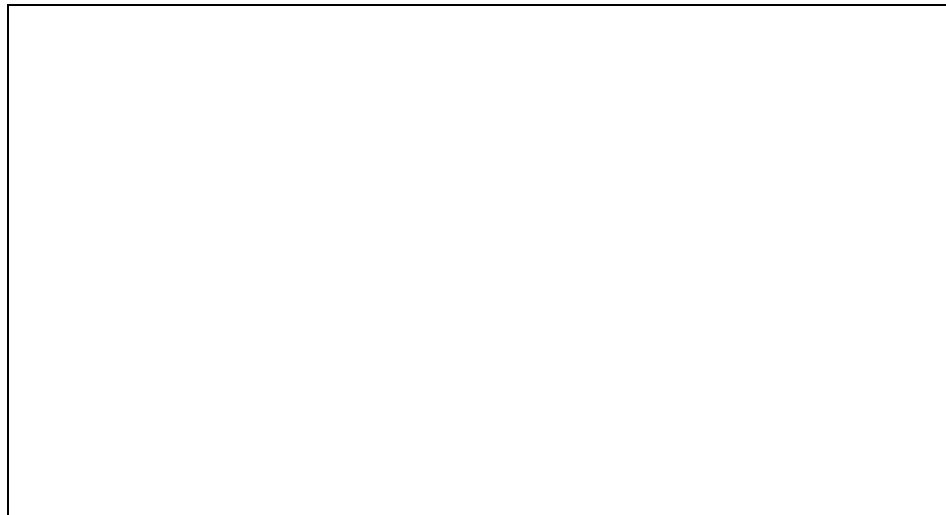




**48TM007-012  
48TF004-014**

**COMBINATION  
HEATING/COOLING UNITS**

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



Date:	Supersedes:	<b>48TM007-012, 48TF004-014 COMBINATION HEATING/COOLING UNITS</b>	48T	Rev.: -1SB
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JOB NAME:		LOCATION:		
BUYER:		BUYER P.O. #	CARRIER #	
UNIT NUMBER:		MODEL NUMBER:		
UNIT DESIGNATION:				
PERFORMANCE DATA CERTIFIED BY:				DATE:

**DESCRIPTION**



Units are a single piece, gas heating/electric cooling unit, with a low profile, pre-wired, tested and charged at the factory. The units have the capability for convertible supply and return openings and are intended for installation on an accessory curb (ordered separately), or for slab mounting (for horizontal duct connections). Units are designed to accept a field-installed economizer, enthalpy control, manual or 2-position outside air damper, roof curb, as well as 3 choices of gas heat. Refer to accessory chart below for full listing.

**FEATURES**

- Standard one-year full product warranty.
- Five-year protection plan for the motor-compressor.
- Five-year protection plan on heat exchangers.
- Outdoor ambient cooling operation from 25 F (-4 C) to 115 F (46 C).
- Units are tested and certified by ARI and certified by UL and CSA. Factory-run test printout included in each rooftop.
- 24-volt control circuit, with resettable breaker.
- Two-inch disposable-type return air filters in dedicated rack.
- Hermetic compressor on independent circuit with internal line break and overload protection, self-lubricating with internal discharge muffler.
- Scroll compressor with internal overload protection (TF/TM007, TM012, TF014).
- Refrigerant circuit contains a filter drier to trap dirt and particles.
- Single compressor on 3 to 6 ton units.
- Dual compressors on 7<sup>1</sup>/<sub>2</sub> to 12<sup>1</sup>/<sub>2</sub> ton units.
- Two-speed direct drive evaporator fan on all units except 007 size which is belt driven. Adjustable belt drive fans are optional on all sizes.
- Non-corrosive condensate pan with self-draining sloping design with both bottom and side drain connections.
- Thru-the-bottom power control and gas entry capability.
- Indoor and outdoor coils constructed of aluminum fins mechanically bonded to seamless copper tubes.
- Single point electrical and gas connections.
- Direct drive propeller condenser fan totally enclosed with permanently lubricated bearings.
- Pre-painted, insulated cabinet with primer inner panels, certified 500-hr salt spray test and non-corrosive screws.
- Dedicated L,M,N 3 to 5 ton "Low NOx" units that meet California air quality refrigerant of 40 nanograms/joule or less.
- 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.
- Induced draft (negative pressure) combustion system with Hall effect sensor to detect proper operation of induced draft motor.
- All units have single stage cooling and single stage heating capability. High heat models have 2-stage heating capability.
- Heavy Alumagard™ coated heat exchangers, with aluminized steel burners.
- Heating controls with direct spark ignition and redundant gas valve. Fan switch, high temperature limit switch and flame rollout switch standard.
- Fixed orifice metering device precisely controls refrigerant flow to each circuit individually.
- Reliable accurate control circuit with color coded wires and easy accessible terminal board.
- 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.
- Loss of charge (low pressure), freeze protection, and high pressure switches standard.
- Refrigerant filter drier/circuit.

