

50JB034, 038, 044, 048, 054, 064 HORIZONTAL SUPPLY AND RETURN SINGLE-PACKAGE COOLING UNITS EXTENDED CHASSIS CONSTANT VOLUME/VARIABLE VOLUME PRODUCT INTEGRATED CONTROLS CARRIER COMFORT NETWORK COMPATIBLE

- PERFORMANCE DATA
- TYPICAL FIELD WIRING
- CERTIFIED DIMENSION PRINTS
- CERTIFIED ROOF CURB DIMENSION PRINTS

Date:	Supersedes:	50JB034, 038, 044, 048, 054, 064 SINGLE-PACKAGE COOLING UNITS, EXTENDED CHASSIS PRODUCT INTEGRATED CONTROLS	50JB	Rev.:
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O. #	CARRIER #	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	





DESCRIPTION

50JB units are completely packaged, pre-wired and precharged cooling only units with PRODUCT INTEGRATED CONTROLS.

50JB units are built for horizontal supply and return applications. Their waterproof construction makes them ideally suited for installation on the accessory roof curb which is NRCA approved or slab mounting. Units are either CONSTANT VOLUME or VARIABLE AIR VOLUME depending on the factory-installed options selected.

Units include space and coil tracks downstream of evaporator for field or factory installation of auxiliary devices.

PRODUCT INTEGRATED CONTROL FEATURES STANDARD CONTROL FUNCTIONS

Unit compatible with CARRIER COMFORT NETWORK or stand alone operation.

Constant Volume or Variable Air Volume control.

Four to six stages of compressor unloading possible.

Supply fan control based on occupancy schedule using 365-day electronic timeclock with holiday scheduling.

Time schedule override through the space temperature sensor provided with the unit.

Compatible with 37H and 45 Series PIC terminals to form a Digital Air Volume system (DAV).

Building pressurization control in conjunction with modulating power exhaust option.

Supply duct static pressure controlled through inlet guide vanes or field or factory supplied inverter.

Head pressure control to -20° F. Head pressure controlled by saturated condensing temperature, low ambient control utilizes Motormaster® II fan cycling.

Lead-lag compressor control to even out run time.

Self-diagnostic run test confirms control and component operation at unit commissioning. Self-diagnostic troubleshooting codes indicate the reason unit tripped to expedite unit repair. Codes expand to English Text.

Control of a two-speed supply fan motor on CV applications. (Two-speed motor available on Special Order.)

Building Purge Mode flushes building interior with outdoor air to remove contaminants before occupancy.

Adaptive Optimal Start minimizes the amount of time and energy required before entering the occupied mode.

Unoccupied Mode Free Cooling — units with optimal economizer will utilize free cooling whenever possible to maintain the unoccupied set point.

Input/Output of data and monitoring of alarms can be done remotely using Building Supervisor, or at the unit using the accessory HSIO module.

Delayed Mechanical Cooling — units with optional economizer will utilize cooling to cool the space 3 degrees below the occupied set point to delay the need for mechanical cooling.

ADDITIONAL CONTROL FUNCTIONS AVAILABLE THROUGH FACTORY-INSTALLED "OPTION MODULE"

Provides a discrete output with occupancy control for use as specified by the customer.

Controls a field installed humidifier using a 4 to 20 mA or 2-stage output. Requires accessory humidity sensor.

Smoke Control functions (Building Pressurization and Smoke Purge) are provided through software. Terminals are provided to interface with field supplied smoke/fire panel.

Provides a 4 to 20 mA output to direct or reverse proportional hot water control valve for field supplied hydronic heating coil. Requires a field supplied freezestat to protect coil.

Factory installed suction and discharge pressure transducers and suction temperature thermistors allow remote monitoring of these parameters and superheat to provide enhanced remote diagnostics.

Differential enthalpy control can be provided using field installed accessory humidity sensors.

Economizer control field configurable to:

- Maintain a minimum economizer set point position,

OF

 Maintain the minimum economizer position based on input from an IAQ sensor (field supplied 0 - 10 volt),

