



48/50HJ,62AQ-3SB

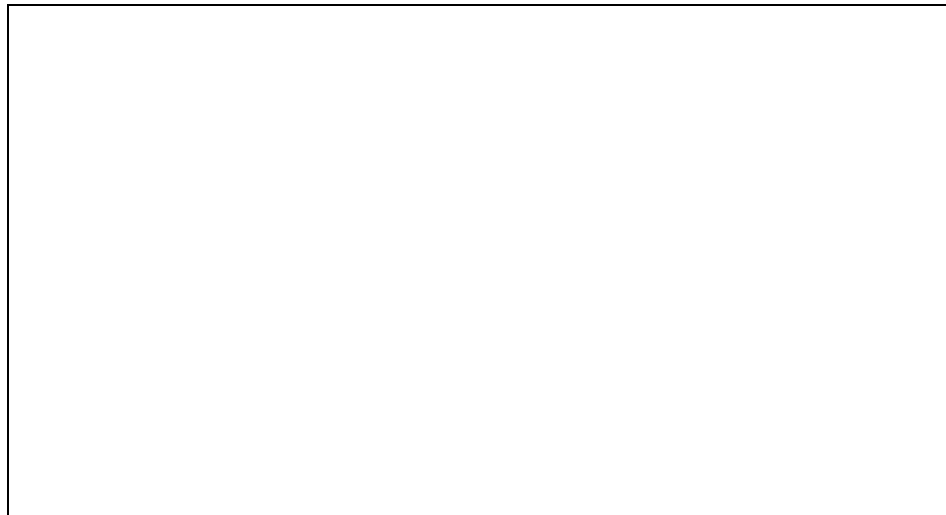
48/50HJ004-007 and 62AQ060,100--GA

48/50HJ008-014 and 62AQ200,300--GA

**COBRA™ COMBINATION GAS HEATING/
ELECTRIC COOLING UNITS WITH FACTORY-INSTALLED
62AQ ENERGY\$RECYCLER™ UNIT**

**COBRA COMBINATION ELECTRIC COOLING UNITS WITH
FACTORY-INSTALLED 62AQ ENERGY\$RECYCLER UNIT
AND FIELD-INSTALLED ELECTRIC HEAT**

- PERFORMANCE DATA**
- CERTIFIED DIMENSION PRINTS**
- CERTIFIED ROOF CURB
DIMENSION PRINTS**
- ACCESSORY DIMENSION PRINTS**



Date:	Supersedes:	48/50HJ004-007 and 62AQ060,100--GA 48/50HJ008-014 and 62AQ200,300--GA COMBINATION UNITS	48HJ,62AQ AND 50HJ,62AQ	Rev: -3SB
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O. #	CARRIER #	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	

DESCRIPTION



COBRA™ 48HJ and 62AQ units or 50HJ and 62AQ units offer combination heating, cooling and energy recovery capabilities. 48HJ section units are one-piece, gas heating/electric cooling units, that are prewired and charged with R-22 refrigerant at the factory. 50HJ section units are one-piece, electric cooling units, that are prewired and charged with R-22 refrigerant at the factory. 62AQ Energy\$Recycler™ energy recovery unit uses conventional heat pump technology to recycle energy from the return air from the conditioned space and pre-treats the outdoor air entering the rooftop unit. The rooftop section is equipped with an integral non-fused disconnect (80 A maximum) to satisfy the electrical requirements of BOTH the rooftop and the 62AQ sections. All connecting condensate piping, control and power wiring, and mechanical fastening is factory installed, tested, and qualified. The entire assembly is capable of being installed on a standard 48/50HJ004-014 roof curb accessory. The units are factory tested in Cooling mode. The units are designed in accordance with UL Standard 1995, and listed by the Underwriters' Laboratories.

ROOFTOP UNIT SECTION STANDARD FEATURES

Standard one-year full product warranty.
 Five-year protection plan for the motor-compressor.
 SEER up to 13.0 EER up to 11.8.
 Available Extended Warranties

- Labor warranty (requires authorized start-up)
- Up to 5-year additional heat exchanger warranty (48 Series Only)

Low outdoor temperature cooling operation to 25 F (-4 C) as standard.
 Units are certified by UL and UL, Canada. Factory-run test printout included in each rooftop.
 24-volt control circuit, with resettable circuit breaker.
 Exclusive Cycle-LOC™ compressor anti-cycle protection.
 Two-inch disposable-type return air filters in dedicated rack.
 Independent circuit with internal line break and overload protection, self-lubricating with internal discharge muffler.
 Refrigerant circuit contains a filter drier to trap dirt and moisture.
 Scroll compression standard on rooftop unit.
 Adjustable motor pulley belt drive evaporator fan standard on all size units, with permanently lubricated high-static motors.
 Noncorrosive composite condensate pan with self-draining sloping design and both bottom and side drain connections in accordance with ASHRAE standards.
 Loss-of-charge, freeze protection, and high-pressure safety switches.
 Standard thru-the-bottom power entry capability on rooftop unit.
 Indoor and outdoor coils constructed of lanced aluminum fins mechanically bonded to internally grooved seamless copper tubes.
 Available corrosion resistant coils.
 Full perimeter heavy gage base rail with built-in rigging adapters and fork truck slots (48/50HJ and 62AQ).

Single-point electrical connections (48/50HJ and 62AQ).
 Factory-supplied integral non-fused disconnect (80 amp maximum).
 Direct-drive propeller condenser-fan motor totally enclosed with permanently lubricated bearings.
 Prepainted cabinet with primer inner panels, certified at 500-hr salt spray test and noncorrosive screws.
 Large, easily removable panels provide ready access to unit components for rapid removal or maintenance.
 Filter access door for filter access and maintenance that requires no tools.
 Fixed orifice metering device precisely controls flow to each circuit individually.
 Reliable accurate control circuit with color coded wires and easy accessible terminal board.

