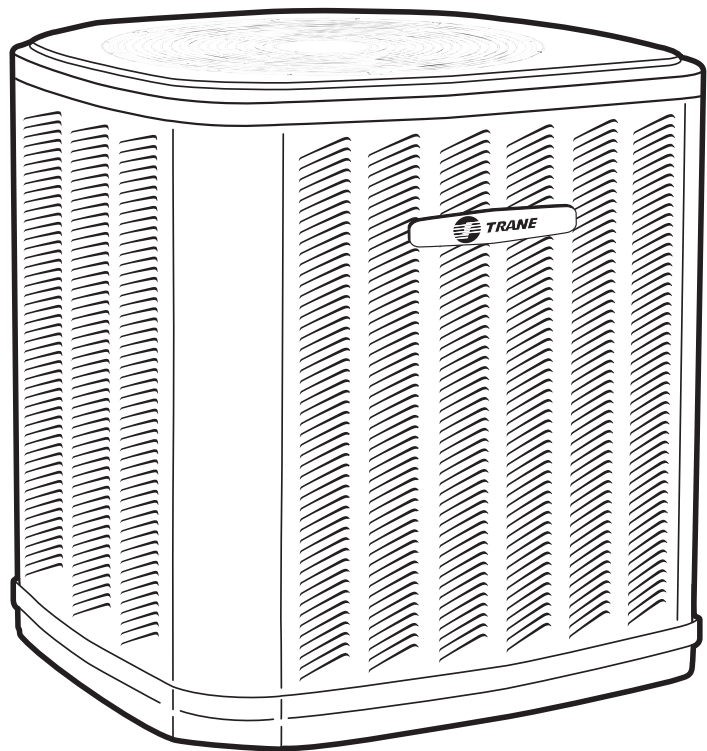




Split System Heat Pump Product Data

**Three Phase
2TWA0030-072A**

2½ – 6 Tons



PUB. NO. 22-1738-05



General Features

Split System Heat Pump Units . . . The Evolution Continues

2TWA0 split systems represent a product that is not only an engineer's dream, it's also a customer's dream. The design team's mission and accomplishment is enhanced performance and efficiency, improved reliability and durability, and improved installability and serviceability.

Trane's experienced design team applied "six sigma principles", the latest computer

technology, and customer research to develop the next generation of leadership products.

Couple the Trane reputation for reliability and durability with the above mentioned mission and accomplishments and you continue to have systems that prove "It's Hard to Stop a Trane®."

Contents

General Features	2
Features and Benefits	4
Optional Equipment	5
Low Outdoor Ambient Cooling	5
Selection Procedure	6
Model Number Nomenclature	6
General Data	7
2TWA0030A3/4000C	7
2TWA0036A3/4000C	8
2TWA0042A3/4000C	9
2TWA0048A3/4000C	10
2TWA0060A3/4000C	11
2TWA0072A3/4000B	12
Electrical Data	13
Dimensions	16
Mechanical Specification Options	17



Features and Benefits

- **Climatuff**[®] compressor
- All aluminum **Spine Fin**[™] coil
- **DuraTuff**[™] base, fast complete drain, weatherproof
- **WeatherGuard**[™] fasteners
- New appearance with polystate gray cabinet
- **Quick-Sess**[™] cabinet, service access and refrigerant connections with full coil protection
- Demand Defrost Control with Diagnostics
- Corrosion resistant finish
- Internal high/low pressure & temperature protection
- Low pressure switch
- High pressure switch on 2TWA0072
- Liquid line filter-drier
- **Comfort "R"**[™] mode approved
- Crankcase heat provided
- Easy single side service
- Multi-use liquid and suction line service valves
- Easy top & fan removal
- Full length control and service valve cover
- HCFC-22 refrigerant field supplied
- **Extended warranties available**
- S.E.E.T. design testing
- 100% line run test
- Low ambient cooling to 55°F as shipped
- Low ambient cooling to 40°F with EDC accessory AY28X084
- Low ambient cooling to 30°F with EDC accessory AY28X084 and TXV
- Low ambient cooling to 0°F with TXV and BAYLOAM103



Features and Benefits

Optional Equipment

OPTIONAL EQUIPMENT FOR CONDENSING UNITS (Check mark [✓] indicates accessories included).

Indoor Thermostats — Elec. Setback Thermostat	TAYSTAT500C	[]
Electronic, 2 Htg./1 Clg. (Non Prog.)	TAYSTAT570	[]
Automatic Heat/Cool (Two Stage Heating)	BAY28X138A	[]
Manual Seasonal Selector Heat/Cool (Two Stage Heating)	BAYSTAT239A	[]
Locking Thermostat Cover	BAY28X190	[]
Outdoor Thermostats 46°F. to – 10°F. (Adjustable)	TAYSTAT250B	[]
Evaporator Defrost Control Kit	AY28X084	[]
5 Minute Delay Relay ①	TAYASCT501A	[]
Outdoor Temperature Sensor (TAYSTAT500C)	TAYSENS100A	[]
Snow Legs – Base and Cap 4" High	BAYLEGS002	[]
Snow Legs – addition 4" extension (used with BAYLEGS002)	BAYLEGS003	[]
Electronic Head Pressure Control	BAYLOAM103	[]
Extreme Conditions Mounting Kit	BAYECMT001	[]
Seacoast Kit	BAYSEAC001	[]

① Do not use with programmable thermostats

BRAZED TUBING REFRIGERANT LINE SETS (All Suction Lines are Insulated.)

