




50TM016-028

SINGLE-PACKAGE COOLING UNITS WITH FACTORY-INSTALLED OPTIONAL ELECTRIC HEAT


- PERFORMANCE DATA
- CERTIFIED DIMENSION PRINTS
- CERTIFIED ROOF CURB
DIMENSION PRINTS
- SERVICE OPTION
DIMENSION PRINTS




Date:	Supersedes:	50TM16-028 SINGLE-PACKAGE COOLING UNIT WITH FACTORY-INSTALLED OPTIONAL ELECTRIC HEAT	50TM	Rev.:
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O. #	CARRIER #	
UNIT NUMBER:		MODEL NUMBER:		
UNIT DESIGNATION:				
PERFORMANCE DATA CERTIFIED BY:			DATE:	



ARI STANDARD
360





DESCRIPTION

50TM units are one-piece rooftop cooling units with optional electric heat. All units are pre-wired and pre-charged with R-22 at the factory. Units are factory tested in both heating and cooling modes. The 50TM units have bottom air openings for separate supply and return ductwork. The 50TM unit is intended for installation on an accessory curb (ordered separately). Horizontal supply and return connections are also possible with a factory-preassembled, high-static regain, horizontal conversion adapter roof curb accessory (ordered separately). Bottom discharge on concentric applications requires a transition duct (field-supplied) external to the unit.

FEATURES

All units meet ASHRAE Standard 90.1.

Standard one-year product warranty.

Five-year warranty on the compressor (50TM016). One year warranty on the compressor (50TM020-028).

Units are rated in accordance with ARI standard 360. Standard unit is certified and listed by ETL and ETL, Canada.

Low outdoor temperature cooling operation to 40 F (4 C) as standard.

Dual freeze-stat protection is provided as standard.

Dual scroll compressors with internal linebreak protection.

Indoor and outdoor coils constructed of aluminum fins mechanically bonded to seamless internally grooved copper tubes.

Dual TXVs (thermostatic expansion valves) metering devices.

Liquid line filter driers provided in each refrigeration circuit.

Optional gear-driven EconoMi\$er equipped with microprocessor controller that includes CO₂ ventilation control capability.

Manually adjustable outside air intake for up to 25% outside air.

Automatic changeover (when used with an auto-changeover thermostat).

Single point electric connections. Disconnect in accordance with NEC must be field-supplied and installed.

All units utilize 2-stage cooling.

Belt drive adjustable evaporator fan.

Choice of low-medium or high-static indoor fan drive capability.

Cabinet made of pre-painted, galvanized steel with baked enamel finish.

Cooling systems have low and high-pressure switches. Two-inch disposable type return air filters are factory installed.

Provision for alternate end return in base unit. Horizontal supply available by using accessory curb. EconoMi\$er may be used with horizontal supply and return.

Direct drive propeller condenser fans with vertical discharge.

PERFORMANCE DATA

Unit Operating Weight _____ lb

COOLING

Gross Total Capacity _____ Btuh

@ Condenser Air Temperature _____ F

Gross Sensible Capacity _____ Btuh

Compressor Power Input _____ kW

Indoor Entering db _____ F wb _____ F

Airflow _____ External Static Pressure _____ in. wg

Indoor Fan Motor Size _____ Hp

Exhaust Fan Motor Size _____ Hp

Curb Weight _____ lb

HEATING

Heating Capacity:

Stage 1 _____ Btuh

Stage 2 _____ Btuh

Heating Capacity Total _____ Btuh

Stage 1 _____ kW

Stage 2 _____ kW

Heating Capacity Total _____ kW

ELECTRICAL DATA

Power Supply to Unit _____ Volts _____ Phase _____ Hz

Minimum Circuit Amps _____ Maximum Overcurrent Protection _____

SUBMITTAL DATA

Job Name _____

Architect _____

Engineer _____

Contractor _____

Unit Designation _____

OPTIONS AND ACCESSORIES

FACTORY-INSTALLED OPTIONS

- ☐ Fully Integrated Gear Driven EconoMi\$er with Microprocessor Controller
- ☐ Four-Year Extended Protection Plan on the Compressor (020, 025, 028)
- ☐ Apollo Controls
- ☐ Service Option Package (Hinged Access Panels, Non-Fused Disconnect, 115-v Convenience Outlet)
- ☐ Electric Heat
- ☐ Pre-Coated Condenser Coils
- ☐ E-Coated Condenser Coils
- ☐ High Static Fan Motor