**PERFORMANCE DATA**

**COOLING**

Net Total Cap. \_\_\_\_\_ Btuh  
 Net Sensible Cap. \_\_\_\_\_ Btuh  
 Compressor Power Input \_\_\_\_\_ kW  
 \_\_\_\_\_ F Outdoor Air Temp.  
 Indoor Entering Air db \_\_\_\_\_ F wb \_\_\_\_\_ F  
 CFM \_\_\_\_\_ Ext. Static Pressure \_\_\_\_\_ in. wg  
 Fan RPM \_\_\_\_\_ Bhp  
 SEER/EER \_\_\_\_\_

**HEATING**

Input: Stage 1 \_\_\_\_\_ Total \_\_\_\_\_ Btuh  
 Output: Stage 1 \_\_\_\_\_ Total \_\_\_\_\_ Btuh  
 AFUE \_\_\_\_\_ kW \_\_\_\_\_ %  
 Steady State \_\_\_\_\_ %  
 Operating Weight \_\_\_\_\_ lbs. (unit) \_\_\_\_\_ lbs. (curb)

**ELECTRICAL DATA**

Power Supply to Unit \_\_\_\_\_ Volts \_\_\_\_\_ Phase \_\_\_\_\_ Hz  
 Minimum Circuit Amps \_\_\_\_\_ Maximum Overcurrent Protection (Fuse Only) \_\_\_\_\_

**FACTORY-INSTALLED  
OPTIONS**

- Durablade Economizer — Fully Modulating
- EconoMi\$er with Controller
- Copper/Copper Coils — Evaporator, Condenser, Both
- Pre-Coated Condenser Coil
- E-Coat (Post-Coated) Condenser Coil
- Non-Fused Disconnect Switch
- 115-Volt Convenience Outlet
- Apollo Communicating Control
- PremierLink™ Control
- 25% Manual Air Damper
- Alternate Motor and Drive (except 007 and 009 size)
- High-Static Motor (except 014)
- EconoMi\$er with 4-20 mA Actuator, Less Controller


**FIELD-INSTALLED ACCESSORIES**

- Durablade Economizer — Fully Modulating
- EconoMi\$er
- 25% Open Two-Position Damper
- 25% Open Manual Air Damper
- 100% Open Two-Position Damper
- Solid-State Enthalpy Control
- Differential Enthalpy Control
- Roof Curb (14- or 24-in. Height)
- Thru-the-Bottom/Roof Curb Electrical and Gas Connection Kit
- Time Guard® II Compressor Anti-Cycle Control
- Condenser Coil Hail Guard
- Room Temperature Sensor
- PremierLink™ Control
- Condenser Coil Protector (004-007)
- EconoMi\$er/Power Exhaust
- 20 F Motormaster® Low Ambient Control Kit
- Programmable Set-Back Thermostat
- Electrical Mechanical Thermostat & Subbase
- Liquid Propane (LP) Gas Kit
- Flue Hood Protector Kit
- Flue Discharge Deflector
- Indoor Fan/filter Status Indicator
- 62AQ Energy\$Recycler
- Other \_\_\_\_\_

CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

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UNIT	STD. WEIGHT LBS.	UNIT ECON WEIGHT LBS.	CONVERTER WEIGHT LBS.	(A) CORNER WEIGHT LBS.	(B) CORNER WEIGHT LBS.	(C) CORNER WEIGHT LBS.	(D) CORNER WEIGHT LBS.
48HJF/HJE004	530	240	34	15.4	47	21.3	127
48HJF/HJE/HJD005	540	245	34	15.4	47	21.3	127
48HJF/HJE/HJD006	560	254	34	15.4	47	21.3	127
48HJF/HJE/HJD007	615	279	34	15.4	47	21.3	127
48HJF/HJE/HJD008	615	279	34	15.4	47	21.3	127