48 Series Units Only

Induced draft combustion system with Hall effect sensor to detect proper operation of induced draft motor.
 Heavy Alumagard™ coated heat exchangers, with aluminized steel burners and 2-stage gas valves.
 Heating controls with solid-state direct spark ignition system, and two-stage redundant gas valve. Fan switch, overtemperature switch and flame rollout switch also included.
 Integrated gas control board with built-in diagnostics to determine error codes and control indoor fan ON/OFF delays.
 Integrated gas control board provides anti-cycle protection for gas heat operation.
 Dedicated 3 to 5 ton Low NO_x units meet California Air Quality NO_x requirement of 40 nanograms/joule or less.
 Dedicated 3 to 5 ton, 3-phase non-NO_x single-stage units.

62AQ ENERGY\$RECYCLER SECTION STANDARD FEATURES

Factory wired with rooftop unit for single point electrical connection.
 Supply fan is standard (GA designation on model number).
 Centrifugal, direct-drive, supply and exhaust fans.
 62AQ section includes integral economizer for up to 100% outdoor air capacity, eliminating the need for a rooftop unit-mounted economizer.
 Factory-supplied condensate piping for both 48/50HJ section and 62AQ section to a single condensate drain.
 Combination 48HJ and 62AQ or 50HJ and 62AQ units fit on standard accessory roof curb.
 Field-assembly of 62AQ unit to rooftop unit is eliminated.
 Conventional heat pump technology is used to pre-treat incoming outdoor air.

62AQ Energy\$Recycler unit requires minimal maintenance compared to a heat/enthalpy wheel design.
 No cross-contamination of supply air when poor quality return air is present (in areas with poor air quality).
 Controlled by a Thermidistat™ device (combination thermostat and humidity sensor) or thermostat and separate humidistat.
 Two-in. filters with easy access.
 Fixed orifice metering device combined with modulating type TXV refrigeration controls
 Suction line accumulator.
 Integral fuses.

PERFORMANCE DATA

COOLING

Net Total Cap. _____ Btuh
Net Sensible Cap. _____ Btuh
Compressor Power Input _____ kW
_____ F Outdoor Air Temperature
Indoor Entering Air db _____ F wb _____ F
Cfm _____ Ext. Static Pressure _____ in. wg
Fan Rpm _____ Bhp _____

HEATING

Input
Stage 1 _____ Total _____ Btuh
Output:
Stage 1 _____ Total _____ Btuh
AFUE _____ %
Steady State _____ %
Operating Weight _____ lb (unit) _____ lb (curb)

FAN PERFORMANCE

Return ESP _____ in. wg Return CFM _____ Supply CFM _____

ELECTRICAL DATA

Power Supply to Unit _____ Volts _____ Phase _____ Hz
Minimum Circuit Amps _____ Maximum Overcurrent Protection (Fuse only) _____

OPTIONS AND ACCESSORIES

FACTORY-INSTALLED OPTIONS — 48/50HJ

- High-Static Indoor Fan Motor/Drive
- Copper/Copper Coils — Indoor, Outdoor, Both
- Non-Fused Disconnect Switch (80 amp max)
- 115-Volt Convenience Outlet (load side)
- PremierLink™ Controls
- Hinged Access Panels for Indoor Fan, Compressor, Control Box, and Filter
- HumidiMiSer™ Dehumidification Device
- E-Coated Outdoor Coils/Aluminum or Copper Fins
- E-Coated Indoor Coils/Aluminum Fins/Copper Tubes
- Pre-Coated Outdoor Coils
- NOVAR Controls (3051)
- Stainless Steel Heat Exchanger Tubes

FACTORY-INSTALLED OPTIONS — 62AQ ENERGY\$RECYCLER™ UNIT

- E-Coat Coil

FIELD-INSTALLED ACCESSORIES — 48/50HJ

- Solid-State Enthalpy Control (Unoccupied Mode Only)
- Differential Enthalpy Control (Unoccupied Mode Only)
- Differential Dry Bulb Control (Unoccupied Mode Only)
- Standard Unit Roof Curb (14 or 24-in. Height)
- Full Perimeter HJ/AQ Roof Curb (14 or 24-in. Height)
- Thru-the-Bottom Electrical Connection Kit
- Thermidistat™ Device
- Humidistat
- Condenser Coil Hail Guard
- Condenser Coil Protector
- Condenser Coil Salt Spray Protector
- 20 F Motormaster® Low Ambient Control Kit
- Liquid Propane (LP) Gas Kit (48 Series Units Only)
- Flue Hood Protector Kit (48 Series Units Only)
- Flue Discharge Deflector (48 Series Units Only)
- Indoor Fan/Filter Status Indicator
- CO₂ Sensor
- Electric Heat (50 Series Units Only)
- Other _____

FIELD-INSTALLED ACCESSORIES — 62AQ ENERGY\$RECYCLER UNIT

- Sleeper Rails (8 to 14-in. or 14 to 24-in. Height)

BLANKET QUOTE CONTROLS

- 115-V Field Powered GFI Convenience Outlet (line side)
- 115-V GFI Convenience Outlet (field powered)
- Fused Disconnect
- Hinged Access Panels
- Lockout of High Fire Stage for Heating
- Louvered Hail Guard
- Low Ambient Controller (Motormaster® I)
- Smoke Detector — Return Air
- Smoke Detector — Return and Supply Air
- Split Power (transfer switch NOT included)
- UV-C Lamps (installed and powered with door interlock switch and disconnect switch)
- COBRA™ Sloped Full Perimeter Curb