DESIGN ENHANCEMENT CENTER (DEC) FACTORY OPTIONS

- ☐ 3rd Party Controls (Novar, METASYS, etc.)
- ☐ Smoke Detectors
- ☐ Double Wall Construction
- ☐ Hot Gas Bypass

FIELD-INSTALLED ACCESSORIES

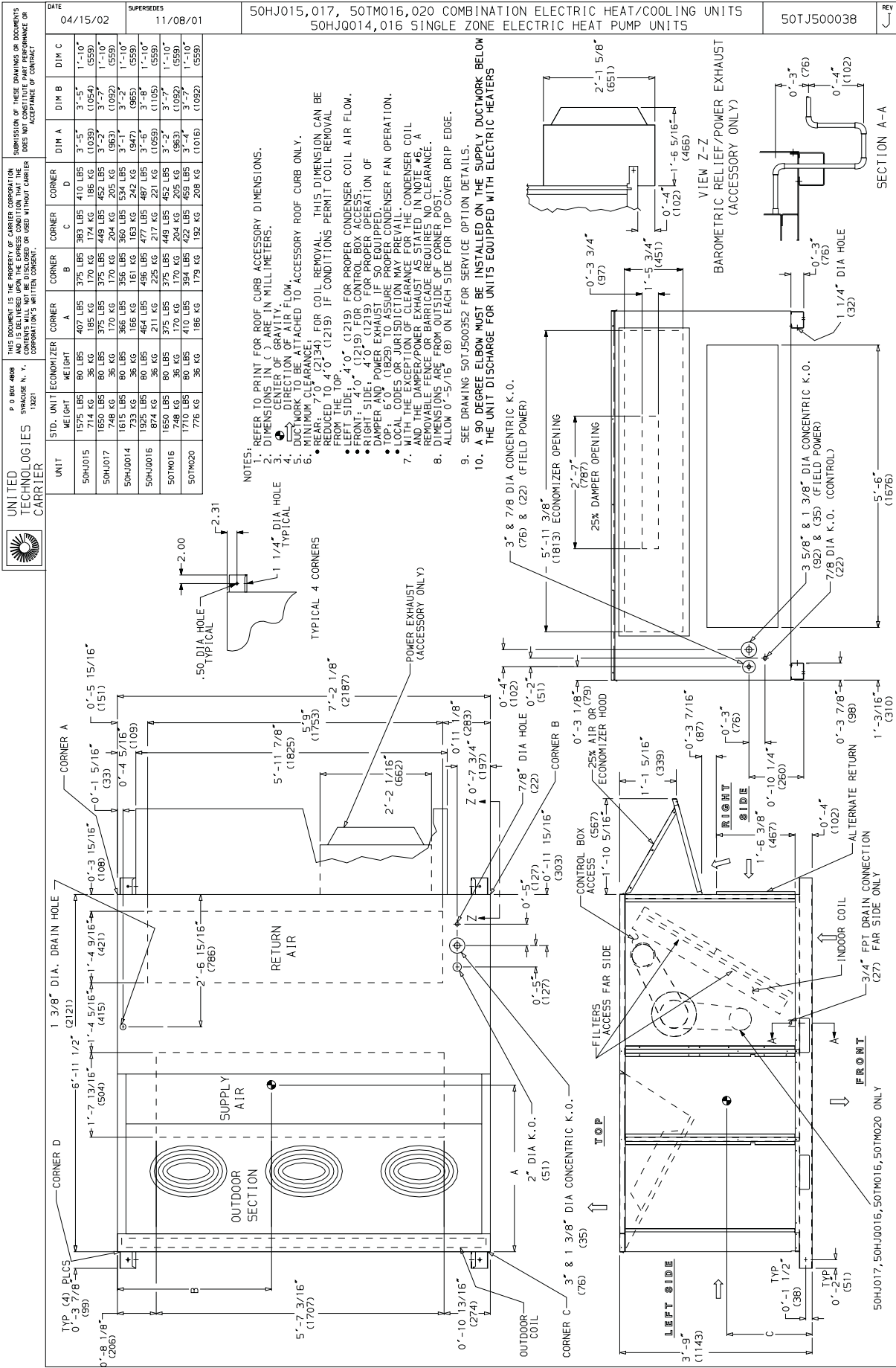
- ☐ Fully Integrated Gear Driven EconoMi\$er with Microprocessor Controller
- ☐ Low Ambient Kit — Down to 10 F (016, 020, 028)
- ☐ Low Ambient Kit — Down to 25 F (025)
- ☐ Return Air Temperature Sensor (Differential Dry Bulb EconoMi\$er Control)
- ☐ Solid State Enthalpy Control — Outside Air
- ☐ Solid State Enthalpy Control with Harness — Return Air
- ☐ Winter Start Package
- ☐ Roof Curb (14-in.)
- ☐ Roof Curb (24-in.)
- ☐ Roof Curb (Horizontal Supply)
- ☐ Factory Preassembled, High Static Regain, Horizontal Conversion Adapter Roof Curb
- ☐ Four-Year Extended Protection Plan on the Compressor (020, 025, 028)
- ☐ Power Exhaust
- ☐ Barometric Relief
- ☐ Thermostat and Subbase
- ☐ Time Guard® II Device
- ☐ Two-Position Damper Package
- ☐ Motormaster® Control
- ☐ Hail Guard
- ☐ Hydronic (Glycol) Coil
- ☐ Electric Heat
- ☐ CO₂ Sensor — Duct Mount
- ☐ CO₂ Sensor — Wall Mount

CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

CERTIFIED DIMENSION PRINT

50TM016,020



CUT ALONG DOTTED LINE

50TM025



50TM028

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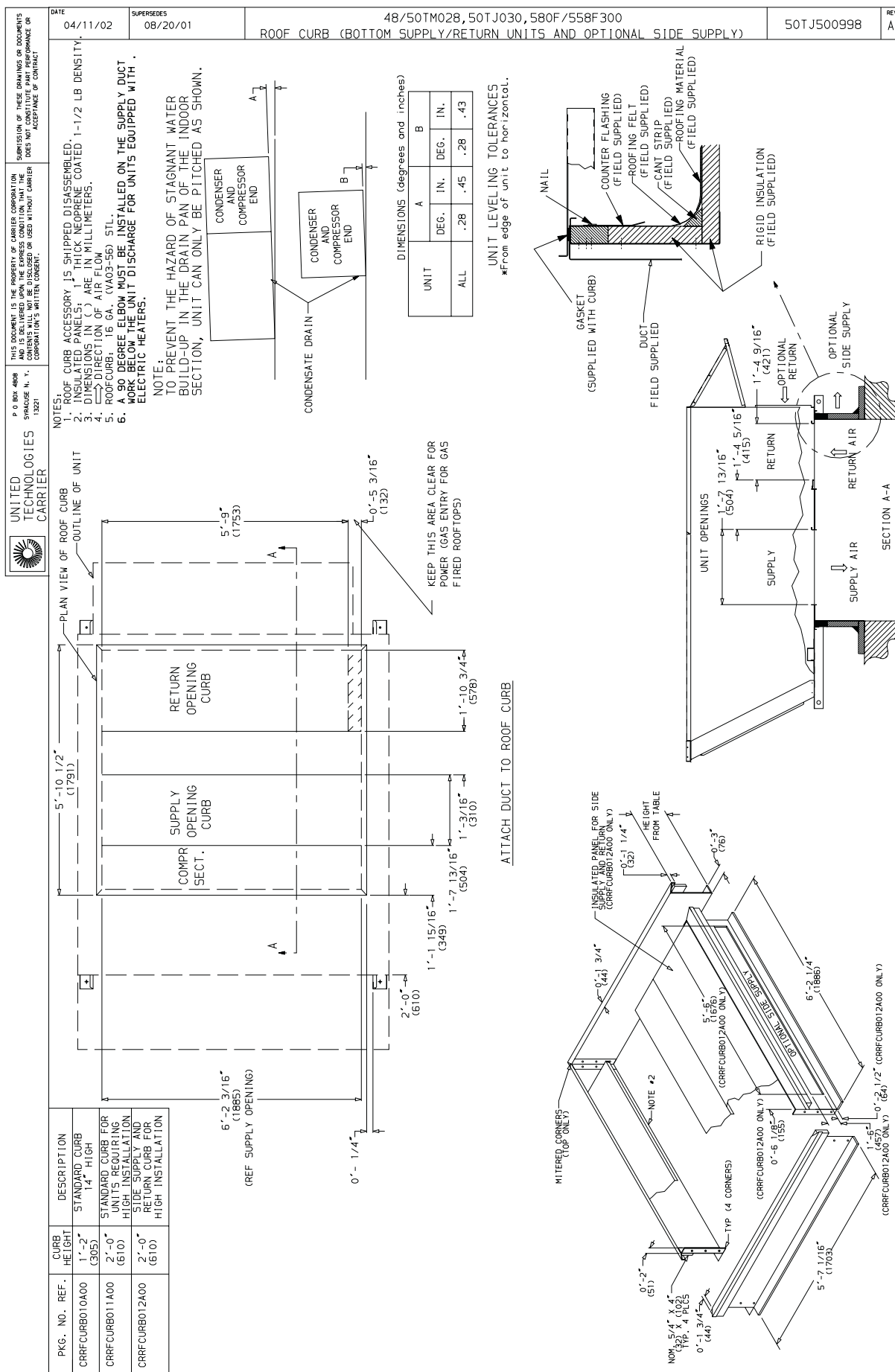
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CERTIFIED ROOF CURB DIMENSION PRINT