OR

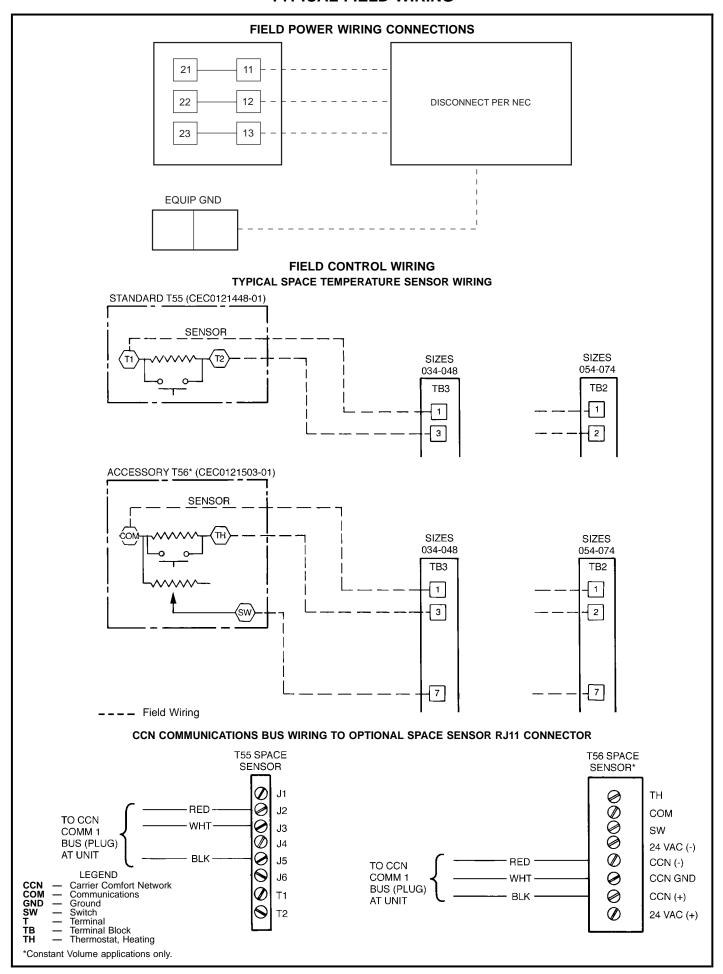
 Maintain a constant cfm of outdoor air intake (Requires accessory Outdoor Air CFM package),

OF

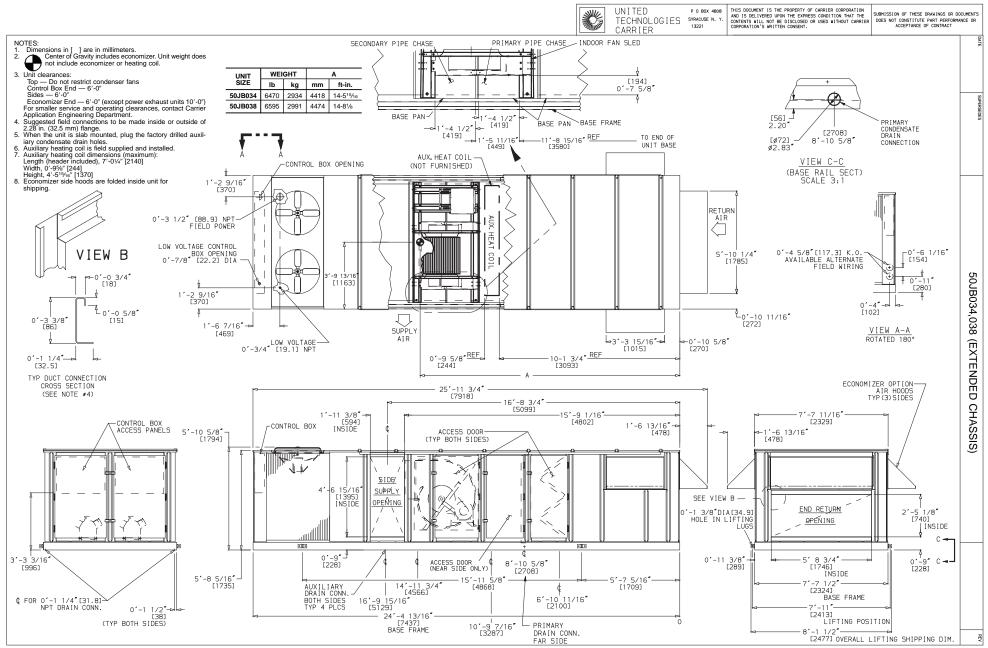
 Look at all three above and maintain minimum economizer position based on the dominant parameter.