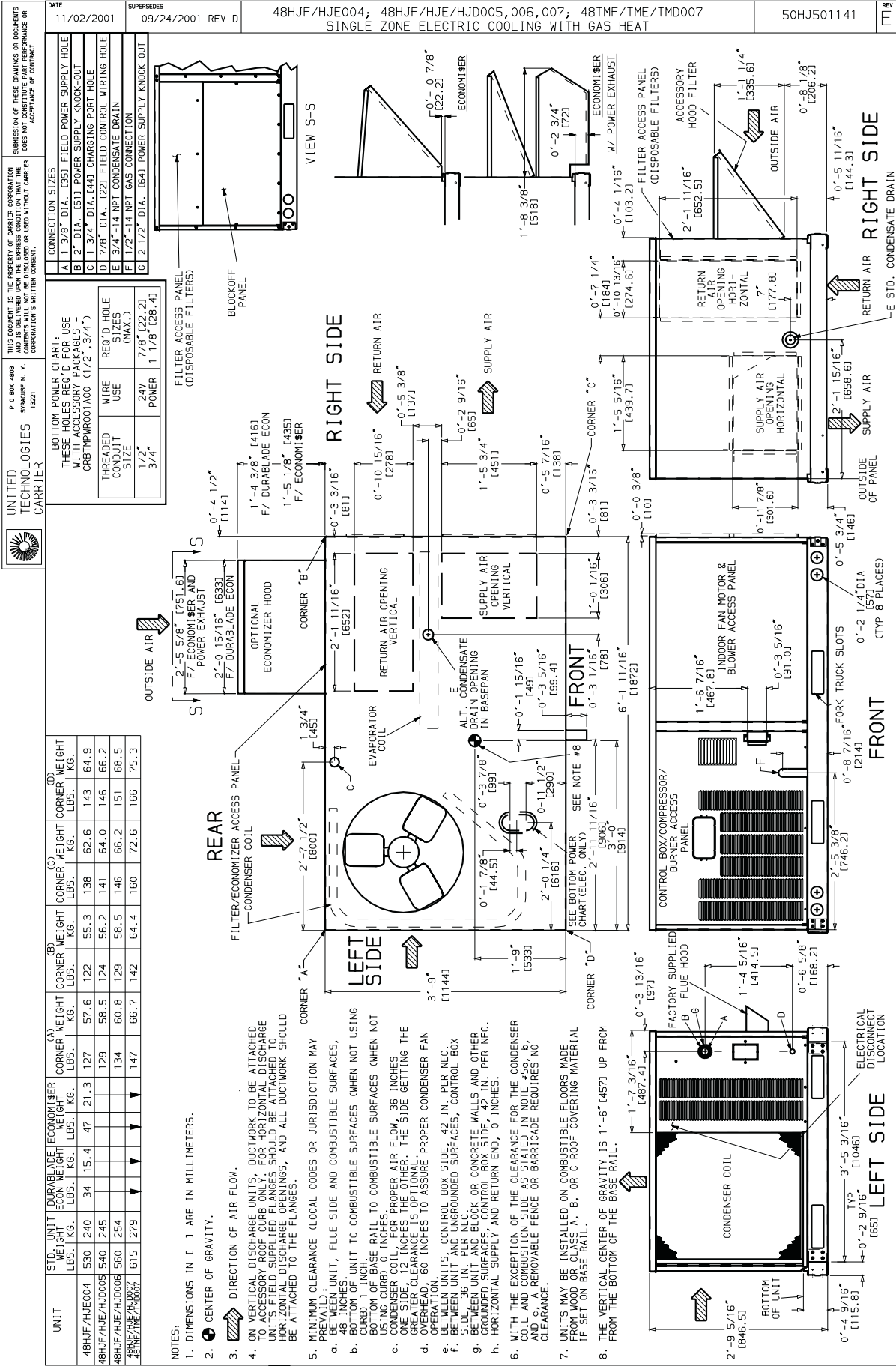
  

CONNECTION SIZES	REQUIREMENTS
A 1" 3/8" DIA. (E51) FIELD POWER SUPPLY HOLE	USE WITH ACCESSORY PACKAGES
B 2" DIA. (E51) POWER SUPPLY KNOCK-OUT	GRETHARP001A00 (1/2", 3/4")
C 1" 3/4" DIA. (E49) CHARGING PORT HOLE	WIRE REQ'D HOLE SIZES (MAX.)
D 1" 3/4" DIA. (E22) FIELD CONTROL WIRING HOLE	CONDUIT SIZE
E 3/4" - 1/4" NPT CONDENSATE DRAIN	24V POWER 1 1/8" (E28.4)
F 1/2" - 1/4" NPT GAS CONNECTION	
G 2 1/2" DIA. (E64) POWER SUPPLY KNOCK-OUT	

