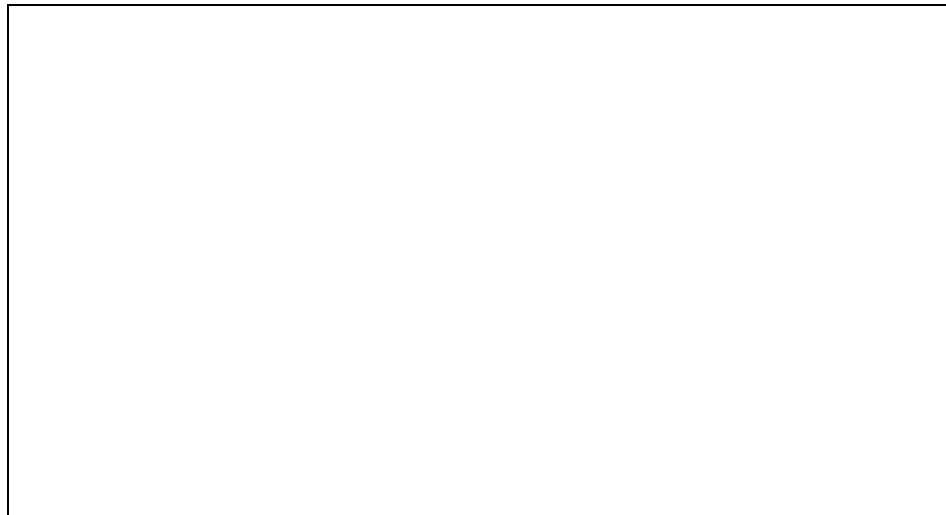




50TFF004-014

SINGLE-PACKAGE ELECTRIC COOLING UNITS WITH FIELD-INSTALLED ELECTRIC HEAT

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



Date:	Supersedes:	50TFF004-014 SINGLE-PACKAGE ELECTRIC COOLING UNITS WITH FIELD-INSTALLED ELECTRIC HEAT	50TFF	Rev.: -4SB
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, 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 two-position outside-air damper, roof curb, as well as many choices of field-installed electric heat. Refer to accessory chart below for full listing.

FEATURES

- Standard one-year full product warranty.
- Five-year protection plan for the motor-compressor.
- 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 (50TFF007 and 50TFF014).
- Each refrigerant circuit contains a filter drier to trap dirt and particles.
- Single compressor on 3 to 6 ton units.
- Dual compressors on 7 1/2 to 12 1/2 ton units.
- Two-speed direct drive evaporator fan on all units except size 007 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 entry capability.
- Evaporator and condenser coils constructed of aluminum fins mechanically bonded to seamless copper tubes.
- Single point electrical 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.
- 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 refrigerant flow to each circuit individually.
- Reliable accurate control circuit with color coded wires and easy accessible terminal board.
- Loss of charge, freeze protection, and high pressure switches standard.
- Cooling units with field-installed electric heat with accessory single-point electrical kit have single-point electrical power connection — UL approved.

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
 EER _____

HEATING

Heating Capacity
 kW _____
 Btuh _____

OPERATING WEIGHT _____ lb (unit) _____ lb (curb)

ELECTRICAL DATA

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

OPTIONS AND ACCESSORIES

FACTORY-INSTALLED OPTIONS

- EconoMiSer IV with Controller
- EconoMiSer2 with 4-20 mA Actuator Only (PremierLink™ or 3rd Party EMS System Control)
- Copper/Copper Coils — Evaporator, Condenser, Both
- Pre-Coated Condenser Coil
- E-Coat (Post-Coated) Condenser Coil
- Non-Fused Disconnect Switch (factory wired)
- 115-Volt Convenience Outlet (factory wired, load side)
- PremierLink Control
- 25% Manual Air Damper
- Alternate Motor and Drive (except 007 and 009 size)
- High-Static Motor (except size 014)
- Novar 3051 Control

FIELD-INSTALLED ACCESSORIES

- EconoMiSer IV with Controller
- EconoMiSer2 with 4-20 mA Actuator and No Microprocessor — Vertical or Horizontal
- 25% Open Two-Position Damper
- 25% Open Manual Air Damper
- 50% Open Manual Outdoor Air Damper
- 100% Open Two-Position Damper
- Outdoor Air/Return Air Temperature Sensor
- Outdoor Air/Return Air Enthalpy Sensor
- Roof Curb (14 or 24-in. Height)
- Thru-the-Bottom/Roof Curb Electrical Connection Kit
- Time Guard II Compressor Anti-Cycle Control
- Condenser Coil Hail Guard
- Condenser Coil Grille
- Room Temperature Sensor
- PremierLink Control
- CO₂ Sensor (IAQ Control)
- Power Exhaust
- Horizontal Power Exhaust Module (Single Fan)
- 20 F Motormaster® Low Ambient Control Kit
- Programmable Setback Thermostat
- Electrical Mechanical Thermostat and Subbase
- Indoor Fan/Filter Status Indicator
- Electric Resistance Heat Coils
- 62AQ Energy\$Recycler™ Mounting Kit
- 62AQ Energy\$Recycler Supply Air Blower
- 62AQ Energy\$Recycler 460-V Transformer
- 62AQ Energy\$Recycler 575-V Transformer
- Humidistat
- Light Commercial Thermidistat™ Device
- UV-C Lamps
- Other _____