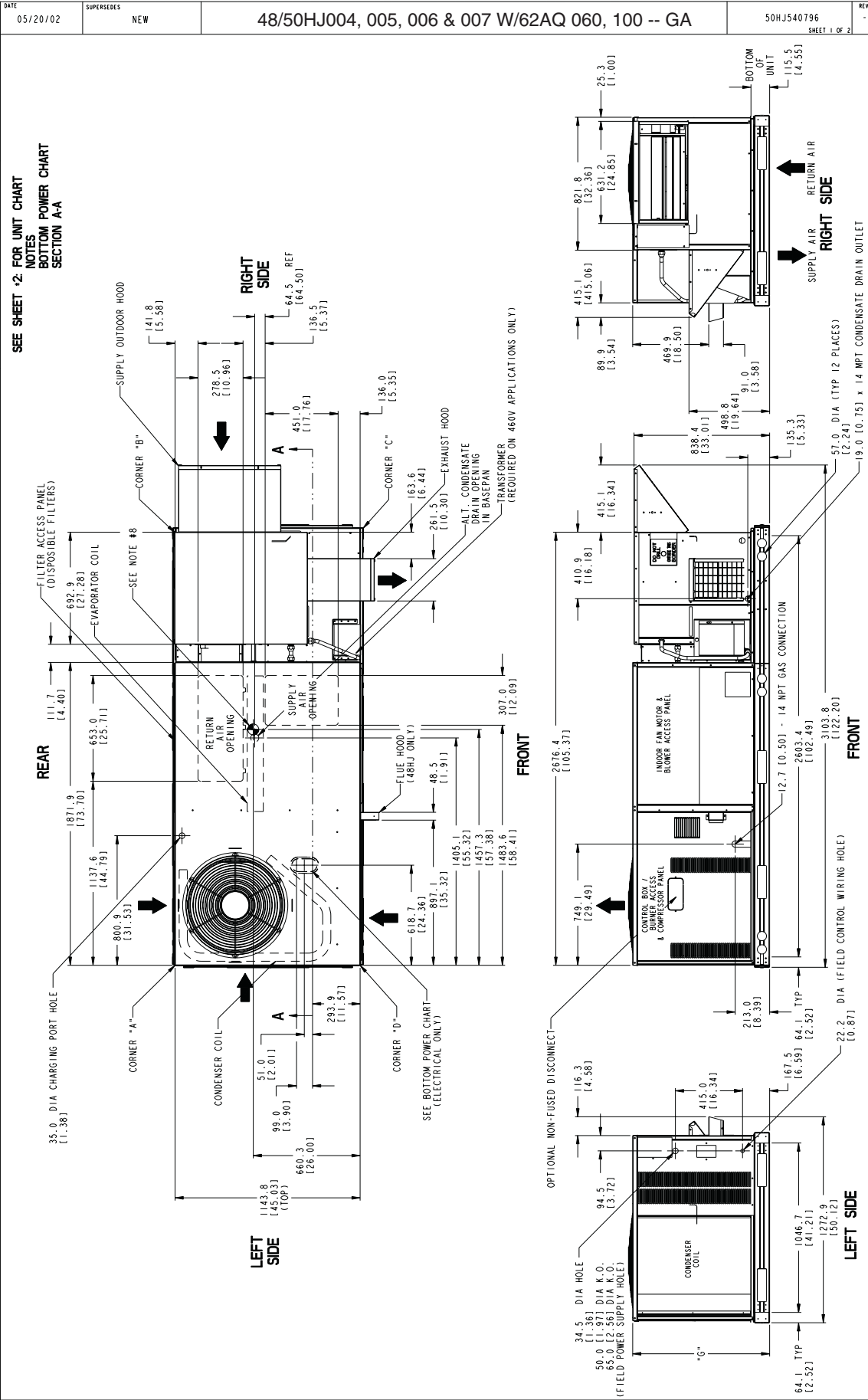
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UNIT	ELECTRICAL CHARACTERISTICS	SINGLE ZONE ELECTRIC COOLING WITH GAS HEAT											
		UNIT WEIGHT		CORNER WEIGHT "A"		CORNER WEIGHT "B"		CORNER WEIGHT "C"		CORNER WEIGHT "D"		UNIT HEIGHT "G"	
		LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	IN	MM
48HJ004 W/62AQ060	208/230-1-60, 208/230-3-60, 460-3-60	890	404	234	106	280	127	205	93	171	78	33.33	846.5
48HJ004 W/62AQ100	208/230-1-60, 208/230-3-60, 460-3-60	905	411	238	108	284	129	208	94	174	79	33.33	846.5
48HJ005 W/62AQ060	208/230-1-60, 208/230-3-60, 460-3-60	900	409	237	107	283	128	207	94	173	79	33.33	846.5
48HJ005 W/62AQ100	208/230-1-60, 208/230-3-60, 460-3-60	915	415	241	109	288	130	211	96	176	80	33.33	846.5
48HJ006 W/62AQ060	208/230-1-60, 208/230-3-60, 460-3-60	920	418	242	110	289	131	212	96	177	80	33.33	846.5
48HJ006 W/62AQ100	208/230-1-60, 208/230-3-60, 460-3-60	935	425	246	112	294	133	215	98	180	82	33.33	846.5
48HJ007 W/62AQ060	208/230-3-60, 460-3-60	995	452	262	119	313	142	229	104	192	87	41.24	1047.4
48HJ007 W/62AQ100	208/230-3-60, 460-3-60	1010	459	266	120	317	144	232	105	194	88	41.24	1047.4

