

APPENDIX C

NOISE MEASUREMENTS AND CALCULATIONS

**Noise Measurement Data Sheets
and Photographs**

FIELD NOISE MEASUREMENT DATA

PROJECT: Mt. SAC Library Replacement

PROJ. # 3MTS010800

SITE IDENTIFICATION: <u>Site 1</u>	OBSERVER(S): <u>FFARHANG</u>
START DATE/TIME: <u>10/20/25; 8:26</u>	END DATE/TIME: <u>10/20/25; 9:10</u>
ADDRESS: <u>12619 Sleepy Hollow Ct.</u>	

METEOROLOGICAL CONDITIONS:

TEMP: 61- °F HUMIDITY: 60 %R.H. WIND: ☐ CALM ☒ LIGHT ☐ MODERATE ☐ VARIABLE

WINDSPEED: 0-2 MPH DIR: ☐ N ☐ NE ☒ E ☐ SE ☐ S ☐ W ☐ NW ☒ STEADY ☐ GUSTY

SKY: ☒ SUNNY ☒ CLEAR ☐ OVCST ☐ PRTLY CLOUDY ☐ FOG ☐ RAIN ☐ OTHER:

ACOUSTIC INSTRUMENTS:

INSTRUMENT: Larson Davis LXT-1 TYPE: ☒ 1 ☐ 2 SERIAL #: 0004615

CALIBRATOR: Larson Davis CAL200 SERIAL #: 12648

CALIBRATION CHECK: PRE-TEST 113.95 dBA SPL POST-TEST 113.95 dBA SPL WINDSCREEN ☒

SETTINGS: ☒ A-WEIGHTED ☒ SLOW ☐ FAST ☐ FRONTAL ☒ RANDOM ☐ ANSI ☐ OTHER:

REC #	START	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER: (TYPE?)
<u>102</u>	<u>8:26</u>	<u>8:46</u>	<u>49.2</u>	<u>62.0</u>	<u>45.6</u>	<u>46.9</u>	<u>48.2</u>	<u>50.2</u>	
<u>103</u>	<u>8:50</u>	<u>9:10</u>	<u>47.4</u>	<u>54.7</u>	<u>43.6</u>	<u>45.0</u>	<u>47.1</u>	<u>48.8</u>	

COMMENTS:

SOURCE INFO AND TRAFFIC COUNTS:

PRIMARY NOISE SOURCE: ☐ TRAFFIC ☐ AIRCRAFT ☐ RAIL ☐ INDUSTRIAL ☒ AMBIENT ☐ OTHER:

ROADWAY TYPE:

TRAFFIC COUNT DURATION: -MIN SPEED #2 COUNT SPEED

☐ NB/☐ EB ☐ SB/☐ WB ☐ NB/☐ EB ☐ SB/☐ WB ☐ NB/☐ EB ☐ SB/☐ WB

AUTOS

MED. TRUCKS:

HVY TRUCKS:

BUSES:

MOTORCYCLES:

SPEED ESTIMATED BY: ☐ RADAR ☐ DRIVING ☐ OBSERVER

OTHER SOURCES: ☒ DIST. AIRCRAFT ☐ RUSTLING LEAVES ☐ DIST. BARKING DOGS ☒ BIRDS ☐ DIST. INDUSTRIAL

☐ DIST. CHILDREN PLAYING ☒ DIST. TRAFFIC ☐ DIST. LANDSCAPING ACTIVITIES ☐ OTHER:

DESCRIPTION/SKETCH:

TERRAIN: ☐ HARD ☒ SOFT ☒ MIXED ☐ FLAT ☐ OTHER:

PHOTOS: ☒

OTHER COMMENTS/SKETCH:

- One aircraft overflight at 8:41

- Dist. " " at 9:59

FIELD NOISE MEASUREMENT DATA

PROJECT: Mt. SAC Library Replacement

PROJ. # 3MTS010800

SITE IDENTIFICATION: <u>Site 2</u>	OBSERVER(S): <u>FFARHANG</u>
START DATE/TIME: <u>10/20/25; 9:34</u>	END DATE/TIME: <u>10/20/25</u>
ADDRESS: <u>20926 Granite Wells Dr.</u>	

METEOROLOGICAL CONDITIONS:

TEMP: 69 °F HUMIDITY: 45 % R.H. WIND: ☐ CALM ☒ LIGHT ☐ MODERATE ☐ VARIABLE
 WINDSPEED: 2-4 MPH DIR: ☐ N ☐ NE ☒ E ☒ SE ☐ S ☐ W ☐ NW ☐ STEADY ☐ GUSTY
 SKY: ☒ SUNNY ☒ CLEAR ☐ OVCST ☐ PRTLY CLOUDY ☐ FOG ☐ RAIN ☐ OTHER:

ACOUSTIC INSTRUMENTS:

INSTRUMENT: Larson Davis LXT-1 TYPE: ☒ 1 ☐ 2 SERIAL #: 0004615
 CALIBRATOR: Larson Davis CAL200 SERIAL #: 12648
 CALIBRATION CHECK: PRE-TEST 114.10 dBA SPL POST-TEST 113.92 dBA SPL WINDSCREEN ☒
 SETTINGS: ☒ A-WEIGHTED ☒ SLOW ☐ FAST ☐ FRONTAL ☒ RANDOM ☐ ANSI ☐ OTHER:

REC #	START	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER: (TYPE?)
<u>104</u>	<u>9:34</u>	<u>9:54</u>	<u>48.8</u>	<u>66.4</u>	<u>41.3</u>	<u>42.7</u>	<u>44.6</u>	<u>50.7</u>	
<u>105</u>	<u>9:56</u>	<u>10:16</u>	<u>48.4</u>	<u>65.9</u>	<u>40.5</u>	<u>41.9</u>	<u>43.6</u>	<u>50.2</u>	

COMMENTS:

SOURCE INFO AND TRAFFIC COUNTS:

PRIMARY NOISE SOURCE: ☐ TRAFFIC ☐ AIRCRAFT ☐ RAIL ☐ INDUSTRIAL ☒ AMBIENT ☐ OTHER:

ROADWAY TYPE:

TRAFFIC COUNT DURATION: -MIN SPEED #2 COUNT SPEED
☐ NB/☐ EB ☐ SB/☐ WB ☐ NB/☐ EB ☐ SB/☐ WB ☐ NB/☐ EB ☐ SB/☐ WB ☐ NB/☐ EB ☐ SB/☐ WB

AUTOS
 MED. TRUCKS:
 HVY TRUCKS:
 BUSES:
 MOTORCYCLES:

SPEED ESTIMATED BY: ☐ RADAR ☐ DRIVING ☐ OBSERVER

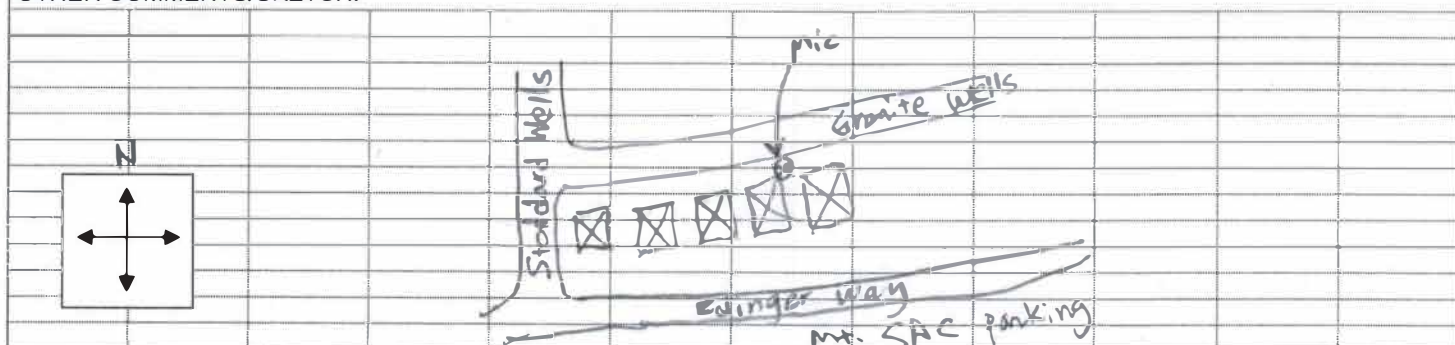
OTHER SOURCES: ☐ DIST. AIRCRAFT ☐ RUSTLING LEAVES ☒ DIST. BARKING DOGS ☒ BIRDS ☐ DIST. INDUSTRIAL
☐ DIST. CHILDREN PLAYING ☒ DIST. TRAFFIC ☒ DIST. LANDSCAPING ACTIVITIES ☐ OTHER:

DESCRIPTION/SKETCH:

TERRAIN: ☐ HARD ☒ SOFT ☐ MIXED ☐ FLAT ☐ OTHER:

PHOTOS: ☒

OTHER COMMENTS/SKETCH:



FIELD NOISE MEASUREMENT DATA

PROJECT: Mt. SAC Library Replacement

PROJ. # 3MTS010800

SITE IDENTIFICATION: <u>Site 3</u>	OBSERVER(S): <u>FFARHANG</u>
START DATE/TIME: <u>10/20/25; 10:33</u>	END DATE/TIME: <u>10/20/25;</u>
ADDRESS: <u>Walnut Heights Apts, 20700 San Jose Hills Rd</u>	

METEOROLOGICAL CONDITIONS:

TEMP: 74 °F HUMIDITY: 40 % R.H. WIND: ☐ CALM ☒ LIGHT ☐ MODERATE ☐ VARIABLE

WINDSPEED: 0-2 MPH DIR: ☐ N ☐ NE ☐ E ☐ SE ☒ S ☐ W ☐ NW ☐ STEADY ☐ GUSTY

SKY: ☒ SUNNY ☒ CLEAR ☐ OVCST ☐ PRTLY CLOUDY ☐ FOG ☐ RAIN ☐ OTHER:

ACOUSTIC INSTRUMENTS:

INSTRUMENT: Larson Davis LXT-1 TYPE: ☒ 1 ☐ 2 SERIAL #: 0004615

CALIBRATOR: Larson Davis CAL200 SERIAL #: 12648

CALIBRATION CHECK: PRE-TEST 113.95 dBA SPL POST-TEST _____ dBA SPL WINDSCREEN ☒

SETTINGS: ☐ A-WEIGHTED ☐ SLOW ☐ FAST ☐ FRONTAL ☐ RANDOM ☐ ANSI ☐ OTHER: _____

REC #	START	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER: (TYPE?)
<u>106</u>	<u>10:33</u>	<u>10:48</u>	<u>51.9</u>	<u>62.4</u>	<u>48.5</u>	<u>49.8</u>	<u>51.1</u>	<u>53.6</u>	
<u>107</u>	<u>10:52</u>	<u>11:07</u>	<u>51.3</u>	<u>60.6</u>	<u>47.4</u>	<u>48.8</u>	<u>50.4</u>	<u>53.4</u>	

COMMENTS:

SOURCE INFO AND TRAFFIC COUNTS:

PRIMARY NOISE SOURCE: ☐ TRAFFIC ☐ AIRCRAFT ☐ RAIL ☐ INDUSTRIAL ☒ AMBIENT ☐ OTHER: _____

ROADWAY TYPE: _____

TRAFFIC COUNT DURATION:	-MIN	SPEED	#2 COUNT	SPEED
☐ NB/ ☐ EB ☐ SB/ ☐ WB	☐ NB/ ☐ EB ☐ SB/ ☐ WB	☐ NB/ ☐ EB ☐ SB/ ☐ WB	☐ NB/ ☐ EB ☐ SB/ ☐ WB	☐ NB/ ☐ EB ☐ SB/ ☐ WB
AUTOS				
MED. TRUCKS:				
HVY TRUCKS:				
BUSES:				
MOTORCYCLES:				

SPEED ESTIMATED BY: ☐ RADAR ☐ DRIVING ☐ OBSERVER

OTHER SOURCES: ☒ DIST. AIRCRAFT ☐ RUSTLING LEAVES ☐ DIST. BARKING DOGS ☐ BIRDS ☐ DIST. INDUSTRIAL

☒ DIST. CHILDREN PLAYING ☒ DIST. TRAFFIC ☐ DIST. LANDSCAPING ACTIVITIES ☐ OTHER: _____

DESCRIPTION/SKETCH:

TERRAIN: ☒ HARD ☐ SOFT ☐ MIXED ☒ FLAT ☐ OTHER: _____

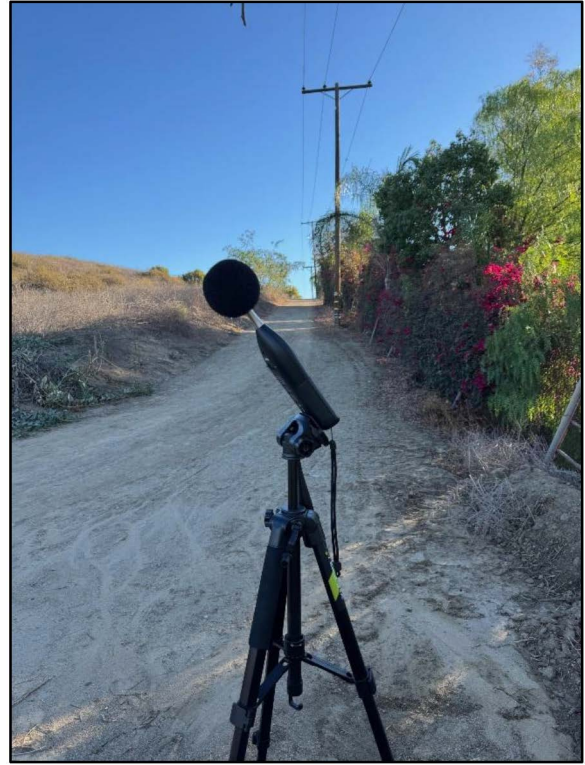
PHOTOS: _____

OTHER COMMENTS/SKETCH:

Ambient Noise Measurement Photographs at Site 1



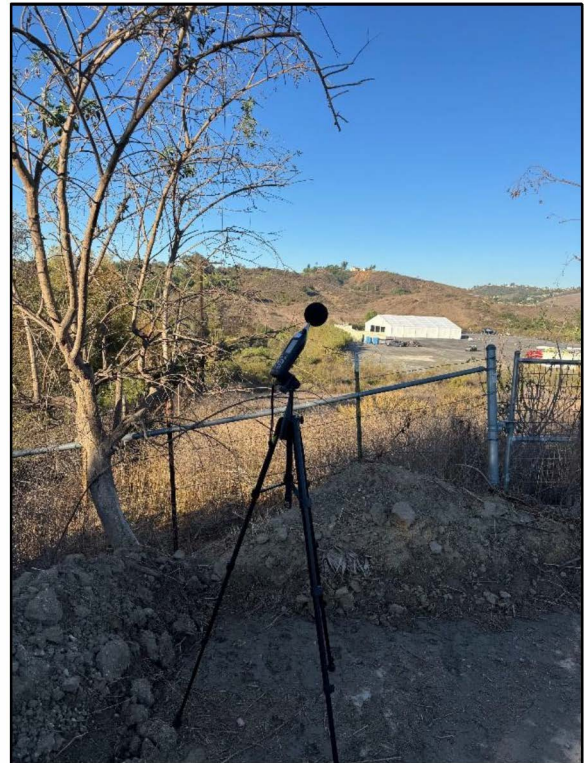
Looking North



Looking East



Looking South



Looking West

Ambient Noise Measurement Photographs at Site 2



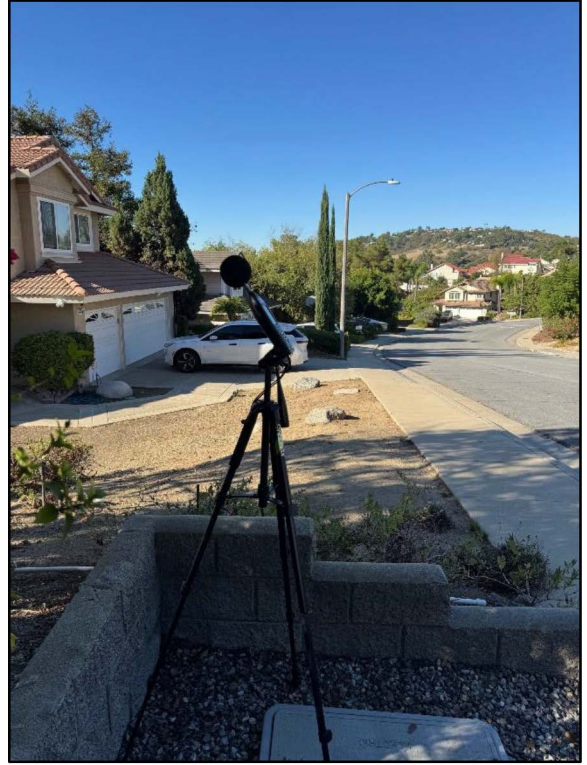
Looking North



Looking East



Looking South



Looking West

Ambient Noise Measurement Photographs at Site 3



Looking North



Looking East



Looking South



Looking West

On-Site Construction Equipment Noise and Vibration Calculations

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/24/2025
Case Description: Mt. SAC Library Project - Demolition

		Baselines (dBA)			---- Receptor #1 ----										
Description	Land Use	Daytime	Evening	Night											
Nearest Residential to the South	Residential	49	46	40											
		Equipment													
		Impact		Spec	Actual	Receptor	Estimated								
		Device	Usage(%)	Lmax	Lmax	Distance	Shielding								
Description				(dBA)	(dBA)	(feet)	(dBA)								
Dozer		No	40		81.7	2625	5								
Tractor		No	40	84		2625	5								
Concrete Saw		No	20		89.6	2625	5								
		Results													
		Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
				Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer		42.3	38.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		44.6	40.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Concrete Saw		50.2	43.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	50.2	45.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loudest value.													
		---- Receptor #2 ----													
		Baselines (dBA)													
Description	Land Use	Daytime	Evening	Night											
Nearest Residential to the North	Residential	48	46	40											
		Equipment													
		Impact		Spec	Actual	Receptor	Estimated								
		Device	Usage(%)	Lmax	Lmax	Distance	Shielding								
Description				(dBA)	(dBA)	(feet)	(dBA)								
Dozer		No	40		81.7	1614	10								
Tractor		No	40	84		1614	10								
Concrete Saw		No	20		89.6	1614	10								
		Results													
		Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
				Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer		41.5	37.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		43.8	39.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Concrete Saw		49.4	42.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	49.4	45.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loudest value.													

		Baselines (dBA)			---- Receptor #3 ----										
Description	Land Use	Daytime	Evening	Night											
Nearest Noise Sensitive Uses to the West	Residential	51	49	45											
		Equipment													
		Impact		Spec	Actual	Receptor	Estimated								
		Device	Usage(%)	Lmax	Lmax	Distance	Shielding								
Description				(dBA)	(dBA)	(feet)	(dBA)								
Dozer		No	40		81.7	1920	10								
Tractor		No	40	84		1920	10								
Concrete Saw		No	20		89.6	1920	10								
		Results													
		Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
				Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer		40	36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		42.3	38.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Concrete Saw		47.9	40.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	47.9	43.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loudest value.													

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/24/2025
Case Description: Mt. SAC Library Project - Site Preparation

		Baselines (dBA)			---- Receptor #1 ----										
Description	Land Use	Daytime	Evening	Night											
Nearest Residential to the South	Residential	49	46	40											
		Equipment													
		Impact		Spec	Actual	Receptor	Estimated								
		Device	Usage(%)	Lmax	Lmax	Distance	Shielding								
				(dBA)	(dBA)	(feet)	(dBA)								
Grader		No	40	85		2625	5								
Scraper		No	40		83.6	2625	5								
Tractor		No	40	84		2625	5								
		Results													
		Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
				Day	Evening	Night									
		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader		45.6	41.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper		44.2	40.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		44.6	40.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	45.6	45.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*Calculated Lmax is the Loudest value.															

		---- Receptor #2 ----													
		Baselines (dBA)													
Description	Land Use	Daytime	Evening	Night											
Nearest Residential to the North	Residential	48	46	40											
		Equipment													
				Spec	Actual	Receptor	Estimated								
		Impact		Lmax	Lmax	Distance	Shielding								
		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)								
Grader		No	40	85		1614	10								
Scraper		No	40		83.6	1614	10								
Tractor		No	40	84		1614	10								
		Results													
		Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
				Day	Evening	Night									
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader		44.8	40.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper		43.4	39.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		43.8	39.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	44.8	44.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*Calculated Lmax is the Loudest value.															

		Baselines (dBA)			---- Receptor #3 ----										
Description	Land Use	Daytime	Evening	Night											
Nearest Noise Sensitive Uses to the West		Residential	51	49	45										
		Equipment													
		Impact		Spec	Actual	Receptor	Estimated								
		Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)								
Grader		No	40	85		1920	10								
Scraper		No	40		83.6	1920	10								
Tractor		No	40	84		1920	10								
		Results													
		Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
				Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader		43.3	39.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper		41.9	37.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		42.3	38.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	43.3	43.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*Calculated Lmax is the Loudest value.															

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/24/2025
Case Description: Mt. SAC Library Project - Grading

		---- Receptor #1 ----													
		Baselines (dBA)													
Description	Land Use	Daytime	Evening	Night											
Nearest Residential to the South		49	46	40											
		Equipment													
		Impact		Spec	Actual	Receptor	Estimated								
		Device	Usage(%)	Lmax	Lmax	Distance	Shielding								
		(dBA)	(dBA)	(dBA)	(dBA)	(feet)	(dBA)								
Grader		No	40	85		2625	5								
Dozer		No	40		81.7	2625	5								
Tractor		No	40	84		2625	5								
Tractor		No	40	84		2625	5								
		Results													
		Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
				Day		Evening		Night		Day		Evening		Night	
		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Equipment															
Grader		45.6	41.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		42.3	38.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		44.6	40.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		44.6	40.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total		45.6	46.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

		---- Receptor #2 ----													
		Baselines (dBA)													
Description	Land Use	Daytime	Evening	Night											
Nearest Residential to the North	Residential	48	46	40											
		Equipment													
		Impact		Spec	Actual	Receptor	Estimated								
		Device	Usage(%)	Lmax	Lmax	Distance	Shielding								
Description				(dBA)	(dBA)	(feet)	(dBA)								
Grader		No	40	85		1614	10								
Dozer		No	40		81.7	1614	10								
Tractor		No	40	84		1614	10								
Tractor		No	40	84		1614	10								
		Results													
		Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
				Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader		44.8	40.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		41.5	37.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		43.8	39.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Tractor		43.8	39.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	44.8	45.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*Calculated Lmax is the Loudest value.															

---- Receptor #3 ----

Description	Land Use
Nearest Noise Sensitive Uses to the West	Residential

Baselines (dBA)

Daytime	Evening	Night
51	49	45

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Grader	No	40	85		1920	10
Dozer	No	40		81.7	1920	10
Tractor	No	40	84		1920	10
Tractor	No	40	84		1920	10

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
			Day		Evening		Night		Day		Evening		Night	
	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader	43.3	39.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	40	36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	42.3	38.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	42.3	38.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	43.3	44.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date:

11/24/2025

Case Description:

Mt. SAC Library Project - Building Construction

		Baselines (dBA)			---- Receptor #1 ----										
Description	Land Use	Daytime	Evening	Night											
Nearest Residential to the South	Residential	49	46	40											
		Equipment													
		Impact		Spec	Actual	Receptor	Estimated								
		Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)								
Crane		No	16		80.6	2625	5								
Man Lift		No	20		74.7	2625	5								
Man Lift		No	20		74.7	2625	5								
Generator		No	50		80.6	2625	5								
Tractor		No	40	84		2625	5								
Welder/ Torch		No	40		74	2625	5								
Welder/ Torch		No	40		74	2625	5								
Welder/ Torch		No	40		74	2625	5								
		Results													
		Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
				Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		41.1	33.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift		35.3	28.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift		35.3	28.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator		41.2	38.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		44.6	40.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder/ Torch		34.6	30.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder/ Torch		34.6	30.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder/ Torch		34.6	30.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total		44.6	44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loudest value.													