3/4" ODM (90° bend, one end), 3/4" and 5/16" tubing	TAYREFLN2	* []
7/8" ODM (90° bend, one end), 7/8" and 3/8" tubing	TAYREFLN3	* []
3/4" ODM (90° bend, one end), 1-1/8" and 3/8" tubing	TAYREFLN4	* []

* Line lengths: 15, 20, 25, 30, 40 & 50 ft. Insert desired line length in catalog number at right for the complete number.
Example: TAYREFLN220

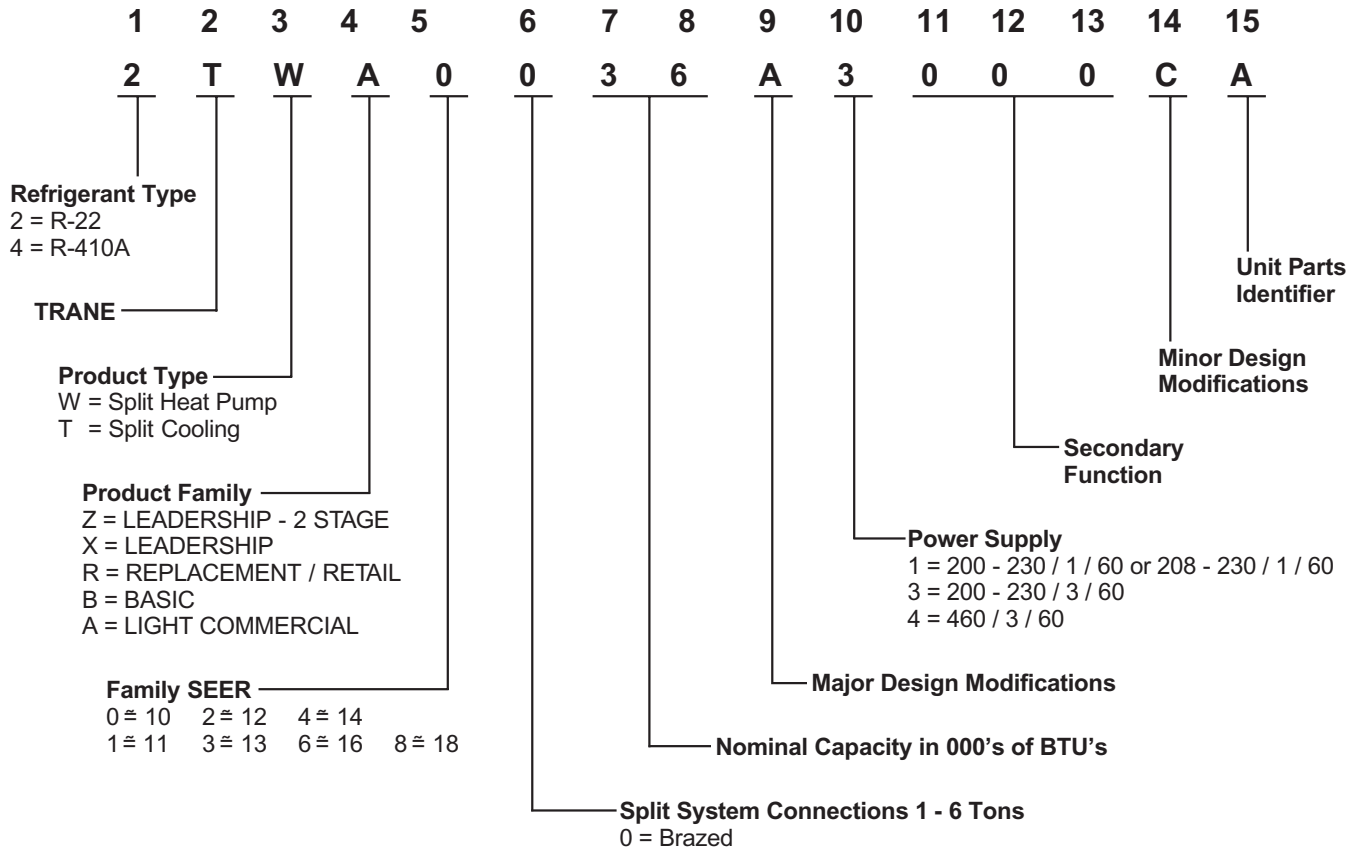
Low Outdoor Ambient Cooling

Low Ambient Cooling	As Manufactured	Evaporator Defrost Control
FCCV Accutron™	55°F	40°F
Thermal Expansion Valve (TXV)	55°F	30°F



Selection Procedure

Model Number Nomenclature





General Data

2TWA0030A3/4000C

OUTDOOR UNIT	2TWA0030A3000C	2TWA0030A4000C
SOUND RATING (DECIBELS)	82	82
POWER CONNS. — V/PH/HZ ①	200/230/3/60	460/3/60
MIN. BRCH. CIR. AMPACITY	13	7
BR. CIR. } MAX. (AMPS)	20	15
PROT. RTG. }		
COMPRESSOR	CLIMATUFF®	CLIMATUFF®
NO. USED - NO. SPEEDS	1 - 1	1 - 1
VOLTS/PH/HZ	200/230/3/60	460/3/60
R.L. AMPS ⑤ - L.R. AMPS	9.6 - 74	4.8 - 38
FACTORY INSTALLED		
START COMPONENTS ⑥	NO	NO
INSULATION/SOUND BLANKET	NO	NO
COMPRESSOR HEAT	YES	YES
OUTDOOR FAN — TYPE	PROPELLER	PROPELLER
DIA. (IN.) - NO. USED	19 - 1	19 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1	DIRECT - 1
CFM @ 0.0 IN. W.G. ②	2475	2475
NO. MOTORS - HP	1 - 1/4	1 - 1/4
MOTOR SPEED R.P.M.	1075	1075
VOLTS/PH/HZ	200/230/3/60	460/3/60
FL. AMPS	1.3	0.6
OUTDOOR COIL — TYPE	SPINE FIN™	SPINE FIN™
ROWS - F.P.I.	1 - 24	1 - 24
FACE AREA (SQ. FT.)	13.75	13.75
TUBE SIZE (IN.)	3/8	3/8
REFRIGERANT CONTROL	EXPANSION VALVE	EXPANSION VALVE
REFRIGERANT	R-22	R-22
(O.D. UNIT) NP CHR.G. ③	4/09-LB/OZ	4/09-LB/OZ
FIELD SUPPLIED	YES	YES
LINE SIZE - IN. O.D. GAS ④	3/4	3/4
LINE SIZE - IN. O.D. LIQ. ④	5/16	5/16
FCCV		
RESTRICTOR ORIFICE SIZE	0.069	0.069
DIMENSIONS	H X W X D	H X W X D
OUTDOOR UNIT CRATED (IN.)	33.2 X 26.7 X 30.2	33.2 X 26.7 X 30.2
UNCRATED	SEE OUTLINE DWG.	SEE OUTLINE DWG.
WEIGHT		
SHIPPING (LBS.)	193	193
NET (LBS.)	173	173

