

## 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 <sup>®</sup> 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		
MIN. BRCH. CIR. AMPACITY15BR. CIR.MAX. (AMPS)25PROT. RTG.MIN. (AMPS)20COMPRESSORCLIMATUFF®NO. USED - NO. SPEEDS1 - 1VOLTS/PH/HZ200/230/1/60R.L. AMPS $©$ - 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. $\circledast$ 2175NO. MOTORS - HP1 - 1/8MOTOR SPEED R.P.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL - TYPESPINE FINTMROWS - F.P.I.1 - 24FACE AREA (SQ. FT.).9.72TUBE SIZE (IN.).3/8REFRIGERANTSNOLINE SIZE (IN.).3/8REFRIGERANT CONTROLEXPANSION VALVEREFRIGERANT.9LINE SIZE - IN. O.D. GAS (©).3/4LINE SIZE - IN. O.D. LIQ. (©).5/16FCCV.05/16RESTRICTOR ORIFICE SIZE.057DIMENSIONSH X W X DCRATED (IN.).30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.).177	OUTDOOR UNIT 12	2TWB0024A1000B
BR. CIR. PROT. RTG. MAX. (AMPS) 25   PROT. RTG. MIN. (AMPS) 20   COMPRESSOR CLIMATUFF®   NO. USED - NO. SPEEDS 1 - 1   VOLTS/PH/HZ 200/230/1/60   R.L. AMPS ⑦ - L.R. AMPS 10.9 - 60   FACTORY INSTALLED NO   START COMPONENTS ⑧ NO   INSULATION/SOUND BLANKET NO   COMPRESSOR HEAT YES   OUTDOOR FAN PROPELLER   DIA. (IN.) - NO. USED 19 - 1   TYPE DRIVE - NO. SPEEDS DIRECT - 1   CFM @ 0.0 IN. W.G. ④ 2175   NO. MOTORS - HP 1 - 1/8   MOTOR SPEED R.P.M. 1075   VOLTS/PH/HZ 200/230/1/60   F.L. AMPS .90   OUTDOOR COIL — TYPE SPINE FINTM   ROWS - F.P.I. 1 - 24   FACE AREA (SQ. FT.) .9.72   TUBE SIZE (IN.) 3/8   REFRIGERANT S1/6   FCCV YES   LINE SIZE - IN. O.D. LIQ. ⑥ .5/16   FCCV .057   DIMENSIONS H X W X D   CRATED (IN.	POWER CONNS V/PH/HZ 3	200/230/1/60
PROT. RTG. }MIN. (AMPS)20COMPRESSORCLIMATUFF®NO. USED - NO. SPEEDS1 - 1VOLTS/PH/HZ200/230/1/60R.L. AMPS $©$ - L.R. AMPS10.9 - 60FACTORY INSTALLEDSTART COMPONENTS $©$ START COMPONENTS $©$ NOINSULATION/SOUND BLANKETNOCOMPRESSOR HEATYESOUTDOOR FANPROPELLERDIA. (IN.) - NO. USED19 - 1TYPE DRIVE - NO. SPEEDSDIRECT - 1CFM @ 0.0 IN. W.G. $@$ 2175NO. MOTORS - HP1 - 1/8MOTOR SPEED R.P.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL — TYPESPINE FINTMROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANTEXPANSION VALVEREFRIGERANTYESLINE SIZE - IN. O.D. GAS $©$ 3/4LINE SIZE - IN. O.D. LIQ. $©$ 5/16FCCVRESTRICTOR ORIFICE SIZEDIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)SHIPPING (LBS.)177	MIN. BRCH. CIR. AMPACITY	15
COMPRESSORCLIMATUFF®NO. USED - NO. SPEEDS1 - 1VOLTS/PH/HZ200/230/1/60R.L. AMPS $©$ - L.R. AMPS10.9 - 60FACTORY INSTALLEDSTART COMPONENTS $©$ START COMPONENTS $©$ NOINSULATION/SOUND BLANKETNOCOMPRESSOR HEATYESOUTDOOR FANPROPELLERDIA. (IN.) - NO. USED19 - 1TYPE DRIVE - NO. SPEEDSDIRECT - 1CFM @ 0.0 IN. W.G. $@$ 2175NO. MOTORS - HP1 - 1/8MOTOR SPEED RP.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL - TYPESPINE FINTMROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANTYESLINE SIZE (IN.)3/8REFRIGERANTYESLINE SIZE - IN. O.D. GAS $©$ 3/4LINE SIZE - IN. O.D. LIQ. $©$ 5/16FCCVRESTRICTOR ORIFICE SIZEDIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)177	BR. CIR. ן MAX. (AMPS)	25
