Comfort-Aire®

LE Series

SPECIFICATIONS

Refrigerant System

- Environmentally friendly R454B refrigerant
- Copper tubing with enhanced fin coils
- Internal service guage ports
- Sleeved distributor tubes
- Antimicrobial insulated drain pan
- High and Low Threaded pressure switches for system protection

Heat Exchanger

- Models comply with California Energy Commission Ultra Low NOx regulations (<14ng/J)
- Stainless steel dimpled tubular heat exchanger for increased efficiency
- Pest protected flue outlet

Cabinet Construction

- Heavy-gauge galvanized steel base rails with rigging holes
- Rounded corners for safety and an attractive, clean appearance
- One piece base design for strength and stability
- Condensate and coil runoff drains to the perimeter of the unit
- Horizontal and downflow duct openings are flanged to minimize water entry
- Low profile, with compact footprint
- Insulation to minimize heat loss plus reduce sound
- Textured pre-painted steel cabinet finish
- Superior service access to components
- Louvered coil guard protection
- One piece "no leak" top design

Blower

- Insulated compartment to reduce sound
- Efficient constant torque motor for wide airflow range
- Slide out blower housing for easy service

Controls

- Solid state integrated blower control board with L.E.D self diagnostics
- Direct spark ignition
- Color coded wiring for easy service

Installation

- Horizontal or down discharge capable
- Horizontal and downflow duct covers provided with unit for installation flexibility
- Drain pan float switch monitors condensate level in drain pan and shuts down unit if drain becomes clogged
- Utility connections on "right side"
- Kits enable bottom gas and power entry through base pan
- Seismic Certification (with Seismic Strapping Kit applied): Latest Edition of International Building Code, California Building Code, and ASCE 7-16

Accessories

- Clip roof curbs and adjustable pitch roof curbs available
- Internal Filter kits
- Duct Adapters
- Closure kit for base rail openings

GPA-SX SERIES

GAS/ELECTRIC PACKAGED UNIT - ULTRA LOW NOx

14 SEER/13.4 SEER2

California Only

This product is not certified to be sold or installed in the South Coast Air Quality Management District (SCAQMD). It does not meet the SCAQMD Rule 1111 NOx emission limit of 14 Ng/J. This product is not certified to be sold or installed in the San Joaquin Valley Air Pollution Control District (SJVAPCD). It does not meet the SJVAPCD Rule 4905 NOx emission limit of 14 Ng/J. For packaged units that meet SCAQMD/SJVAPCD requirements, refer to the PRPGN14 technical specification.

Warranty–Standard warranty or Extended warranty available with product registration.

See warranty document for details or visit;

www.comfort-aire.com

R454B

MODEL NUMBER GUIDE

G	PA	24	054	S	X	1
Gas	Package Unit	Cooling Capacity	Heating Capacity	Standard Efficiency	Ultra Low NOx	Power 208/230-1-60

ELECTRICAL AND PHYSICAL DATA

Model	Voltage	Phase	Hz	Min Volts @ 60 hz	MCA	Max Fuse/ HACR Breaker	Compressor	Condenser Motor		Blower Motor		Refrig. Charge (oz.)	Weight (lbs.)
							RLA	FLA	HP	FLA	HP		
GPA24054SX1	208-230	1	60	197	14.8	20.0	8.8	2.80	1/3	1.0	1/6	70 oz	407
GPA30054SX1					17.5	25.0	11.1	2.60	1/2	1.0	1/6	73 oz	414
GPA36054SX1					22.9	35.0	14.3	4.10	1/2	1.0	1/6	72 oz	430
GPA42072SX1					26.5	40.0	16.7	3.90	3/4	1.7	1/4	86 oz	522
GPA48072SX1					28.7	45.0	18.0	4.50	3/4	1.7	1/4	90 oz	525
GPA60072SX1					39.7	60.0	24.3	7.60	1	1.7	1/4	125 oz	557

PERFORMANCE

Model	COOLING				HEATING				Sound dBA
	Rated AHRI Capacity Btuh (SEER/ SEER2)	SEER/ EER	SEER2/ EER2	Rated Sensible Capacity Btuh	Input BTUH	Output BTUH	Efficiency AFUE	Temp Rise Range F	
GPA24054SX1	22,600 / 22,600	14.0/11.0	13.4/10.6	17,400 / 16,900	54,000	43,800	81%	30-60	77
GPA30054SX1	28,400 / 28,400			21,900 / 21,800	54,000	43,800		30-60	79
GPA36054SX1	34,000 / 33,400			26,100 / 25,700	54,000	43,800		30-60	78
GPA42072SX1	40,000 / 40,000			30,800 / 30,800	72,000	58,400		25-55	78
GPA48072SX1	45,500 / 44,500			35,000 / 34,200	72,000	58,400		25-55	77
GPA60072SX1	57,000 / 57,500			41,600 / 41,900	72,000	58,400		25-55	78

*Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240

Comfort-Aire®

BLOWER PERFORMANCE

Model	Blower Tap			SCFM @ External Static Pressure (in w.c.) - No filter, Dry Coil					
				0.1	0.2	0.3	0.4	0.5	0.6
GPA24SX1	Tap 1	Fan Only		640	590	545	495	445	385
	Tap 2	Cooling (Low Static)		820	785	750	715	675	635
	Tap 3	Cooling (High Static)		960	925	885	850	815	780
	Tap 4	Heating (Low Static)	SCFM	925	890	865	830	795	765
			Rise	44	46	47	49	51	53
	Tap 5	Heating (High Static)	SCFM	1005	970	940	910	880	855
			Rise	41	42	43	45	46	48
GPA30SX1	Tap 1	Fan Only		670	625	580	535	490	440
	Tap 2	Cooling (Low Static)		1020	985	955	920	890	860
	Tap 3	Cooling (High Static)		1140	1105	1075	1045	1015	1000
	Tap 4	Heating (Low Static)	SCFM	935	895	860	835	800	765
			Rise	44	45	47	49	51	53
	Tap 5	Heating (High Static)	SCFM	1020	990	955	925	895	865
			Rise	40	41	43	44	46	47
GPA36SX1	Tap 1	Fan Only		795	745	700	645	590	525
	Tap 2	Cooling (Low Static)		1250	1215	1180	1145	1115	1085
	Tap 3	Cooling (High Static)		1390	1355	1320	1285	1250	1205
	Tap 4	Heating (Low Static)	SCFM	935	890	855	815	770	725
			Rise	44	46	48	50	53	56
	Tap 5	Heating (High Static)	SCFM	1050	1010	970	935	895	860
			Rise	39	40	42	44	46	47
GPA42SX1	Tap 1	Fan Only		775	700	615	535	470	390
	Tap 2	Cooling (Low Static)		1460	1420	1380	1340	1300	1255
	Tap 3	Cooling (High Static)		1600	1555	1510	1470	1430	1390
	Tap 4	Heating (Low Static)	SCFM	1410	1370	1325	1285	1240	1200
			Rise	39	40	41	42	44	45
	Tap 5	Heating (High Static)	SCFM	1535	1495	1555	1415	1375	1335
			Rise	35	36	37	38	39	41
GPA48SX1	Tap 1	Fan Only		1065	1020	965	910	850	790
	Tap 2	Cooling (Low Static)		1665	1630	1595	1560	1530	1490
	Tap 3	Cooling (High Static)		1775	1735	1700	1660	1605	1555
	Tap 4	Heating (Low Static)	SCFM	1405	1370	1325	1290	1245	1205
			Rise	39	40	41	42	44	45
	Tap 5	Heating (High Static)	SCFM	1515	1480	1440	1405	1370	1325
			Rise	36	37	38	39	40	41
GPA60SX1	Tap 1	Fan Only		1240	1190	1125	1060	995	940
	Tap 2	Cooling (Low Static)		1885	1840	1800	1755	1715	1675
	Tap 3	Cooling (High Static)		1965	1920	1875	1835	1785	1750
	Tap 4	Heating (Low Static)	SCFM	1420	1365	1315	1265	1215	1155
			Rise	38	40	41	43	45	47
	Tap 5	Heating (High Static)	SCFM	1570	1520	1470	1420	1370	1320
			Rise	35	36	37	38	40	41