SINGLE ZONE ELECTRIC COOLING

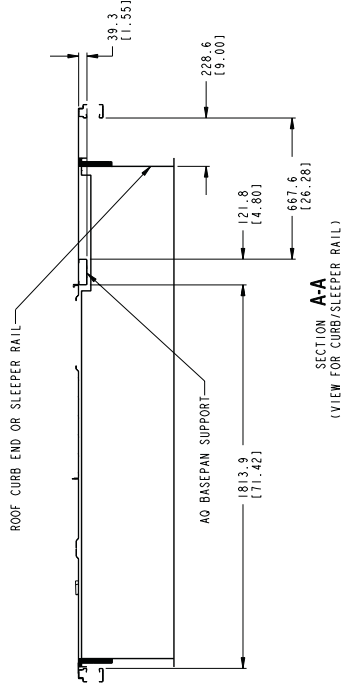
UNIT	ELECTRICAL CHARACTERISTICS	SINGLE ZONE ELECTRIC COOLING											
		UNIT WEIGHT		CORNER WEIGHT "A"		CORNER WEIGHT "B"		CORNER WEIGHT "C"		CORNER WEIGHT "D"		UNIT HEIGHT "G"	
		LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	IN	MM
50HJ004 W/62AQ060	208/230-1-60, 208/230-3-60, 460-3-60	795	361	209	95	250	113	163	83	153	69	33.33	846.5
50HJ004 W/62AQ100	208/230-1-60, 208/230-3-60, 460-3-60	810	368	213	97	255	115	166	85	156	71	33.33	846.5
50HJ005 W/62AQ060	208/230-1-60, 208/230-3-60, 460-3-60	805	365	212	96	253	115	165	84	155	70	33.33	846.5
50HJ005 W/62AQ100	208/230-1-60, 208/230-3-60, 460-3-60	820	372	216	98	258	117	169	86	158	72	33.33	846.5
50HJ006 W/62AQ060	208/230-1-60, 208/230-3-60, 460-3-60	825	375	217	98	259	118	170	86	159	72	33.33	846.5
50HJ006 W/62AQ100	208/230-1-60, 208/230-3-60, 460-3-60	840	381	221	100	264	120	193	88	162	73	33.33	846.5
50HJ007 W/62AQ060	208/230-3-60, 460-3-60	880	400	231	105	277	125	203	92	169	77	41.24	1047.4
50HJ007 W/62AQ100	208/230-3-60, 460-3-60	895	407	235	107	281	128	206	93	172	78	41.24	1047.4

- NOTES:
- DIMENSIONS IN () ARE IN INCHES.
 - ⊕ CENTER OF GRAVITY.
 - ➔ DIRECTION OF AIR FLOW.
 - DUCTWORK TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY.
 - H.J. MINIMUM CLEARANCE (LOCAL CODES OR JURISDICTION MAY PREVAIL):
 - 18 INCHES WHEN USING ACCESSORY FLOOR DISCHARGE, 48 INCHES.
 - DEFLECTOR.
 - CURB: 1 INCH.
 - BOTTOM OF BASE RAIL TO COMBUSTIBLE SURFACES (WHEN NOT COMBUSTIBLE): 0 INCHES.
 - CONDENSER COIL FOR PROPER AIR FLOW: 36 INCHES ONE SIDE, 12 INCHES THE OTHER, THE SIDE GETTING THE GREATER CLEARANCE IS OPTIONAL.
 - OVERHEAD: 60 INCHES TO ASSURE PROPER CONDENSER FAN OPERATION.
 - BETWEEN UNIT AND UNGROUND SURFACES: CONTROL BOX SIDE: 42 IN. PER NEC. BETWEEN UNIT AND UNGROUND SURFACES: CONTROL BOX SIDE: 36 IN. PER NEC.
 - BETWEEN UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUND SURFACES, CONTROL BOX SIDE: 42 IN. PER NEC.
 - HORIZONTAL SUPPLY AND RETURN END: 0 INCHES WHEN THE ALTERNATE CONDENSATE DRAIN IS USED.
 - BETWEEN UNIT (CONTROL/EXHAUST SIDE) AND UNGROUND SURFACES: 36 INCHES AND BLOCK OR CONCRETE WALLS AND OTHER GROUND SURFACES.
 - FILTER ACCESS SIDE: 30 INCHES. SUPPLY AIR INTAKE: 36 INCHES. UNIT TOP: 18 INCHES. EXHAUST AIR SIDE: 36 INCHES.
 - WITH THE EXCEPTION OF THE CLEARANCE FOR THE CONDENSER COIL AND COMBUSTION SIDE AS STATED IN NOTE #5a, b and c, A REMOVABLE FENCE OR BARRICADE REQUIRES NO CLEARANCE.
 - UNITS MAY BE INSTALLED ON COMBUSTIBLE FLOORS MADE OF CONCRETE, BRICK, GASS A, B, OR C ROOF COVERING MATERIAL IF SET ON BASE RAIL.
 - THE VERTICAL CENTER OF GRAVITY IS 1'-6" (457) UP FROM THE BOTTOM OF THE BASE RAIL.