NO. USED - NO. SPEEDS1 - 1VOLTS/PH/HZ200/230/1/60R.L. AMPS ⑦ - L.R. AMPS10.9 - 60FACTORY INSTALLEDSTART COMPONENTS ⑧START COMPONENTS ⑨NOINSULATION/SOUND BLANKETNOCOMPRESSOR HEATYESOUTDOOR FANPROPELLERDIA. (IN.) - NO. USED19 - 1TYPE DRIVE - NO. SPEEDSDIRECT - 1CFM @ 0.0 IN. W.G. ⑨2175NO. MOTORS - HP1 - 1/8MOTOR SPEED R.P.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL - TYPESPINE FINTMROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANTEXPANSION VALVEREFRIGERANTYESLINE SIZE (IN.)3/4LINE SIZE - IN. O.D. LIQ. ⑨5/16FCCV7RESTRICTOR ORIFICE SIZE.057DIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)SHIPPING (LBS.)177	PROT. RTG. J MIN. (AMPS)	20
VOLTS/PH/HZ200/230/1/60R.L. AMPS $③$ - L.R. AMPS10.9 - 60FACTORY INSTALLEDNOSTART COMPONENTS $③$ NOINSULATION/SOUND BLANKETNOCOMPRESSOR HEATYESOUTDOOR FANPROPELLERDIA. (IN,) - NO. USED19 - 1TYPE DRIVE - NO. SPEEDSDIRECT - 1CFM @ 0.0 IN. W.G. ④2175NO. MOTORS - HP1 - 1/8MOTOR SPEED R.P.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL — TYPESPINE FIN™ROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANTEXPANSION VALVEREFRIGERANTYESLINE SIZE (IN.)3/4LINE SIZE - IN. O.D. GAS ⑥3/4LINE SIZE - IN. O.D. LIQ. ⑥5/16FCCVSTRRESTRICTOR ORIFICE SIZE.057DIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)177	COMPRESSOR	<b>CLIMATUFF®</b>
R.L. AMPS $\textcircled{O}$ - L.R. AMPS10.9 - 60FACTORY INSTALLED START COMPONENTS (a)NOINSULATION/SOUND BLANKETNOCOMPRESSOR HEATYESOUTDOOR FANPROPELLERDIA. (IN.) - NO. USED19 - 1TYPE DRIVE - NO. SPEEDSDIRECT - 1CFM (a) 0.0 IN. W.G. (b)2175NO. MOTORS - HP1 - 1/8MOTOR SPEED RP.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL - TYPESPINE FINTMROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)3/8REFRIGERANT3/8REFRIGERANT CONTROLEXPANSION VALVEREFRIGERANTYESLINE SIZE (IN.)3/4LINE SIZE - IN. O.D. GAS (b)3/4LINE SIZE - IN. O.D. LIQ. (c)5/16FCCVRESTRICTOR ORIFICE SIZERESTRICTOR ORIFICE SIZE.057DIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)SHIPPING (LBS.)177	NO. USED - NO. SPEEDS	1 - 1
FACTORY INSTALLED START COMPONENTS (a)NOINSULATION/SOUND BLANKETNOCOMPRESSOR HEATYESOUTDOOR FANPROPELLERDIA. (IN.) - NO. USED19 - 1TYPE DRIVE - NO. SPEEDSDIRECT - 1CFM (a) 0.0 IN. W.G. (a)2175NO. MOTORS - HP1 - 1/8MOTOR SPEED R.P.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL — TYPESPINE FIN™ROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANTEXPANSION VALVEREFRIGERANTYESLINE SIZE (IN.)3/4LINE SIZE - IN. O.D. GAS (a)3/4LINE SIZE - IN. O.D. LIQ. (b)5/16FCCVSETRICTOR ORIFICE SIZERESTRICTOR ORIFICE SIZE.057DIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)177		200/230/1/60