**NOTES:**

- DIMENSIONS IN [ ] ARE IN MILLIMETERS.
- CENTER OF GRAVITY.
- DIRECTION OF AIR FLOW.
- ON VERTICAL DISCHARGE UNITS, DUCTWORK TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY. FOR HORIZONTAL DISCHARGE UNITS, FIELD SUPPLIED FLANGES SHOULD BE ATTACHED TO HORIZONTAL DISCHARGE OPENINGS, AND ALL DUCTWORK SHOULD BE ATTACHED TO THE FLANGES.
- MINIMUM CLEARANCE (LOCAL CODES OR JURISDICTION MAY PREVAIL):
  - BETWEEN UNIT, FLUE SIDE AND COMBUSTIBLE SURFACES, 48 INCHES.
  - BETWEEN UNIT TO COMBUSTIBLE SURFACES (WHEN NOT CURB) 10 INCH.
  - BOTTOM OF BASE RAIL TO COMBUSTIBLE SURFACES (WHEN NOT USING CURB) 0 INCHES.
  - CONDENSER COIL, FOR PROPER AIR FLOW, 36 INCHES ONE SIDE, 12 INCHES THE OTHER. THE SIDE GETTING THE OVERHEAD, 60 INCHES TO ASSURE PROPER CONDENSER FAN OPERATION.
  - BETWEEN UNITS, CONTROL BOX SIDE, 42 IN. PER NEC.
  - BETWEEN UNIT AND UNGRAUNDED SURFACES, CONTROL BOX SIDE, 36 IN. PER NEC.
  - BETWEEN UNIT AND BLOCK OR CONCRETE WALLS AND OTHER COMBUSTIBLE SURFACES, 60 INCHES, PER NEC.
  - HORIZONTAL SUPPLY AND RETURN END, 0 INCHES.
- WITH THE EXCEPTION OF THE CLEARANCE FOR THE CONDENSER COIL AND COMBUSTIBLE SIDE AS STATED IN NOTE #5, b, c, AND c, REMOVABLE FENCE OR BARRICADE REQUIRES NO CLEARANCE.
- UNITS MAY BE INSTALLED ON COMBUSTIBLE FLOORS MADE FROM WOOD OR CLASS A, B, OR C ROOF COVERING MATERIAL IF SET ON BASE RAIL.
- THE VERTICAL CENTER OF THE BASE RAIL IS 1'-6" [457] UP FROM THE BOTTOM OF THE BASE RAIL.

**FRONT**

**REAR**

**LEFT SIDE**

**RIGHT SIDE**

**VIEW S-S**

**RIGHT SIDE**

**FRONT**

**LEFT SIDE**

# CERTIFIED DIMENSION PRINT

P.O. BOX 4808  
SYRACUSE, N.Y. 13221

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DATE: 09/24/2001

SUPERSEDES: 05/12/2000 REV -

48TFF/TFE004, 48TFF/TFE/TFD005, 006, 007  
SINGLE ZONE ELECTRIC COOLING WITH GAS HEAT

50DK508496

UNIT	STD. WEIGHT LBS. / KG.	UNIT WEIGHT LBS. / KG.	ECONOMIZER LBS. / KG.	(A) CORNER WEIGHT LBS. / KG.	(B) CORNER WEIGHT LBS. / KG.	(C) CORNER WEIGHT LBS. / KG.	(D) CORNER WEIGHT LBS. / KG.	"A" PANEL LENGTH								
48TFF/TFE004	460	209	34	15.4	47	21.3	140	63.5	105	47.6	159	72.1	56	25.4	1'-10 3/8"	[568.0]
48TFF/TFE/TFD005	470	213		142	64.4	106	48.1	162	73.6	48.1	162	73.6	65	29.2	1'-10 3/8"	[568.0]
48TFF/TFE/TFD006	490	222		150	68.0	115	52.2	160	72.6	52.2	160	72.6	65	29.2	1'-0 3/8"	[315.0]
48TFF/TFE/TFD007	555	256		165	74.8	136	61.7	200	90.7	61.7	200	90.7	64	29.0	1'-0 3/8"	[315.0]

REAR: CONDENSER COIL, COMPRESSOR ACCESS COVER, ECONOMIZER HOOD, RETURN-AIR OPENING VERTICAL, SUPPLY-AIR OPENING VERTICAL, ALT. CONDENSATE DRAIN OPENING IN BASEPANEL, EVAPORATOR COIL, FURNACE, BURNER ACCESS PANEL, CONTROL BOX, BURNER ACCESS PANEL, INDOOR FAN MOTOR & BLOWER ACCESS PANEL, RETURN-AIR OPENING ZONAL, SUPPLY-AIR OPENING ZONAL, HOOD FILTER, FILTER ACCESS PANEL (DISPOSABLE FILTERS), W/ POWER EXHAUST, ECONOMIZER, HOOD FILTER, OUTSIDE AIR, RETURN AIR, SUPPLY AIR, OUTSIDE OF PANEL, RETURN AIR, E STD. CONDENSATE DRAIN.

FRONT: ECONOMIZER HOOD, RETURN-AIR OPENING VERTICAL, SUPPLY-AIR OPENING VERTICAL, ALT. CONDENSATE DRAIN OPENING IN BASEPANEL, EVAPORATOR COIL, FURNACE, BURNER ACCESS PANEL, CONTROL BOX, BURNER ACCESS PANEL, INDOOR FAN MOTOR & BLOWER ACCESS PANEL, RETURN-AIR OPENING ZONAL, SUPPLY-AIR OPENING ZONAL, HOOD FILTER, FILTER ACCESS PANEL (DISPOSABLE FILTERS), W/ POWER EXHAUST, ECONOMIZER, HOOD FILTER, OUTSIDE AIR, RETURN AIR, SUPPLY AIR, OUTSIDE OF PANEL, RETURN AIR, E STD. CONDENSATE DRAIN.