COOLING PERFORMANCE - EXTENDED RATINGS

Outdoor Model	Indoor Temp DB/WB °F	Outdoor Temperature - DB °F														
		65°			82° / 67°			95° / 75°			105° / 85°			115° / 95°		
		Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW
GPA24054SX1	85 / 72	28,500	0.65	1.35	26,400	0.67	1.66	24,900	0.69	1.88	23,500	0.71	2.08	22,000	0.73	2.27
	80 / 67	26,300	0.70	1.37	24,300	0.72	1.66	22,600	0.75	1.88	21,600	0.77	2.06	20,200	0.79	2.25
	75 / 63	24,500	0.73	1.38	22,700	0.75	1.66	21,400	0.77	1.88	20,200	0.79	2.05	18,900	0.81	2.24
	75 / 57	22,600	0.96	1.39	21,000	0.99	1.66	20,000	1.00	1.87	19,000	1.00	2.04	17,900	1.00	2.22
GPA30054SX1	85 / 72	36,800	0.65	1.84	33,600	0.68	2.19	31,400	0.71	2.46	29,600	0.73	2.67	27,500	0.75	2.88
	80 / 67	33,900	0.71	1.78	30,900	0.74	2.14	28,400	0.77	2.41	27,200	0.79	2.62	25,300	0.82	2.84
	75 / 63	31,600	0.73	1.73	28,800	0.76	2.09	27,000	0.79	2.37	25,400	0.81	2.58	23,600	0.84	2.79
	75 / 57	29,100	0.99	1.67	26,900	1.00	2.04	25,400	1.00	2.33	24,100	1.00	2.55	22,700	1.00	2.77
GPA36054SX1	85 / 72	41,000	0.66	2.06	38,500	0.68	2.48	36,500	0.71	2.81	34,500	0.73	3.11	32,200	0.75	3.47
	80 / 67	37,900	0.72	2.07	35,600	0.74	2.48	34,000	0.77	2.80	31,800	0.79	3.10	29,600	0.81	3.44
	75 / 63	35,300	0.75	2.07	33,200	0.76	2.48	31,400	0.79	2.79	29,600	0.81	3.09	27,600	0.84	3.44
	75 / 57	32,700	1.00	2.08	30,900	1.00	2.48	29,500	1.00	2.78	28,100	1.00	3.08	26,400	1.00	3.43
GPA42072SX1	85 / 72	50,300	0.67	2.48	46,700	0.69	3.04	44,200	0.71	3.46	41,600	0.73	3.83	38,600	0.76	4.25
	80 / 67	46,400	0.73	2.50	42,900	0.75	3.05	40,000	0.77	3.46	38,300	0.80	3.83	35,500	0.83	4.25
	75 / 63	43,200	0.75	2.51	40,000	0.77	3.05	38,100	0.80	3.46	35,800	0.82	3.83	33,100	0.85	4.26
	75 / 57	40,300	0.99	2.51	37,800	1.00	3.05	36,000	1.00	3.45	34,200	1.00	3.83	32,000	1.00	4.26
GPA48072SX1	85 / 72	56,000	0.66	2.83	52,300	0.68	3.38	49,000	0.71	3.82	46,400	0.73	4.23	43,600	0.75	4.68
	80 / 67	51,600	0.72	2.84	48,300	0.75	3.37	45,500	0.77	3.80	42,700	0.79	4.21	40,100	0.82	4.66
	75 / 63	48,200	0.75	2.85	45,000	0.77	3.36	42,100	0.80	3.79	39,900	0.81	4.19	37,400	0.84	4.64
	75 / 57	44,600	1.00	2.85	42,000	1.00	3.36	39,600	1.00	3.78	37,700	1.00	4.19	35,700	1.00	4.64
GPA60072SX1	85 / 72	71,300	0.64	3.59	66,700	0.66	4.31	62,900	0.67	4.90	59,800	0.69	5.42	56,300	0.71	6.03
	80 / 67	66,100	0.70	3.60	61,800	0.72	4.31	57,000	0.73	4.89	55,300	0.75	5.41	52,000	0.77	6.01
	75 / 63	61,900	0.72	3.61	57,800	0.74	4.30	54,400	0.76	4.88	51,700	0.77	5.40	48,500	0.79	6.00
	75 / 57	57,200	0.97	3.61	53,500	1.00	4.30	50,600	1.00	4.87	48,300	1.00	5.38	45,600	1.00	5.98