START COMPONENTS (*)NOINSULATION/SOUND BLANKETNOCOMPRESSOR HEATYESOUTDOOR FANPROPELLERDIA. (IN.) - NO. USED19 - 1TYPE DRIVE - NO. SPEEDSDIRECT - 1CFM (*) 0.0 IN. W.G. (*)2175NO. MOTORS - HP1 - 1/8MOTOR SPEED R.P.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL - TYPESPINE FINTMROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANTYESLINE SIZE (IN.)3/4LINE SIZE - IN. O.D. GAS (*)3/4LINE SIZE - IN. O.D. LIQ. (*)5/16FCCVSETRICTOR ORIFICE SIZERESTRICTOR ORIFICE SIZE.057DIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)177		10.9 - 60
INSULATION/SOUND BLANKETNOCOMPRESSOR HEATYESOUTDOOR FANPROPELLERDIA. (IN.) - NO. USED19 - 1TYPE DRIVE - NO. SPEEDSDIRECT - 1CFM @ 0.0 IN. W.G. ④2175NO. MOTORS - HP1 - 1/8MOTOR SPEED R.P.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL - TYPESPINE FINTMROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANTSNO. VALVEREFRIGERANTYESLINE SIZE - IN. O.D. GAS ⑤3/4LINE SIZE - IN. O.D. LIQ. ⑥5/16FCCVSETRICTOR ORIFICE SIZERESTRICTOR ORIFICE SIZE.057DIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)177		
COMPRESSOR HEATYESOUTDOOR FANPROPELLERDIA. (IN.) - NO. USED19 - 1TYPE DRIVE - NO. SPEEDSDIRECT - 1CFM @ 0.0 IN. W.G. ④2175NO. MOTORS - HP1 - 1/8MOTOR SPEED RP.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL — TYPESPINE FINTMROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANTEXPANSION VALVEREFRIGERANTYESLINE SIZE - IN. O.D. GAS ⑥3/4LINE SIZE - IN. O.D. GAS ⑥3/4LINE SIZE - IN. O.D. GAS ⑥3/14LINE SIZE - IN. O.D. GAS ⑥30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)177		_
OUTDOOR FANPROPELLERDIA. (IN.) - NO. USED19 - 1TYPE DRIVE - NO. SPEEDSDIRECT - 1CFM @ 0.0 IN. W.G. ④2175NO. MOTORS - HP1 - 1/8MOTOR SPEED RP.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL — TYPESPINE FIN™ROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANT CONTROLEXPANSION VALVEREFRIGERANTYESLINE SIZE - IN. O.D. GAS ⑥3/4LINE SIZE - IN. O.D. LIQ. ⑥5/16FCCVSITERESTRICTOR ORIFICE SIZE.057DIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)SHIPPING (LBS.)177		
DIA. (IN.) - NO. USED 19 - 1   TYPE DRIVE - NO. SPEEDS DIRECT - 1   CFM @ 0.0 IN. W.G. ④ 2175   NO. MOTORS - HP 1 - 1/8   MOTOR SPEED RP.M. 1075   VOLTS/PH/HZ 200/230/1/60   F.L. AMPS .90   OUTDOOR COIL — TYPE SPINE FIN™   ROWS - F.P.I. 1 - 24   FACE AREA (SQ. FT.) 9.72   TUBE SIZE (IN.) 3/8   REFRIGERANT CONTROL EXPANSION VALVE   REFRIGERANT YES   LINE SIZE - IN. O.D. GAS ⑥ 3/4   LINE SIZE - IN. O.D. LIQ. ⑥ 5/16   FCCV RESTRICTOR ORIFICE SIZE   RATED (IN.) 30.1 x 26.7 x 30.2   WEIGHT SHIPPING (LBS.) 177	COMPRESSOR HEAT	YES
TYPÈ DÁIVE - NO. SPEEDSDIRECT - 1CFM @ 0.0 IN. W.G. ④2175NO. MOTORS - HP1 - 1/8MOTOR SPEED RP.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL — TYPESPINE FIN™ROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANT CONTROLEXPANSION VALVEREFRIGERANTYESLINE SIZE - IN. O.D. GAS ⑥3/4LINE SIZE - IN. O.D. GAS ⑥3/4LINE SIZE - IN. O.D. IQ. ⑥5/16FCCVSTRICTOR ORIFICE SIZEDIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)177		