h efficiency indoor motors (supply and exhaust). Skin Rx anti-microbial insulation. bed condensate pan. hual adjustable outside air intake for up to 25% outside air. inet made of prepainted galvanized steel. porator-fan motors are protected by circuit breakers. denser-fan motors are internally protected. gle-point electric service entry. I refrigeration circuits. ing lugs.				
o-inch disposable-type return air filters.				
PERFORMANCE DATA				
External Static Pressure in. wg b Weight lb				
ATING				
NO LINET MOUNTED HEAT AVAILABLE				
NO UNIT MOUNTED HEAT AVAILABLE				
m Fuse Amps				
ESSORIES				
FIELD-INSTALLED ACCESSORIES Roof Curb with Full Perimeter Support (30, 35, 40, 45 ton) Roof Curb with Condenser and Support (50, 60 ton) Roof Curb to Enclose the Condenser Section (50, 60 ton) Dutdoor Air Cfm Package Local Interface Device Differential Enthalpy Control Sensor Condenser Coil Guard Space Sensor with Set Point Adjustment Dptional 4-Year Extended Compressor Warranty HSIO Keypad and Display Module (required for initial start-up)				

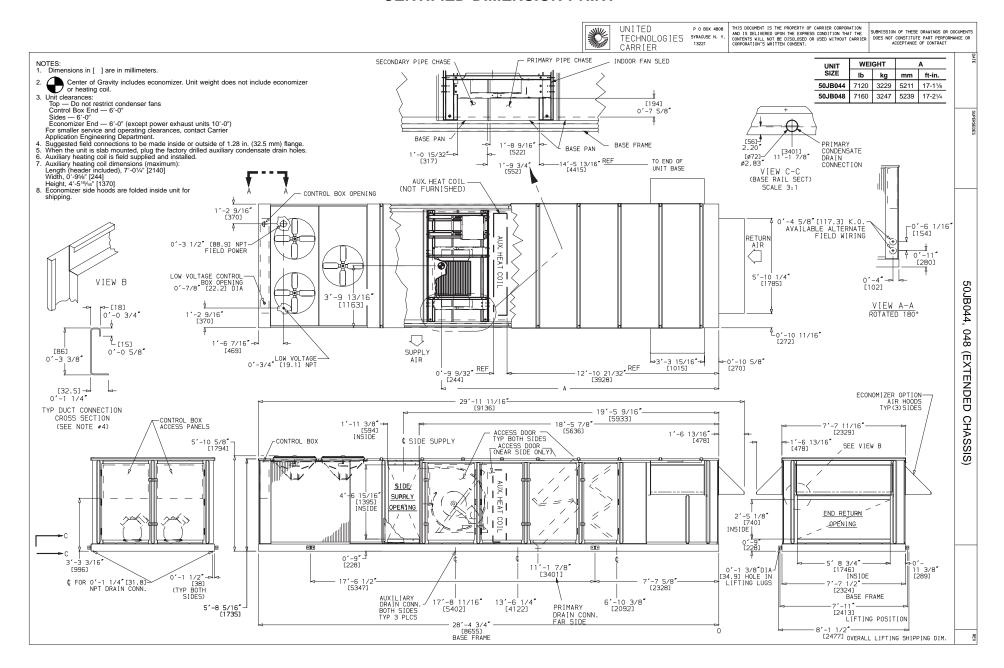
TYPICAL FIELD WIRING



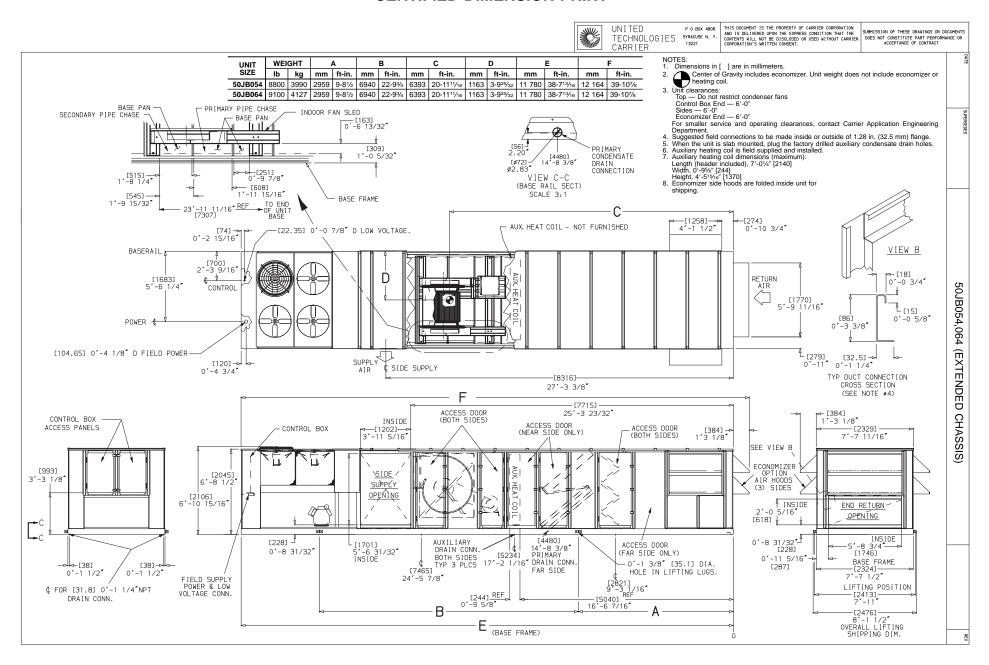