LEFT SIDE: CONDENSER COIL, BOTTOM OF UNIT, FLUE HOOD, CONTROL BOX, BURNER ACCESS PANEL, INDOOR FAN MOTOR & BLOWER ACCESS PANEL, RETURN-AIR OPENING ZONAL, SUPPLY-AIR OPENING ZONAL, HOOD FILTER, FILTER ACCESS PANEL (DISPOSABLE FILTERS), W/ POWER EXHAUST, ECONOMIZER, HOOD FILTER, OUTSIDE AIR, RETURN AIR, SUPPLY AIR, OUTSIDE OF PANEL, RETURN AIR, E STD. CONDENSATE DRAIN.

RIGHT SIDE: ECONOMIZER, HOOD FILTER, OUTSIDE AIR, RETURN AIR, SUPPLY AIR, OUTSIDE OF PANEL, RETURN AIR, E STD. CONDENSATE DRAIN.

NOTES:

- DIMENSIONS IN [ ] ARE IN MILLIMETERS.
- CENTER OF GRAVITY.
- DIRECTION OF AIR FLOW.
- ON VERTICAL DISCHARGE UNITS, DUCTWORK TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY. FOR HORIZONTAL DISCHARGE UNITS FIELD SUPPLIED FLANGES SHOULD BE ATTACHED TO HORIZONTAL DISCHARGE OPENINGS, AND ALL DUCTWORK SHOULD BE ATTACHED TO THE FLANGES.
- MINIMUM CLEARANCE (LOCAL CODES OR JURISDICTION MAY PREVAIL):
  - UNIT, FLUE SIDE AND COMBUSTIBLE SURFACES, BETWEEN UNIT AND UNGRAUNDED SURFACES, CONTROL BOX SURFACES (WHEN NOT USING CURB), 0 INCHES.
  - BOTTOM OF UNIT TO COMBUSTIBLE SURFACES (WHEN NOT USING CURB), 1 INCH.
  - CONDENSER COIL, FOR PROPER AIR FLOW, 36 INCHES CLEARANCE FROM THE TOP OF THE UNIT. THE SIDE GETTING THE GREASE TRAP CLEARANCE IS 60 INCHES TO ASSURE PROPER CONDENSER FAN OPERATION.
  - OVERHEAD, 60 INCHES TO ASSURE PROPER CONDENSER FAN OPERATION.
  - BETWEEN UNITS, CONTROL BOX SIDE, 42 IN. PER NEC.
  - BETWEEN UNIT AND UNGRAUNDED SURFACES, CONTROL BOX SURFACES, 36 IN. PER NEC.
  - BETWEEN UNIT AND CONCRETE WALLS AND OTHER UNGRAUNDED SURFACES, CONTROL BOX SIDE, 42 IN. PER NEC.
  - GROUND SURFACES, CONTROL BOX SIDE, 42 IN. PER NEC.
  - HORIZONTAL SUPPLY AND RETURN END, 0 INCHES.
- WITH THE EXCEPTION OF THE CLEARANCE FOR THE CONDENSER COIL AND COMBUSTIBLE SIDE AS SHOWN IN NOTE #5, 0 CLEARANCE.
- UNITS MAY BE INSTALLED ON COMBUSTIBLE FLOORS MADE FROM MOOD OR CLASS A, B, OR C ROOF COVERING MATERIAL IF SET ON BASEPANEL.
- THE BOTTOM OF THE BASE RAIL.

CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

CERTIFIED DIMENSION PRINT

UNITED TECHNOLOGIES CARRIER

P O BOX 4898 SYRACUSE N. Y. 13221

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DATE: 12/11/2001

SUPERSEDES: 12/05/2001 REV F

48HJF/HJE/HJD008, 009, 012; 48HJE/HJD014; 48TMF/TME/TMD008 & 012  
SINGLE ZONE ELECTRIC COOLING WITH GAS HEAT

50HJ501143

REVISIONS OF THESE DRAWINGS OR DOCUMENTS ARE TO BE INDICATED BY A REVISION SYMBOL AND DOES NOT CONSTITUTE PART PERFORMANCE OR ACCEPTANCE OF CONTRACT