CFM @ 0.0 IN. W.G. ④ 2175   NO. MOTORS - HP 1 - 1/8   MOTOR SPEED RP.M. 1075   VOLTS/PH/HZ 200/230/1/60   F.L. AMPS .90   OUTDOOR COIL — TYPE SPINE FIN™   ROWS - F.P.I. 1 - 24   FACE AREA (SQ. FT.) 9.72   TUBE SIZE (IN.) 3/8   REFRIGERANT CONTROL EXPANSION VALVE <b>REFRIGERANT</b> LBS 8 OZ.   FACTORY SUPPLIED YES   LINE SIZE - IN. O.D. GAS ⑥ 3/4   LINE SIZE - IN. O.D. LIQ. ⑥ 5/16   FCCV RESTRICTOR ORIFICE SIZE .057   DIMENSIONS H X W X D   CRATED (IN.) 30.1 x 26.7 x 30.2   WEIGHT SHIPPING (LBS.) 177		
NO. MOTORS - HP $1 - 1/8$ MOTOR SPEED RP.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL — TYPESPINE FINTMROWS - F.P.I. $1 - 24$ FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANT CONTROLEXPANSION VALVE <b>REFRIGERANT</b> LINE SIZE (ID.)LBS. — HCFC-22 (O.D. UNIT) (§)4 LBS 8 OZ.FACTORY SUPPLIEDYESLINE SIZE - IN. O.D. GAS (§)3/4LINE SIZE - IN. O.D. LIQ. (§)5/16FCCVFCCVRESTRICTOR ORIFICE SIZE.057DIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)177		
MOTOR SPEED RP.M.1075VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL — TYPESPINE FIN™ROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANT CONTROLEXPANSION VALVE <b>REFRIGERANT</b> LBS. — HCFC-22 (O.D. UNIT) ③4 LBS 8 OZ.FACTORY SUPPLIEDYESLINE SIZE - IN. O.D. GAS ⑥3/4LINE SIZE - IN. O.D. LIQ. ⑥5/16FCCVSETRICTOR ORIFICE SIZERESTRICTOR ORIFICE SIZE.057DIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)177		
VOLTS/PH/HZ200/230/1/60F.L. AMPS.90OUTDOOR COIL — TYPESPINE FIN™ROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANT CONTROLEXPANSION VALVE <b>REFRIGERANT</b> LBS. — HCFC-22 (O.D. UNIT) (§)LINE SIZE - IN. O.D. GAS (§)3/4LINE SIZE - IN. O.D. LIQ. (§)5/16FCCVSSTRICTOR ORIFICE SIZERESTRICTOR ORIFICE SIZE.057DIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)177		
F.L. AMPS.90OUTDOOR COIL — TYPESPINE FINTMROWS - F.P.I.1 - 24FACE AREA (SQ. FT.)9.72TUBE SIZE (IN.)3/8REFRIGERANT CONTROLEXPANSION VALVE <b>REFRIGERANT</b> LBS HCFC-22 (O.D. UNIT) (§)LINE SIZE - IN. O.D. GAS (§)3/4LINE SIZE - IN. O.D. LIQ. (§)5/16FCCVSETRICTOR ORIFICE SIZERESTRICTOR ORIFICE SIZE.057DIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)177		
OUTDOOR COIL — TYPESPINE FINTMROWS - F.P.I. $1 - 24$ FACE AREA (SQ. FT.) $9.72$ TUBE SIZE (IN.) $3/8$ REFRIGERANT CONTROLEXPANSION VALVE <b>REFRIGERANT</b> EXPANSION VALVEREFRIGERANT $4 \text{ LBS 8 OZ.}$ FACTORY SUPPLIEDYESLINE SIZE - IN. O.D. GAS (6) $3/4$ LINE SIZE - IN. O.D. LIQ. (6) $5/16$ FCCVRESTRICTOR ORIFICE SIZEDIMENSIONSH X W X DCRATED (IN.) $30.1 \times 26.7 \times 30.2$ WEIGHTSHIPPING (LBS.)		
ROWS - F.P.I. 1 - 24   FACE AREA (SQ. FT.) 9.72   TUBE SIZE (IN.) 3/8   REFRIGERANT CONTROL EXPANSION VALVE <b>REFRIGERANT</b> UNIT) (§   4 LBS 8 OZ. FACTORY SUPPLIED   YES UINE SIZE - IN. O.D. GAS (§)   LINE SIZE - IN. O.D. LIQ. (§) 5/16 <b>FCCV</b> RESTRICTOR ORIFICE SIZE <b>RESTRICTOR ORIFICE SIZE</b> .057 <b>DIMENSIONS</b> H X W X D   CRATED (IN.) 30.1 x 26.7 x 30.2 <b>WEIGHT</b> SHIPPING (LBS.) 177		