BLANKET QUOTE CONTROLS

- 115-Volt Field Powered GFI Convenience Outlet (line side)
- 115-Volt GFI Convenience Outlet (field powered)
- E-Coated Aluminum/Copper Condenser and Evaporator Coils
- Fused Disconnect
- Hinged Access Panels
- Lockout of High Fire Stage for Heating
- Low Ambient Controller (Motormaster® I)
- Smoke Detector — Return Air
- Smoke Detector — Return and Supply Air
- Smoke Detector — Supply Air
- Split Power (transfer switch NOT included)
- UV-C Lamps (installed and powered with door interlock switch and disconnect switch)

CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

CERTIFIED DIMENSION PRINT

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P O BOX 4988
SYRACUSE N. Y. 13221

DATE: 11/14/2005
SUPERSEDES: 05/19/2003 REV E

50T_004,005,006,007
SINGLE ZONE ELECTRIC COOLING

50DK508695

CONNECTION SIZES

A	1 3/8" DIA.	[55]	FIELD POWER SUPPLY HOLE
B	2" DIA.	[51]	POWER SUPPLY KNOCK-OUT
C	2 1/2" DIA.	[64]	POWER SUPPLY KNOCK-OUT
D	7/8" DIA.	[22]	FIELD CONTROL WIRING HOLE
E	3/4"-1 1/4"	NPT	CONDENSATE DRAIN

BOTTOM POWER CHART: USE THESE ACCESSORIES FOR PACKAGES -

THREADED WIRE	REQ'D HOLE SIZES (MAX.)
1/2"	7/8" [22.2]
3/4" (001)	1 1/8" [28.4]
1 1/4" (002)	1 3/4" [44.4]

* - SELECT EITHER 3/4" OR 1 1/4" FOR POWER, DEPENDING ON WIRE SIZE.

REAR

LEFT SIDE

FRONT

RIGHT SIDE

VIEW S-S

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 CHANGES SHOULD BE ATTACHED TO BE ATTACHED TO THE FLANGES.
- MINIMUM CLEARANCE (LOCAL CODES OR JURISDICTION MAY PREVAIL):
 - BOTTOM OF UNIT TO COMBUSTIBLE SURFACES (WHEN NOT USING CURB) 1 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 GREATER CLEARANCE IS OP TIONAL.
 - OPERATION: 60 INCHES TO ASSURE PROPER CONDENSER FAN OPERATION.
 - BETWEEN UNIT AND UNGROUNDED SURFACES, CONTROL BOX SIDE, 36 IN. PER NEC.
 - BETWEEN UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES, CONTROL BOX SIDE, 42 IN. PER NEC.
 - HORIZONTAL SUPPLY AND RETURN END, 0 INCHES WHEN THE ALTERNATE CONDENSATE DRAIN IS USED.
 - WITH THE EXCEPTION OF THE CLEARANCE FOR THE CONDENSER COIL AS STATED IN NOTE #5a, b, AND c, A 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 GRAVITY IS 1'-6" [457] UP FROM THE BOTTOM OF THE BASE RAIL.

CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

CERTIFIED ROOF CURB DIMENSION PRINT

UNITED TECHNOLOGIES CARRIER

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SPRINGHOUSE, N.Y. 13221

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DATE: 04/23/03

SUPERSEDES: 11/29/2001 REV 5

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

50DK501178

REV T

NOTES:

- ROOFCURB ACCESSORY IS SHIPPED DISASSEMBLED.
- INSULATED PANELS: 1" THK. POLYURETHANE FOAM, 1-3/4" DENSITY.
- DIMENSIONS IN [] ARE IN MILLIMETERS.
- ROOFCURB: 16 GAGE STEEL.
- ATTACH DUCTWORK TO CURB. (FLANGES OF DUCT REST ON CURB)
- SERVICE CLEARANCE 4" ON EACH SIDE.
- DIAGONAL HATCHING INDICATES DIRECTION OF AIR FLOW.
- CONNECTOR PACKAGES CRBTMPR001A01 AND 2A01 ARE FOR THRU-THE-CURB GAS TYPE. PACKAGES CRBTMPR003A01 AND 4A01 ARE FOR THE THRU-THE-BOTTOM TYPE GAS CONNECTIONS.

CONNECTOR PKG., ACC.	B	C	D ALT DRAIN HOLE	GAS	POWER	CONTROL	ACCESSORY PWR
CRBTMPR001A01	2'-8 7/16" [827]	1'-10 15/16" [583]	1 3/4" [44.5]	3/4" [19.1]	3/4" [19.1]	1/2" [12.7]	1/2" [12.7]
CRBTMPR002A01				1/2" [12.7]	3/4" [19.1]		
CRBTMPR003A01				3/4" [19.1]	1 1/4" [31.7]		

SECTION "C-C"
SCALE 1:4

VIEW "A-A"

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

VIEW "C-C"

VIEW "D-D"

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