- ① CALCULATED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE. ONLY USE HACR CIRCUIT BREAKERS OR FUSES.
- ② STANDARD AIR - DRY COIL - OUTDOOR
- ③ THIS VALUE APPROXIMATE. FOR MORE PRECISE VALUE SEE UNIT NAMEPLATE AND SERVICE INSTRUCTION.
- ④ MAX. LINEAR LENGTH: 80 FT WITH RECIPROCATING COMPRESSOR - 60 FT WITH SCROLL. MAX. LIFT - SUCTION 60 FT; MAX LIFT - LIQUID 60 FT. FOR GREATER LENGTH REFER TO REFRIGERANT PIPING SOFTWARE PUB. NO. 32-3312-01.
- ⑤ THE VALUE SHOWN FOR COMPRESSOR RLA ON THE UNIT NAMEPLATE AND ON THIS SPECIFICATION SHEET IS USED TO COMPUTE MINIMUM BRANCH CIRCUIT AMPACITY AND MAXIMUM FUSE SIZE. THE VALUE SHOWN IS THE BRANCH CIRCUIT SELECTION CURRENT.
- ⑥ NO MEANS NO START COMPONENTS
YES MEANS QUICK START KIT COMPONENTS
PTC MEANS POSITIVE TEMPERATURE COEFFICIENT STARTER.





General Data

2TWA0036A3/4000C

OUTDOOR UNIT ^{①②}	2TWA0036A3000C	2TWA0036A4000C
SOUND RATING (DECIBELS) ^②	80	80
POWER CONNS. — V/PH/Hz ^①	200/230/3/60	460/3/60
MIN. BRCH. CIR. AMPACITY	15	7
BR. CIR. } MAX. (AMPS)	25	15
PROT. RTG. }		
COMPRESSOR	CLIMATUFF®	CLIMATUFF®
NO. USED - NO. SPEEDS	1 - 1	1 - 1
VOLTS/PH/Hz	200/230/3/60	460/3/60
R.L. AMPS ^⑤ - L.R. AMPS	10.9 - 74	5.5 - 38
FACTORY INSTALLED		
START COMPONENTS ^⑥	NO	NO
INSULATION/SOUND BLANKET	NO	NO
COMPRESSOR HEAT	YES	YES
OUTDOOR FAN — TYPE	PROPELLER	PROPELLER
DIA. (IN.) - NO. USED	19 - 1	19 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1	DIRECT - 1
CFM @ 0.0 IN. W.G. ^②	2475	2475
NO. MOTORS - HP	1 - 1/4	1 - 1/4
MOTOR SPEED R.P.M.	1075	1075
VOLTS/PH/Hz	200/230/3/60	460/3/60
FL. AMPS	1.3	0.7
OUTDOOR COIL — TYPE	SPINE FIN™	SPINE FIN™
ROWS - F.P.I.	1 - 24	1 - 24
FACE AREA (SQ. FT.)	11.32	11.32
TUBE SIZE (IN.)	3/8	3/8
REFRIGERANT CONTROL	EXPANSION VALVE	EXPANSION VALVE
REFRIGERANT	R-22	R-22
(O.D. UNIT) NP CHR.G. ^③	5/12-LB/OZ	5/12-LB/OZ
FIELD SUPPLIED	YES	YES
LINE SIZE - IN. O.D. GAS ^④	7/8	7/8
LINE SIZE - IN. O.D. LIQ. ^④	3/8	3/8
FCCV		
RESTRICTOR ORIFICE SIZE	0.069	0.069
DIMENSIONS	H X W X D	H X W X D
OUTDOOR UNIT CRATED (IN.)	33.2 X 26.7 X 30.2	33.2 X 26.7 X 30.2
UNCRATED	SEE OUTLINE DWG.	SEE OUTLINE DWG.
WEIGHT		
SHIPPING (LBS.)	192	192
NET (LBS.)	172	172

- ① CALCULATED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE. ONLY USE HACR CIRCUIT BREAKERS OR FUSES.
- ② STANDARD AIR - DRY COIL - OUTDOOR
- ③ THIS VALUE APPROXIMATE. FOR MORE PRECISE VALUE SEE UNIT NAMEPLATE AND SERVICE INSTRUCTION.
- ④ MAX. LINEAR LENGTH: 80 FT WITH RECIPROCATING COMPRESSOR - 60 FT WITH SCROLL. MAX. LIFT - SUCTION 60 FT; MAX LIFT - LIQUID 60 FT. FOR GREATER LENGTH REFER TO REFRIGERANT PIPING SOFTWARE PUB. NO. 32-3312-01.
- ⑤ THE VALUE SHOWN FOR COMPRESSOR RLA ON THE UNIT NAMEPLATE AND ON THIS SPECIFICATION SHEET IS USED TO COMPUTE MINIMUM BRANCH CIRCUIT AMPACITY AND MAXIMUM FUSE SIZE. THE VALUE SHOWN IS THE BRANCH CIRCUIT SELECTION CURRENT.
- ⑥ NO MEANS NO START COMPONENTS
YES MEANS QUICK START KIT COMPONENTS
PTC MEANS POSITIVE TEMPERATURE COEFFICIENT STARTER.





