

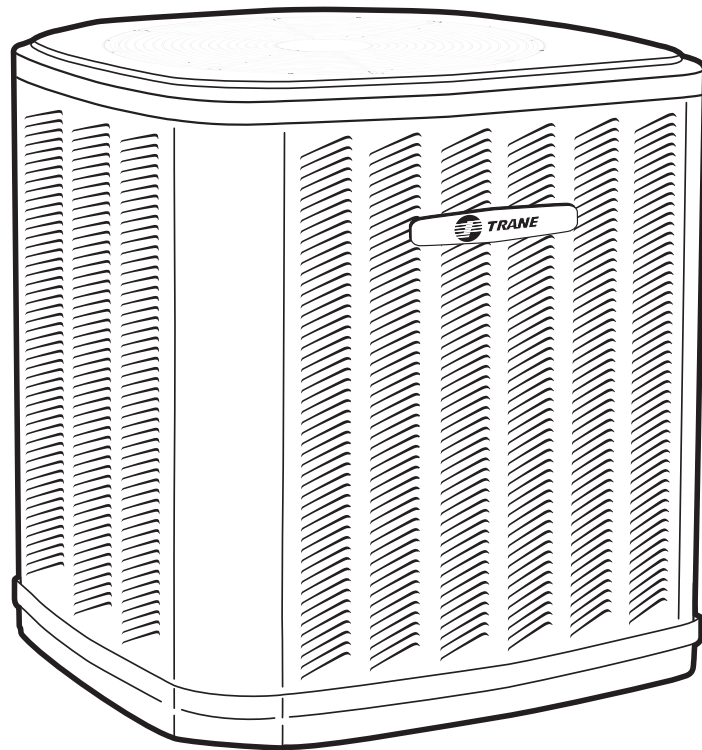


# Split System Heat Pump Product Data

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**2TWB0012-060A**

**1½ – 5 Tons**



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**22-1744-04**



# General Features

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## Split System Heat Pump Units . . . The Evolution Continues

2TWB0 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

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<b>General Features</b>	<b>2</b>
<b>Features and Benefits</b>	<b>4</b>
Optional Equipment	5
Low Outdoor Ambient Cooling	5
A.R.I. Standard Capacity Rating Conditions	5
<b>Selection Procedure</b>	<b>6</b>
Model Number Nomenclature	6
<b>General Data</b>	<b>7</b>
2TWB0012A1000C	7
2TWB0018A1000C	8
2TWB0024A1000C	9
2TWB0030A1000C	10
2TWB0036A1000C	11
2TWB0042A1000C	12
2TWB0048A1000C	13
2TWB0060A1000C	14
<b>Electrical Data</b>	<b>15</b>
<b>Dimensions</b>	<b>17</b>
<b>Mechanical Specification Options</b>	<b>18</b>



## Features and Benefits

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- **Climatuff**<sup>®</sup> compressor
- All aluminum **Spine Fin**<sup>™</sup> coil
- **DuraTuff**<sup>™</sup> base, fast complete drain, weather proof
- New cabinet with polystate gray cabinet
- **Quick-Sess**<sup>™</sup> cabinet, service access and refrigerant connections with full coil protection
- Corrosion resistant finish and fasteners
- Internal high/low pressure & temperature protection
- Liquid line filter-drier
- Easy single side service
- Multi-use liquid and suction line service valves
- Easy top & fan removal
- Full length control 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 to 40°F with EDC accessory AY28X084
- Low ambient cooling to 30°F with EDC accessory AY28X084 and TXV



# Features and Benefits

## Optional Equipment

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

Indoor Thermostats — Elec. Setback Thermostat .....	TAYSTAT500C [ ]
Prog., 5/2 Day, Manual .....	TAYSTAT540 [ ]
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 [ ]
Humidistat .....	BAYSTAT253 [ ]
Outdoor Thermostats 46°F. to – 10°F. (Adjustable) .....	TAYSTAT250B [ ]
Evaporator Defrost Control Kit .....	AY28X084 [ ]
Indoor Fan Delay Relay .....	BAY24X045 [ ]
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 [ ]
Start Kit (1-5 ton models) .....	BAYSKT257 [ ]
Extreme Conditions Mounting Kit .....	BAYECMT001 [ ]
Seacoast Kit .....	BAYSEAC001 [ ]
Isolators .....	BAYISLT101 [ ]
Low Ambient Kit .....	BAYLOAM103 [ ]