NOTE: Values based on 0.50" w.c. external static pressure

COOLING PERFORMANCE - EXTENDED RATINGS

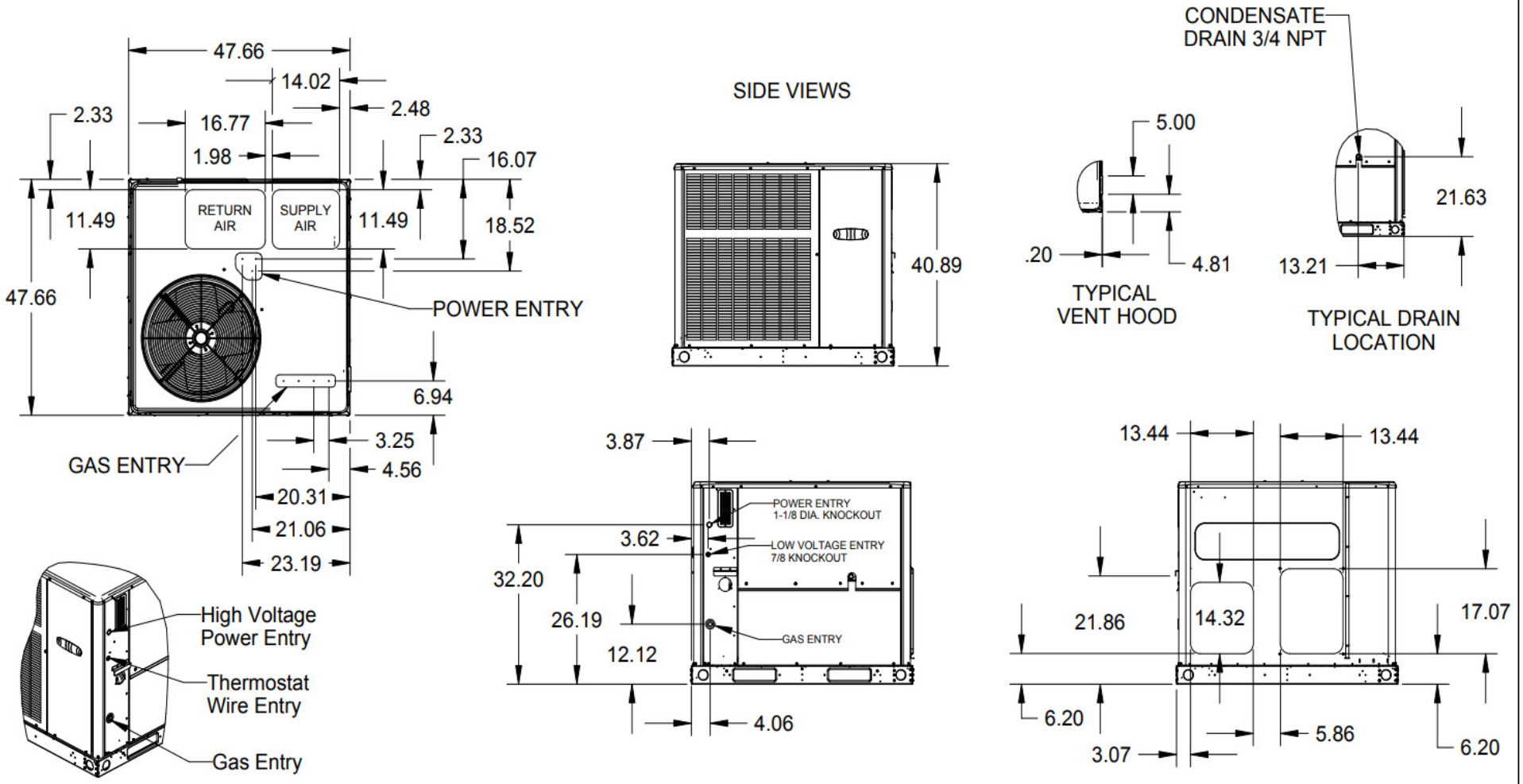
Outdoor Model	Indoor Temp DB/WB °F	Outdoor Temperature - DB °F														
		65°			82° / 67°			95° / 75°			105° / 85°			115° / 95°		
		Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW
GPA24054SX1	85 / 72	28,200	0.65	1.44	26,100	0.67	1.74	24,600	0.69	1.97	23,200	0.70	2.16	21,700	0.72	2.36
	80 / 67	26,000	0.70	1.45	24,100	0.72	1.75	22,600	0.75	1.97	21,300	0.76	2.15	20,000	0.79	2.34
	75 / 63	24,200	0.72	1.47	22,400	0.74	1.75	21,100	0.77	1.96	19,900	0.79	2.14	18,600	0.81	2.32
	75 / 57	22,300	0.96	1.47	20,700	0.99	1.74	19,700	1.00	1.95	18,700	1.00	2.12	17,600	1.00	2.30
GPA30054SX1	85 / 72	36,600	0.65	1.90	33,400	0.67	2.26	31,200	0.71	2.53	29,300	0.72	2.74	27,300	0.75	2.94
	80 / 67	33,700	0.71	1.84	30,700	0.73	2.20	28,400	0.77	2.48	27,000	0.79	2.69	25,100	0.82	2.90
	75 / 63	31,400	0.73	1.79	28,600	0.76	2.15	26,800	0.79	2.43	25,100	0.81	2.64	23,400	0.84	2.86
	75 / 57	28,900	0.99	1.73	26,700	1.00	2.11	25,200	1.00	2.39	23,900	1.00	2.61	22,500	1.00	2.83
GPA36054SX1	85 / 72	40,900	0.66	2.10	38,400	0.68	2.53	36,300	0.70	2.86	34,300	0.72	3.16	32,100	0.75	3.51
	80 / 67	37,700	0.72	2.11	35,400	0.74	2.53	33,500	0.77	2.84	31,600	0.79	3.14	29,500	0.81	3.49
	75 / 63	35,200	0.74	2.12	33,000	0.76	2.52	31,200	0.79	2.83	29,500	0.81	3.14	27,400	0.84	3.48
	75 / 57	32,500	1.00	2.13	30,800	1.00	2.52	29,400	1.00	2.83	27,900	1.00	3.13	26,300	1.00	3.48
GPA42072SX1	85 / 72	50,100	0.67	2.57	46,400	0.69	3.12	43,900	0.71	3.55	41,300	0.73	3.91	38,300	0.76	4.33
	80 / 67	46,100	0.73	2.58	42,700	0.75	3.13	40,000	0.77	3.55	38,100	0.80	3.91	35,200	0.83	4.33
	75 / 63	42,900	0.75	2.59	39,700	0.77	3.13	37,800	0.80	3.55	35,500	0.82	3.91	32,900	0.85	4.35
	75 / 57	40,000	0.99	2.60	37,500	1.00	3.13	35,700	1.00	3.53	33,900	1.00	3.92	31,800	1.00	4.34
GPA48072SX1	85 / 72	55,700	0.66	2.93	52,000	0.68	3.47	48,700	0.71	3.92	46,100	0.73	4.33	43,300	0.75	4.77
	80 / 67	51,300	0.72	2.93	47,900	0.74	3.46	44,500	0.77	3.90	42,400	0.79	4.30	39,800	0.82	4.75
	75 / 63	47,900	0.74	2.94	44,700	0.77	3.45	41,800	0.79	3.88	39,600	0.81	4.28	37,000	0.84	4.73
	75 / 57	44,300	1.00	2.94	41,700	1.00	3.45	39,300	1.00	3.87	37,400	1.00	4.28	35,400	1.00	4.73
GPA60072SX1	85 / 72	71,100	0.64	3.66	66,500	0.66	4.38	62,700	0.67	4.97	59,500	0.69	5.50	56,000	0.71	6.11
	80 / 67	65,900	0.70	3.68	61,600	0.72	4.38	57,000	0.73	4.96	55,000	0.75	5.48	51,800	0.77	6.08
	75 / 63	61,600	0.72	3.68	57,500	0.74	4.38	54,200	0.75	4.95	51,400	0.77	5.47	48,300	0.79	6.07
	75 / 57	56,900	0.97	3.68	53,300	1.00	4.37	50,300	1.00	4.94	48,100	1.00	5.46	45,400	1.00	6.05

NOTE: Values based on 0.58" w.c. external static pressure

ACCESSORY AIR RESISTANCE DATA - IN. W.G.