		Baselines (dBA)			---- Receptor #2 ----		
Description	Land Use	Daytime	Evening	Night			
Nearest Residential to the North	Residential	48	46	40			
					Equipment		
		Impact		Spec	Actual	Receptor	Estimated
		Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Description		No	16		80.6	1614	10
Crane		No	20		74.7	1614	10
Man Lift		No	20		74.7	1614	10
Man Lift		No	50		80.6	1614	10
Generator		No	40	84		1614	10
Tractor		No	40		74	1614	10
Welder / Torch		No	40				

Welder/ Torch	No	40	74	1614	10
Welder/ Torch	No	40	74	1614	10

Equipment	Results													
	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
			Day		Evening		Night		Day		Evening		Night	
	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	40.4	32.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	34.5	27.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	34.5	27.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	40.5	37.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	43.8	39.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder/ Torch	33.8	29.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder/ Torch	33.8	29.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder/ Torch	33.8	29.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	43.8	43.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Noise Sensitive Uses to the West	Residential	51	49	45

Description	Equipment					
	Impact		Spec	Actual	Receptor	Estimated
	Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Crane	No	16		80.6	1920	10
Man Lift	No	20		74.7	1920	10
Man Lift	No	20		74.7	1920	10
Generator	No	50		80.6	1920	10
Tractor	No	40	84		1920	10
Welder/ Torch	No	40		74	1920	10
Welder/ Torch	No	40		74	1920	10
Welder/ Torch	No	40		74	1920	10

Equipment	Results													
	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
			Day		Evening		Night		Day		Evening		Night	
	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	38.9	30.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	33	26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	33	26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	38.9	35.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	42.3	38.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder/ Torch	32.3	28.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder/ Torch	32.3	28.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder/ Torch	32.3	28.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	42.3	41.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/24/2025
Case Description: Mt. SAC Library Project - Architectural Coating

		---- Receptor #1 ----													
		Baselines (dBA)													
Description	Land Use	Daytime	Evening	Night											
Nearest Residential to the South	Residential	49	46	40											
		Equipment													
		Impact		Spec	Actual	Receptor	Estimated								
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	Shielding	(dBA)								
Compressor (air)	No	40		77.7	2420	5									
		Results													
		Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
				Day	Evening	Night									
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		39	35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	39	35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loudest value.													
		---- Receptor #2 ----													
		Baselines (dBA)													
Description	Land Use	Daytime	Evening	Night											
Nearest Residential to the North	Residential	48	46	40											
		Equipment													
		Impact		Spec	Actual	Receptor	Estimated								
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	Shielding	(dBA)								
Compressor (air)	No	40		77.7	1403	10									
		Results													
		Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
				Day	Evening	Night									
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		38.7	34.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	38.7	34.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loudest value.													

		---- Receptor #3 ----													
		Baselines (dBA)													
Description	Land Use	Daytime	Evening	Night											
Nearest Noise Sensitive Uses to the West	Residential	51	49	45											
		Equipment													
		Impact		Spec	Actual	Receptor	Estimated								
Description		Device	Usage(%)	Lmax	Lmax	Distance	Shielding								
Compressor (air)		No	40	(dBA)	(dBA)	(feet)	(dBA)								
					77.7	1740	10								
		Results													
		Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
				Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		36.8	32.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	36.8	32.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loudest value.													

Construction Vibration

Distance	Receptors					
	South		North		West	
	Distance to Closest Receiver (ft)		Distance to Closest Receiver (ft)		Distance to Closest Receiver (ft)	
	2420		1403		1720	
Equipment	PPV _{ref} (@ 25 ft, in/sec)	PPV (in/sec)	PPV _{ref} (@ 25 ft, in/sec)	PPV (in/sec)	PPV _{ref} (@ 25 ft, in/sec)	PPV (in/sec)
Vibratory Roller	0.21	0.000220	0.21	0.00050	0.21	0.00037
Hoe Ram	0.089	0.000093	0.089	0.00021	0.089	0.00016
Large Bulldozer	0.089	0.000093	0.089	0.00021	0.089	0.00016
Caisson Drilling	0.089	0.000093	0.089	0.00021	0.089	0.00016
Loaded Trucks	0.076	0.000080	0.076	0.00018	0.076	0.00013
Jackhammer	0.035	0.000037	0.035	0.00008	0.035	0.00006
Small Bulldozer	0.003	0.000003	0.003	0.00001	0.003	0.00001
Maximum Vibration Levels		0.00022		0.00050		0.00037
Vibration Annoyance Threshold		0.04		0.05		0.05
Exceeds Vibration Annoyance Threshold?		No		No		No

Note: Construction vibration levels are calculated at the setback of the nearest buildings to the Project site within each of the receptor properties.

Source: FTA 2018, Caltrans 2020

Rooftop Mechanical Equipment Operation Noise Data

Rooftop Mechanical Equipment Noise Calculations

Pumps							Sound Pressure Level (dBA)			Receptor 1		Receptor 2		Receptor 3	
Mark	Manufacturer	Type	HP	RPM	Reference Sound Power Level (dB)*	Reference Distance (ft)	@ reference Distance	@ 10 ft	@ 50 ft	Distance (ft)	Sound Level (dBA)	Distance (ft)	Sound Level (dBA)	Distance (ft)	Sound Level (dBA)
CHWP-1	Bell & Gossett	Base Mounted End Suction	15	1750	75.2	3	73.2	67.9	54.0	2625	19.6	1403	25.0	1720	23.2
CHWP-2	Bell & Gossett	Base Mounted End Suction	15	1750	75.2	3	73.2	67.9	54.0	2625	19.6	1403	25.0	1720	23.2
CHWP-3	Bell & Gossett	Base Mounted End Suction	15	1750	75.2	3	73.2	67.9	54.0	2625	19.6	1403	25.0	1720	23.2
CHWP-4	Bell & Gossett	Base Mounted End Suction	15	1750	75.2	3	73.2	67.9	54.0	2625	19.6	1403	25.0	1720	23.2
CHWP-5	Bell & Gossett	Base Mounted End Suction	15	1750	75.2	3	73.2	67.9	54.0	2625	19.6	1403	25.0	1720	23.2
CHWP-6	Bell & Gossett	Base Mounted End Suction	15	1750	75.2	3	73.2	67.9	54.0	2625	19.6	1403	25.0	1720	23.2
CHWP-7	Bell & Gossett	Base Mounted End Suction	15	1750	75.2	3	73.2	67.9	54.0	2625	19.6	1403	25.0	1720	23.2
CHWP-8	Bell & Gossett	Base Mounted End Suction	15	1750	75.2	3	73.2	67.9	54.0	2625	19.6	1403	25.0	1720	23.2
Condensing Units															
CU-1-1	Daikin	Heat Pump			68.0	3	55.0	49.8	35.8	2625	1.4	1403	6.8	1720	5.1
CU-1-2	Daikin	Heat Pump			68.0	3	55.0	49.8	35.8	2625	1.4	1403	6.8	1720	5.1
CU-1-3	Daikin	Heat Pump			68.0	3	55.0	49.8	35.8	2625	1.4	1403	6.8	1720	5.1
CU-1-4	Daikin	Heat Pump			68.0	3	55.0	49.8	35.8	2625	1.4	1403	6.8	1720	5.1
CU-1-5	Daikin	Heat Pump			68.0	3	55.0	49.8	35.8	2625	1.4	1403	6.8	1720	5.1
CU-1-6	Daikin	Heat Pump			68.0	3	55.0	49.8	35.8	2625	1.4	1403	6.8	1720	5.1
CU-2-1	Daikin	Heat Pump			68.0	3	55.0	49.8	35.8	2625	1.4	1403	6.8	1720	5.1
CU-2-2	Daikin	Heat Pump			68.0	3	55.0	49.8	35.8	2625	1.4	1403	6.8	1720	5.1
CU-2-3	Daikin	Heat Pump			68.0	3	55.0	49.8	35.8	2625	1.4	1403	6.8	1720	5.1
CU-3-1	Daikin	Heat Pump			68.0	3	55.0	49.8	35.8	2625	1.4	1403	6.8	1720	5.1
CU-3-2	Daikin	Heat Pump			68.0	3	55.0	49.8	35.8	2625	1.4	1403	6.8	1720	5.1
CU-3-3	Daikin	Heat Pump			68.0	3	55.0	49.8	35.8	2625	1.4	1403	6.8	1720	5.1
Heat Recovery Chiller															
HRC-1	MultiStack ARA060X	Modular Heat Recovery			97.0	3	89.5	79.0	65.0	2625.0	30.6	1403	36.1	1720	34.3
Fans															
EF-1	Greenheck	Centrifugal Upblast			84.0	3	76.5	66.0	52.0	2625.0	17.6	1403	23.1	1720	21.3
Air Handling Units															
AHU-1	TITUS DESV				98.7	3	91.2	80.7	66.8	2625.0	32.4	1403	37.8	1720	36.0
AHU-1	TITUS DESV				98.7	3	91.2	80.7	66.8	2625.0	32.4	1403	37.8	1720	36.0
Overall Sound Level at Receptor (dBA):											37.3		42.8		41.0