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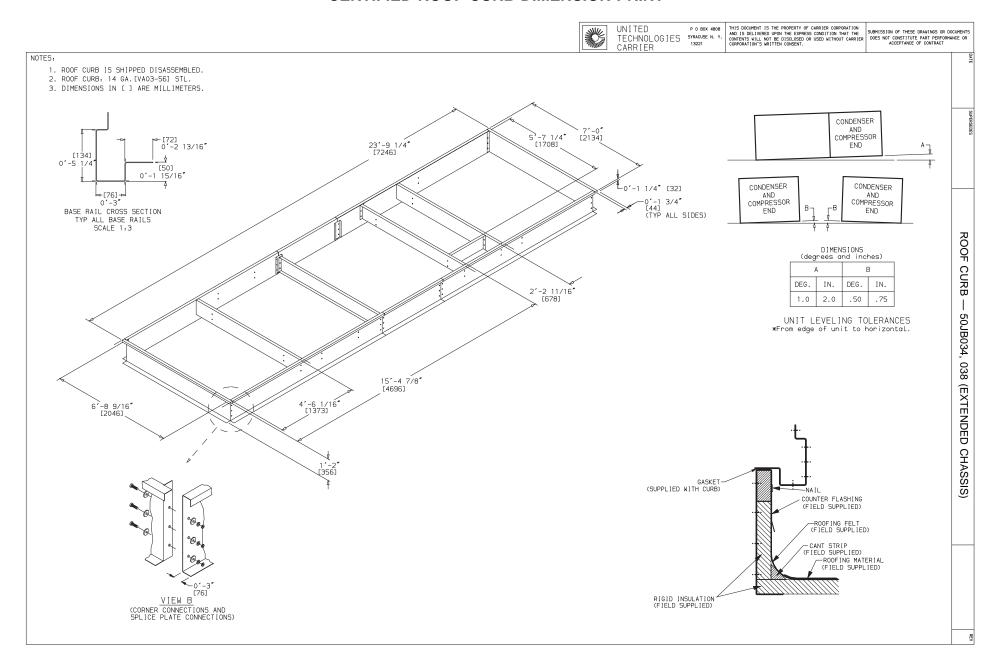
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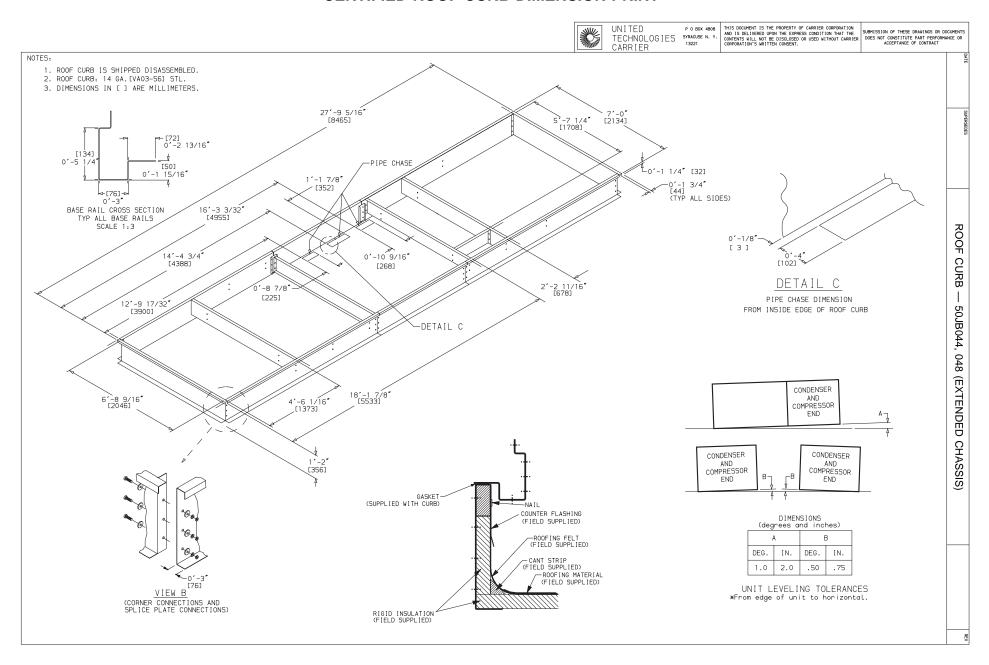
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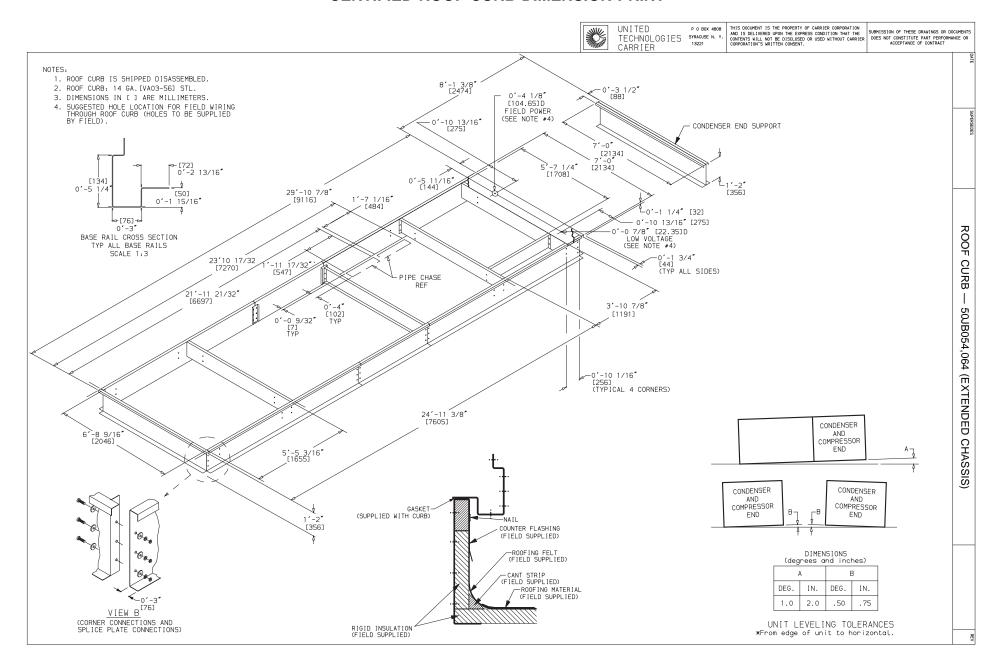
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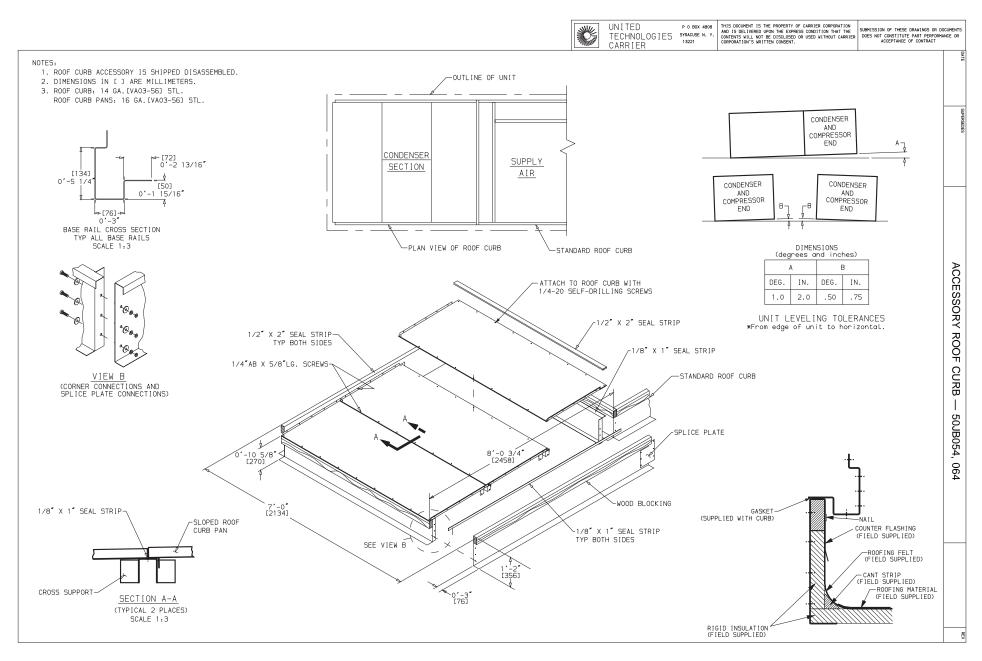
CERTIFIED ROOF CURB DIMENSION PRINT



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CERTIFIED ACCESSORY ROOF CURB DIMENSION PRINT



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