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CERTIFIED ROOF CURB DIMENSION PRINT

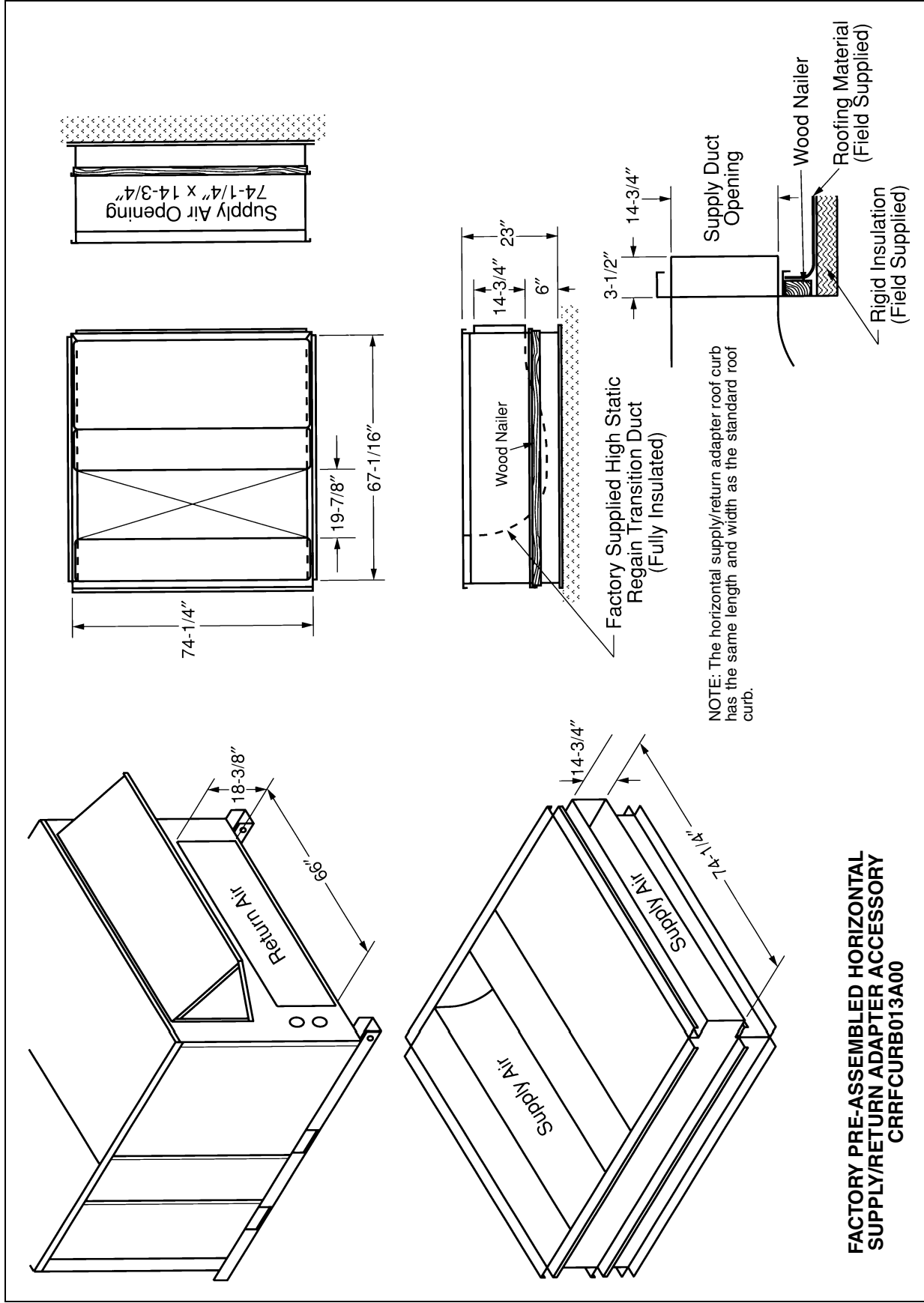
50TM028



CUT ALONG DOTTED LINE

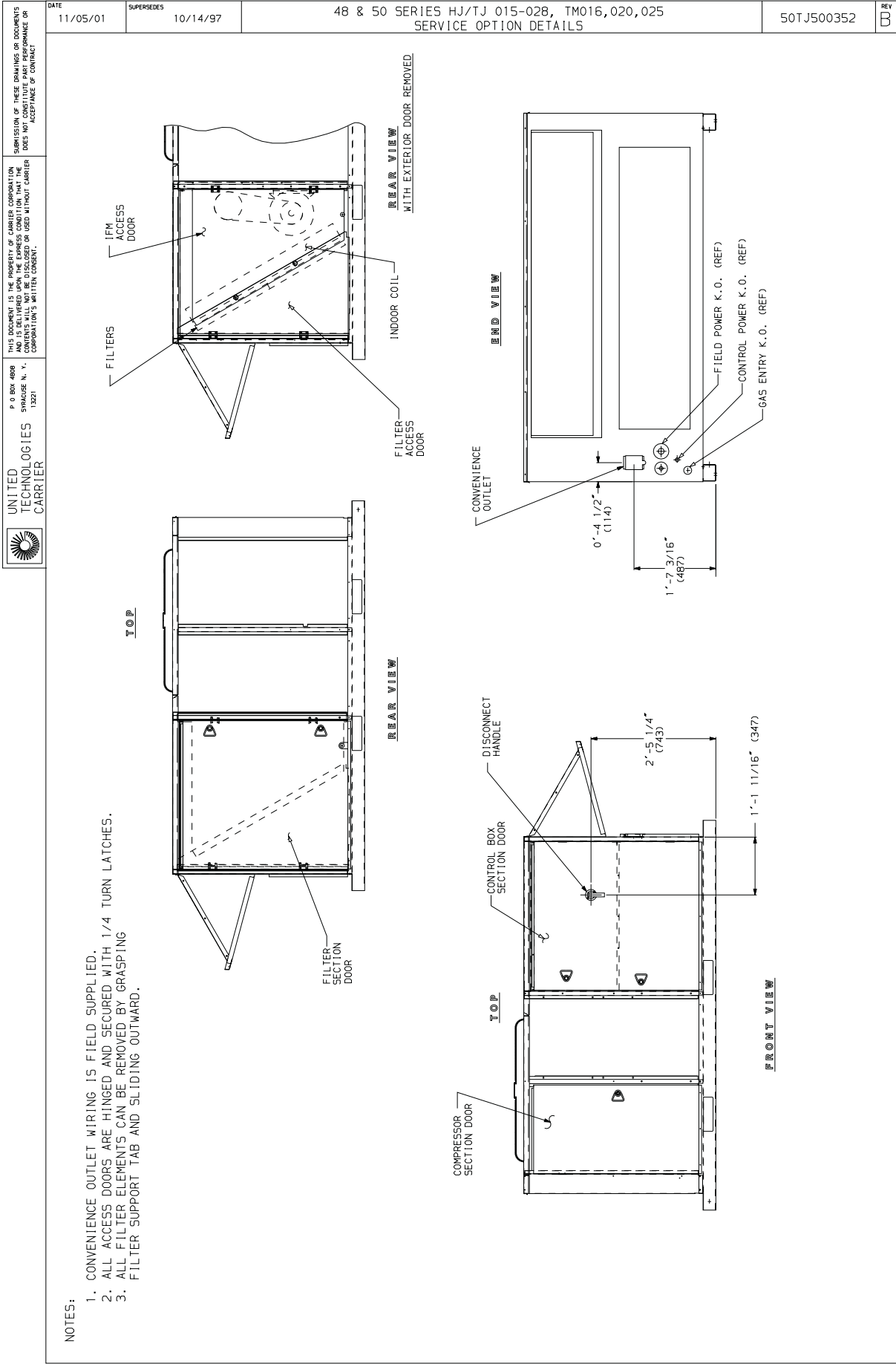
CUT ALONG DOTTED LINE

HORIZONTAL SUPPLY/RETURN ADAPTER DIMENSION DRAWING



SERVICE OPTION DIMENSION PRINT

50TM016-025



CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

SERVICE OPTION DIMENSION PRINT

50TM028