Air Volume cfm	Rectangular to Round Duct Adaptor Kits					
	Downflow		Horizontal			
	14 in. Diameter		14 in. Diameter		16 in. Diameter	18 in. Diameter
	24, 30, 36	42, 48, 60	24, 30, 36	42, 48, 60	42, 48, 60	42, 48, 60
500	0.03	---	0.04	---	---	---
600	0.05	---	0.07	---	---	---
700	0.08	0.13	0.08	0.13	---	---
800	0.10	0.17	0.12	0.16	---	---
900	0.12	0.21	0.15	0.21	---	---
1000	0.17	0.24	0.19	0.25	0.11	0.03
1100	0.18	0.30	0.23	0.30	0.11	0.03
1200	0.20	0.36	0.29	0.37	0.13	0.03
1300	0.26	0.43	0.31	0.43	0.17	0.03
1400	0.31	0.50	0.39	0.51	0.20	0.03
1500	---	0.57	---	0.57	0.21	0.05
1600	---	0.63	---	0.65	0.26	0.05
1700	---	0.71	---	0.72	0.30	0.06
1800	---	0.80	---	0.81	0.30	0.06
1900	---	0.91	---	0.90	0.40	0.06
2000	---	0.99	---	1.01	0.41	0.06

DIMENSIONS (IN.) - SMALL BASE GAS/ELECTRIC



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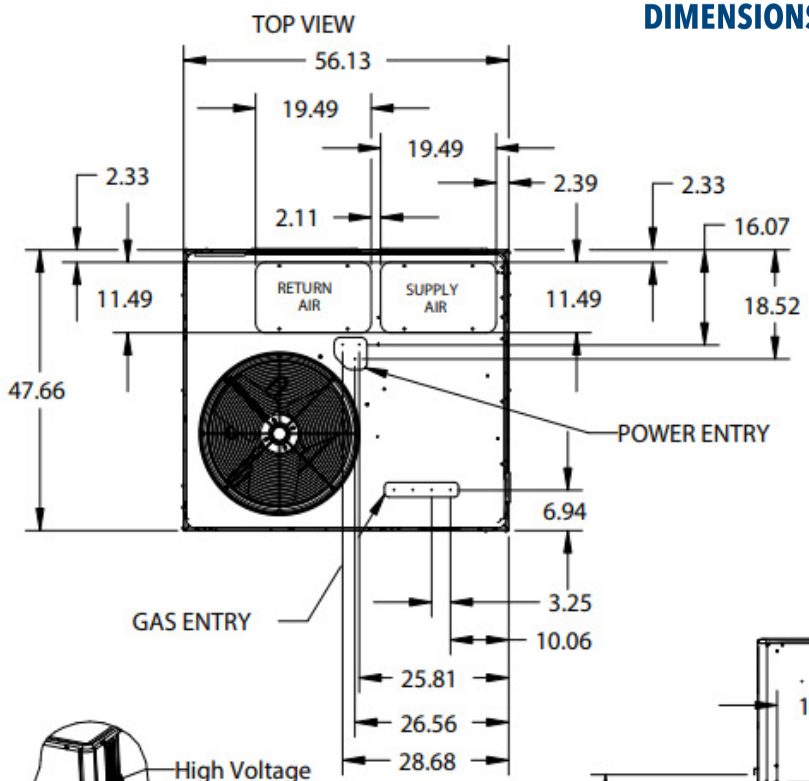
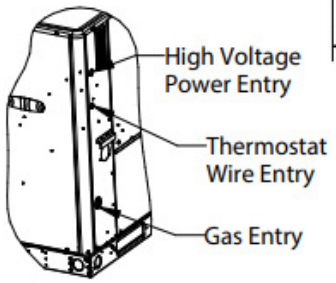
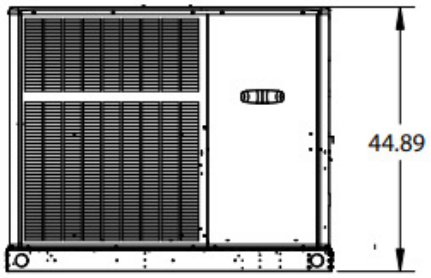
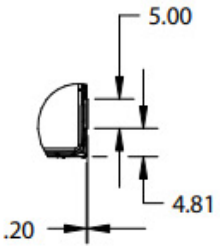
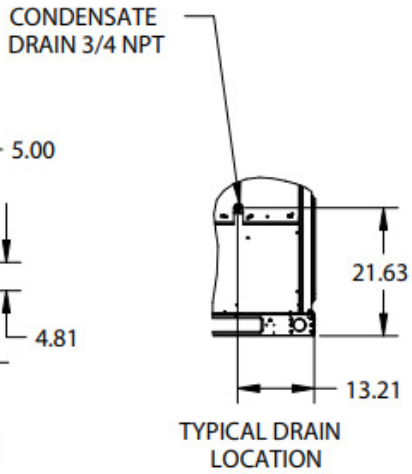
DIMENSIONS (IN.) - LARGE BASE GAS/ELECTRIC