* Sound level data are compiled from manufacturer's specifications and data in "Noise Control for Buildings and Manufacturing Plants", BBN, 1982



DH6VS

FIT¹

UP TO 19.0 SEER2 & 8.8 HSPF2
1½ TO 5 TONS

DAIKIN FIT
HIGH-EFFICIENCY, COMMUNICATING,
VARIABLE-SPEED,
INVERTER DRIVE SIDE DISCHARGE
R-32 SPLIT SYSTEM HEAT PUMP

Contents

Nomenclature.....	2
Product Specifications.....	3
Expanded Cooling Data	4
Performance Data	18
Expanded Heating Data.....	22
Expanded Heating Data (New).....	26
Heating Charging (New)	32
Sound Data	
Sound Power.....	34
Quiet Mode.....	35
Sound Pressure	36
AHRI Ratings (see note).....	37
Dimensions	38
Wiring Diagrams	40
Accessories	42



R32

Standard Features

- Daikin variable-speed swing compressor
- Quiet digitally commutated fan motor
- High-density compressor sound blanket
- Compatible with Daikin *One+* smart thermostat and other Daikin communicating equipment
- Daikin control algorithmic logic
- Intelligent Defrost Mode
- In communicating mode, only two low-voltage wires to outdoor unit required
- Diagnostic indicator lights, seven-segment LED display, and fault code storage
- Daikin Inside intelligence for diagnostics
- Quiet-mode - provides enhanced acoustical comfort, up to 3 different sound levels (as low as 45dBA)
- Field-selectable boost mode increases compressor speed during unusually high loads
- Field-installed bi-flow filter drier
- Coil and ambient temperature sensors
- Suction pressure transducer
- Muffler on 1.5-3.0-ton models
- Sweat connection service valves with easy access to gauge ports
- Advanced water-shedding drain pan
- Hot start technology
- AHRI Certified; ETL Listed

Cabinet Features

- Heavy-gauge galvanized steel cabinet with grille-style sound control side design
- Custom Ivory white powder-paint finish
- 500-hour salt-spray tested
- High corrosion (ZAM®), unpainted steel bottom frame and legs
- Wire fan discharge grille
- Top and side maintenance access
- When properly anchored, meets the 2023 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available.)



* Complete warranty available from your local dealer or at www.daikincomfort.com. To receive the 12-Year Unit Replacement Limited Warranty and 12-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California, Florida, or Québec. The duration of warranty coverages in Texas and Florida differs in some cases. Other limitations and exclusions apply, refer to complete warranty details for full list of limitations and exclusions. Additional requirements for annual maintenance are required for the 12-Year Unit Replacement Limited Warranty. Changes in law, regulations, or technology may result in an equivalent unit not being available. Other limitations and exclusions apply, refer to complete warranty details for full list of limitations and exclusions, as well as rights and obligations should an equivalent unit not be available.

NORMAL MODE - COOLING		SOUND POWER LEVEL ¹						
TONNAGE	TOTAL UNIT SOUND RATING (dBA)	OCTAVE BAND SPECTRUM FREQUENCY (Hz) ANALYSIS (dB)						
		125	250	500	1000	2000	4000	8000
1.5-ton	61	47.7	53.0	56.9	54.8	48.4	41.2	36.5
2-ton	64	47.8	57.9	60.7	55.8	48.9	43.4	39.1
2.5-ton	66	56.9	57.4	62.0	60.2	54.2	47.4	40.3
3-ton	68	55.9	59.6	63.9	61.0	56.5	53.4	45.4
3.5-ton	70	59.7	63.9	64.6	65.2	60.3	53.8	47.5
4-ton	72	63.5	64.9	65.6	65.4	60.4	55.8	48.8
5-ton	71	61.2	64.7	65.3	65.6	61.3	57.2	48.9

¹ Compliant with AHRI 270.² Compliant with AHRI 220.

NORMAL MODE - HEATING		SOUND POWER LEVEL ¹						
TONNAGE	TOTAL UNIT SOUND RATING (dBA)	OCTAVE BAND SPECTRUM FREQUENCY (Hz) ANALYSIS (dB)						
		125	250	500	1000	2000	4000	8000
1.5-ton	61	48.4	52.3	57.3	54.9	48.7	44.8	40.4
2-ton	63	49.7	55.7	58.6	56.3	50.8	48.6	40.1
2.5-ton	70	56.2	61.4	65.5	64.5	58.4	52.0	44.6
3-ton	71	57.9	62.7	65.6	65.3	59.5	57.6	47.9
3.5-ton	71	60.7	61.3	64.8	66.1	61.5	56.0	50.3
4-ton	71	58.8	62.3	66.0	66.4	61.8	56.8	50.6
5-ton	72	61.0	64.2	66.6	66.7	62.2	57.0	51.3

¹ Compliant with AHRI 270.² Compliant with AHRI 220.

QUIET MODE_COOLING

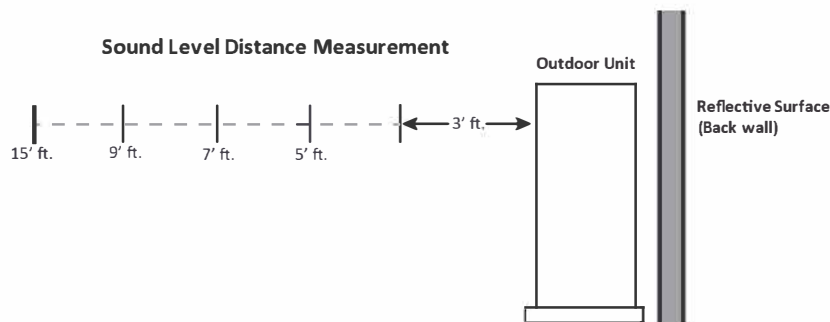
TONNAGE	SOUND SUPPRESSION LEVEL	SOUND POWER LEVEL (dBA)1	SOUND PRESSURE LEVEL (dBA)2	CAPACITY DECREASE
1.5-ton	LV.1	63	46	~5%
	LV.2	60	43	~20%
	LV.3	57	40	~40%
2-ton	LV.1	64	47	~5%
	LV.2	61	44	~35%
	LV.3	58	41	~45%
2.5-ton	LV.1	65	51	~5%
	LV.2	62	48	~30%
	LV.3	59	45	~45%
3-ton	LV.1	65	51	~5%
	LV.2	62	48	~35%
	LV.3	59	45	~50%
3.5-ton	LV.1	67	55	~5%
	LV.2	62	50	~45%
	LV.3	57	45	~50%
4-ton	LV.1	67	55	~5%
	LV.2	62	50	~25%
	LV.3	57	45	~45%
5-ton	LV.1	68	55	~5%
	LV.2	63	50	~45%
	LV.3	58	45	~50%

¹ Quiet Mode Sound Power and Sound Pressure levels determined at a distance of 3 [ft].