UNIT	STD. UNIT WEIGHT LBS., KG.	DURABLE/ECON WEIGHT LBS., KG.	ECONOMIZER WEIGHT LBS., KG.	CORNER WEIGHT (A) LBS., KG.	CORNER WEIGHT (B) LBS., KG.	CORNER WEIGHT (C) LBS., KG.	CORNER WEIGHT (D) LBS., KG.	"H" FT. - IN., MM	"J" FT. - IN., MM	"K" FT. - IN., MM	"L" FT. - IN., MM							
48HJE/HJE/HJD008	870	395	44	20	62	28	189	86	239	109	280	129	2'-0" 7/8"	3'-5" 5/16"	2'-9" 11/16"	856	2'-2" 7/16"	672
48HJF/HJE/HJD009	880	399	44	20	62	28	191	87	242	110	284	129	1'-2" 7/8"	3'-5" 5/16"	2'-9" 11/16"	856	2'-2" 7/16"	672
48HJF/HJE/HJD012	1035	469	225	102	192	87	285	129	333	151	333	151	1'-2" 7/8"	4'-1" 5/16"	3'-9" 3/8"	924	2'-10" 7/16"	875
48HJE/HJD014	1050	476	228	103	195	88	289	131	338	153	338	153	1'-2" 7/8"	4'-1" 5/16"	3'-9" 3/8"	924	2'-10" 7/16"	875

NOTES:

- DIMENSIONS IN ( ) ARE IN MILLIMETERS.
- CENTER OF GRAVITY.
- DIRECTION OF AIR FLOW.
- ON VERTICAL DISCHARGE UNITS, DUCTWORK TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY. FOR HORIZONTAL DISCHARGE UNITS, DUCTWORK TO BE ATTACHED TO THE SIDE OF THE UNIT. ALL HORIZONTAL DISCHARGE OPENINGS, AND ALL DUCTWORK SHOULD BE ATTACHED TO THE FLANGES.
- MINIMUM CLEARANCE (LOCAL CODES OR JURISDICTION MAY PREVAIL):
  - BETWEEN UNIT, FLUE SIDE AND COMBUSTIBLE SURFACES, (WHEN NOT USING CURB)
  - BETWEEN UNIT, FLUE SIDE AND COMBUSTIBLE SURFACES, (WHEN NOT USING CURB)
  - BOTTOM OF UNIT TO COMBUSTIBLE SURFACES (WHEN NOT USING CURB)
  - 1 INCH
  - BOTTOM OF BASE RAIL TO COMBUSTIBLE SURFACES (WHEN NOT USING CONDENSER COIL)
  - CONDENSER COIL: FOR PROPER AIR FLOW, 36 INCHES CLEARANCE TO COMBUSTIBLE SURFACES
  - ONE SIDE, 12 INCHES TO THE OTHER, THE SIDE GETTING THE OPERATIONAL CLEARANCE IS OF OPERATIONAL CLEARANCE
  - OPERATIONAL CLEARANCE IS OF OPERATIONAL CLEARANCE TO ASSURE PROPER CONDENSER FAN OPERATION.
  - MINIMUM CLEARANCE TO ASSURE PROPER CONDENSER FAN OPERATION.
  - BETWEEN UNITS, CONTROL BOX SIDE, 42 IN. PER NEC.
  - BETWEEN UNITS, CONTROL BOX SIDE, 42 IN. PER NEC.
  - BETWEEN UNIT AND BLOCK OR CONCRETE WALLS AND OTHER COMBUSTIBLE SURFACES, CONTROL BOX SIDE, 42 IN. PER NEC.
  - GROUND SURFACES, CONTROL BOX SIDE, 42 IN. PER NEC.
  - HORIZONTAL SUPPLY AND RETURN END, 0 INCHES.
- WITH AN EXCEPTION OF THE CLEARANCE FOR THE CONDENSER UNIT AND ACCESSORY ROOF CURB, ALL CLEARANCES REQUIRE NO REMOVABLE FENCE OR BARRICADE REQUIREMENTS, NO CLEARANCE.
- UNITS MAY BE INSTALLED ON COMBUSTIBLE FLOORS MADE FROM WOOD OR CLASS A, B, OR C ROOF COVERING MATERIAL IF SET ON BASE RAIL.
- THE VERTICAL CENTER OF GRAVITY IS 1'-7" (483) FOR 008 UNITS AND 1'-11" (330) FOR 009, 012, 014 UNITS UP FROM THE BOTTOM OF THE BASE RAIL.

CONNECTION SIZES

A	1/2" DIA. (51) FIELD POWER SUPPLY HOLE
B	1/2" DIA. (51) FIELD POWER SUPPLY KNOCK-OUT
C	3/4" DIA. (44) CHARGING PORT HOLE
D	7/8" DIA. (23) FIELD CONTROL WIRING HOLE
E	3/4" DIA. (44) CONDENSATE DRAIN
F	3/4" - 1/4" NPT GAS CONN. 48HJF/HJD008, 009, 012
G	3/4" - 1/4" NPT GAS CONN. 48HJF/HJD014, 48HJF/HJE012, 48HJE/HJE/HJD014
H	1/2" DIA. (51) POWER SUPPLY KNOCK-OUT

REAR: Shows condenser coil, evaporator, and optional economizer hood. Dimensions include 3'-6 15/16" [1091] for the condenser coil and 2'-11 1/2" [902] for the economizer hood.

LEFT SIDE: Shows the condenser coil, evaporator, and control panel. Dimensions include 4'-9 3/4" [1487] for the condenser coil and 0'-9 7/8" [251.4] for the evaporator.

