

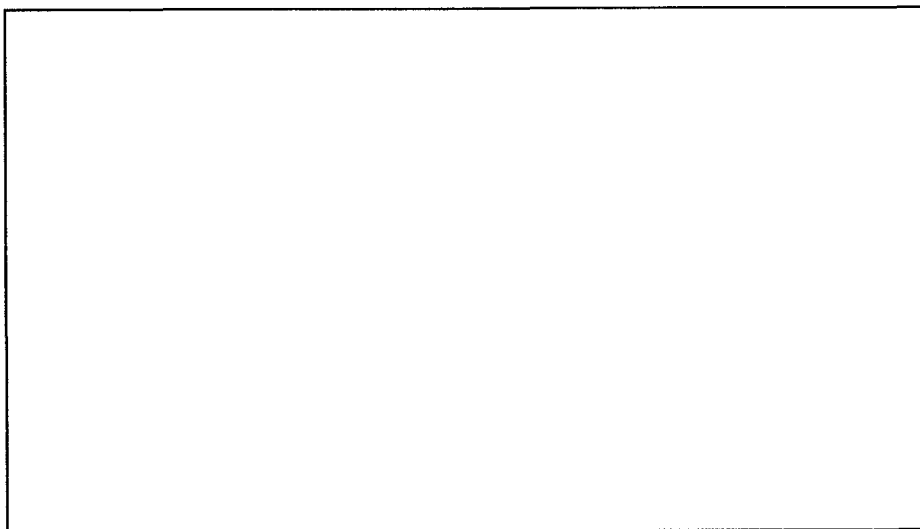


48TJ-13SB

**48TJD/TJE/TJF008, 009, 012
and 48TJD/TJE014**

**COMBINATION
HEATING/COOLING UNITS**

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



Date:	Supersedes:	48TJD/TJE/TJF008, 009, 012 and 48TJD/TJE014 COMBINATION HEATING/COOLING UNITS	48TJD/TJE/TJF	Rev.: -13SB
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O. #	CARRIER #	
UNIT NUMBER:		MODEL NUMBER:		
UNIT DESIGNATION:				
PERFORMANCE DATA CERTIFIED BY:				DATE:



DESCRIPTION

48TJD/TJE/TJF 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.
- Low outdoor temperature cooling operation to 25° F (-4°C) as standard.
- Units are tested and certified by ARI and certified by UL and CUL. 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.
- Refrigerant circuit contains an in-line strainer to trap dirt and particles.
- Adjustable belt drive fans are standard on all sizes.
- Non-corrosive condensate pan with self-draining sloping design with both bottom and side drain connections.
- Thru-the-bottom power 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.
- 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 combustion system with Hall effect sensor to detect proper operation of induced draft motor.
- All units have two-stage cooling and 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.
- Acutrol™ 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.

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 _____

EER

HEATING

Input: Stage 1 _____ Total _____ Btuh
 Output: Stage 1 _____ Total _____ Btuh
 AFUE _____ %
 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) _____

OPTIONS & ACCESSORIES

Factory Installed

- ☐ Economizer - Fully Modulating
- ☐ Copper/Copper Coils - Evaporator, Condenser, Both
- ☐ Apollo Communicating Control
- ☐ Controls Upgrade Package
- ☐ Condenser Coil Grille
- ☐ 50% Manual Air Damper

Field Installed

- ☐ Economizer - Fully Modulating
- ☐ 25% Open Two-Position 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
- ☐ Condenser Coil Protector
- ☐ Condenser Coil Salt Spray Protector
- ☐ Economizer/Power Exhaust

- ☐ 50% Open Manual Air Damper
- ☐ -20°F Motormaster® Low Ambient Control Kit
- ☐ Remote Control Panel
- ☐ Programmable Set-Back Thermostat
- ☐ Electrical Mechanical Thermostat & Subbase
- ☐ Liquid Propane (LP) Gas Kit
- ☐ Low NOx Kit
- ☐ Flue Hood Protector Kit
- ☐ Flue Discharge Deflector
- ☐ Indoor Fan/Filter Status Indicator
- ☐ Controls Upgrade Package
- ☐ Other _____