① Do not use with programmable thermostats

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

5/8" ODM (90° bend, one end), 5/8" and 1/4" tubing .....	TAYREFLN1__* [ ]
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

## A.R.I. Standard Capacity Rating Conditions

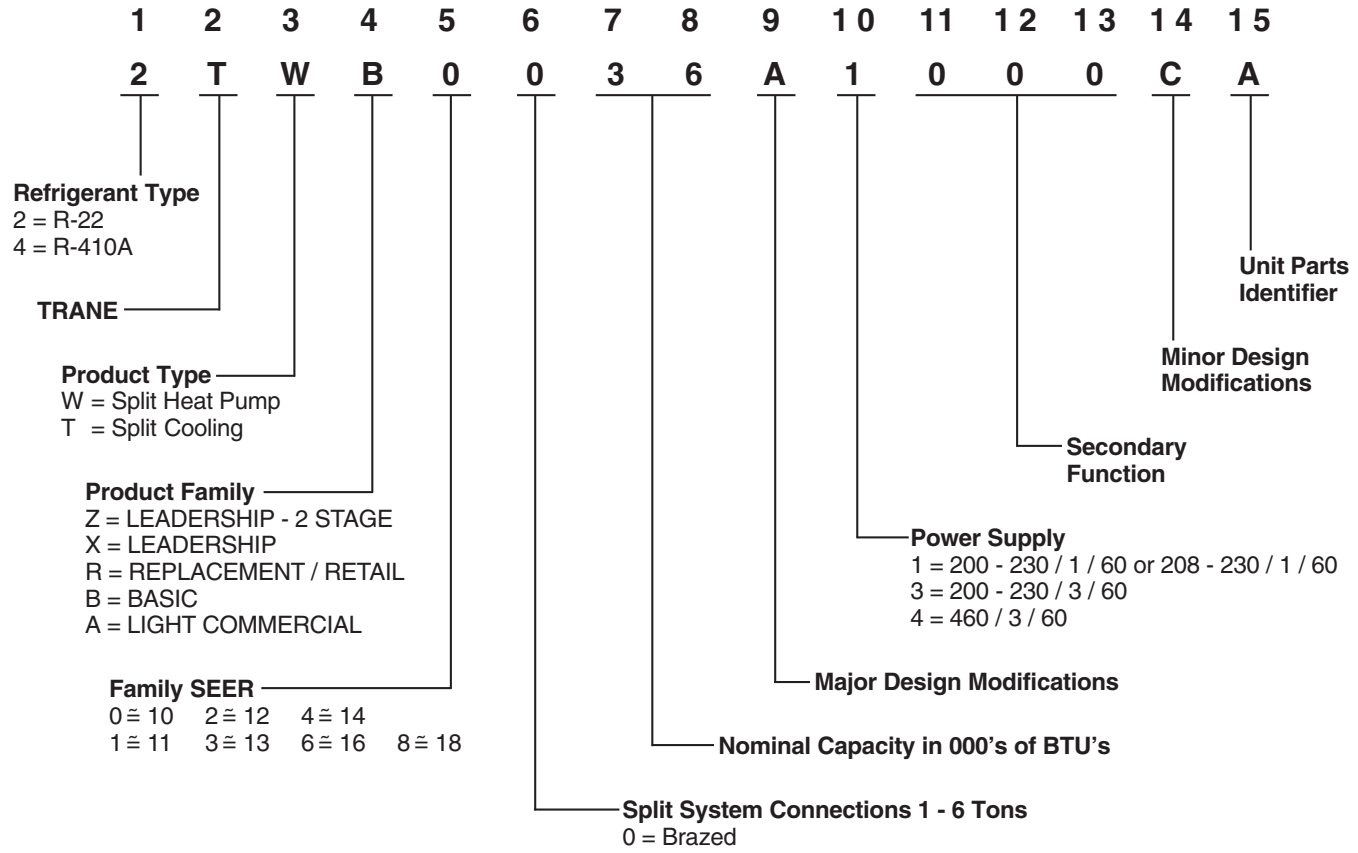
**A.R.I. STANDARD 210/240 RATING CONDITIONS** — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil. (B) High Temperature Heating 47°F. D.B., 43°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (C) Low Temperature Heating 17°F. D.B., 15°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (D) Rated indoor airflow for heating is the same as for cooling.

