

Split System Heat Pump 2TWB0024A1000B

2TWB0024-SF-1A

Library	Service Literature	
Product Section		Unitary
Product	Split System Heat	Pump
Model		2TWB
Literature Type	Service Facts	
Sequence		2
Date	November 2005	
File No.	SSP-SVF01A-EN	11/05
Supersedes	SV-UN-S/SP-2TWB0024-SF-1	11/02

<u>IMPORTANT</u> — This document contains a wiring diagram, a parts list, and service information. This is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

WARNING: HAZARDOUS VOLTAGE - DISCONNECT POWER and DISCHARGE CAPACITORS BEFORE SERVICING

PRODUCT SPECIFICATIONS

OUTDOOR UNIT \bigcirc 2TWB0024A1000BPOWER CONNS. — V/PH/HZ \bigcirc 200/230/1/60MIN. BRCH. CIR. AMPACITY15BR. CIR. }MAX. (AMPS)PROT. RTG. }MIN. (AMPS)2020COMPRESSORCLIMATUFF [®] NO. USED - NO. SPEEDS1 - 1VOLTS/PH/HZ200/230/1/60R.L. AMPS \bigcirc - L.R. AMPS10.9 - 60FACTORY INSTALLEDSTART COMPONENTS \circledast START COMPONENTS \circledast NOINSULATION/SOUND BLANKETNOCOMPRESSOR HEATYESOUTDOOR FANPROPELLERDIA. (IN.) - NO. USED19 - 1TYPE DRIVE - NO. SPEEDSDIRECT - 1CFM @ 0.0 IN. W.G. \odot 2175NO. MOTORS - HP1 - 1/8MOTOR SPEED R.P.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COLL — TYPESPINE FINTMROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANT CONTROLEXPANSION VALVEREFRIGERANT.90OUTDOOR ORIFICE SIZE.957DIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.).177NET (LBS.)158		
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WEIGHT SHIPPING (LBS.) 177		
SHIPPING (LBS.) 177	CRATED (IN.)	30.1 x 26.7 x 30.2
NET (LBS.) 158		
	NET (LBS.)	158

THIS INFORMATION IS INTENDED FOR USE BY INDIVIDUALS POSSES-SING ADEQUATE BACKGROUNDS OF ELECTRICAL AND MECHANICAL EXPERIENCE. ANY ATTEMPT TO REPAIR A CENTRAL AIR CONDITION-ING PRODUCT MAY RESULT IN PERSONAL INJURY AND OR PROPERTY DAMAGE. THE MANUFACTURER OR SELLER CANNOT BE RESPONSIBLE FOR THE INTERPRETATION OF THIS INFORMATION, NOR CAN IT ASSUME ANY LIABILITY IN CONNECTION WITH ITS USE.

NOTICE: Trane has a policy of continuous product and product data improvement and it reserves the right to change design and specifications without notice.

TUBING INFORMATION Tubing Sizes Tubing Additional Suction Liquid Length Refrigerant 3/4" 5/16" 20' 2 oz. 3/4" 5/16" 30 7 oz. 3/4" 5/16" 40' 11 oz. 3/4" 5/16" 50 16 oz. 3/4" 5/16" 20 oz. 60

Tubing lengths in excess of eighty (80) feet see application software.

① Certified in accordance with the Air-Source Unitary Heat Pump Equipment certification program, which is based on ARI standard 210/240.

② Rated in accordance with ARI standard 270.

③ Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

④ Standard Air — Dry Coil — Outdoor

⑤ This value approximate. For more precise value see unit nameplate.

- Inear length 80 ft.; Max. lift Suction 60 ft.; Max lift Liquid 60 ft. For greater length consult refrigerant piping software Pub. No. 32-3312-0* (* denotes latest revision).
- ⑦ This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.
- In the second second

CONTAINS REFRIGERANT!