QUIET MODE_HEATING

TONNAGE	SOUND SUPPRESSION LEVEL	SOUND POWER LEVEL (dBA)1	SOUND PRESSURE LEVEL (dBA)2	CAPACITY DECREASE
1.5-ton	LV.1	65	48	~5%
	LV.2	62	45	~15%
	LV.3	59	42	~40%
2-ton	LV.1	66	49	~15%
	LV.2	63	46	~35%
	LV.3	60	43	~45%
2.5-ton	LV.1	67	53	~10%
	LV.2	64	50	~40%
	LV.3	59	45	~55%
3-ton	LV.1	67	53	~15%
	LV.2	64	50	~40%
	LV.3	59	45	~55%
3.5-ton	LV.1	67	55	~5%
	LV.2	62	50	~35%
	LV.3	57	45	~60%
4-ton	LV.1	67	55	~5%
	LV.2	62	50	~45%
	LV.3	57	45	~60%
5-ton	LV.1	68	55	~20%
	LV.2	63	50	~50%
	LV.3	58	45	~55%

¹ Quiet Mode Sound Power and Sound Pressure levels determined at a distance of 3 [ft].



		SOUND PRESSURE (dBA) COOLING MODE ¹				
		DISTANCE FROM PROPERTY LINE				
TONNAGE	REFLECTIVE SURFACE QTY.	3'	3'	3'	3'	15'
1.5 Ton	0	53	49	46	44	39
	1	56	52	49	47	42
	2	59	55	52	50	45
2.0 Ton	0	56	52	49	47	42
	1	59	55	52	50	45
	2	62	58	55	53	48
2.5 Ton	0	59	54	52	49	45
	1	62	57	55	52	48
	2	65	60	58	55	51
3.0 Ton	0	60	56	53	51	46
	1	63	59	56	54	49
	2	66	62	59	57	52
3.5 Ton	0	63	59	56	54	49
	1	66	62	59	57	52
	2	69	65	62	60	55
4.0 Ton	0	64	60	57	55	50
	1	67	63	60	58	53
	2	70	66	63	61	56
5.0 Ton	0	64	60	57	55	50
	1	67	63	60	58	53
	2	70	66	63	61	56

¹ Compliant with AHRI 275 utilizing standard mode, total sound levels

		SOUND PRESSURE (dBA) HEATING MODE ¹				
		DISTANCE FROM PROPERTY LINE				
TONNAGE	REFLECTIVE SURFACE QTY.	3'	3'	3'	3'	15'
1.5 Ton	0	54	49	46	44	40
	1	57	52	49	47	43
	2	60	55	52	50	46
2.0 Ton	0	55	51	48	46	41
	1	58	54	51	49	44
	2	61	57	54	52	47
2.5 Ton	0	62	58	55	53	48
	1	65	61	58	56	51
	2	68	64	61	59	54
3.0 Ton	0	63	59	56	54	49
	1	66	62	59	57	52
	2	69	65	62	60	55
3.5 Ton	0	63	59	56	54	49
	1	66	62	59	57	52
	2	69	65	62	60	55
4.0 Ton	0	64	60	57	54	50
	1	67	63	60	57	53
	2	70	66	63	60	56
5.0 Ton	0	65	61	58	55	51
	1	68	64	61	58	54
	2	71	67	64	61	57

¹ Compliant with AHRI 275 utilizing standard mode, total sound levels

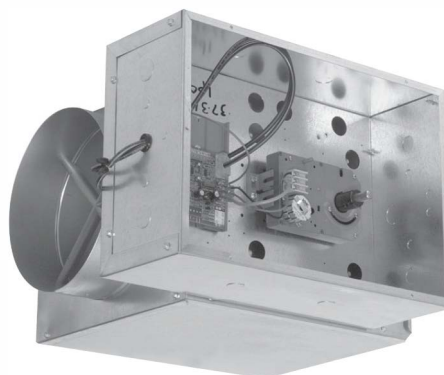
RECOMMENDED PRIMARY AIR CFM RANGES / ALL TERMINALS

Control Types:

- PESV / Pneumatic
- AESV / Analog Electronic
- DESV / Digital Electronic

QUICK SELECTION PROCEDURE

1. Select unit inlet size based upon acoustic parameters and/or maximum pressure drop requirements, using pages M15-M16
2. Check inlet size selection against cfm control limits based on control type shown on this page
3. Select accessories (multi-outlets, attenuators) as required
4. Select reheat coil, if required. Make your selection using the actual heating flow rate, not cooling.



Inlet Size	Total CFM Range	CFM Ranges of Minimum and Maximum Settings							
		PESV - Pneumatic Titus II Controller		PESV - Pneumatic Titus I Controller		AESV - Analog Electronic TA1 Controller		DESV - Digital Typical Controller	
		Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
4	0-225	50-210	90-225	65-210	90-225	50-225	50-225	30-225	30-225
5	0-350	70-300	125-350	90-300	125-350	70-350	70-350	40-350	40-350
6	0-500	80-345	145-500	100-345	145-500	80-500	80-500	45-500	45-500
7	0-650	120-515	210-650	150-515	210-650	120-650	120-650	70-650	70-650
8	0-900	160-700	285-900	205-700	285-900	160-900	160-900	90-900	90-900
9	0-1050	205-900	370-1050	260-900	370-1050	205-1050	205-1050	120-1050	120-1050
10	0-1400	250-1110	455-1400	325-1110	455-1400	250-1400	250-1400	145-1400	145-1400
12	0-2000	330-1460	600-2000	425-1460	600-2000	330-2000	330-2000	190-2000	190-2000
14	0-3000	525-2335	955-3000	675-2335	955-3000	525-3000	525-3000	300-3000	300-3000
16	0-4000	665-2970	1215-4000	860-2970	1215-4000	665-4000	665-4000	385-4000	385-4000
24 X 16	0-8000	1245-5555	2270-8000	1605-5555	2270-8000	1245-8000	1245-8000	720-8000	720-8000

Note: On controls mounted by Titus but supplied by others (FMA or Factory Mounting Authorization), these values are guidelines only. Controls mounted on an FMA basis are calibrated in the field.