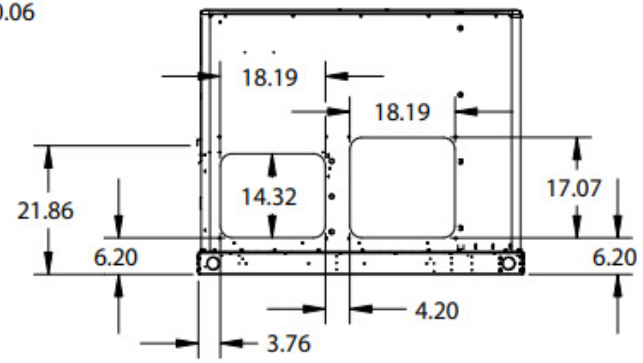


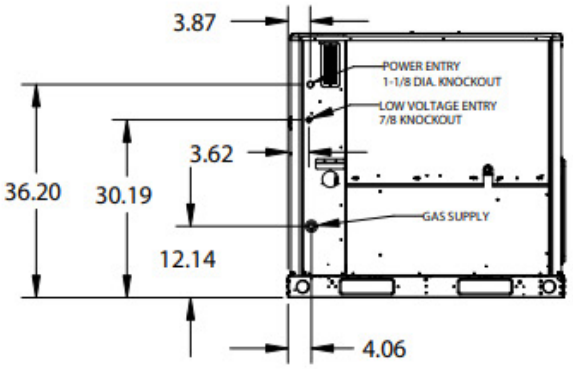






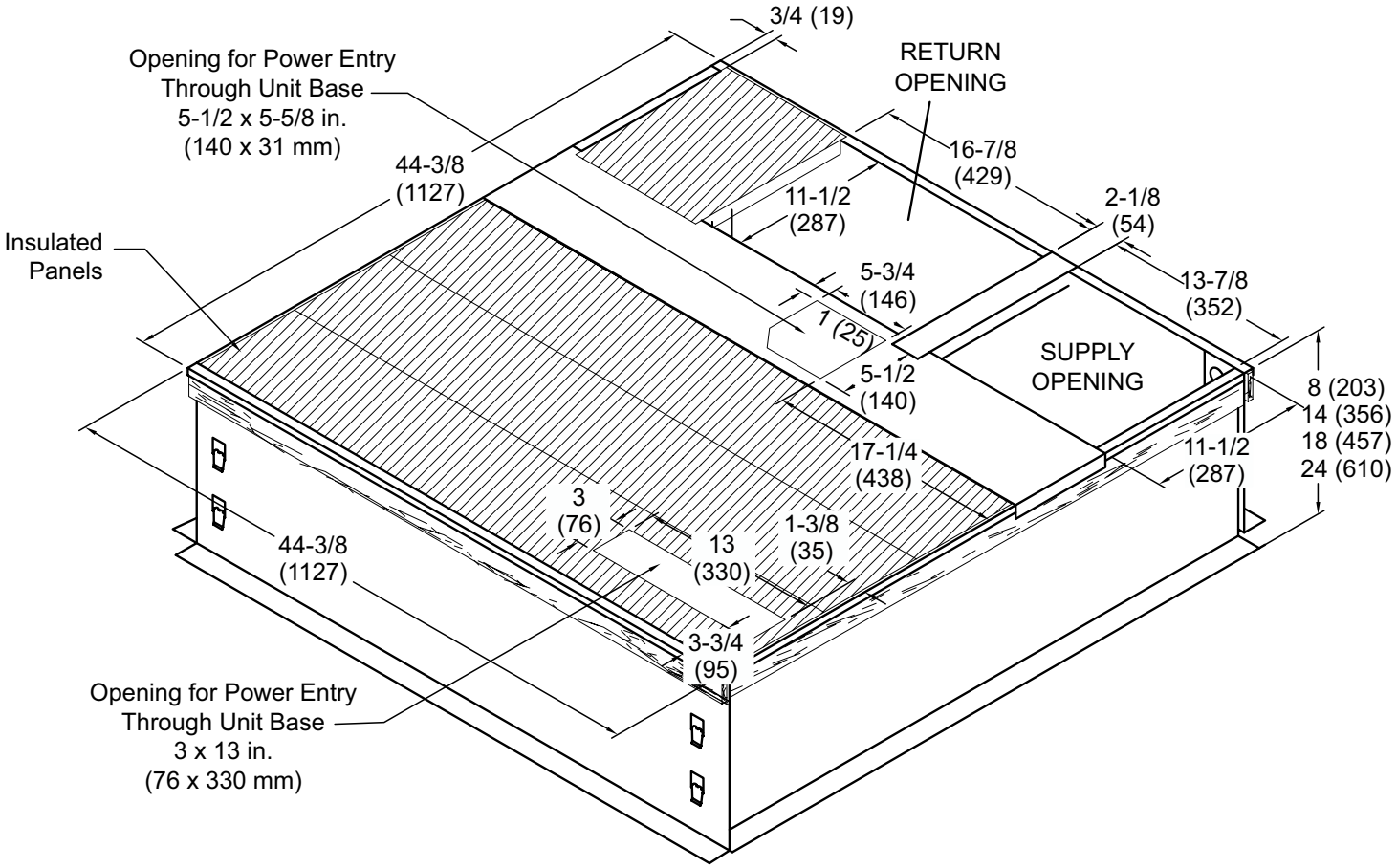






Comfort-Aire®

ROOF CURB DIMENSIONS (IN.) - SMALL BASE



NOTE - If bottom entry is used, condensate from the heat exchanger may leak during warm ambient temperatures in humid climates. Ensure that bottom entry is watertight, if used.

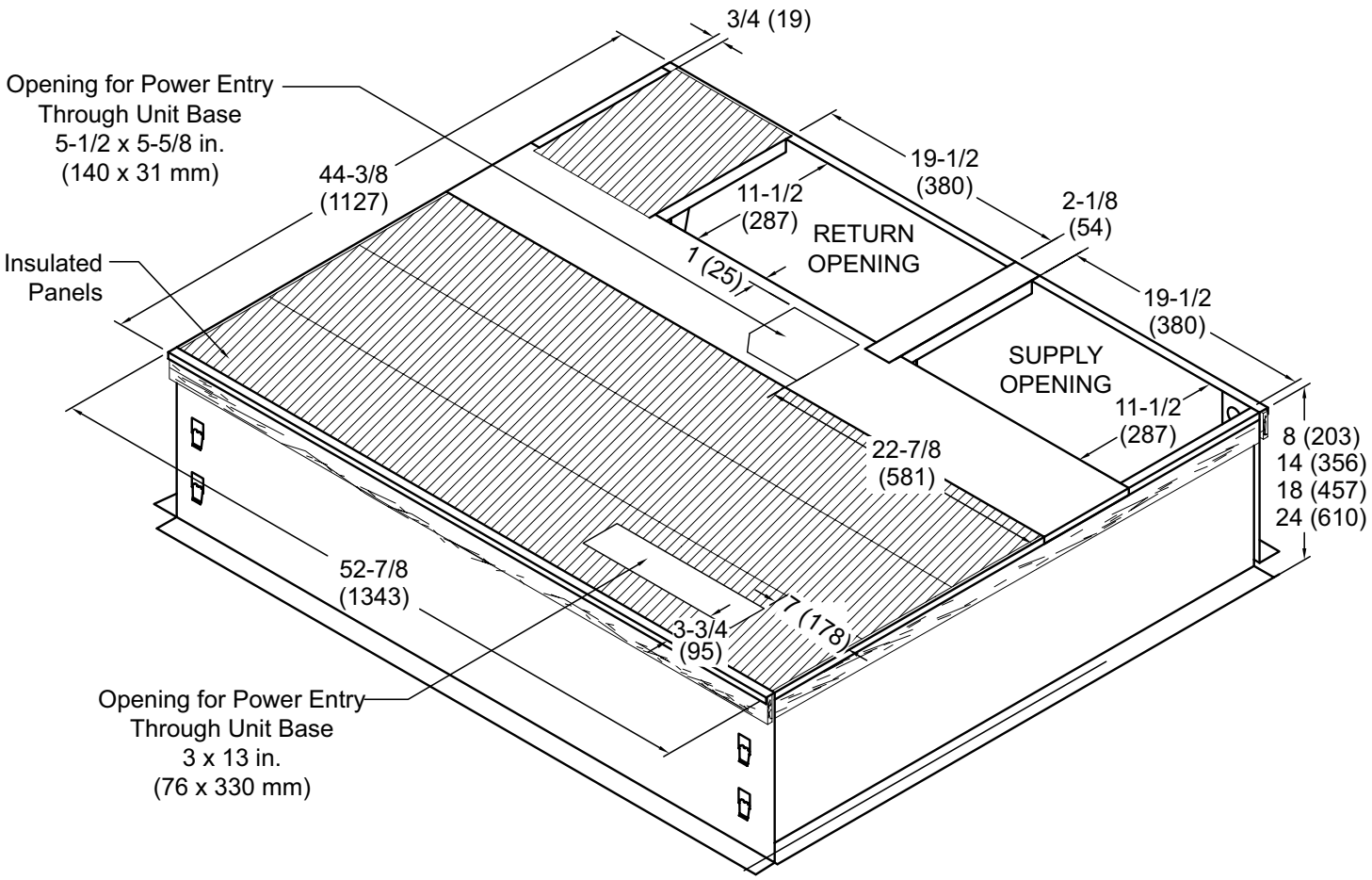
NOTE - Roof deck may be omitted within confines of curb

