹ 1 Estimated sound pressure level at distance based on AHRI Standard 275-2010.

ROOFTOP UNITS

2 TO 6 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	
LCM/LGM												
Outdoor Sound Levels	LCM/LGM036U	---	---	60	65	69	68	63	58	51	73	73
	LCM/LGM048U	---	---	64	67	73	71	66	59	52	76	76
	LCM/LGM060U	---	---	66	69	74	74	68	62	55	78	78
	LCM/LGM074U	---	---	67	72	76	76	70	64	58	80	80
Indoor Sound Levels	Supply Air Only	0.75	1000	49	64	59	62	61	62	59	56	---
		0.75	1200	49	60	61	63	61	62	61	54	---
		0.75	1600	51	61	78	68	66	67	67	60	---
		0.75	1675	51	59	74	69	67	68	69	61	---
		0.75	2000	55	61	82	71	70	71	72	67	---
		0.75	2200	54	60	82	72	72	72	73	70	---
		0.75	2400	66	62	80	74	73	74	75	73	---
	Return Air Only	0.75	1000	48	59	51	52	46	48	45	38	---
		0.75	1200	49	52	53	54	48	50	49	40	---
		0.75	1600	49	49	64	58	52	55	55	45	---
		0.75	1675	50	50	72	59	53	56	56	46	---
		0.75	2000	52	50	68	63	56	59	59	51	---
		0.75	2200	51	51	67	63	58	60	61	55	---
		0.75	2400	62	53	72	65	60	62	63	58	---

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.

ROOFTOP UNITS

2 TO 6 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	

LCT/LGT/LDT/LHT

Outdoor Sound Levels	LCT/LGT036,048, LDT/LHT036,048 LCT/LGT060, 072, LDT/LHT060	---	---	64	67	72	77	76	73	68	61	82
----------------------	--	-----	-----	----	----	----	----	----	----	----	----	----

LCT/LGT036, LDT/LHT036 with 1/2 hp Direct Drive ECM Blower

LCT/LGT/LDT/LHT with 1 hp Direct Drive ECM Blower

Indoor Sound Levels	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	---

LCT/LGT/LDT/LHT with 1 hp Direct Drive ECM Blower

Indoor Sound Levels	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	---

LCT/LGT/LDT/LHT with DirectPlus™ 1.5 hp ECM Blower

Indoor Sound Levels	Supply Air Only	0.75	1000	49	64	59	62	61	62	59	56	---
		0.75	1200	49	60	61	63	61	62	61	54	---
		0.75	1600	51	61	78	68	66	67	67	60	---
		0.75	1675	51	59	74	69	67	68	69	61	---
		0.75	2000	55	61	82	71	70	71	72	67	---
		0.75	2200	54	60	82	72	72	72	73	70	---
		0.75	2400	66	62	80	74	73	74	75	73	---
	Return Air Only	0.75	1000	48	59	51	52	46	48	45	38	---
		0.75	1200	49	52	53	54	48	50	49	40	---
		0.75	1600	49	49	64	58	52	55	55	45	---
		0.75	1675	50	50	72	59	53	56	56	46	---
		0.75	2000	52	50	68	63	56	59	59	51	---
		0.75	2200	51	51	67	63	58	60	61	55	---
		0.75	2400	62	53	72	65	60	62	63	58	---

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.

ROOFTOP UNITS

2 TO 6 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	
LCX/LGX/LHX												
Outdoor Sound Levels	LCX/LGX024, 036, 048, 060	---	---	---	62	66	70	69	66	60	50	74
	LCX/LGX072	---	---	---	66	71	74	73	70	65	57	79
	LHX024, 036	---	---	---	62	67	72	69	66	61	56	75
	LHX048	---	---	---	61	67	70	70	68	63	56	75
	LHX060	---	---	---	69	72	75	74	70	65	55	80
	LHX072	---	---	---	70	74	79	79	75	70	62	84
LCX/LHX024 with 1/4 hp Direct Drive Blower												
Indoor Sound Levels	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	---
LCX/LGX/LHX036, 048 with 1/2 hp Direct Drive Blower												
Indoor Sound Levels	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	---
LHX/LGX/LCX024, 036, 048, 060, 072 with 1 hp Direct Drive ECM Blower												
Indoor Sound Levels	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	---
LCX/LGX/LHX060,072 with Belt Drive Blower												
Indoor Sound Levels	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	---

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.