General Data

2TWA0042A3/4000C

OUTDOOR UNIT	2TWA0042A3000C	2TWA0042A4000C
SOUND RATING (DECIBELS)	81	81
POWER CONNS. — V/PH/Hz ①	200/230/3/60	460/3/60
MIN. BRCH. CIR. AMPACITY	17	9
BR. CIR. } MAX. (AMPS)	30	15
PROT. RTG. }		
COMPRESSOR	CLIMATUFF®	CLIMATUFF®
NO. USED - NO. SPEEDS	1 - 1	1 - 1
VOLTS/PH/Hz	200/230/3/60	460/3/60
R.L. AMPS ⑤ - L.R. AMPS	12.8 - 101	6.4 - 51
FACTORY INSTALLED		
START COMPONENTS ⑥	NO	NO
INSULATION/SOUND BLANKET	NO	NO
COMPRESSOR HEAT	YES	YES
OUTDOOR FAN — TYPE	PROPELLER	PROPELLER
DIA. (IN.) - NO. USED	23 - 1	23 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1	DIRECT - 1
CFM @ 0.0 IN. W.G. ②	3325	3325
NO. MOTORS - HP	1 - 1/6	1 - 1/6
MOTOR SPEED R.P.M.	825	825
VOLTS/PH/Hz	200/230/3/60	460/3/60
FL. AMPS	1.4	0.7
OUTDOOR COIL — TYPE	SPINE FIN™	SPINE FIN™
ROWS - F.P.I.	1 - 24	1 - 24
FACE AREA (SQ. FT.)	15.18	15.18
TUBE SIZE (IN.)	3/8	3/8
REFRIGERANT CONTROL	EXPANSION VALVE	EXPANSION VALVE
REFRIGERANT	R-22	R-22
(O.D. UNIT) NP CHR.G. ③	6/08-LB/OZ	6/08-LB/OZ
FIELD SUPPLIED	YES	YES
LINE SIZE - IN. O.D. GAS ④	7/8	7/8
LINE SIZE - IN. O.D. LIQ. ④	3/8	3/8
FCCV		
RESTRICTOR ORIFICE SIZE	0.077	0.077
DIMENSIONS	H X W X D	H X W X D
OUTDOOR UNIT CRATED (IN.)	38 X 30.1 X 33.8	38 X 30.1 X 33.8
UNCRATED	SEE OUTLINE DWG.	SEE OUTLINE DWG.
WEIGHT		
SHIPPING (LBS.)	250	250
NET (LBS.)	223	223

- ① CALCULATED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE. ONLY USE HACR CIRCUIT BREAKERS OR FUSES.
- ② STANDARD AIR - DRY COIL - OUTDOOR
- ③ THIS VALUE APPROXIMATE. FOR MORE PRECISE VALUE SEE UNIT NAMEPLATE AND SERVICE INSTRUCTION.
- ④ MAX. LINEAR LENGTH: 80 FT WITH RECIPROCATING COMPRESSOR - 60 FT WITH SCROLL. MAX. LIFT - SUCTION 60 FT; MAX LIFT - LIQUID 60 FT. FOR GREATER LENGTH REFER TO REFRIGERANT PIPING SOFTWARE PUB. NO. 32-3312-01.
- ⑤ THE VALUE SHOWN FOR COMPRESSOR RLA ON THE UNIT NAMEPLATE AND ON THIS SPECIFICATION SHEET IS USED TO COMPUTE MINIMUM BRANCH CIRCUIT AMPACITY AND MAXIMUM FUSE SIZE. THE VALUE SHOWN IS THE BRANCH CIRCUIT SELECTION CURRENT.
- ⑥ NO MEANS NO START COMPONENTS
YES MEANS QUICK START KIT COMPONENTS
PTC MEANS POSITIVE TEMPERATURE COEFFICIENT STARTER.





General Data

2TWA0048A3/4000C

OUTDOOR UNIT	2TWA0048A3000C	2TWA0048A4000C
SOUND RATING (DECIBELS)	81	81
POWER CONNS. — V/PH/HZ ①	200/230/3/60	460/3/60
MIN. BRCH. CIR. AMPACITY	19	10
BR. CIR. } MAX. (AMPS)	30	15
PROT. RTG. }		
COMPRESSOR	CLIMATUFF®	CLIMATUFF®
NO. USED - NO. SPEEDS	1 - 1	1 - 1
VOLTS/PH/HZ	200/230/3/60	460/3/60
R.L. AMPS ⑤ - L.R. AMPS	13.7 - 101	7.1 - 51
FACTORY INSTALLED		
START COMPONENTS ⑥	NO	NO
INSULATION/SOUND BLANKET	NO	NO
COMPRESSOR HEAT	YES	YES
OUTDOOR FAN — TYPE	PROPELLER	PROPELLER
DIA. (IN.) - NO. USED	23 - 1	23 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1	DIRECT - 1
CFM @ 0.0 IN. W.G. ②	3700	3700
NO. MOTORS - HP	1 - 1/4	1 - 1/4
MOTOR SPEED R.P.M.	825	825
VOLTS/PH/HZ	200/230/3/60	460/3/60
FL. AMPS	1.9	1
OUTDOOR COIL — TYPE	SPINE FIN™	SPINE FIN™
ROWS - F.P.I.	1 - 24	1 - 24
FACE AREA (SQ. FT.)	15.18	15.18
TUBE SIZE (IN.)	3/8	3/8
REFRIGERANT CONTROL	EXPANSION VALVE	EXPANSION VALVE
REFRIGERANT	R-22	R-22
(O.D. UNIT) NP CHR.G. ③	8/06-LB/OZ	8/06-LB/OZ
FIELD SUPPLIED	YES	YES
LINE SIZE - IN. O.D. GAS ④	1-1/8	1-1/8
LINE SIZE - IN. O.D. LIQ. ④	3/8	3/8
FCCV		
RESTRICTOR ORIFICE SIZE	0.083	0.083
DIMENSIONS	H X W X D	H X W X D
OUTDOOR UNIT CRATED (IN.)	38 X 30.1 X 33.8	38 X 30.1 X 33.8
UNCRATED	SEE OUTLINE DWG.	SEE OUTLINE DWG.
WEIGHT		
SHIPPING (LBS.)	254	254
NET (LBS.)	226	226

- ① CALCULATED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE. ONLY USE HACR CIRCUIT BREAKERS OR FUSES.
- ② STANDARD AIR - DRY COIL - OUTDOOR
- ③ THIS VALUE APPROXIMATE. FOR MORE PRECISE VALUE SEE UNIT NAMEPLATE AND SERVICE INSTRUCTION.
- ④ MAX. LINEAR LENGTH: 80 FT WITH RECIPROCATING COMPRESSOR - 60 FT WITH SCROLL. MAX. LIFT - SUCTION 60 FT; MAX LIFT - LIQUID 60 FT. FOR GREATER LENGTH REFER TO REFRIGERANT PIPING SOFTWARE PUB. NO. 32-3312-01.
- ⑤ THE VALUE SHOWN FOR COMPRESSOR RLA ON THE UNIT NAMEPLATE AND ON THIS SPECIFICATION SHEET IS USED TO COMPUTE MINIMUM BRANCH CIRCUIT AMPACITY AND MAXIMUM FUSE SIZE. THE VALUE SHOWN IS THE BRANCH CIRCUIT SELECTION CURRENT.
- ⑥ NO MEANS NO START COMPONENTS
YES MEANS QUICK START KIT COMPONENTS
PTC MEANS POSITIVE TEMPERATURE COEFFICIENT STARTER.