FACE AREA (SQ. FT.) 9.72   TUBE SIZE (IN.) 3/8   REFRIGERANT CONTROL EXPANSION VALVE <b>REFRIGERANT</b> EXPANSION VALVE <b>REFRIGERANT</b> EXPANSION VALVE   LBS HCFC-22 (O.D. UNIT) (5) 4 LBS 8 OZ.   FACTORY SUPPLIED YES   LINE SIZE - IN. O.D. GAS (6) 3/4   LINE SIZE - IN. O.D. LIQ. (6) 5/16   FCCV RESTRICTOR ORIFICE SIZE <b>DIMENSIONS</b> H X W X D   CRATED (IN.) 30.1 x 26.7 x 30.2 <b>WEIGHT</b> SHIPPING (LBS.) 177		
TUBE SIZE (IN.) 3/8   REFRIGERANT CONTROL EXPANSION VALVE <b>REFRIGERANT</b> LBS 8 OZ.   LBS HCFC-22 (O.D. UNIT) ⑤ 4 LBS 8 OZ.   FACTORY SUPPLIED YES   LINE SIZE - IN. O.D. GAS ⑥ 3/4   LINE SIZE - IN. O.D. LIQ. ⑥ 5/16   FCCV RESTRICTOR ORIFICE SIZE   DIMENSIONS H X W X D   CRATED (IN.) 30.1 x 26.7 x 30.2   WEIGHT SHIPPING (LBS.) 177		
REFRIGERANTEXPANSION VALVEREFRIGERANTES.LBS HCFC-22 (O.D. UNIT) (5)4 LBS 8 OZ.FACTORY SUPPLIEDYESLINE SIZE - IN. O.D. GAS (6)3/4LINE SIZE - IN. O.D. LIQ. (6)5/16FCCVESTRICTOR ORIFICE SIZEDIMENSIONSH X W X DCRATED (IN.)30.1 x 26.7 x 30.2WEIGHTSHIPPING (LBS.)177		
REFRIGERANT     LBS HCFC-22 (O.D. UNIT) (5)     FACTORY SUPPLIED     YES     LINE SIZE - IN. O.D. GAS (6)     3/4     LINE SIZE - IN. O.D. LIQ. (6)     5/16     FCCV     RESTRICTOR ORIFICE SIZE     057     DIMENSIONS     H X W X D     CRATED (IN.)     30.1 x 26.7 x 30.2     WEIGHT     SHIPPING (LBS.)		
LBS. — HCFC-22 (O.D. UNIT) (5 4 LBS 8 OZ.   FACTORY SUPPLIED YES   LINE SIZE - IN. O.D. GAS (6) 3/4   LINE SIZE - IN. O.D. LIQ. (6) 5/16   FCCV 5/16   FCCV 0.057   DIMENSIONS H X W X D   CRATED (IN.) 30.1 x 26.7 x 30.2   WEIGHT 5HIPPING (LBS.)   1177		EXPANSION VALVE
FACTORY SUPPLIED   YES     LINE SIZE - IN. O.D. GAS (©)   3/4     LINE SIZE - IN. O.D. LIQ. (©)   5/16     FCCV   RESTRICTOR ORIFICE SIZE   .057     DIMENSIONS   H X W X D   .057     CRATED (IN.)   30.1 x 26.7 x 30.2   WEIGHT     SHIPPING (LBS.)   177		
LINE SIZE - IN. O.D. GAS (6)   3/4     LINE SIZE - IN. O.D. LIQ. (6)   5/16     FCCV   RESTRICTOR ORIFICE SIZE   .057     DIMENSIONS   H X W X D   .057     CRATED (IN.)   30.1 x 26.7 x 30.2   WEIGHT     SHIPPING (LBS.)   177		
LINE SIZE - IN. O.D. LIQ. (©   5/16     FCCV   RESTRICTOR ORIFICE SIZE   .057     DIMENSIONS   H X W X D   CRATED (IN.)   30.1 x 26.7 x 30.2     WEIGHT   SHIPPING (LBS.)   177		
FCCV   .057     RESTRICTOR ORIFICE SIZE   .057     DIMENSIONS   H X W X D     CRATED (IN.)   30.1 x 26.7 x 30.2     WEIGHT   SHIPPING (LBS.)		
RESTRICTOR ORIFICE SIZE   .057     DIMENSIONS   H X W X D     CRATED (IN.)   30.1 x 26.7 x 30.2     WEIGHT   177		5/16
DIMENSIONS   H X W X D     CRATED (IN.)   30.1 x 26.7 x 30.2     WEIGHT   177		
CRATED (IN.)   30.1 x 26.7 x 30.2     WEIGHT   30.1 x 20.7 x 30.2		
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!**