FRONT: Shows the control panel, burner, and fan. Dimensions include 7'-3 3/8" [2219] for the total height and 0'-0 3/8" [101] for the control panel height.

RIGHT SIDE: Shows the economizer and return air opening. Dimensions include 1'-8 3/8" [518] for the economizer and 0'-2 9/16" [65.4] for the return air opening.

BOTTOM POWER CHART

THESE HOLES REQ'D FOR USE WITH ACCESSORY PACKAGES - CRBTMPR002A00, 4A00 (1/2", 1-1/4") OR CRBTMPR003A00 (1/2", 3/4")

THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)
3/4"	2W	7/8" (26.4)
1/2"	POWER*	1 3/4" (44.4)
1/4"	POWER**	1 3/4" (44.4)
(003) 1/2" FPT	GAS	1 1/4" (31.8)
(004) 3/4" FPT	GAS	1 5/8" (41.3)


\* SELECT THE CORRECT WIRE SIZE FOR POLARITY, DEPENDING ON WIRE SIZE.



CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

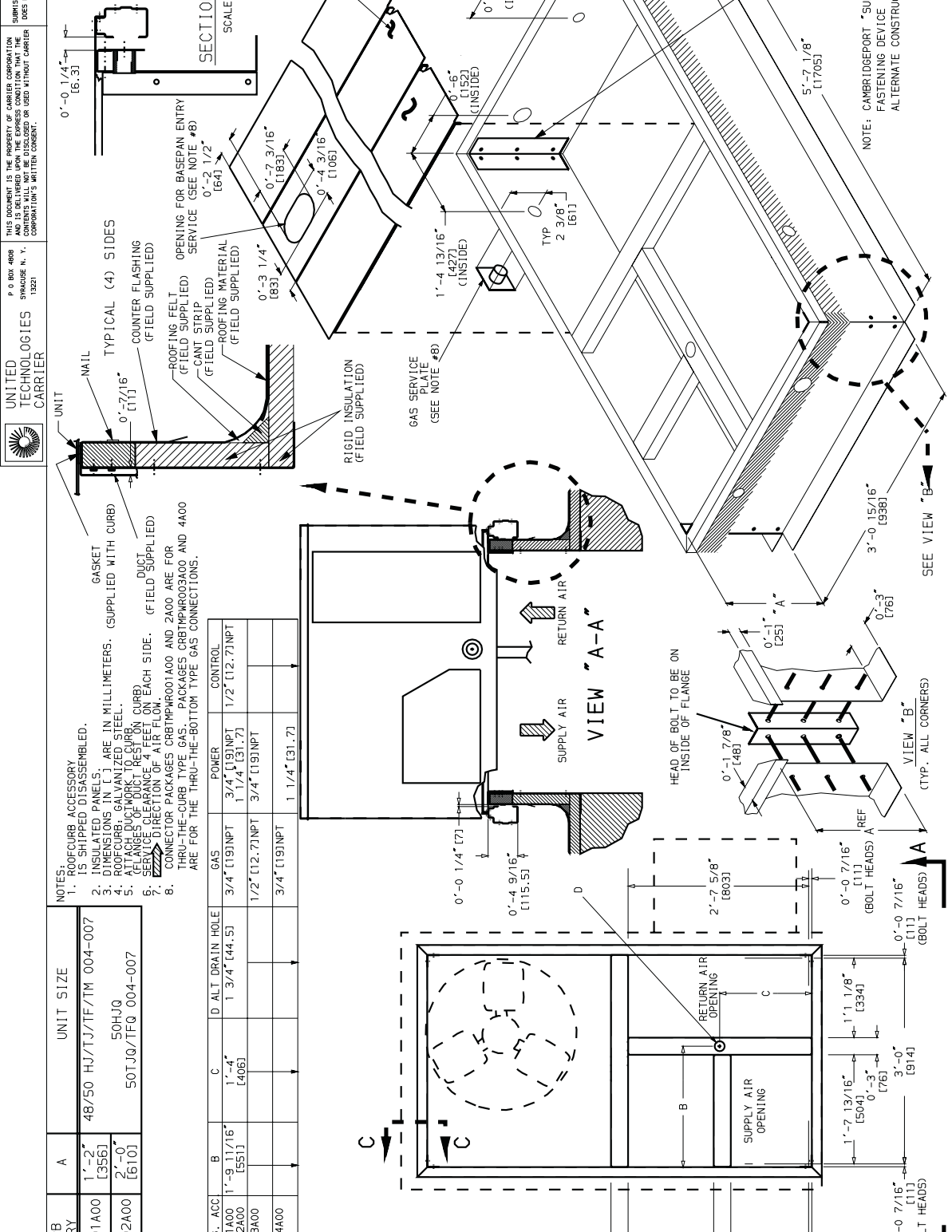
**CERTIFIED ROOF CURB DIMENSION PRINT**

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**NOTES:**

1. ROOFCURB ACCESSORY IS SHIPPED DISASSEMBLED.
2. DIMENSIONS IN [ ] ARE IN MILLIMETERS. (SUPPLIED WITH CURB)
3. ROOFCURB: GALVANIZED STEEL.
4. ALL AIR DUCT WORK TO CURB (CURB)
5. SERVICE CLEARANCE 3 FEET ON EACH SIDE. (FIELD SUPPLIED)
6. DUCT CONNECTIONS TO CURB SHALL BE MADE ON THE TOP SIDE.
7. CONNECTOR PACKAGES CRBTMPR001A00 AND 2A00 ARE FOR THRU-THE-CURB TYPE GAS. PACKAGES CRBTMPR003A00 AND 4A00 ARE FOR THE THRU-THE-BOTTOM TYPE GAS CONNECTIONS.



**SECTION "C-C"**  
SCALE 1:4

**VIEW "A-A"**

**VIEW "B-B"**  
(TYP. ALL CORNERS)

**VIEW "C-C"**  
SCALE 1:4

CONNECTOR PKG. ACC.	A	B	C	D	ALT DRAIN HOLE	GAS	POWER	CONTROL
CRBTMPR001A00	1'-9 1/16" [351]	1'-4" [406]	1'-4" [406]	1 3/4" [44.5]	3/4" [19.1NPT]	3/4" [19.1NPT]	3/4" [19.1NPT]	1/2" [12.7INPT]