**A.R.I. STANDARD 270 RATING CONDITIONS** — (Noise rating numbers are determined with the unit in cooling operation.) Standard Noise Rating number is at 95°F. outdoor air.



# Selection Procedure

## Model Number Nomenclature





# General Data

## 2TWB0012A1000C

OUTDOOR UNIT	2TWB0012A1000C
<b>SOUND RATING (DECIBELS)</b>	79
<b>POWER CONNS. — V/PH/Hz</b>	200/230/1/60
MIN. BRCH. CIR. AMPACITY	10
BR. CIR. PROT. RTG. - MAX. (AMPS)	15
<b>COMPRESSOR</b>	CLIMATUFF®
NO. USED - NO. SPEEDS	1 - 1
VOLTS/PH/Hz	200/230/1/60
R.L. AMPS ⑤ - L.R. AMPS	7.5 - 42
FACTORY INSTALLED	
START COMPONENTS ⑥	NO
INSULATION/SOUND BLANKET	NO
COMPRESSOR HEAT	YES
<b>OUTDOOR FAN — TYPE</b>	PROPELLER
DIA. (IN.) - NO. USED	19 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1
CFM @ 0.0 IN. W.G. ②	1575
NO. MOTORS - HP.	1 - 1/15
MOTOR SPEED R.P.M.	825
VOLTS/PH/Hz	200/230/1/60
F.L. AMPS	0.6
<b>OUTDOOR COIL — TYPE</b>	SPINE FIN™
ROWS - FP.I.	1 - 24
FACE AREA (SQ. FT.)	9.72
TUBE SIZE (IN.)	3/8
REFRIGERANT CONTROL	EXPANSION VALVE
<b>REFRIGERANT</b>	R-22
(O.D. UNIT) NP CHR.G. ③	4/09-LB/OZ
FIELD SUPPLIED	YES
LINE SIZE - IN. O.D. GAS ④	5/8
LINE SIZE - IN. O.D. LIQ. ④	1/4
<b>FCCV</b>	
RESTRICTOR ORIFICE SIZE	0.047
<b>DIMENSIONS</b>	H X W X D
OUTDOOR UNIT CRATED (IN.)	30.1 X 26.7 X 30.2
UNCRATED	SEE OUTLINE DWG.
<b>WEIGHT</b>	
SHIPPING (LBS.)	169
NET (LBS.)	150

- 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

## 2TWB0018A1000C

OUTDOOR UNIT	2TWB0018A1000C
<b>SOUND RATING (DECIBELS)</b>	79
<b>POWER CONNS.</b> — V/PH/Hz	200/230/1/60
MIN. BRCH. CIR. AMPACITY	10
BR. CIR. PROT. RTG. - MAX. (AMPS)	15
<b>COMPRESSOR</b>	CLIMATUFF®
NO. USED - NO. SPEEDS	1 - 1
VOLTS/PH/Hz	200/230/1/60
R.L. AMPS ⑤ - L.R. AMPS	7.3 - 42
FACTORY INSTALLED	
START COMPONENTS ⑥	NO
INSULATION/SOUND BLANKET	NO
COMPRESSOR HEAT	YES
<b>OUTDOOR FAN</b> — TYPE	PROPELLER
DIA. (IN.) - NO. USED	19 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1
CFM @ 0.0 IN. W.G. ②	1575
NO. MOTORS - HP.	1 - 1/15
MOTOR SPEED R.P.M.	825
VOLTS/PH/Hz	200/230/1/60
F.L. AMPS	0.6
<b>OUTDOOR COIL</b> — TYPE	SPINE FIN™
ROWS - FP.I.	1 - 24
FACE AREA (SQ. FT.)	9.72
TUBE SIZE (IN.)	3/8
REFRIGERANT CONTROL	EXPANSION VALVE
<b>REFRIGERANT</b>	R-22
(O.D. UNIT) NP CHR.G. ③	4/05-LB/OZ
FIELD SUPPLIED	YES
LINE SIZE - IN. O.D. GAS ④	5/8
LINE SIZE - IN. O.D. LIQ. ④	1/4
<b>FCCV</b>	
RESTRICTOR ORIFICE SIZE	0.049
<b>DIMENSIONS</b>	H X W X D
OUTDOOR UNIT CRATED (IN.)	30.1 X 26.7 X 30.2
UNCRATED	SEE OUTLINE DWG.
<b>WEIGHT</b>	
SHIPPING (LBS.)	169
NET (LBS.)	150