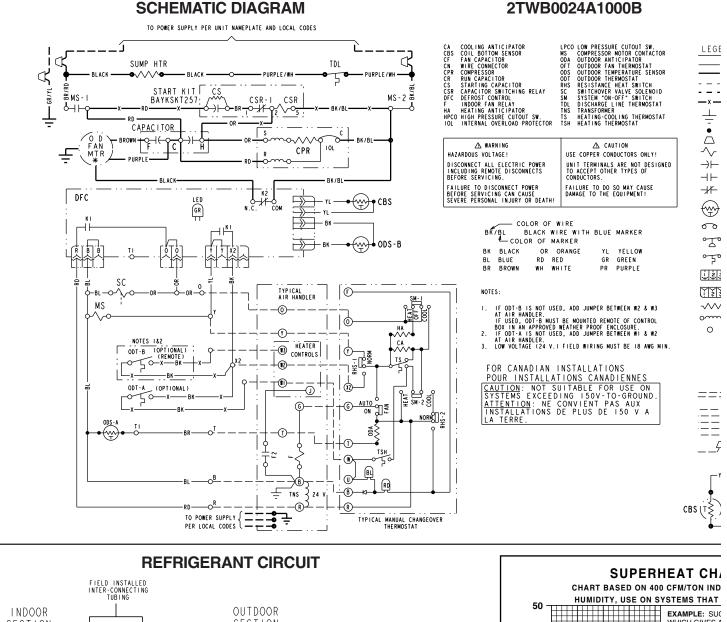
SYSTEM CONTAINS OIL AND REFRIGERANT UNDER HIGH PRESSURE. RECOVER REFRIGERANT TO RELIEVE PRESSURE BEFORE OPENING SYSTEM.