General Data

2TWA0060A3/4000C

OUTDOOR UNIT	2TWA0060A3000C	2TWA0060A4000C
SOUND RATING (DECIBELS)	84	84
POWER CONNS. — V/PH/Hz ①	200/230/3/60	460/3/60
MIN. BRCH. CIR. AMPACITY	25	12
BR. CIR. } MAX. (AMPS)	40	20
PROT. RTG. }		
COMPRESSOR	CLIMATUFF®	CLIMATUFF®
NO. USED - NO. SPEEDS	1 - 1	1 - 1
VOLTS/PH/Hz	200/230/3/60	460/3/60
R.L. AMPS ⑤ - L.R. AMPS	18.6 - 139	9.0 - 71
FACTORY INSTALLED		
START COMPONENTS ⑥	NO	NO
INSULATION/SOUND BLANKET	NO	NO
COMPRESSOR HEAT	YES	YES
OUTDOOR FAN — TYPE	PROPELLER	PROPELLER
DIA. (IN.) - NO. USED	27.6 - 1	27.6 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1	DIRECT - 1
CFM @ 0.0 IN. W.G. ②	4400	4400
NO. MOTORS - HP	1 - 1/6	1 - 1/6
MOTOR SPEED R.P.M.	825	825
VOLTS/PH/Hz	200/230/3/60	460/3/60
FL. AMPS	1.4	0.7
OUTDOOR COIL — TYPE	SPINE FIN™	SPINE FIN™
ROWS - F.P.I.	1 - 24	1 - 24
FACE AREA (SQ. FT.)	21.99	21.99
TUBE SIZE (IN.)	3/8	3/8
REFRIGERANT CONTROL	EXPANSION VALVE	EXPANSION VALVE
REFRIGERANT	R-22	R-22
(O.D. UNIT) NP CHR.G. ③	9/08-LB/OZ	9/08-LB/OZ
FIELD SUPPLIED	YES	YES
LINE SIZE - IN. O.D. GAS ④	1-1/8	1-1/8
LINE SIZE - IN. O.D. LIQ. ④	3/8	3/8
FCCV		
RESTRICTOR ORIFICE SIZE	0.095	0.095
DIMENSIONS	H X W X D	H X W X D
OUTDOOR UNIT CRATED (IN.)	38.4 X 35.1 X 38.7	38.4 X 35.1 X 38.7
UNCRATED	SEE OUTLINE DWG.	SEE OUTLINE DWG.
WEIGHT		
SHIPPING (LBS.)	289	289
NET (LBS.)	256	256

- ① CALCULATED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE. ONLY USE HACR CIRCUIT BREAKERS OR FUSES.
- ② STANDARD AIR - DRY COIL - OUTDOOR
- ③ THIS VALUE APPROXIMATE. FOR MORE PRECISE VALUE SEE UNIT NAMEPLATE AND SERVICE INSTRUCTION.
- ④ MAX. LINEAR LENGTH: 80 FT WITH RECIPROCATING COMPRESSOR - 60 FT WITH SCROLL. MAX. LIFT - SUCTION 60 FT; MAX LIFT - LIQUID 60 FT. FOR GREATER LENGTH REFER TO REFRIGERANT PIPING SOFTWARE PUB. NO. 32-3312-01.
- ⑤ THE VALUE SHOWN FOR COMPRESSOR RLA ON THE UNIT NAMEPLATE AND ON THIS SPECIFICATION SHEET IS USED TO COMPUTE MINIMUM BRANCH CIRCUIT AMPACITY AND MAXIMUM FUSE SIZE. THE VALUE SHOWN IS THE BRANCH CIRCUIT SELECTION CURRENT.
- ⑥ NO MEANS NO START COMPONENTS
YES MEANS QUICK START KIT COMPONENTS
PTC MEANS POSITIVE TEMPERATURE COEFFICIENT STARTER.





General Data

2TWA0072A3/4000B

OUTDOOR UNIT	2TWA0072A3000B	2TWA0072A4000B
SOUND RATING (DECIBELS)	81	81
POWER CONNS. — V/PH/Hz ①	200/230/3/60	460/3/60
MIN. BRCH. CIR. AMPACITY	26	14
BR. CIR. } MAX. (AMPS)	40	20
PROT. RTG. }		
COMPRESSOR	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL
NO. USED - NO. SPEEDS	1 - 1	1 - 1
VOLTS/PH/Hz	200/230/3/60	460/3/60
R.L. AMPS ⑤ - L.R. AMPS	19.1 - 156	10.1 - 75
FACTORY INSTALLED		
START COMPONENTS ⑥	NO	NO
INSULATION/SOUND BLANKET	NO	NO
COMPRESSOR HEAT	YES	YES
OUTDOOR FAN — TYPE	PROPELLER	PROPELLER
DIA. (IN.) - NO. USED	27.6 - 1	27.6 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1	DIRECT - 1
CFM @ 0.0 IN. W.G. ②	4400	4400
NO. MOTORS - HP	1 - 1/4	1 - 1/4
MOTOR SPEED R.P.M.	825	825
VOLTS/PH/Hz	200/230/3/60	460/3/60
FL. AMPS	1.9	1
OUTDOOR COIL — TYPE	SPINE FIN™	SPINE FIN™
ROWS - F.P.I.	2 - 24	2 - 24
FACE AREA (SQ. FT.)	27.86	27.86
TUBE SIZE (IN.)	3/8	3/8
REFRIGERANT CONTROL	EXPANSION VALVE	EXPANSION VALVE
REFRIGERANT	R-22	R-22
(O.D. UNIT) NP CHR.G. ③	14/01-LB/OZ	14/01-LB/OZ
FIELD SUPPLIED	YES	YES
LINE SIZE - IN. O.D. GAS ④	1-1/8	1-1/8
LINE SIZE - IN. O.D. LIQ. ④	3/8	3/8
FCCV		
RESTRICTOR ORIFICE SIZE	N/A	N/A
DIMENSIONS	H X W X D	H X W X D
OUTDOOR UNIT CRATED (IN.)	46.4 X 35.1 X 38.7	46.4 X 35.1 X 38.7
UNCRATED	SEE OUTLINE DWG.	SEE OUTLINE DWG.
WEIGHT		
SHIPPING (LBS.)	327	327
NET (LBS.)	292	292