- 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

## 2TWB0024A1000C

OUTDOOR UNIT	2TWB0024A1000C
<b>SOUND RATING (DECIBELS)</b>	79
<b>POWER CONNS. — V/PH/Hz</b>	200/230/1/60
MIN. BRCH. CIR. AMPACITY	15
BR. CIR. PROT. RTG. - MAX. (AMPS)	25
<b>COMPRESSOR</b>	CLIMATUFF®
NO. USED - NO. SPEEDS	1 - 1
VOLTS/PH/Hz	200/230/1/60
R.L. AMPS ⑤ - L.R. AMPS	10.9 - 60
FACTORY INSTALLED	
START COMPONENTS ⑥	NO
INSULATION/SOUND BLANKET	NO
COMPRESSOR HEAT	YES
<b>OUTDOOR FAN — TYPE</b>	PROPELLER
DIA. (IN.) - NO. USED	19 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1
CFM @ 0.0 IN. W.G. ②	2175
NO. MOTORS - HP.	1 - 1/8
MOTOR SPEED R.P.M.	1075
VOLTS/PH/Hz	200/230/1/60
F.L. AMPS	0.9
<b>OUTDOOR COIL — TYPE</b>	SPINE FIN™
ROWS - FP.I.	1 - 24
FACE AREA (SQ. FT.)	9.72
TUBE SIZE (IN.)	3/8
REFRIGERANT CONTROL	EXPANSION VALVE
<b>REFRIGERANT</b>	R-22
(O.D. UNIT) NP CHR.G. ③	4/08-LB/OZ
FIELD SUPPLIED	YES
LINE SIZE - IN. O.D. GAS ④	3/4
LINE SIZE - IN. O.D. LIQ. ④	5/16
<b>FCCV</b>	
RESTRICTOR ORIFICE SIZE	0.057
<b>DIMENSIONS</b>	H X W X D
OUTDOOR UNIT CRATED (IN.)	30.1 X 26.7 X 30.2
UNCRATED	SEE OUTLINE DWG.
<b>WEIGHT</b>	
SHIPPING (LBS.)	177
NET (LBS.)	158

- 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

## 2TWB0030A1000C

OUTDOOR UNIT	2TWB0030A1000C
<b>SOUND RATING (DECIBELS)</b>	81
<b>POWER CONNS. — V/PH/Hz</b> ①	200/230/1/60
MIN. BRCH. CIR. AMPACITY	17
BR. CIR. PROT. RTG. - MAX. (AMPS)	25
<b>COMPRESSOR</b>	CLIMATUFF®
NO. USED - NO. SPEEDS	1 - 1
VOLTS/PH/Hz	200/230/1/60
R.L. AMPS ⑤ - L.R. AMPS	12.6 - 71
FACTORY INSTALLED	
START COMPONENTS ⑥	NO
INSULATION/SOUND BLANKET	NO
COMPRESSOR HEAT	YES
<b>OUTDOOR FAN — TYPE</b>	PROPELLER
DIA. (IN.) - NO. USED	19 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1
CFM @ 0.0 IN. W.G. ②	2475
NO. MOTORS - HP.	1 - 1/4
MOTOR SPEED R.P.M.	1075
VOLTS/PH/Hz	200/230/1/60
F.L. AMPS	1.3
<b>OUTDOOR COIL — TYPE</b>	SPINE FIN™
ROWS - FP.I.	1 - 24
FACE AREA (SQ. FT.)	13.75
TUBE SIZE (IN.)	3/8
REFRIGERANT CONTROL	EXPANSION VALVE
<b>REFRIGERANT</b>	R-22
(O.D. UNIT) NP CHR.G. ③	4/11-LB/OZ
FIELD SUPPLIED	YES
LINE SIZE - IN. O.D. GAS ④	3/4
LINE SIZE - IN. O.D. LIQ. ④	5/16
<b>FCCV</b>	
RESTRICTOR ORIFICE SIZE	0.067
<b>DIMENSIONS</b>	H X W X D
OUTDOOR UNIT CRATED (IN.)	33.2 X 26.7 X 30.2
UNCRATED	SEE OUTLINE DWG.
<b>WEIGHT</b>	
SHIPPING (LBS.)	187
NET (LBS.)	167