ROOFTOP UNITS

2 TO 6 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	
ZCD/ZGD												
Outdoor Sound Levels	ZCD/ZGD036	---	---	---	66	70	73	72	70	67	60	78
	ZCD/ZGD048	---	---	---	68	71	75	74	71	68	63	80
	ZCD/ZGD060	---	---	---	64	68	72	73	69	67	63	78
	ZCD/ZGD074	---	---	---	73	76	80	78	73	68	66	84
	ZHD036	---	---	---	66	70	75	73	71	67	60	79
	ZHD048	---	---	---	62	69	73	72	69	65	57	78
	ZHD060	---	---	---	70	72	78	75	72	70	66	82
ZCD/ZGD/ZHD036 with Belt Drive Blower												
Indoor Sound Levels	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	--
ZCD/ZGD/ZHD048 with Belt Drive Blower												
Indoor Sound Levels	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	--
ZCD/ZGD/ZHD060 with Belt Drive Blower												
Indoor Sound Levels	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	--
ZHD060 with Belt Drive Blower												
Indoor Sound Levels	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	--
ZCD/ZGD074 with Belt Drive Blower												
Indoor Sound Levels	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.

ROOFTOP UNITS

6.5 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	
LCX/LGX/LHX												
Outdoor Sound Levels	LCX/LGX092, 102	---	---	---	76	79	84	83	79	73	66	88
	LCX/LGX120, 150	---	---	---	75	81	87	85	80	73	67	90
	LHX092, 102, 120	---	---	---	76	79	84	83	79	73	66	88
LCX/LGX092 thru 150 LHX092 thru 120												
Indoor Sound Levels	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	---
		0.75	2515	47	52	54	56	56	54	51	44	---
	Return Air Only	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	---

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.

ROOFTOP UNITS

6.5 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	
LCT/LGT/LDT/LHT												
Outdoor Sound Levels	LCT/LGT092, 102	---	---	---	76	79	84	83	79	73	66	88
	LCT/LGT120,150	---	---	---	70	77	85	84	80	78	76	89
	LDT/LHT078, 092, 102, 120	---	---	---	70	79	84	83	77	72	66	88
	LDT/LHT152	---	---	---	73	74	75	72	66	60	50	85
LCT/LGT/LDT/LHT078 thru 152												
Indoor Sound Levels	Supply Air Only	0.75	2180	57	61	59	62	61	61	57	51	---
		0.75	2600	58	69	63	65	64	65	61	55	---
		0.75	2850	59	73	64	66	65	66	63	57	---
		0.75	3000	58	68	64	67	66	66	64	57	---
		0.75	3350	58	76	65	69	69	69	68	60	---
		0.75	3600	58	81	66	70	70	70	70	61	---
		0.75	4000	59	80	67	72	72	72	72	64	---
		0.75	4188	59	81	68	73	73	73	73	65	---
	Return Air Only	0.75	5000	60	86	79	77	77	77	76	56	---
		0.75	2180	58	55	55	47	47	47	43	38	---
		0.75	2600	57	61	56	50	50	50	48	42	---
		0.75	2850	57	65	56	50	51	52	50	43	---
		0.75	3000	58	66	57	51	52	53	52	44	---
		0.75	3350	58	59	59	53	54	56	55	46	---
		0.75	3600	57	67	60	54	55	58	59	54	---
		0.75	4000	57	64	61	56	57	59	60	50	---
0.75	4188	58	63	63	59	52	55	54	49	---		
0.75	5000	58	66	66	63	63	64	65	58	---		

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.