PERFORMANCE DATA

single / dual duct terminals

PESV, AESV, DESV / RADIATED SOUND PERFORMANCE

Size	CFM	Min ΔPs	Octave Band Sound Power, Lw																											
			0.5" ΔPs							1.0" ΔPs							1.5" ΔPs							2.0" ΔPs						
			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	100	0.02	49	45	36	33	31	26	11	52	48	39	36	35	31	15	53	50	41	37	37	34	17	55	51	43	38	39	36	18
	125	0.03	52	49	39	36	32	27	16	55	52	42	38	36	32	20	57	54	44	40	39	36	22	58	55	45	41	40	38	23
	150	0.04	55	52	41	37	34	28	20	58	55	44	40	38	34	23	60	57	46	41	40	37	25	61	58	47	42	42	39	27
	175	0.06	58	55	42	39	35	29	23	61	58	46	42	39	34	27	63	59	48	43	41	38	28	64	61	49	44	43	40	30
200	0.08	60	57	44	40	36	30	25	63	60	47	43	40	35	29	65	62	49	44	42	38	31	66	63	51	45	44	41	33	
5	150	0.01	49	44	36	32	31	25	10	53	49	41	36	35	30	16	55	51	43	38	37	33	18	57	53	45	39	39	35	21
	200	0.02	53	48	39	35	34	27	15	56	53	44	38	37	32	21	59	55	46	40	40	35	23	60	57	48	42	41	37	25
	250	0.03	55	52	41	37	35	29	20	59	56	46	40	39	34	24	62	59	49	42	41	37	28	63	61	51	44	43	39	30
	300	0.04	58	54	43	39	37	30	22	62	59	48	42	41	35	28	64	61	50	44	43	38	30	65	63	52	45	44	40	33
350	0.06	60	56	45	40	38	31	24	63	61	49	43	42	36	30	66	63	52	45	44	39	33	67	65	54	47	45	41	35	
6	300	0.07	55	49	40	35	32	28	16	59	54	45	39	37	33	22	61	57	48	41	39	36	25	63	59	50	42	41	38	28
	350	0.10	57	52	42	37	34	29	20	60	57	47	41	38	34	25	62	59	50	43	40	37	28	64	62	52	44	42	39	31
	400	0.13	58	53	44	39	35	30	21	61	58	49	42	39	35	27	63	61	52	44	42	38	30	65	63	54	46	43	40	33
	450	0.16	59	55	45	40	36	31	23	62	60	50	44	40	36	29	64	63	53	46	43	39	33	66	65	55	47	45	41	35
500	0.20	59	56	47	42	37	32	24	63	61	51	45	41	37	30	65	64	54	47	44	40	34	67	67	56	49	46	42	37	
7	450	0.07	59	48	42	38	33	24	20	61	54	48	42	38	30	23	62	57	51	45	41	33	25	63	59	53	46	43	35	28
	500	0.09	60	50	43	39	34	24	22	62	55	49	43	39	30	24	63	58	52	46	42	34	27	64	60	54	48	44	36	29
	550	0.10	60	51	44	40	35	25	22	63	57	50	45	40	31	25	64	59	53	47	43	34	28	66	62	55	49	45	37	31
	600	0.12	61	53	45	42	35	25	23	63	58	51	46	41	31	27	65	61	54	48	44	35	30	66	63	56	50	46	37	33
650	0.15	62	54	46	43	36	26	24	64	59	52	47	41	32	28	65	62	55	49	44	35	31	66	64	57	51	46	38	34	
8	600	0.02	59	50	44	40	38	32	20	62	55	49	43	43	39	24	64	58	52	46	45	44	27	65	60	54	47	47	47	29
	650	0.02	60	51	44	41	39	32	22	63	56	50	44	44	40	25	65	59	53	47	46	45	28	66	61	55	48	48	48	30
	700	0.02	60	52	45	42	40	33	22	63	57	50	45	44	41	25	65	60	53	47	47	45	29	67	62	56	49	49	48	31
	750	0.02	61	53	46	43	40	34	23	64	58	51	46	45	41	27	66	61	54	48	48	46	30	67	63	56	50	50	49	33
800	0.03	62	54	47	43	41	34	24	65	59	52	47	46	42	28	66	62	55	49	48	47	31	68	64	57	51	50	50	34	
9	800	0.04	58	47	43	36	34	30	19	61	53	49	42	40	35	23	62	57	52	46	44	38	26	63	59	55	48	47	40	29
	850	0.04	58	48	43	37	34	31	19	61	54	49	43	41	35	23	63	58	53	46	45	38	27	64	60	55	49	47	40	29
	900	0.05	59	49	44	37	35	31	20	62	55	50	43	41	35	24	64	58	53	47	45	38	27	65	61	56	49	48	40	30
	950	0.06	59	50	44	37	35	31	20	62	56	50	43	42	36	24	64	59	54	47	45	38	28	65	62	56	49	48	40	31
1000	0.06	60	50	44	38	36	31	22	63	56	50	44	42	36	25	65	60	54	47	46	39	29	66	62	57	50	48	40	31	
10	900	0.01	60	50	47	45	42	29	22	63	57	53	50	48	37	27	65	60	57	53	52	41	31	67	63	59	56	54	44	34
	1000	0.01	60	51	48	46	43	30	22	64	58	54	51	49	38	28	66	61	57	54	53	42	31	67	64	59	56	55	45	34
	1100	0.01	61	52	48	47	44	32	23	65	58	54	52	50	39	28	67	62	57	55	54	43	31	68	64	60	57	56	46	35
	1200	0.01	62	53	48	47	45	32	24	65	59	54	53	51	40	28	67	63	58	56	55	44	33	69	65	60	58	57	47	35
1300	0.01	63	54	49	48	45	33	25	66	60	55	53	52	41	29	68	63	58	56	55	45	33	69	66	61	58	58	48	36	
12	1200	0.01	58	50	47	41	37	30	20	62	56	52	47	43	37	26	64	59	56	50	46	41	30	66	61	58	53	49	43	32
	1400	0.01	60	52	48	42	38	32	22	63	57	54	48	45	39	28	65	60	57	52	48	42	31	67	63	60	54	51	45	35
	1600	0.01	61	53	50	43	40	34	24	64	59	55	49	46	40	29	66	62	59	53	50	44	34	68	64	61	55	52	47	36
	1800	0.01	61	55	51	44	41	35	25	65	60	56	50	48	41	30	67	63	60	54	51	45	35	69	65	62	56	54	48	37
2000	0.01	62	56	52	45	43	36	26	66	61	57	51	49	43	31	68	64	61	55	52	47	36	69	67	63	57	55	49	38	
14	1500	0.02	56	51	45	43	40	36	18	60	56	50	48	45	41	24	62	59	53	51	48	45	28	64	61	55	53	50	47	30
	1800	0.03	58	53	46	44	41	36	21	62	58	51	49	46	42	27	64	60	54	52	49	45	29	66	63	56	54	51	48	33
	2100	0.04	59	54	47	45	42	37	22	63	59	52	50	47	43	28	66	62	55	53	50	46	31	67	64	58	55	52	49	34
	2400	0.05	60	55	48	46	43	38	23	64	60	53	51	48	43	29	67	63	56	54	51	47	33	69	65	58	56	53	49	35
2700	0.06	62	56	49	47	44	38	24	66	61	54	52	49	44	30	68	64	57	55	52	47	34	70	66	59	57	54	50	36	
16	2000	0.02	55	48	43	41	39	31	36	59	53	47	45	44	38	21	61	56	50	47	47	41	24	63	58	52	49	49	44	27
	2400	0.02	57	51	45	43	41	33	18	61	56	49	47	46	39	24	64	59	52	49	49	43	28	65	61	54	51	51	46	30
	2800	0.03	59	53	46	44	42	34	21	63	58	51	48	47	41	27	66	61	54	50	50	45	30	67	63	55	52	52	48	33
	3200	0.04	61	55	48	46	44	36	23	65	60	52	50	49	42	29	67	62	55	52	52	46	31	69	64	57	53	54	49	34
3600	0.05	62	56	49	47	45	37	24	66	61	54	51	50	44	30	69	64	56	53	53	48	34	71	66	58	55	55	50	36	
40	3900	0.03	70	65	63	59	57	54	38	72	68	66	62	61	58	41	74	69	67	63	63	61	42	75	70	68	64	65	63	43
	4600	0.04	73	68	66	62	59	55	41	75	71	68</																		