- 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

## 2TWB0036A1000C

OUTDOOR UNIT ①②	2TWB0036A1000C
<b>SOUND RATING (DECIBELS) ②</b>	81
<b>POWER CONNS. — V/PH/Hz ①</b>	200/230/1/60
MIN. BRCH. CIR. AMPACITY	20
BR. CIR. PROT. RTG. - MAX. (AMPS)	30
<b>COMPRESSOR</b>	CLIMATUFF®
NO. USED - NO. SPEEDS	1 - 1
VOLTS/PH/Hz	200/230/1/60
R.L. AMPS ⑤ - L.R. AMPS	14.7 - 87
FACTORY INSTALLED	
START COMPONENTS ⑥	NO
INSULATION/SOUND BLANKET	NO
COMPRESSOR HEAT	YES
<b>OUTDOOR FAN — TYPE</b>	PROPELLER
DIA. (IN.) - NO. USED	19 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1
CFM @ 0.0 IN. W.G. ②	2475
NO. MOTORS - HP.	1 - 1/4
MOTOR SPEED R.P.M.	1075
VOLTS/PH/Hz	200/230/1/60
F.L. AMPS	1.3
<b>OUTDOOR COIL — TYPE</b>	SPINE FIN™
ROWS - FP.I.	1 - 24
FACE AREA (SQ. FT.)	11.32
TUBE SIZE (IN.)	3/8
REFRIGERANT CONTROL	EXPANSION VALVE
<b>REFRIGERANT</b>	R-22
(O.D. UNIT) NP CHR.G. ③	5/15-LB/OZ
FIELD SUPPLIED	YES
LINE SIZE - IN. O.D. GAS ④	7/8
LINE SIZE - IN. O.D. LIQ. ④	3/8
<b>FCCV</b>	
RESTRICTOR ORIFICE SIZE	0.067
<b>DIMENSIONS</b>	H X W X D
OUTDOOR UNIT CRATED (IN.)	33.2 X 26.7 X 30.2
UNCRATED	SEE OUTLINE DWG.
<b>WEIGHT</b>	
SHIPPING (LBS.)	189
NET (LBS.)	169

- 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

## 2TWB0042A1000C

OUTDOOR UNIT	2TWB0042A1000C
<b>SOUND RATING (DECIBELS)</b>	79
<b>POWER CONNS. — V/PH/Hz</b> ①	200/230/1/60
MIN. BRCH. CIR. AMPACITY	23
BR. CIR. PROT. RTG. - MAX. (AMPS)	40
<b>COMPRESSOR</b>	CLIMATUFF®
NO. USED - NO. SPEEDS	1 - 1
VOLTS/PH/Hz	200/230/1/60
R.L. AMPS ⑤ - L.R. AMPS	17.3 - 92
FACTORY INSTALLED	
START COMPONENTS ⑥	NO
INSULATION/SOUND BLANKET	NO
COMPRESSOR HEAT	YES
<b>OUTDOOR FAN — TYPE</b>	PROPELLER
DIA. (IN.) - NO. USED	23 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1
CFM @ 0.0 IN. W.G. ②	3325
NO. MOTORS - HP.	1 - 1/6
MOTOR SPEED R.P.M.	825
VOLTS/PH/Hz	200/230/1/60
F.L. AMPS	1.4
<b>OUTDOOR COIL — TYPE</b>	SPINE FIN™
ROWS - FP.I.	1 - 24
FACE AREA (SQ. FT.)	15.18
TUBE SIZE (IN.)	3/8
REFRIGERANT CONTROL	EXPANSION VALVE
<b>REFRIGERANT</b>	R-22
(O.D. UNIT) NP CHR.G. ③	6/08-LB/OZ
FIELD SUPPLIED	YES
LINE SIZE - IN. O.D. GAS ④	7/8
LINE SIZE - IN. O.D. LIQ. ④	3/8
<b>FCCV</b>	
RESTRICTOR ORIFICE SIZE	0.075
<b>DIMENSIONS</b>	H X W X D
OUTDOOR UNIT CRATED (IN.)	30.1 X 30.1 X 33.8
UNCRATED	SEE OUTLINE DWG.
<b>WEIGHT</b>	
SHIPPING (LBS.)	247
NET (LBS.)	220