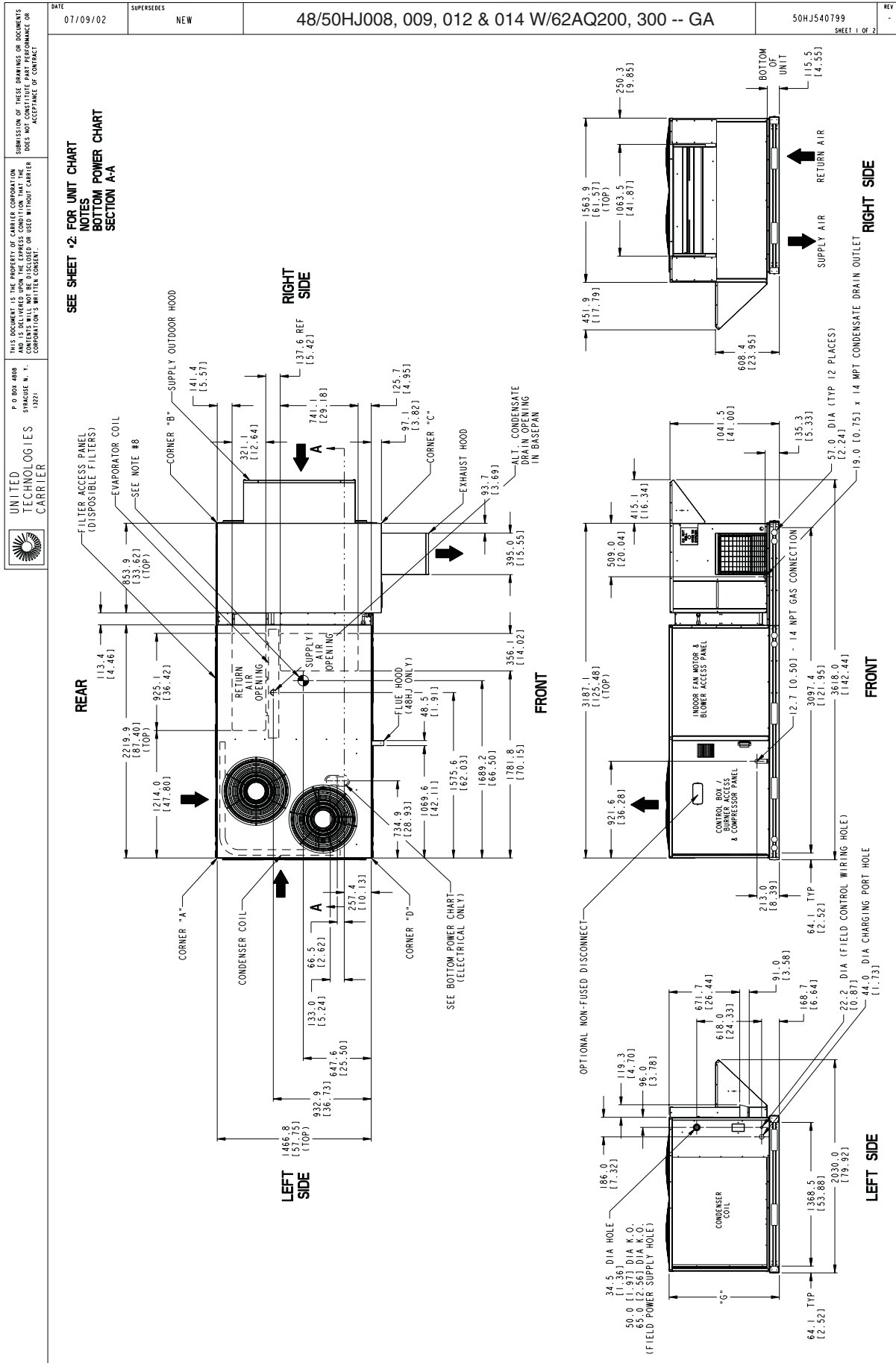
BOTTOM POWER CHART:
THESE HOLES REQUIRED FOR USE WITH ACCESSORY PACKAGES -
CRBTMPWR001A00, 3A00 (12.7 (0.50), 19.0 (0.75)
OR
CRBTMPWR002A00, 4A00 (12.7 (0.50), 31.8 (1.25))

THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZE (MAX.)
12.7 (0.50)	24V	22.2 (0.88)
19.0 (0.75)	POWER	28.4 (1.12)
31.7 (1.25)	POWER	44.4 (1.75)
(003) 12.7 (0.50) FPT	GAS	31.8 (1.25)
(004) 19.0 (0.75) FPT	GAS	41.3 (1.62)

* - SELECT EITHER 18.0 (0.75) OR 31.8 (1.25) FOR POWER, DEPENDING ON WIRE SIZE.



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DATE	07/09/02
SUPERSEDES	NEW
48/50HJ008, 009, 012 & 014 W/62AQ200, 300 -- GA	
REV	50HJ540799 SHEET 2 OF 2

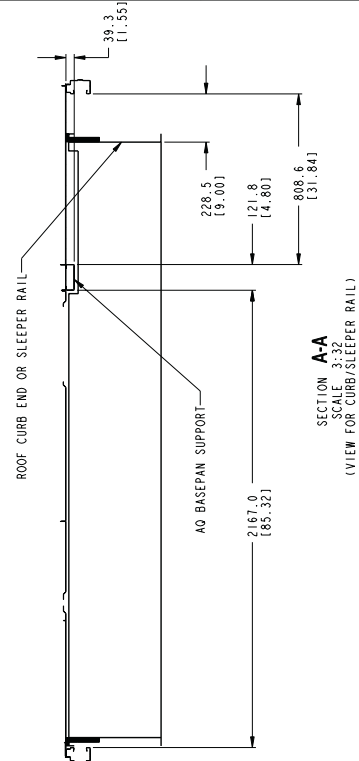
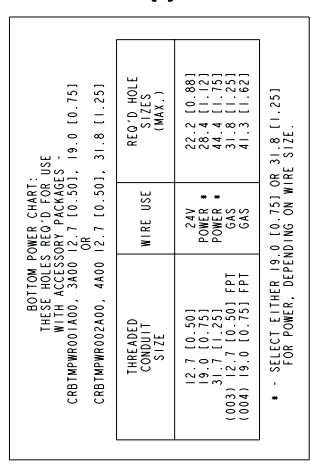
SINGLE ZONE ELECTRIC COOLING WITH GAS HEAT

UNIT	ELECTRICAL CHARACTERISTICS	UNIT WEIGHT		CORNER WEIGHT "A"		CORNER WEIGHT "B"		CORNER WEIGHT "C"		CORNER WEIGHT "D"		UNIT HEIGHT "G"	
		LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	IN	MM
48HJ008 W/62AQ200	208/230-3-60, 460-3-60	1310	595	272	123	307	139	388	176	344	156	42.12	1070
48HJ008 W/62AQ300	208/230-3-60, 460-3-60	1355	616	281	128	317	144	401	182	356	161	42.12	1070
48HJ009 W/62AQ200	208/230-3-60, 460-3-60	1315	597	273	124	308	140	389	177	345	157	42.12	1070
48HJ009 W/62AQ300	208/230-3-60, 460-3-60	1360	618	282	128	318	144	403	183	357	162	42.12	1070
48HJ012 W/62AQ200	208/230-3-60, 460-3-60	1400	636	291	132	328	149	414	188	367	167	50.12	1273
48HJ012 W/62AQ300	208/230-3-60, 460-3-60	1445	657	300	136	338	153	428	194	379	172	50.12	1273
48HJ014 W/62AQ200	208/230-3-60, 460-3-60	1440	655	299	136	337	153	426	193	378	171	50.12	1273
48HJ014 W/62AQ300	208/230-3-60, 460-3-60	1485	675	308	140	347	158	440	199	390	177	50.12	1273