- ① CALCULATED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE. ONLY USE HACR CIRCUIT BREAKERS OR FUSES.
- ② STANDARD AIR - DRY COIL - OUTDOOR
- ③ THIS VALUE APPROXIMATE. FOR MORE PRECISE VALUE SEE UNIT NAMEPLATE AND SERVICE INSTRUCTION.
- ④ MAX. LINEAR LENGTH: 80 FT WITH RECIPROCATING COMPRESSOR - 60 FT WITH SCROLL. MAX. LIFT - SUCTION 60 FT; MAX LIFT - LIQUID 60 FT. FOR GREATER LENGTH REFER TO REFRIGERANT PIPING SOFTWARE PUB. NO. 32-3312-01.
- ⑤ THE VALUE SHOWN FOR COMPRESSOR RLA ON THE UNIT NAMEPLATE AND ON THIS SPECIFICATION SHEET IS USED TO COMPUTE MINIMUM BRANCH CIRCUIT AMPACITY AND MAXIMUM FUSE SIZE. THE VALUE SHOWN IS THE BRANCH CIRCUIT SELECTION CURRENT.
- ⑥ NO MEANS NO START COMPONENTS
YES MEANS QUICK START KIT COMPONENTS
PTC MEANS POSITIVE TEMPERATURE COEFFICIENT STARTER.

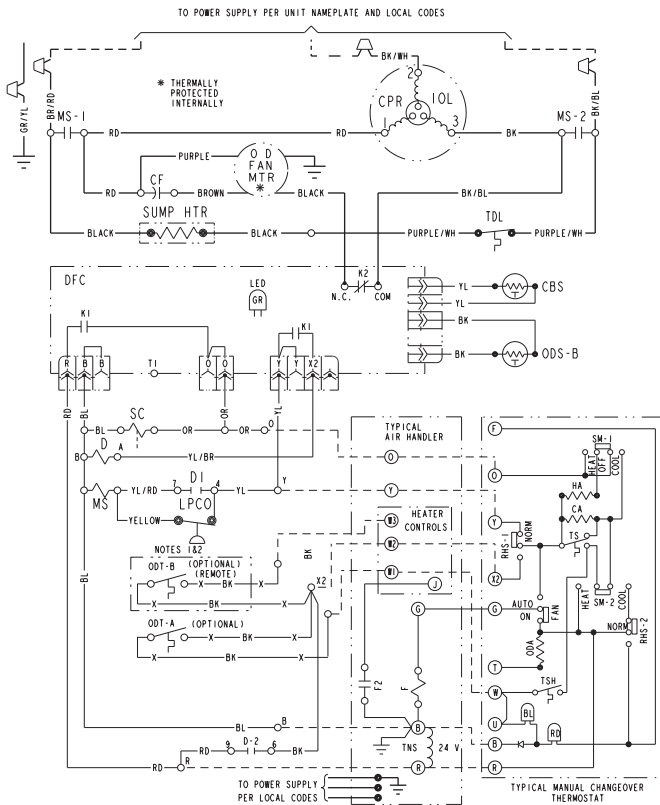


Electrical Data

SCHEMATIC DIAGRAMS

(SEE LEGEND)

2TWA0030-060A3



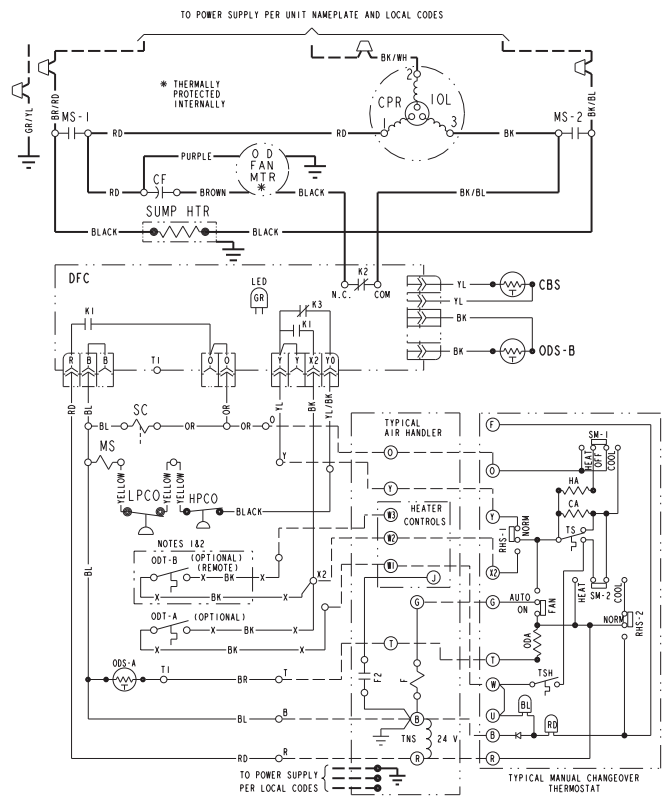
NOTES:

1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

<p>⚠ WARNING HAZARDOUS VOLTAGE!</p> <p>DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.</p> <p>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!</p>	<p>⚠ CAUTION USE COPPER CONDUCTORS ONLY!</p> <p>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.</p> <p>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!</p>
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NOTE
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