NOTE - All Curbs:

- IBC 2018 compliant
- CBC 2019 compliant
- Seismic rating - SDS 2.0g z/h=1 Ip=1.5
- Wind rating - 240 mph (Lateral), 214 mph (Uplift)
- Maximum load rating - 800 lbs.
- Tool-less fliter access panels NOT for seismic-rated applications

Comfort-Aire®

ROOF CURB DIMENSIONS (IN.) - LARGE BASE



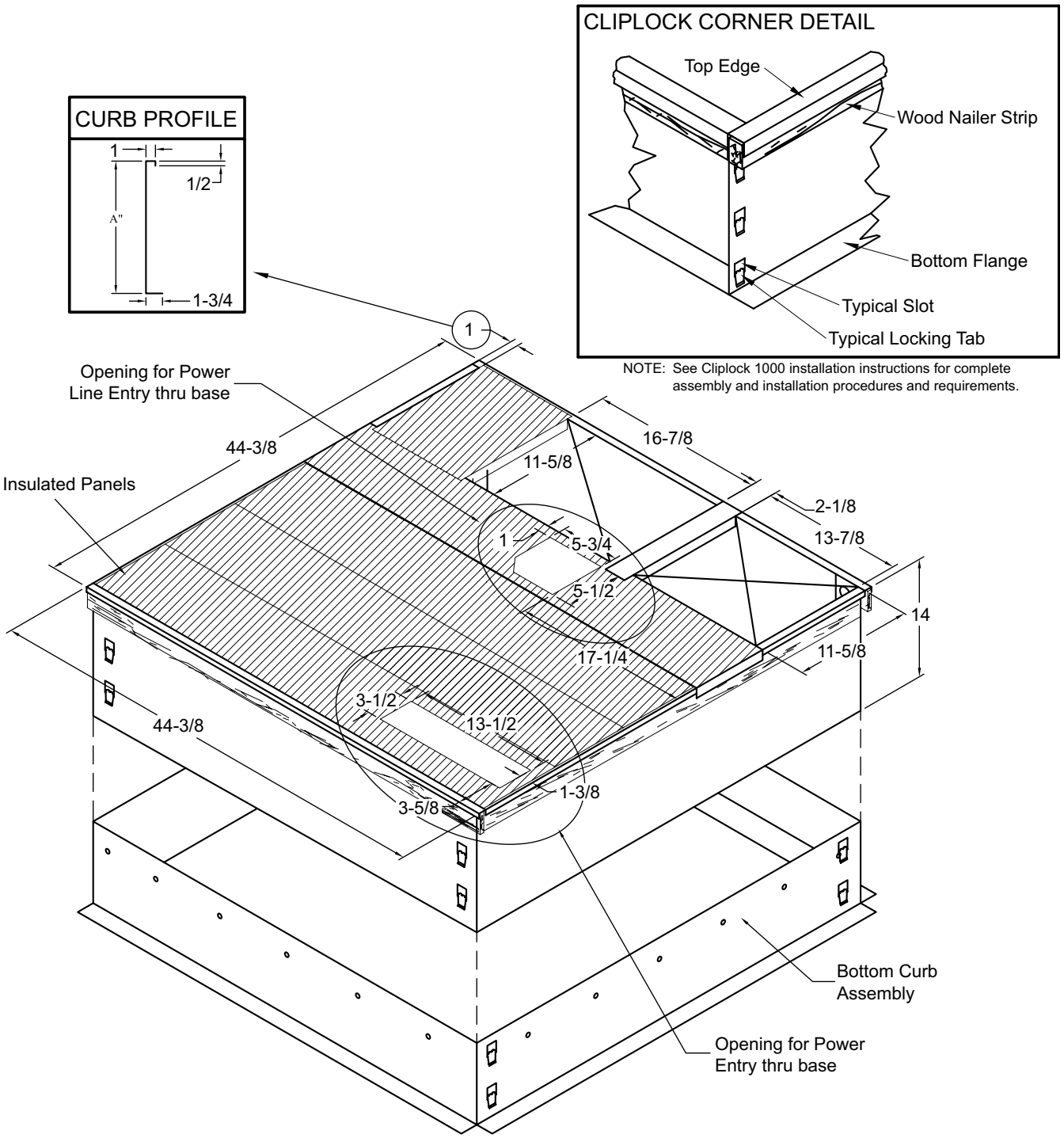
NOTE - If bottom entry is used, condensate from the heat exchanger may leak during warm ambient temperatures in humid climates. Ensure that bottom entry is watertight, if used.

NOTE - Roof deck may be omitted within confines of curb

NOTE - All Curbs:

- IBC 2018 compliant
- CBC 2019 compliant
- Seismic rating - SDS 2.0g z/h=1 Ip=1.5
- Wind rating - 240 mph (Lateral), 214 mph (Uplift)
- Maximum load rating - 800 lbs.
- Tool-less fliter access panels NOT for seismic-rated applications

ADJUSTABLE CURB (KNOCK-DOWN STYLE) DIMENSIONS - SMALL BASE



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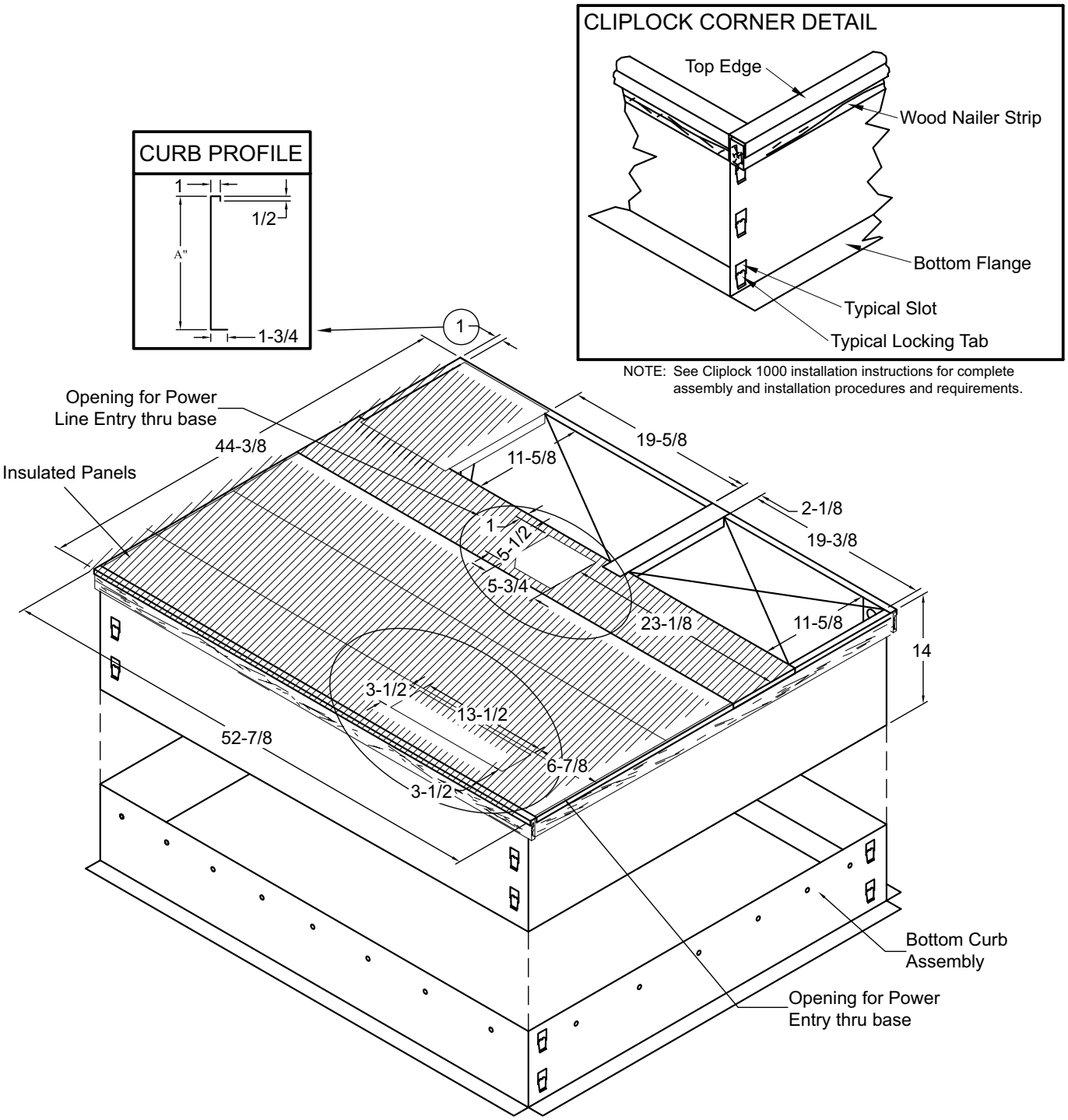
ADJUSTABLE CURB (KNOCK-DOWN STYLE) DIMENSIONS - LARGE BASE