- 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

## 2TWB0048A1000C

OUTDOOR UNIT	2TWB0048A1000C
<b>SOUND RATING (DECIBELS)</b>	80
<b>POWER CONNS. — V/PH/Hz</b> ①	200/230/1/60
MIN. BRCH. CIR. AMPACITY	26
BR. CIR. PROT. RTG. - MAX. (AMPS)	40
<b>COMPRESSOR</b>	CLIMATUFF®
NO. USED - NO. SPEEDS	1 - 1
VOLTS/PH/Hz	200/230/1/60
R.L. AMPS ⑤ - L.R. AMPS	19.0 - 105
FACTORY INSTALLED	
START COMPONENTS ⑥	NO
INSULATION/SOUND BLANKET	YES
COMPRESSOR HEAT	YES
<b>OUTDOOR FAN — TYPE</b>	PROPELLER
DIA. (IN.) - NO. USED	23 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1
CFM @ 0.0 IN. W.G. ②	3675
NO. MOTORS - HP.	1 - 1/4
MOTOR SPEED R.P.M.	825
VOLTS/PH/Hz	200/230/1/60
F.L. AMPS	1.9
<b>OUTDOOR COIL — TYPE</b>	SPINE FIN™
ROWS - FP.I.	1 - 24
FACE AREA (SQ. FT.)	15.18
TUBE SIZE (IN.)	3/8
REFRIGERANT CONTROL	EXPANSION VALVE
<b>REFRIGERANT</b>	R-22
(O.D. UNIT) NP CHR.G. ③	8/04-LB/OZ
FIELD SUPPLIED	YES
LINE SIZE - IN. O.D. GAS ④	1-1/8
LINE SIZE - IN. O.D. LIQ. ④	3/8
<b>FCCV</b>	
RESTRICTOR ORIFICE SIZE	0.083
<b>DIMENSIONS</b>	H X W X D
OUTDOOR UNIT CRATED (IN.)	30.1 X 30.1 X 33.8
UNCRATED	SEE OUTLINE DWG.
<b>WEIGHT</b>	
SHIPPING (LBS.)	255
NET (LBS.)	228

- 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

## 2TWB0060A1000C

OUTDOOR UNIT	2TWB0060A1000C
<b>SOUND RATING (DECIBELS)</b>	81
<b>POWER CONNS. — V/PH/Hz</b> ①	200/230/1/60
MIN. BRCH. CIR. AMPACITY	34
BR. CIR. PROT. RTG. - MAX. (AMPS)	50
<b>COMPRESSOR</b>	CLIMATUFF®
NO. USED - NO. SPEEDS	1 - 1
VOLTS/PH/Hz	200/230/1/60
R.L. AMPS ⑤ - L.R. AMPS	25.9 - 141
FACTORY INSTALLED	
START COMPONENTS ⑥	NO
INSULATION/SOUND BLANKET	YES
COMPRESSOR HEAT	YES
<b>OUTDOOR FAN — TYPE</b>	PROPELLER
DIA. (IN.) - NO. USED	27.6 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1
CFM @ 0.0 IN. W.G. ②	4400
NO. MOTORS - HP.	1 - 1/6
MOTOR SPEED R.P.M.	825
VOLTS/PH/Hz	200/230/1/60
F.L. AMPS	1.4
<b>OUTDOOR COIL — TYPE</b>	SPINE FIN™
ROWS - FP.I.	1 - 24
FACE AREA (SQ. FT.)	21.99
TUBE SIZE (IN.)	3/8
REFRIGERANT CONTROL	EXPANSION VALVE
<b>REFRIGERANT</b>	R-22
(O.D. UNIT) NP CHR.G. ③	9/08-LB/OZ
FIELD SUPPLIED	YES
LINE SIZE - IN. O.D. GAS ④	1-1/8
LINE SIZE - IN. O.D. LIQ. ④	3/8
<b>FCCV</b>	
RESTRICTOR ORIFICE SIZE	0.095
<b>DIMENSIONS</b>	H X W X D
OUTDOOR UNIT CRATED (IN.)	38.4 X 35.1 X 38.7
UNCRATED	SEE OUTLINE DWG.
<b>WEIGHT</b>	
SHIPPING (LBS.)	291
NET (LBS.)	259

- 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.
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- 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.