PESV, AESV, DESV / DISCHARGE SOUND PERFORMANCE

Size	CFM	Min ΔPs	Octave Band Sound Power, Lw																															
			0.5" ΔPs							1.0" ΔPs							1.5" ΔPs							2.0" ΔPs										
			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	100	0.02	70	56	47	42	40	33	28	71	59	51	46	47	41	29	72	61	54	49	50	46	30	73	62	56	51	53	49	31				
	125	0.03	72	60	50	44	42	35	30	73	63	54	49	49	43	31	74	64	57	52	52	47	33	75	65	59	54	55	51	34				
	150	0.04	73	63	52	47	44	36	31	75	65	57	51	50	44	34	76	67	60	54	54	49	35	76	68	61	56	57	52	35				
	175	0.06	75	65	54	48	45	37	34	76	68	59	53	51	45	35	77	69	62	56	55	50	36	78	71	64	58	58	53	38				
200	0.08	76	67	56	50	46	38	35	77	70	61	55	53	46	36	78	72	63	58	56	51	38	79	73	65	60	59	54	39					
5	150	0.01	68	53	47	43	41	34	25	70	58	52	47	47	42	28	72	60	55	50	51	46	30	73	62	58	52	53	49	31				
	200	0.02	71	57	50	46	43	36	29	73	61	56	51	49	44	31	75	64	59	53	53	48	34	76	66	61	55	55	51	35				
	250	0.03	73	60	53	49	45	38	31	75	65	58	53	51	45	34	77	67	61	56	55	50	36	78	69	63	58	57	53	38				
	300	0.04	74	62	55	51	47	39	32	77	67	60	55	53	46	33	78	70	63	58	56	51	37	79	72	66	60	59	54	35				
350	0.06	76	64	57	52	48	40	39	31	78	69	62	57	54	47	34	80	72	65	60	57	52	36	81	74	67	61	60	55	38				
6	300	0.07	68	60	54	50	45	39	21	72	65	59	54	51	46	26	75	68	62	57	54	50	30	77	70	64	58	56	53	33				
	350	0.10	69	62	55	52	47	40	22	74	67	61	56	52	47	29	76	70	64	59	55	51	31	78	72	66	60	58	54	34				
	400	0.13	71	63	57	54	48	41	25	75	69	62	58	53	48	30	78	72	65	60	57	52	34	79	74	67	62	59	55	35				
	450	0.16	72	65	58	55	49	42	26	76	70	64	59	54	49	31	79	73	67	62	58	53	35	81	76	69	63	60	56	38				
500	0.20	73	66	60	56	50	43	28	77	72	65	61	55	50	33	80	75	68	63	59	54	36	82	77	70	65	61	57	39					
7	450	0.07	71	61	54	51	47	40	25	74	66	59	54	51	46	29	75	70	61	56	54	49	30	77	72	63	58	56	52	33				
	500	0.09	71	62	55	52	48	40	25	74	68	60	56	52	47	29	76	71	63	58	55	50	31	77	74	64	59	57	53	34				
	550	0.10	72	64	56	54	49	41	26	75	69	61	57	53	48	30	76	73	64	59	56	51	33	78	75	65	60	58	54	36				
	600	0.12	72	65	57	55	49	42	26	75	70	62	58	54	48	30	77	74	64	60	57	52	34	78	76	66	61	59	55	37				
650	0.15	72	66	58	56	50	43	26	75	72	63	59	55	49	32	77	75	65	61	58	53	36	79	77	67	62	59	55	38					
8	600	0.02	73	63	56	52	48	40	28	76	69	60	55	52	47	31	78	72	62	56	55	51	34	79	75	64	57	57	54	36				
	650	0.02	74	64	57	53	48	41	29	77	70	61	56	53	47	33	78	73	63	57	55	51	34	79	76	65	58	57	54	37				
	700	0.02	74	65	57	54	49	41	29	77	71	61	56	53	48	33	79	74	64	58	56	52	35	80	77	65	59	58	55	38				
	750	0.02	75	66	58	54	49	42	28	77	72	62	57	54	48	31	79	75	64	58	56	52	34	80	78	66	60	58	55	38				
800	0.03	75	67	58	55	50	42	28	78	73	63	58	54	49	32	79	76	65	59	57	53	36	81	78	67	60	59	56	38					
9	800	0.04	73	61	57	53	49	43	25	76	66	61	57	54	49	29	77	69	63	59	57	53	30	78	71	65	60	59	56	31				
	850	0.04	74	62	57	53	49	43	26	76	67	61	57	54	50	29	78	70	63	59	57	54	31	79	72	65	61	59	56	33				
	900	0.05	74	63	58	54	50	43	26	77	68	62	57	55	50	30	79	70	64	59	57	54	33	80	72	66	61	59	57	34				
	950	0.06	75	63	58	54	50	44	28	78	68	62	58	55	50	31	79	71	64	60	58	54	33	80	73	66	61	60	57	34				
1000	0.06	75	64	59	55	50	44	28	78	69	62	58	55	50	31	80	72	65	60	58	54	34	81	74	66	62	60	57	35					
10	900	0.01	75	62	58	55	50	44	28	77	67	62	59	55	50	30	78	70	65	61	58	54	31	79	73	67	63	61	57	33				
	1000	0.01	76	63	59	56	50	44	29	78	68	63	60	56	51	31	79	71	66	62	59	55	33	80	74	68	64	61	57	34				
	1100	0.01	76	63	59	57	51	45	29	79	69	64	61	56	51	33	80	72	66	63	60	55	34	81	74	68	65	62	58	35				
	1200	0.01	77	64	60	57	52	45	30	79	70	64	61	57	52	33	81	73	67	64	60	56	35	82	75	69	66	63	59	36				
1300	0.01	78	65	61	58	52	46	31	80	70	65	62	58	53	34	81	74	68	65	61	56	35	82	76	69	66	63	59	36					
12	1200	0.01	73	64	60	55	53	46	25	76	69	64	59	57	52	29	78	72	66	62	60	56	31	79	74	68	64	62	59	33				
	1400	0.01	74	65	62	56	54	47	26	77	71	66	61	59	53	30	79	74	68	63	61	57	33	80	76	70	65	63	60	36				
	1600	0.01	75	66	63	57	55	48	28	78	72	67	62	59	55	31	80	75	69	64	62	58	34	81	77	71	66	64	61	37				
	1800	0.01	76	68	64	58	55	49	29	79	73	68	63	60	56	33	80	76	71	65	63	59	36	81	78	72	67	65	62	38				
2000	0.01	76	69	65	59	56	50	29	79	74	69	64	61	56	33	81	77	72	66	64	60	37	82	79	73	68	66	63	39					
14	1500	0.02	69	57	56	53	50	44	20	72	63	56	59	57	53	24	74	67	56	62	62	59	26	76	69	56	65	65	62	29				
	1800	0.03	70	59	58	53	50	44	21	73	65	58	59	58	53	25	75	68	58	63	62	59	28	77	71	58	65	65	63	30				
	2100	0.04	71	60	59	54	51	44	22	74	66	59	60	58	54	26	76	69	59	63	63	59	29	78	72	59	66	66	63	31				
	2400	0.05	72	61	60	54	51	44	24	75	67	60	60	59	54	28	77	70	60	64	63	59	30	78	73	60	66	66	63	32				
2700	0.06	72	62	61	54	51	45	24	76	68	61	61	59	54	29	78	71	61	64	63	60	31	79	74	61	67	66	63	33					
16	2000	0.02	68	59	57	54	52	45	19	71	63	57	58	56	51	22	73	66	57	61	59	54	25	74	68	57	63	61	57	26				
	2400	0.02	70	62	59	55	53	46	21	73	66	59	60	58	52	25	75	68	59	62	61	56	28	76	70	59	64	62	58	29				
	2800	0.03	71	64	61	57	55	48	22	75	68	61	61	59	54	28	77	70	61	64	62	57	30	78	72	61	66	64	60	31				
	3200	0.04	73	65	63	58	56	49	25	76	69	63	62	60	55	29	78	72	63	65	63	59	31	79	73	63	67	65	61	33				
3600	0.05	74	67	65	59	57	50	26	77	71	65	63	61	56	30	79	73	65	66	64	60	33	81	75	65	68	66	62	35					
40	3900	0.03	76	70	66	62	61	56	29	81	75	66	67	67	62	35	84	78	66	69	70	66	39	86	80	66	71	72	68	42				
	4600	0.04	77	71	67	63	63	5																										