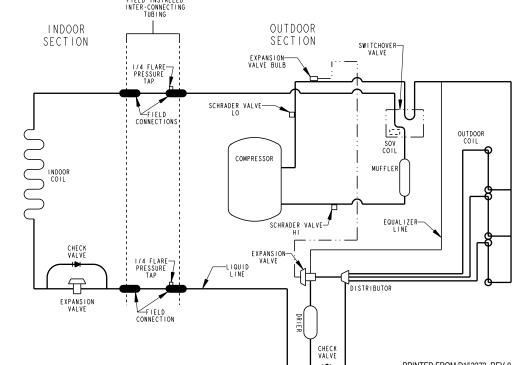
Failure to follow proper procedures can result in personal illness or injury or severe equipment damage.

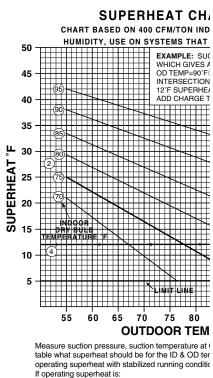
### **A** CAUTION

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





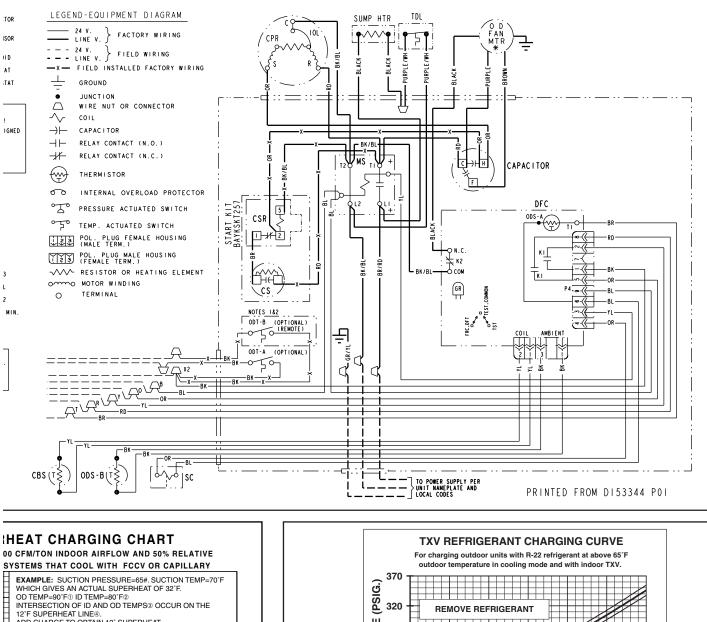


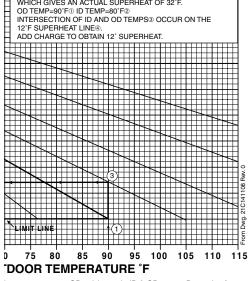
• within 5° chart value charge is OK

• more that 5° above chart value add refrigerant

PRINTED FROM D153373 REV.0

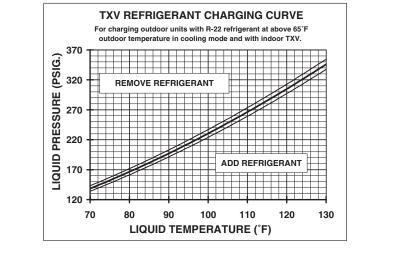
WIRING DIAGRAM





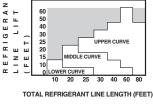
ion temperature at OD quick attach, ID & OD temps. Determine from for the ID & OD temp. Example indicates  $12^\circ$  superheat. Determine zed running conditions.

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



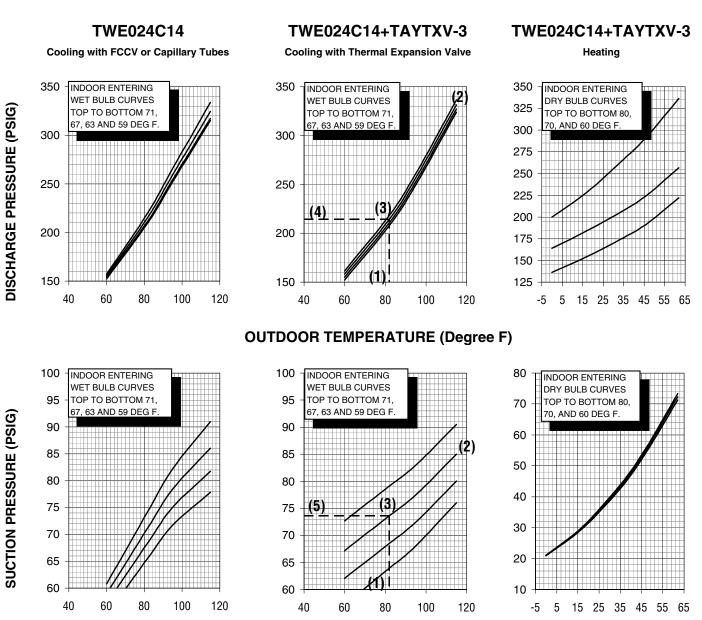
- 1. Measure Liquid Line Temperature and Refrigerant Pressure at service valves.
- Determine total refrigerant pipe length and height (lift) if indoor section is above the condenser. Plot the intersection of the two points on the Curve Selection Chart to determine which curve to use.
- 3. Plot the pressure 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