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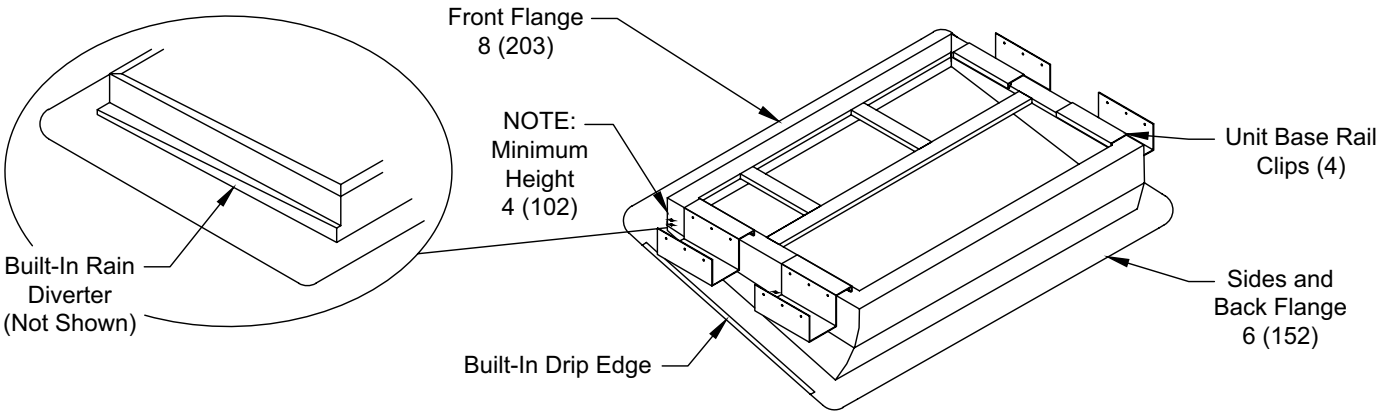
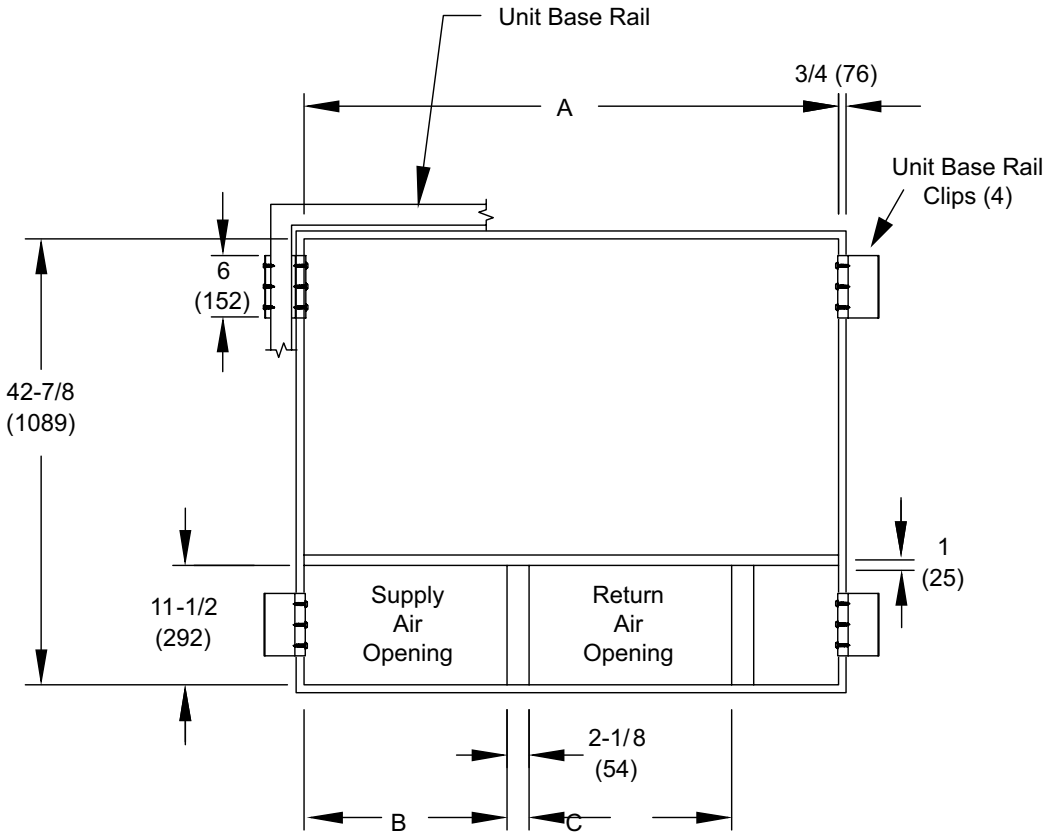
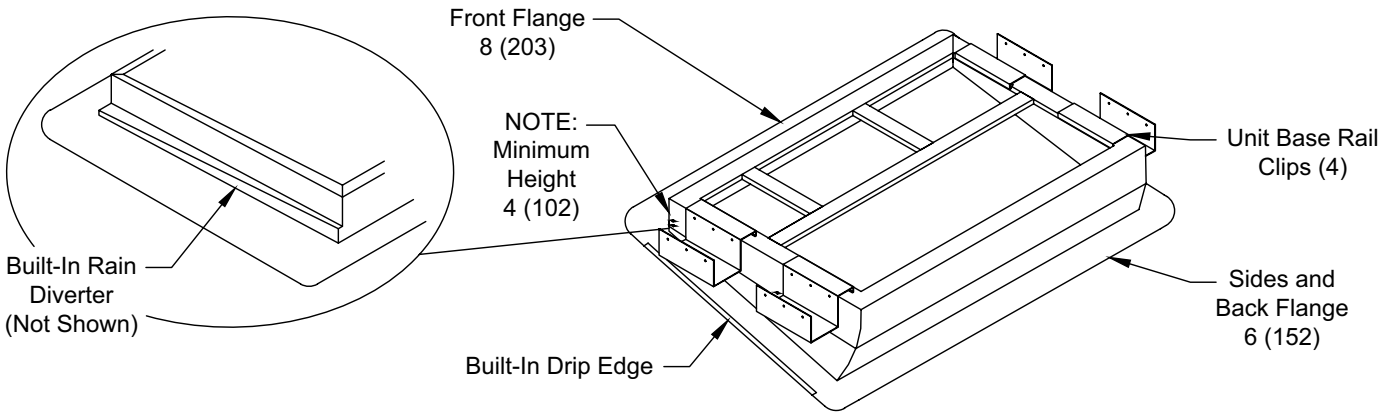
ADJUSTABLE CURB (WELDED STYLE) DIMENSIONS