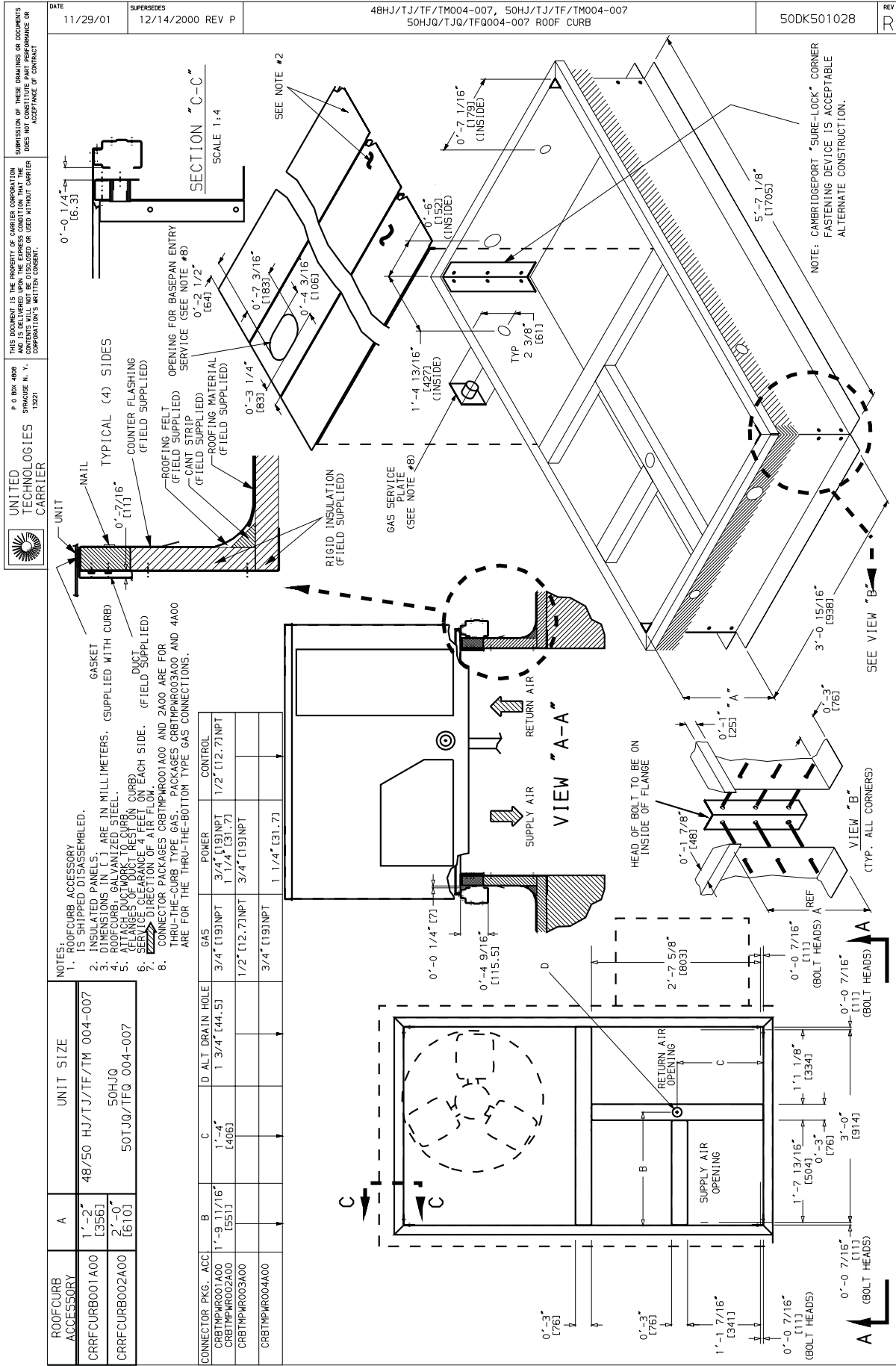
SINGLE ZONE ELECTRIC COOLING

UNIT	ELECTRICAL CHARACTERISTICS	UNIT WEIGHT		CORNER WEIGHT "A"		CORNER WEIGHT "B"		CORNER WEIGHT "C"		CORNER WEIGHT "D"		UNIT HEIGHT "G"	
		LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	IN	MM
50HJ008 W/62AQ200	208/230-3-60, 460-3-60	1240	564	257	117	290	132	367	166	325	148	42.12	1070
50HJ008 W/62AQ300	208/230-3-60, 460-3-60	1285	584	267	121	301	136	380	173	337	153	42.12	1070
50HJ009 W/62AQ200	208/230-3-60, 460-3-60	1245	566	258	117	291	132	369	167	327	148	42.12	1070
50HJ009 W/62AQ300	208/230-3-60, 460-3-60	1290	586	268	121	302	137	382	173	339	154	42.12	1070
50HJ012 W/62AQ200	208/230-3-60, 460-3-60	1325	602	275	125	310	141	392	178	348	158	50.12	1273
50HJ012 W/62AQ300	208/230-3-60, 460-3-60	1370	623	284	129	321	145	406	184	360	163	50.12	1273
50HJ014 W/62AQ200	208/230-3-60, 460-3-60	1365	620	283	128	319	145	404	183	358	162	50.12	1273
50HJ014 W/62AQ300	208/230-3-60, 460-3-60	1410	641	293	133	330	150	417	189	370	168	50.12	1273

NOTES:
 1. DIMENSIONS IN [] ARE IN INCHES.
 2. CENTER OF GRAVITY.
 3. DIRECTION OF AIR FLOW.
 4. DUCTWORK TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY.
 5. HJ - MINIMUM CLEARANCE (LOCAL CODES OR JURISDICTION MAY PREVAIL):
 a. BETWEEN UNIT, FLEUE SIDE AND COMBUSTIBLE SURFACES, 48 INCHES.
 b. BETWEEN UNIT, FLEUE SIDE AND COMBUSTIBLE SURFACES, 48 INCHES.
 c. BETWEEN UNIT, FLEUE SIDE AND COMBUSTIBLE SURFACES, 48 INCHES.
 d. BETWEEN UNIT, FLEUE SIDE AND COMBUSTIBLE SURFACES, 48 INCHES.
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 u. BETWEEN UNIT, FLEUE SIDE AND COMBUSTIBLE SURFACES, 48 INCHES.
 v. BETWEEN UNIT, FLEUE SIDE AND COMBUSTIBLE SURFACES, 48 INCHES.
 w. BETWEEN UNIT, FLEUE SIDE AND COMBUSTIBLE SURFACES, 48 INCHES.
 x. BETWEEN UNIT, FLEUE SIDE AND COMBUSTIBLE SURFACES, 48 INCHES.
 y. BETWEEN UNIT, FLEUE SIDE AND COMBUSTIBLE SURFACES, 48 INCHES.
 z. BETWEEN UNIT, FLEUE SIDE AND COMBUSTIBLE SURFACES, 48 INCHES.