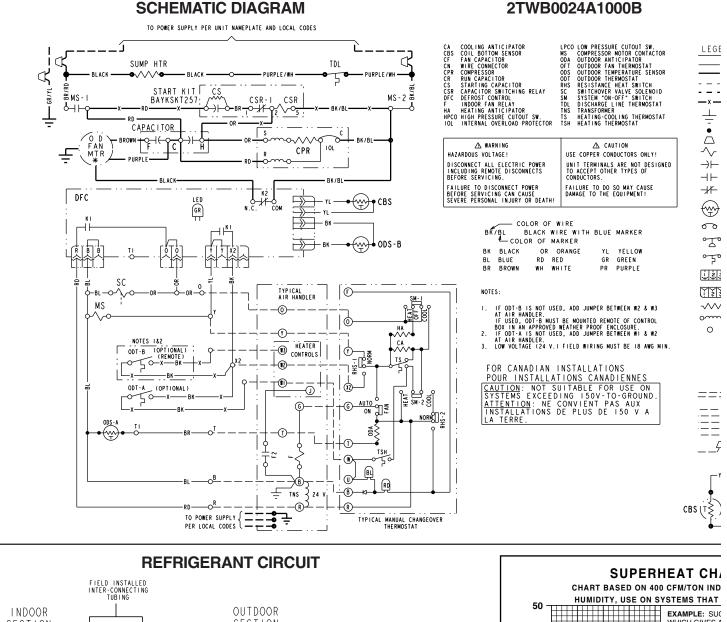
SYSTEM CONTAINS OIL AND REFRIGERANT UNDER HIGH PRESSURE. RECOVER REFRIGERANT TO RELIEVE PRESSURE BEFORE OPENING SYSTEM.

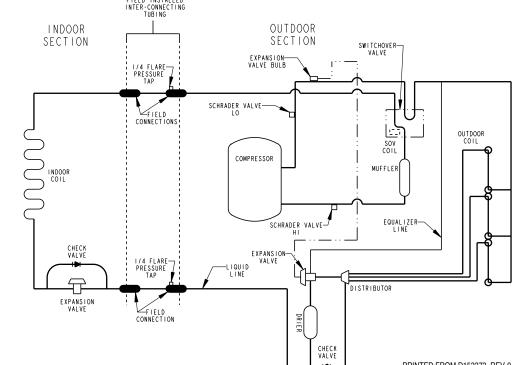
Failure to follow proper procedures can result in personal illness or injury or severe equipment damage.

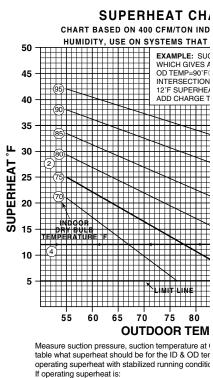
A CAUTION

RECONNECT ALL GROUNDING DEVICES. ALL PARTS OF THIS PRODUCT CAPABLE OF CONDUCTING ELECTRICAL CURRENT ARE GROUNDED. IF GROUNDING WIRES, SCREWS, STRAPS, CLIPS, NUTS OR WASHERS USED TO COMPLETE A PATH TO GROUND ARE REMOVED FOR SERVICE, THEY MUST BE RETURNED TO THEIR ORIGINAL POSITION AND PROPERLY FASTENED.

> Page E-946-000 P.I. 11/05





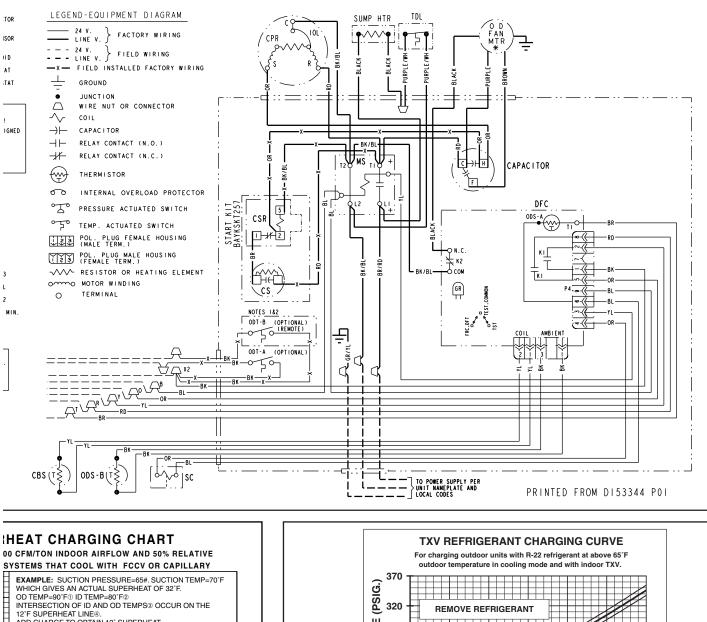


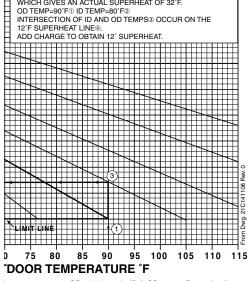
• within 5° chart value charge is OK

• more that 5° above chart value add refrigerant

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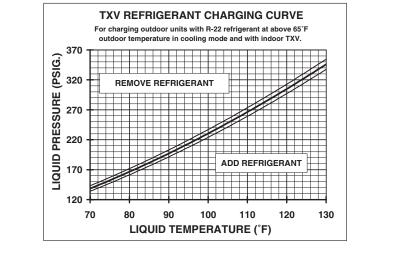
WIRING DIAGRAM