2TWA0072A3



NOTES:

1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

<p>⚠ WARNING HAZARDOUS VOLTAGE!</p> <p>DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.</p> <p>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!</p>	<p>⚠ CAUTION USE COPPER CONDUCTORS ONLY!</p> <p>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.</p> <p>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!</p>
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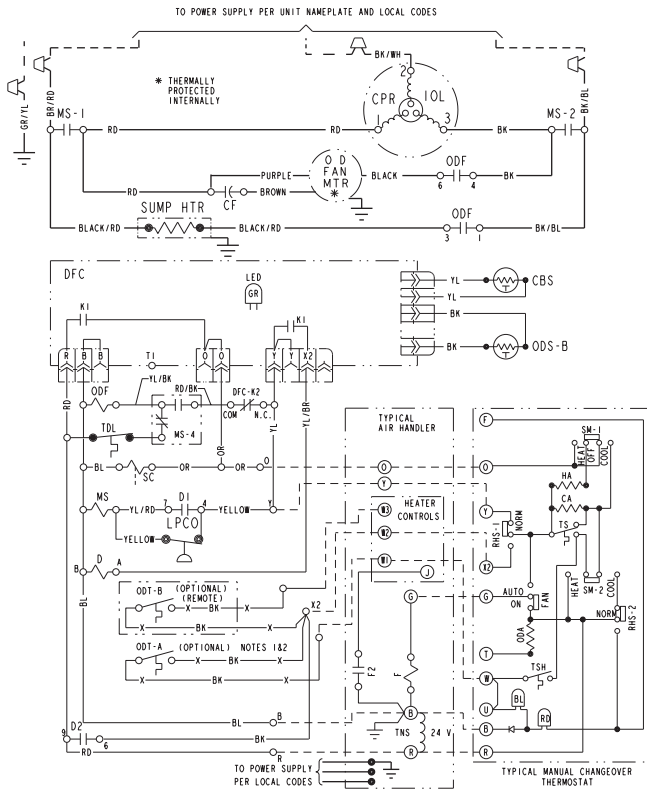
NOTE
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

Electrical Data

SCHEMATIC DIAGRAMS

(SEE LEGEND)

2TWA0030-060A4



NOTES:

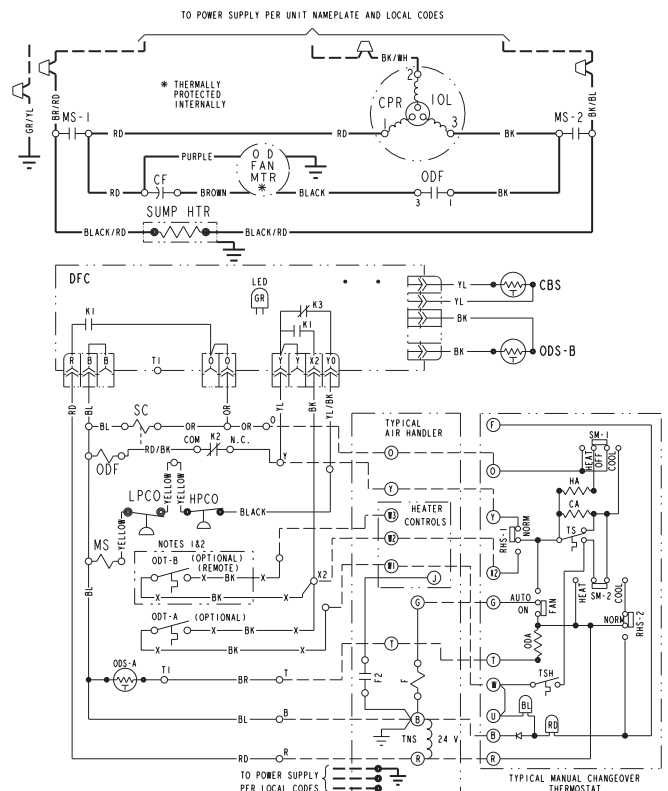
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NOTE
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

PRINTED FROM D155599 P01

2TWA0072A4



NOTES:

1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
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NOTE
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

PRINTED FROM D153424 P03





















Electrical Data

SCHEMATIC DIAGRAMS

LEGEND

	COLOR OF WIRE				
BK/BL	BLACK WIRE WITH BLUE MARKER				
	COLOR OF MARKER				
BK	BLACK	OR	ORANGE	YL	YELLOW
BL	BLUE	RD	RED	GR	GREEN
BR	BROWN	WH	WHITE	PR	PURPLE