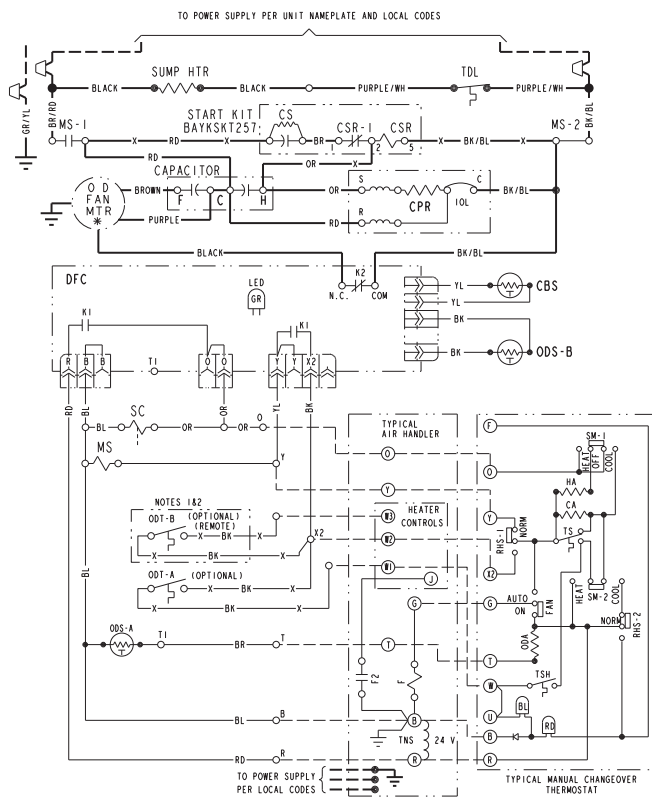


# Electrical Data

## SCHEMATIC DIAGRAMS

(SEE LEGEND)

### 2TWB0012-048A



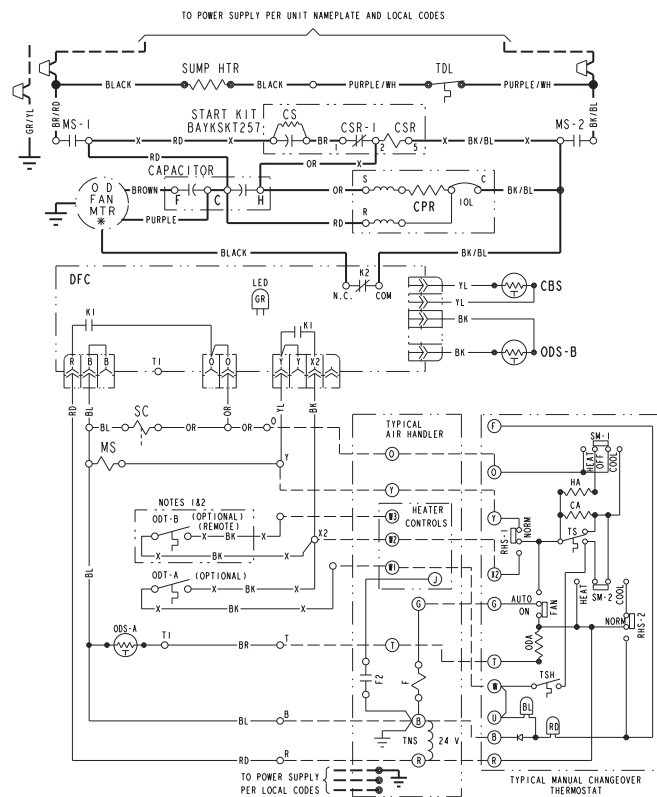
**NOTES:**

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><b>⚠ WARNING</b> 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><b>⚠ CAUTION</b> 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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FOR CANADIAN INSTALLATIONS  
POUR INSTALLATIONS CANADIENNES  
CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND.  
ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE.

### 2TWB0060A



**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><b>⚠ WARNING</b> 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><b>⚠ CAUTION</b> 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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FOR CANADIAN INSTALLATIONS  
POUR INSTALLATIONS CANADIENNES  
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

















# 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

### SYMBOL

	24 V.	}	FACTORY WIRING
	LINE V.		
	24 V.	}	FIELD WIRING
	LINE V.		
	FIELD INSTALLED FACTORY WIRING		
	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		