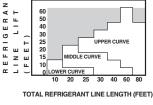
ion temperature at OD quick attach, ID & OD temps. Determine from for the ID & OD temp. Example indicates 12° superheat. Determine zed running conditions.

• OK • more than 5° below chart value remove refrigerant • add refrigerant • if below 5° limit line, **do not add refrigerant**



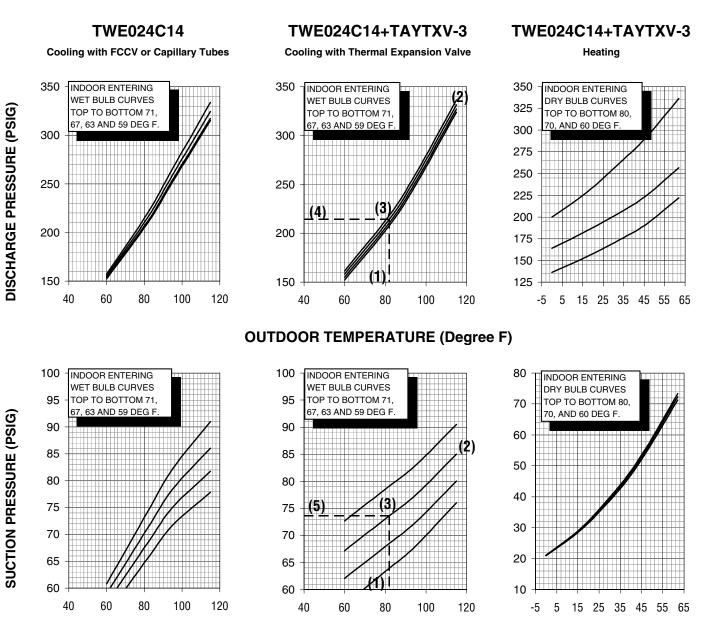
- 1. Measure Liquid Line Temperature and Refrigerant Pressure at service valves.
- Determine total refrigerant pipe length and height (lift) if indoor section is above the condenser. Plot the intersection of the two points on the Curve Selection Chart to determine which curve to use.
- 3. Plot the pressure and temperature on the TXV Charging Curve.
- If the lines cross above the curve remove refrigerant, if below curve add refrigerant.
- Whenever charge is removed or added, the system must be operated for a minimum 20 minutes to stabilize before additional measurements can be made.
- When system is correctly charged refer to System Performance Curves to verify charge and performance.





A150999P07 REV.0

PRESSURE CURVES FOR 2TWB0024A1000B



OUTDOOR TEMPERATURE (Degree F)

COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP IS ABOVE 65 DEG F.

TO CHECK COOLING PERFORMANCE, SELECT THE PROPER INDOOR CFM, ALLOW PRESSURES TO STABILIZE. MEASURE INDOOR WET BULB TEMPERATURE, OUTDOOR TEMPERATURE, DISCHARGE AND SUCTION PRESSURES. ON THE PLOTS LOCATE OUTDOOR TEMPERATURE (1); LOCATE INDOOR WET BULB (2); FIND INTERSECTION OF OD TEMP. & ID W.B. (3); READ DISCHARGE OR SUCTION PRESSURE IN LEFT COLUMN (4).

EXAMPLE: (1) OUTDOOR TEMP. 82 F.

- (2) INDOOR WET BULB 67 F.
- (3) AT INTERSECTION
- (4) DISCHARGE PRESSURE @ 800 CFM CFM IS 214 PSIG
- (5) SUCTION PRESSURE @ 800 CFM CFM IS 74 PSIG

INTERCONNECTING LINES GAS - 3/4" O.D. LIQUID - 5/16" O.D. ACTUAL: DISCHARGE PRESSURE SHOULD BE +/- 10 PSI OF CHART SUCTION PRESSURE SHOULD BE +/- 3 PSIG OF CHART