ROOFTOP UNITS
6.5 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	
LCM/LGM												
Outdoor Sound Levels	LCM/LGM/092, 102 Min.	---	---	---	58	62	62	60	55	47	60	68
	LCM/LGM/092, 102 Max.	---	---	---	72	77	81	79	74	68	66	85
	LCM/LGM/120, 150 Min.	---	---	---	55	60	62	60	56	48	60	67
	LCM/LGM/120, 150 Max.	---	---	---	79	78	85	83	79	76	73	89
Indoor Sound Levels	Supply Air Only	0.75	2180	57	61	59	62	61	61	57	51	---
		0.75	2600	58	69	63	65	64	65	61	55	---
		0.75	2850	59	73	64	66	65	66	63	57	---
		0.75	3000	58	68	64	67	66	66	64	57	---
		0.75	3350	58	76	65	69	69	69	68	60	---
		0.75	3600	58	81	66	70	70	70	70	61	---
		0.75	4000	59	80	67	72	72	72	72	64	---
		0.75	4188	59	81	68	73	73	73	73	65	---
	0.75	5000	60	86	79	77	77	77	77	76	56	---
	Return Air Only	0.75	2180	58	55	55	47	47	47	43	38	---
		0.75	2600	57	61	56	50	50	50	48	42	---
		0.75	2850	57	65	56	50	51	52	50	43	---
		0.75	3000	58	66	57	51	52	53	52	44	---
		0.75	3350	58	59	59	53	54	56	55	46	---
		0.75	3600	57	67	60	54	55	58	59	54	---
		0.75	4000	57	64	61	56	57	59	60	50	---
0.75		4188	58	63	63	59	52	55	54	49	---	
0.75	5000	58	66	66	63	63	64	65	58	---		
Exhaust Fan Only - Return		0.13	---	62	69	72	75	74	72	66	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.

ROOFTOP UNITS
6.5 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	
ZCD/ZGD/ZHD												
Outdoor Sound Levels	ZCD/ZGD092, 102	---	---	---	72	74	79	80	76	70	63	84
	ZCD/ZGD120	---	---	---	76	73	82	80	75	74	73	90
	ZCD/ZGD150	---	---	---	76	81	87	86	80	77	76	91
	ZHD092, 102	---	---	---	76	79	84	83	79	73	66	88
	ZHD120	---	---	---	77	80	85	84	79	74	66	88
Indoor Sound Levels	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.

ROOFTOP UNITS

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	
LCT/LGT/LDT/LHT													
Outdoor Sound Levels	LCT/LGT156		---	---	---	71	78	81	81	76	71	63	86
	LCT/LGT180		---	---	---	80	83	87	88	84	80	71	93
	LCT/LGT210, 240, 300		---	---	---	79	84	88	89	85	82	73	94
	LDT/LHT156, 180, 240		---	---	---	79	84	88	89	85	82	73	94
LCM/LGM													
Outdoor Sound Levels	156, 180		---	---	---	71	76	80	78	74	70	63	86
	210, 240, 300		---	---	---	73	81	86	84	78	73	67	90
LCX/LGX/LHX													
Outdoor Sound Levels	LCX/LGX180, 210		---	---	---	71	78	81	81	76	71	63	86
	LCX/LGX240		---	---	---	80	83	87	88	84	80	71	93
	LCX/LGX300		---	---	---	79	84	88	89	85	82	73	94
	LHX180S, 240S		---	---	---	80	83	87	88	84	80	71	93
156, 180, 210, 240, 300 – With Hybrid Roof Curb													
Indoor Sound Levels	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	---
			0.75	10,000	61	69	70	75	75	75	74	67	---
	Return Air Only		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 - With Horizontal Roof Curb													
Indoor Sound Levels	S.A. 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	---
	R.A. 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.

ROOFTOP UNITS

25 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	
LCT/LGT/LDT/LHT													
Outdoor Sound Levels	LCT/LGT302, 360		---	---	---	84	85	90	90	85	80	72	95
	LDT/LHT302												
302													
Indoor Sound Levels	S.A. 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	---
	R.A. 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	63	62	56
360													
Indoor Sound Levels	S.A. 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	---
	R.A. 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	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
Heat Pumps - Small Splits	Added sound data for ML15KSPV and ML16KP2.



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