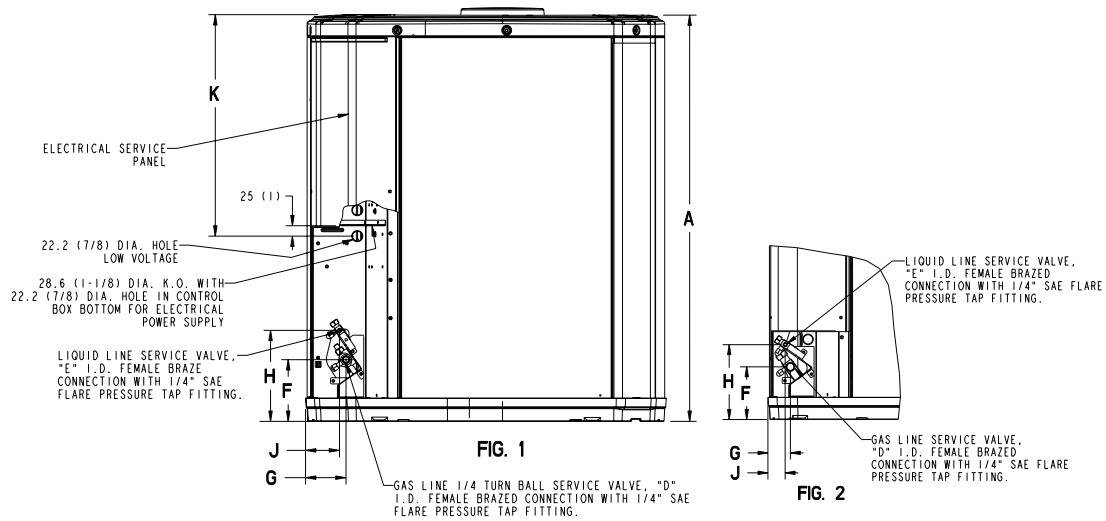
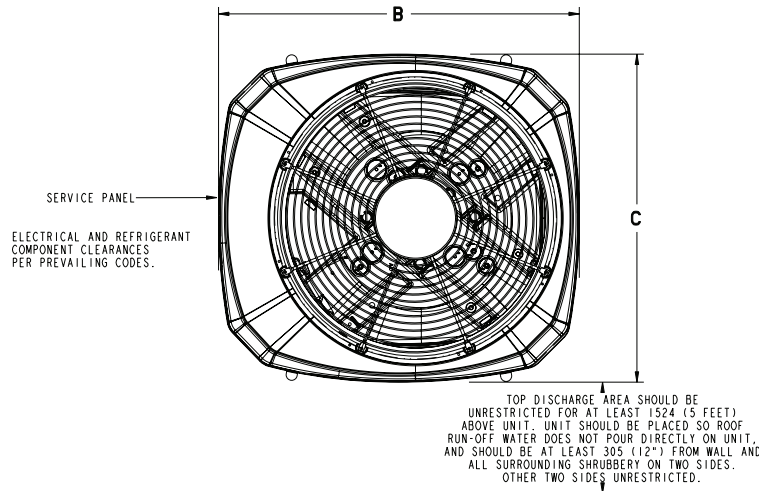
CA	COOLING ANTICIPATOR	LPCO	LOW PRESSURE CUTOUT SW.
CBS	COIL BOTTOM SENSOR	MS	COMPRESSOR MOTOR CONTACTOR
CF	FAN CAPACITOR	ODA	OUTDOOR ANTICIPATOR
CN	WIRE CONNECTOR	OFT	OUTDOOR FAN THERMOSTAT
CPR	COMPRESSOR	ODS	OUTDOOR TEMPERATURE SENSOR
CR	RUN CAPACITOR	ODT	OUTDOOR THERMOSTAT
CS	STARTING CAPACITOR	RHS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



# Dimensions

## 2TWB0 OUTLINE DRAWING

Note: All dimensions are in MM (Inches).



MODELS	BASE	FIG.	A	B	C	D	E	F	G	H	J	K
2TWB0012A	2	2	651 (25-5/8)	724 (28-1/2)	651 (25-5/8)	5/8	1/4	127 (5)	57 (2-1/4)	181 (7-1/8)	44 (1-3/4)	457 (18)
2TWB0018A	2	2	651 (25-5/8)	724 (28-1/2)	651 (25-5/8)	5/8	1/4	127 (5)	57 (2-1/4)	181 (7-1/8)	44 (1-3/4)	457 (18)
2TWB0024A	2	2	651 (25-5/8)	724 (28-1/2)	651 (25-5/8)	3/4	5/16	127 (5)	57 (2-1/4)	181 (7-1/8)	44 (1-3/4)	457 (18)
2TWB0030A	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)
2TWB0036A	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)
2TWB0042A	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)
2TWB0048A	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)
2TWB0060A	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)

From Dwg. 21D153074 Rev. 6



# Mechanical Specification Options

## General

The 2TWB0 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, pre-paint 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.



02/10



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