CRBTMPR002A00	2'-0" [610]	1'-4" [406]	1'-4" [406]	1 3/4" [44.5]	1/2" [12.7INPT]	1/2" [12.7INPT]	3/4" [19.1NPT]	1/2" [12.7INPT]
CRBTMPR003A00	3'-0" [914]	1'-4" [406]	1'-4" [406]	1 3/4" [44.5]	3/4" [19.1NPT]	3/4" [19.1NPT]	3/4" [19.1NPT]	1/2" [12.7INPT]
CRBTMPR004A00	3'-0" [914]	1'-4" [406]	1'-4" [406]	1 3/4" [44.5]	3/4" [19.1NPT]	3/4" [19.1NPT]	3/4" [19.1NPT]	1/2" [12.7INPT]

# CERTIFIED ROOF CURB DIMENSION PRINT

P O BOX 4698  
SYRACUSE N. Y.  
13221

UNITED TECHNOLOGIES  
CARRIER

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DATE: 11/29/2001

SUPERSEDES: 10/09/2000 REV R

48 HJ/TJ/TF/TM 008-014, 50 HJ/TJ/TF/TM 008-014  
50HJQ008,012, 50TJQ008-012, 50TFQ008-012 ROOF CURB

50DK501178

REV 5

**NOTES:**

1. ROOFCURB ACCESSORY IS SHIPPED DISASSEMBLED.
2. INSULATED PANELS: 1" THK. POLYURETHANE FOAM, 1-3/4" DENSITY.
3. DIMENSIONS IN [ ] ARE IN MILLIMETERS.
4. ROOFCURB: 16 GAGE STEEL.
5. ATTACH DUCTWORK TO CURB. (FLANGES OF DUCT REST ON CURB)
6. SEAL EACH JOINT ON EACH SIDE.
7. DIRECTION OF AIR FLOW.
8. CONNECTOR PACKAGES CRBTMPR001A00 AND 2A00 ARE FOR THRU-THE-CURB GAS TYPE. PACKAGES CRBTMPR003A00 AND 4A00 ARE FOR THE THRU-THE-BOTTOM TYPE GAS CONNECTIONS.

SECTION "C-C" SCALE 1:4

NOTE: CAMBRIDGEPORT "SURE-LOCK" CORNER FASTENING DEVICE IS ACCEPTABLE ALTERNATE CONSTRUCTION.

CONNECTOR PKG. ACC.	B	C	D. ALT. DRAIN HOLE	GAS	POWER	CONTROL
CRRF CURB003A00	2'-8 7/16" [8271]	1'-10 15/16" [5893]	1 3/4" [44.5]	3/4" [19.1NPT]	3/4" [19.1NPT]	1/2" [12.7NPT]
CRRF CURB002A00	2'-0" [508]	1'-0" [254]	1 1/4" [31.7]	1/2" [12.7NPT]	1/4" [6.3]	1/2" [12.7NPT]
CRBTMPR003A00	2'-0" [508]	1'-0" [254]	1 1/4" [31.7]	3/4" [19.1NPT]	3/4" [19.1NPT]	1/2" [12.7NPT]
CRBTMPR004A00	2'-0" [508]	1'-0" [254]	1 1/4" [31.7]	3/4" [19.1NPT]	1 1/4" [31.7]	1/2" [12.7NPT]