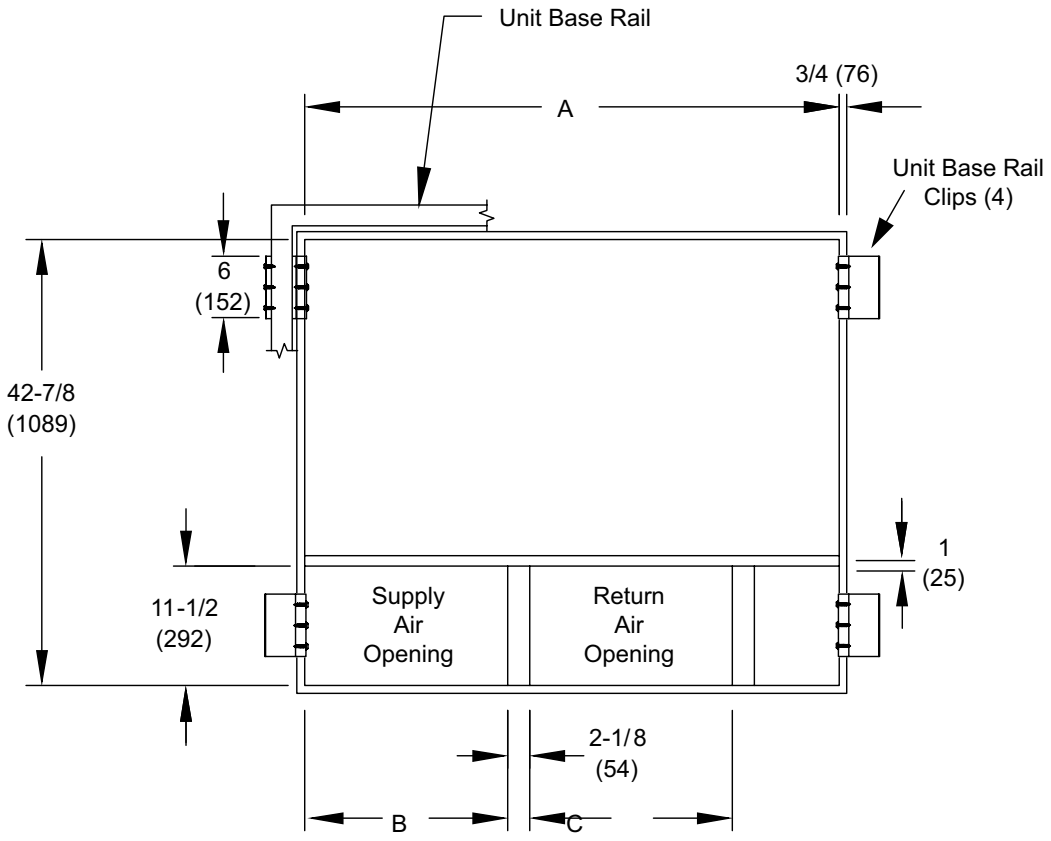




Usage	A		B		C	
	in.	mm.	in.	mm.	in.	mm.
24,30,36	42-7/8	1089	13-7/8	352	16-7/8	429
42,48,60	51-3/8	1305	19-1/2	495	19-1/2	495

ADJUSTABLE CURB (WELDED STYLE) DIMENSIONS





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42,48,60	51-3/8	1305	19-1/2	495	19-1/2	495

ACCESSORIES

Description		Where Used	Kit Number
Compressor Crankcase Heater		36, 42	27U17
		48, 60	27P79
Compressor Hard Start Kit		24, 30, 36	10J42
		42, 48, 60	88M91
Compressor Timed-Off Control		All	47J28
Low Ambient Kit		All	21D20
Internal Filter Rack Kit		24, 30, 36	11U73
		42, 48, 60	11U74
LPG/Propane Conversion Kit (Ser#1621B16144 or Lower)		All Models Before Serial Number 1621B16144	21V12 and 22B87
LPG/Propane Conversion Kit (Ser#1621B16145 or Higher)		All Models After Serial Number 1621B16145	22B87
8" Height Full Perimeter Curb		24, 30, 36	21J13
		42, 48, 60	21J17
14" Height Full Perimeter Curb		24, 30, 36	21J14
		42, 48, 60	21J19
18" Height Full Perimeter Curb		24, 30, 36	21J15
		42, 48, 60	21J20
24" Height Full Perimeter Curb		24, 30, 36	21J16
		42, 48, 60	21J25
Adjustable Pitch Roof Curb (Knock-Down Style)		24, 30, 36	21J26
		42, 48, 60	21U04
Adjustable Pitch Roof Curb (Welded Style)		24, 30, 36	22V54
		42, 48, 60	22V55
Strapping Kit - Hurricane		Slab	21J74
		Rail	22G53
Strapping Kit - Seismic		All	21J75
Duct Adapter Kit - Horizontal	14 in. dia.	All	21J75
	14 in. dia.	42, 48, 60	21D24
	16 in. dia.	42, 48, 60	22U78
	18 in. dia.	42, 48, 60	22U79
Duct Adapter Kit - Downflow	14 in. dia.	24, 30, 36	20X82
	14 in. dia.	42, 48, 60	21D26
Bottom Power Entry Kit		All	21J78
Bottom Gas Entry Kit		All	21D34
Base Rail Openings - Closure Kit		All	21J84

"This product complies with all California product labeling laws including, but not limited to, the Safe Drinking Water and Toxic Enforcement Act of 1986, more commonly known as Proposition 65."

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations.

Third party incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.

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HEAT CONTROLLER
Confidence in any climate
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