UNITED
TECHNOLOGIES
CARRIER

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UNIT	STD. UNIT WEIGHT		ECONOMIZER WEIGHT		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		"H"		"J"		"K"	
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	FT.-IN.	MM	FT.-IN.	MM	FT.-IN.	MM
48TJF/TJE/TJDO08	870	395	44	20	189	86	161	73	239	109	1'-2 7/8"	378	3'-5 5/16"	1050	2'-9 11/16"	856
48TJF/TJE/TJDO09	880	399			191	87	163	74	242	110	1'-2 7/8"	378	3'-5 5/16"	1050	2'-9 11/16"	856
48TJF/TJE/TJDO12	1035	469			225	102	192	87	285	129	2'-5 7/8"	759	4'-1 3/8"	1253	3'-0 3/8"	924
48TJE/TJDO14	1050	476			228	103	195	88	289	131	1'-2 7/8"	378	4'-1 5/16"	1253	3'-0 3/8"	924

NOTES:
1. DIMENSIONS IN [] ARE IN MILLIMETERS.

2. **CENTER OF GRAVITY.**

3. DIRECTION OF AIR FLOW.

4. 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.

5. MINIMUM CLEARANCE (LOCAL CODES OR JURISDICTION MAY

a. BETWEEN UNIT, FLUE SIDE AND COMBUSTIBLE SURFACES,
18 INCHES

b. 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.

c. CONDENSER COIL, FOR PROPER AIR FLOW, 36 INCHES ONE SIDE, 12 INCHES THE OTHER. THE SIDE GETTING THE MOST AIR FLOW IS CRITICAL TO THE SYSTEM.

d. GREATER CLEARANCE IS OPTIONAL.
OVERHEAD, 60 INCHES TO ASSURE PROPER CONDENSER FAN OPERATION

e. BETWEEN UNITS, CONTROL BOX SIDE, 42 IN. PER NEC.

9. SIDE, 36 IN. PER NEC.
BETWEEN UNIT AND BLOCK OR CONCRETE WALLS AND OTHER

h. HORIZONTAL SUPPLY AND RETURN END, 0 INCHES.

6. 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.

7. UNITS MAY BE INSTALLED ON COMBUSTIBLE FLOORS MADE FROM WOOD OR CLASS A OR B ROOF COVERING MATERIAL

FROM WOOD OR GLASS A, B, OR C ROOF COVERING MATERIAL
IF SET ON BASE RAIL.

8. THE VERTICAL CENTER OF GRAVITY IS 1'-7" [483] FOR 008 AND 009, 1'-11" [584] FOR 012 AND 014. H²-H²

UP FROM THE BOTTOM OF THE BASE RAIL.

Age Group	Percentage of Respondents
18-29	~65%
30-49	~75%
50-69	~85%
70+	~90%

1

CONDENSER COIL

Year	United States (%)	Soviet Union (%)
1950	55	55
1955	60	60
1960	63	65
1965	65	68
1970	62	70
1975	58	72
1980	56	74
1985	55	75
1990	55	75

BOTTOM OF UNIT

Figure 1 is a schematic diagram of a vertical pile foundation. The pile is represented by a vertical line with a diameter of 12 inches. A horizontal line indicates the "BOTTOM OF" the pile. A vertical dimension line to the right of the pile shows a distance of 0'-4 9/16" from the bottom of the pile to a specific point of interest.