SYMBOLS

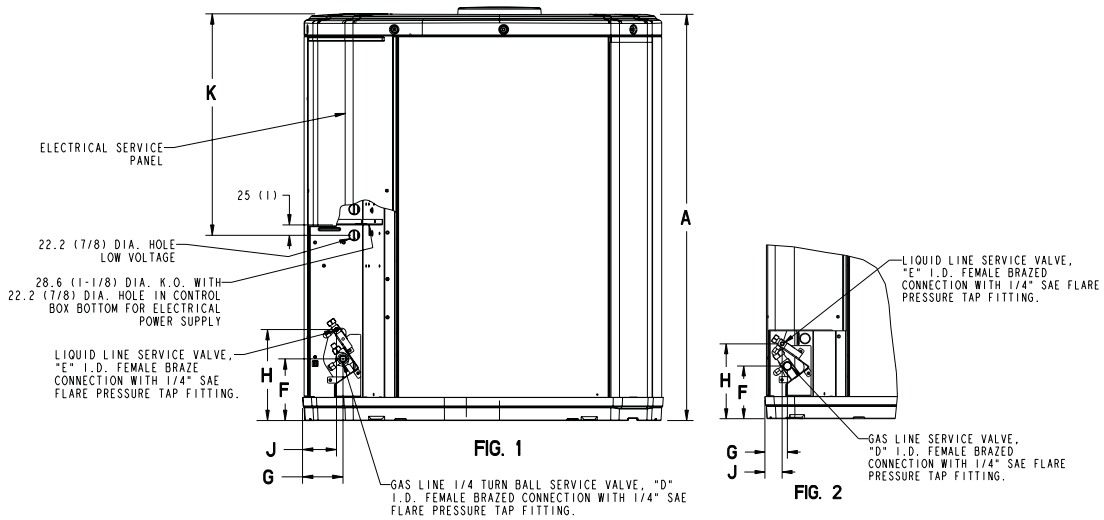
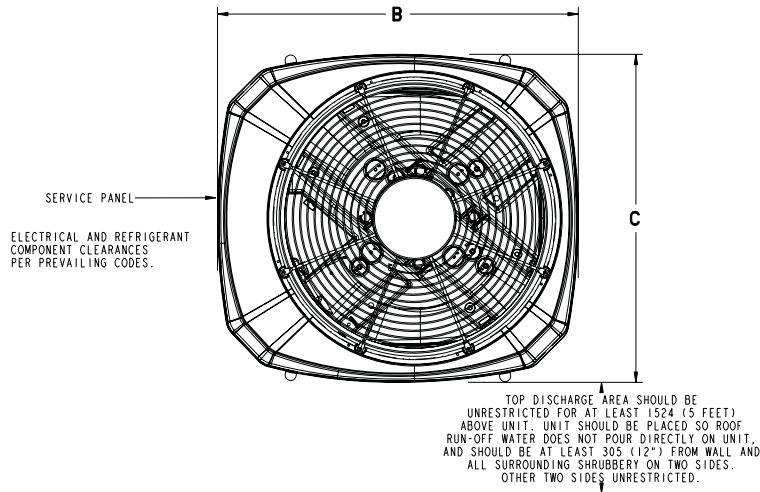
	24 V.	}	FACTORY WIRING
	LINE V.		
	24 V.	}	FIELD WIRING
	LINE V.		
	GROUND		
	JUNCTION		
	WIRE NUT OR CONNECTOR		
	COIL		
	CAPACITOR		
	RELAY CONTACT (N.O.)		
	RELAY CONTACT (N.C.)		
	THERMISTOR		
	INTERNAL OVERLOAD PROTECTOR		
	PRESSURE ACTUATED SWITCH		
	TEMP. ACTUATED SWITCH		
	POL. PLUG FEMALE HOUSING (MALE TERM.)		
	POL. PLUG MALE HOUSING (FEMALE TERM.)		
	RESISTOR OR HEATING ELEMENT		
	MOTOR WINDING		
	TERMINAL		

CA	COOLING ANTICIPATOR	LPCO	LOW PRESSURE CUTOUT SW.
CBS	COIL BOTTOM SENSOR	MS	COMPRESSOR MOTOR CONTACTOR
CF	FAN CAPACITOR	ODA	OUTDOOR ANTICIPATOR
CN	WIRE CONNECTOR	ODF	OUTDOOR FAN RELAY
CPR	COMPRESSOR	OFT	OUTDOOR FAN THERMOSTAT
CR	RUN CAPACITOR	ODS	OUTDOOR TEMPERATURE SENSOR
CS	STARTING CAPACITOR	ODT	OUTDOOR THERMOSTAT
CSR	CAPACITOR SWITCHING RELAY	RHS	RESISTANCE HEAT SWITCH
DFC	DEFROST CONTROL	SC	SWITCHOVER VALVE SOLENOID
F	INDOOR FAN RELAY	SM	SYSTEM "ON-OFF" SWITCH
HA	HEATING ANTICIPATOR	TDL	DISCHARGE LINE THERMOSTAT
HPCO	HIGH PRESSURE CUTOUT SW.	TNS	TRANSFORMER
IOL	INTERNAL OVERLOAD PROTECTOR	TS	HEATING-COOLING THERMOSTAT
		TSH	HEATING THERMOSTAT

Dimensions

2TWA0 OUTLINE DRAWING

Note: All dimensions are in MM (Inches).



MODELS	BASE	FIG.	A	B	C	D	E	F	G	H	J	K
2TWA0030A	2	2	730 (28-3/4)	724 (28-1/2)	651 (25-5/8)	3/4	5/16	137 (5-3/8)	65 (2-5/8)	210 (8-1/4)	57 (2-1/4)	457 (18)
2TWA0036A	2	2	730 (28-3/4)	724 (28-1/2)	651 (25-5/8)	7/8	3/8	137 (5-3/8)	65 (2-5/8)	210 (8-1/4)	57 (2-1/4)	457 (18)
2TWA0042A	3	1	832 (32-3/4)	829 (32-5/8)	756 (29-3/4)	7/8	3/8	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	508 (20)
2TWA0048A	3	1	832 (32-3/4)	829 (32-5/8)	756 (29-3/4)	1-1/8	3/8	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	508 (20)
2TWA0060A	4	1	841 (33-1/8)	946 (37-1/4)	870 (34-1/4)	1-1/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
2TWA0072A	4	1	1045 (41-1/8)	946 (37-1/4)	870 (34-1/4)	1-1/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)



Mechanical Specification Options

General

The 2TWA0 is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities are matched with a wide selection of air handlers and furnace coils. The unit is certified to UL 1995. Exterior is designed for outdoor application.

Casing

Unit casing is constructed of heavy gauge, G90 galvanized steel and painted with a weather-resistant powder paint on all louvers, panels, prepaint on all other panels. Corrosion and weather-proof CMBP-G30 DuraTuff™ base.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor contactor and high pressure switch. High and low pressure controls are inherent to the compressor. A factory installed liquid line drier is standard.

Compressor

The Climatuff® compressor features internal over temperature and pressure protection and total dipped hermetic motor. Other features include: roto lock suction and discharge refrigerant connections, centrifugal oil pump and low vibration and noise.

Condenser Coil

The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Low Ambient Cooling

As manufactured, this unit has a cooling capability to 55°F. The addition of an evaporator defrost control permits operation to 40° F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 30° F.

Accessories

Thermostats — Cooling only and heat/cooling (manual and automatic changeover). Sub-base to match thermostat and locking thermostat cover.

Evaporator Defrost Control — See Low Ambient Cooling.