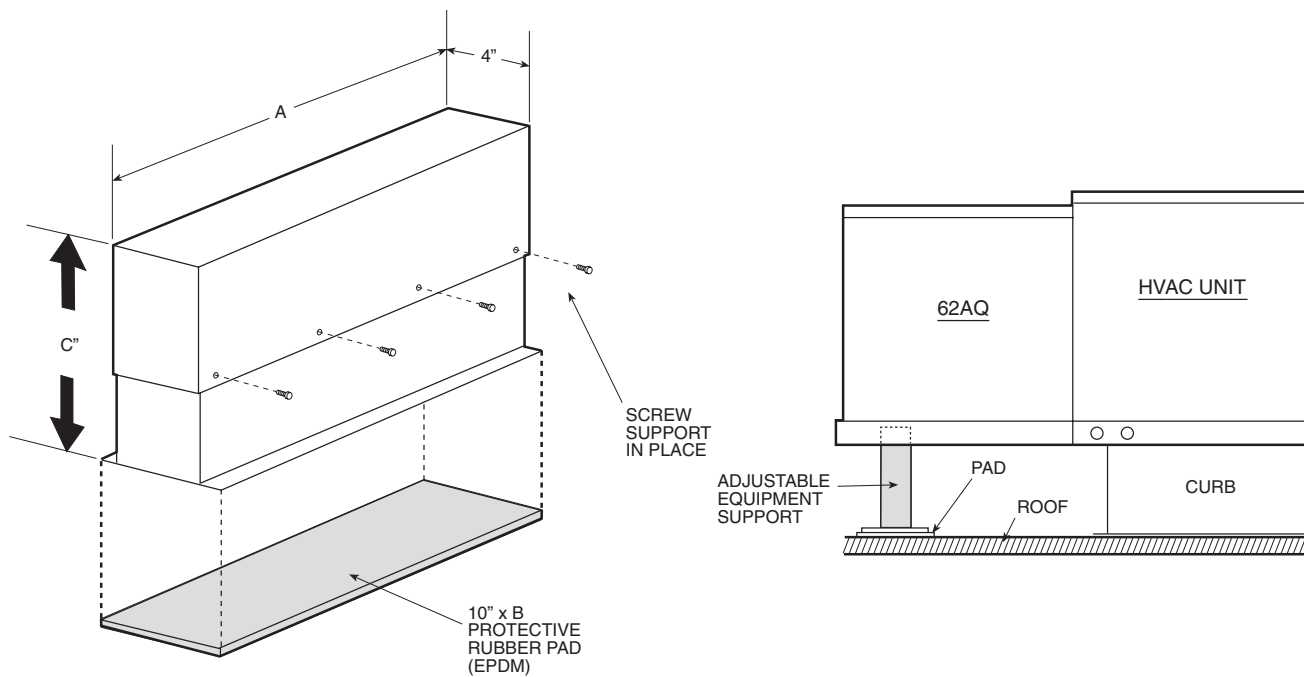
CERTIFIED ROOFTOP UNIT ROOF CURB DIMENSION PRINT



ACCESSORY DIMENSIONAL DRAWING

SUPPLEMENTAL 62AQ SECTION EQUIPMENT SUPPORT

UNIT SIZE	EQUIPMENT SUPPORT PART NUMBER	DIMENSIONS (in.)		
		A	B	C
3-6 Ton	CRAQSUPT001A00	36.9	40	8 to 14
	CRAQSUPT002A00	36.9	40	14 to 24
7 1/2-12 1/2 Ton	CRAQSUPT003A00	49.7	54	8 to 14
	CRAQSUPT004A00	49.7	54	14 to 24



CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

H/J/AQ COMBINED UNIT FULL PERIMETER ROOF CURB DRAWING

48/50HJ004-007 WITH 62AQ060, 100

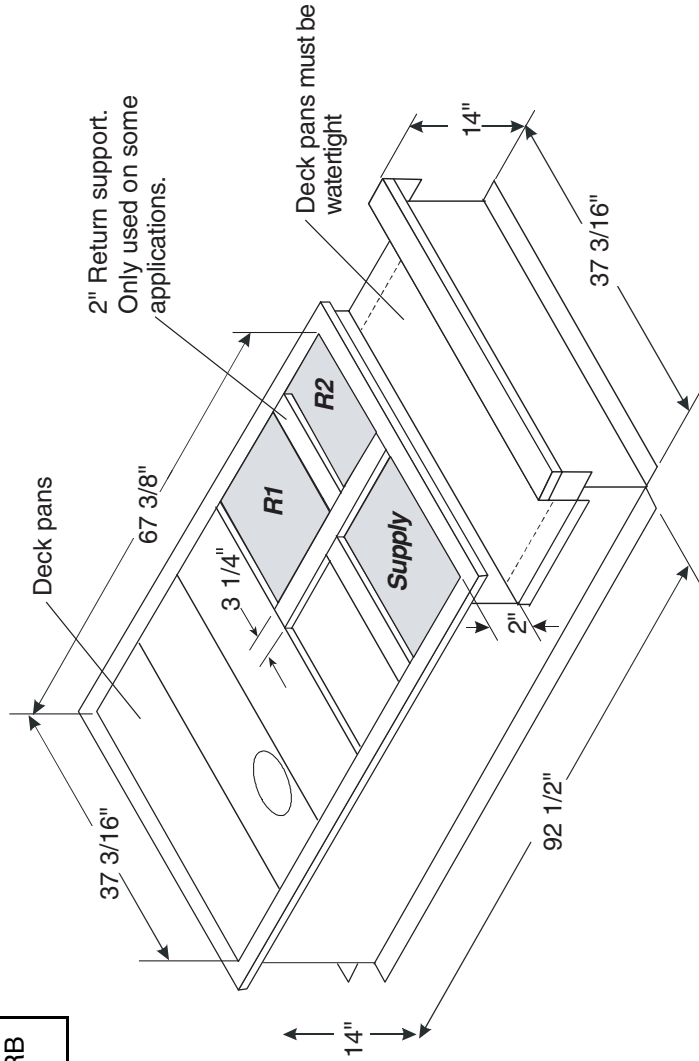
CAUTION

DO NOT USE THIS DRAWING TO FIELD-FABRICATE A CURB! SIGNIFICANT PROBLEMS CAN OCCUR IF A CARRIER APPROVED CURB IS NOT USED.

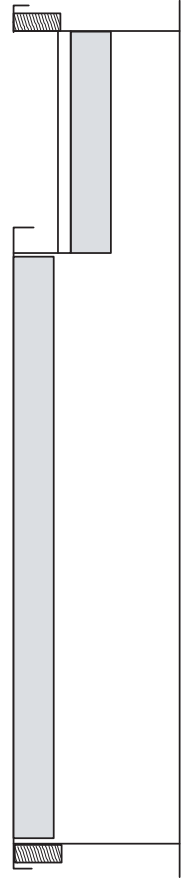
DUCT OPENING SIZES

- Supply = 13 7/8" x 20 1/4"
- R1 = 13 5/8" x 17 3/4"
- R2 = 13 5/8" x 12 5/16"

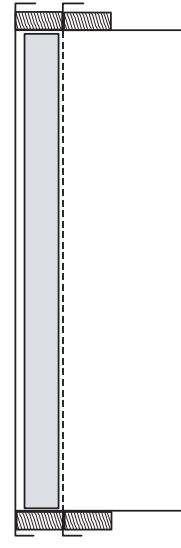
- R1 = Return from building to HVAC
- R2 = Return from building to 62AQ



SIDE VIEW



END VIEW



HJ/AQ COMBINED UNIT FULL PERIMETER ROOF CURB DRAWING

48/50HJ008-014 WITH 62AQ200, 300

CAUTION

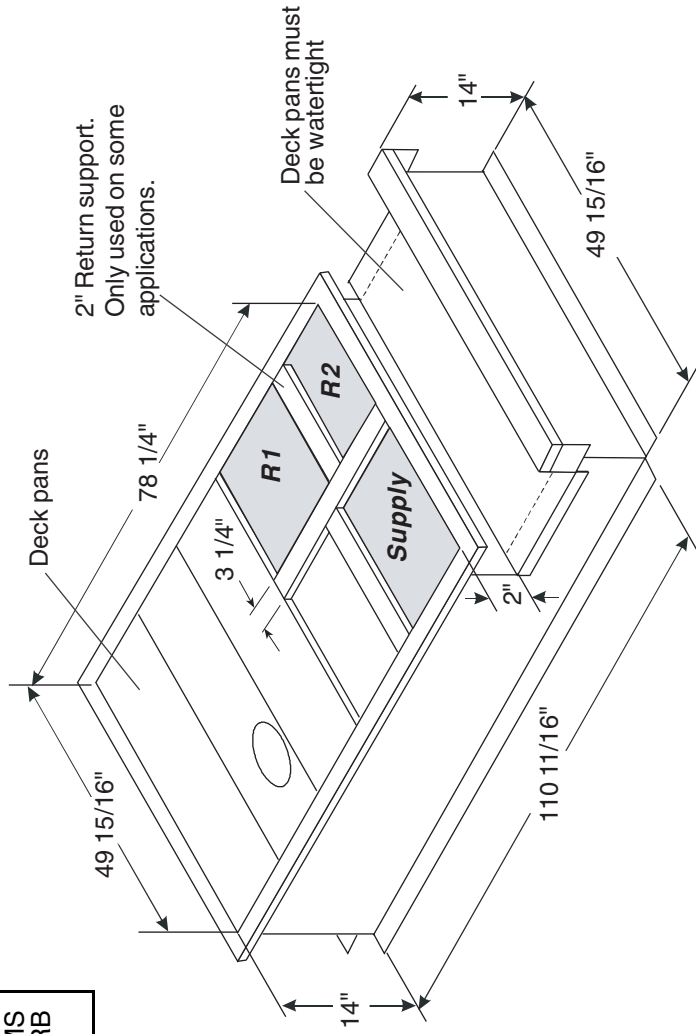
DO NOT USE THIS DRAWING TO FIELD-FABRICATE A CURB! SIGNIFICANT PROBLEMS CAN OCCUR IF A CARRIER APPROVED CURB IS NOT USED.

DUCT OPENING SIZES

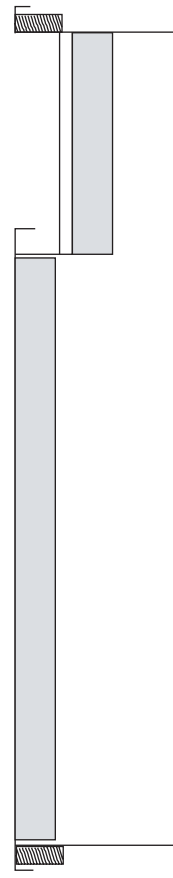
Supply = 15 11/16" x 31 3/8"
 R1 = 15 5/16" x 29 1/16"
 R2 = 15 5/16" x 9"

R1 = Return from building to HVAC

R2 = Return from building to 62AQ



SIDE VIEW



END VIEW