BASE RAIL 4' - 5 7/8" [1369]

0-29/16-84
[65] Typ
LEFT SIDE

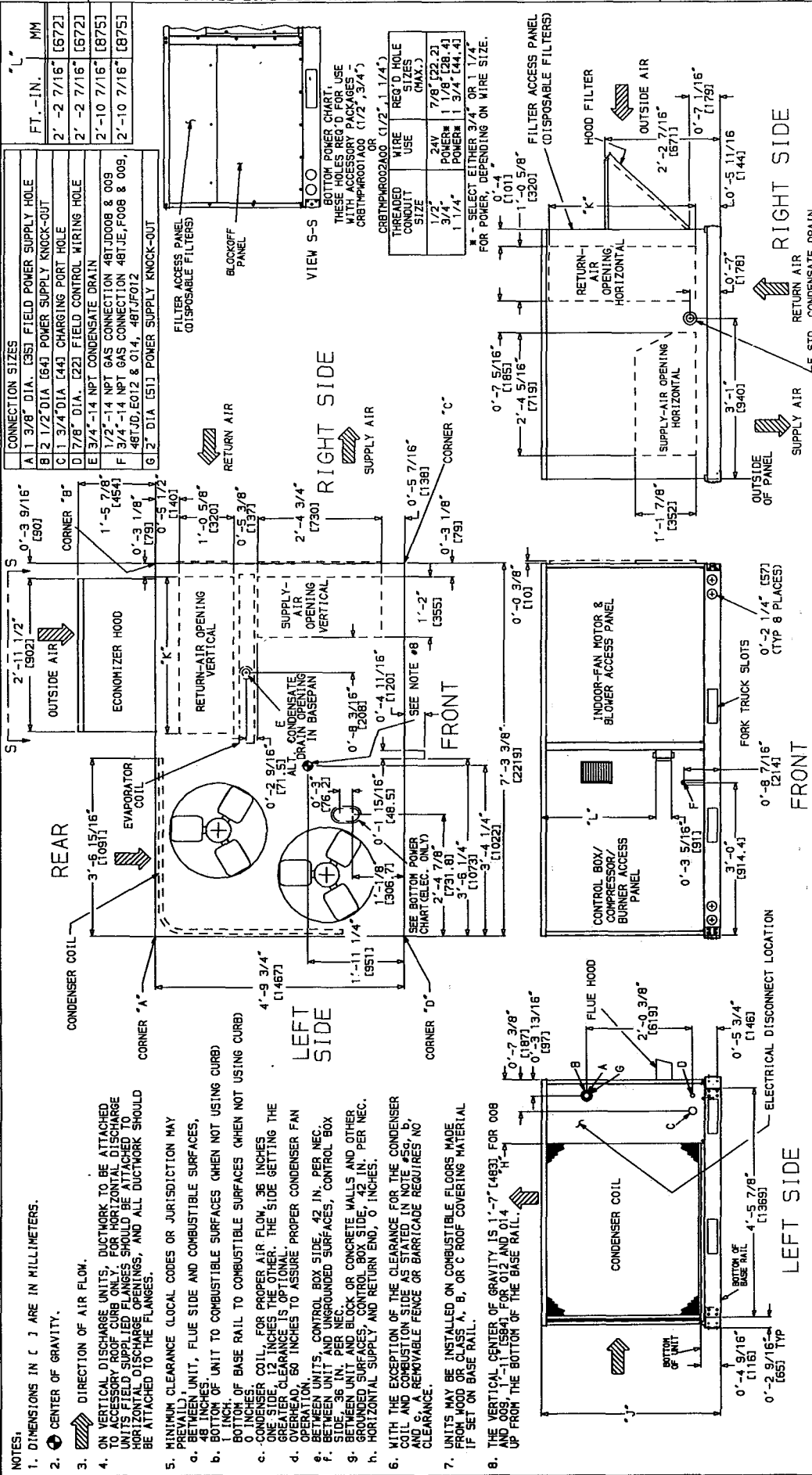
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48TJF/TJE/TJD008,009,012 & 48TJE/TJD014
SINGLE ZONE ELECTRIC COOLING WITH GAS HEAT

50DK507195

THE



CERTIFIED ROOF CURB DIMENSION PRINT

