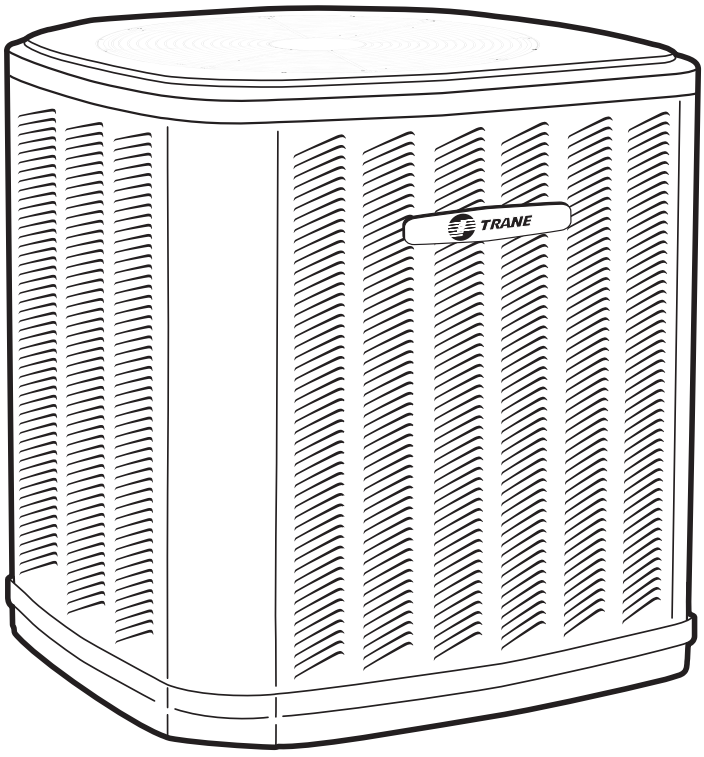
Split System Heat Pump Product Data

Three Phase
4TWA3030-060A3/4

2½ – 5 Tons



PUB. NO. 22-1792-08

Features and Benefits

- **Climatuff®** compressor
- All aluminum **Spine Fin™** coil
- **WeatherGuard™** fasteners
- **Quick-Sess™** cabinet, service access and refrigerant connections with full coil protection
- **DuraTuff™** base, fast complete drain, weatherproof
- **Comfort "R"™** mode approved
- Glossy corrosion resistant finish
- Internal compressor high/low pressure and temperature protection
- Liquid line filter-drier
- Polyslate gray cabinet with anthracite gray badge and cap
- Low pressure switch
- High pressure switch
- Compressor Sump Heat
- Demand Defrost Control with Diagnostics
- R-410A refrigerant
- S.E.E.T. design testing
- 100% line run test
- Low ambient cooling to 55°F as shipped
- Low ambient cooling to 30°F with EDC accessory AY28X084
- Low ambient cooling to 0°F with BAY-LOAM103

- **Extended warranties available**

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Contents

Features and Benefits 2

General Data 4

- Product Specifications 4
- A-weighted Sound Power Level [dB(A)] 4
- Accessory Description and Usage 5
- ARI Standard Capacity Rating Conditions 5

Model Nomenclature 7

Electrical Data 8

Dimensions 12

Mechanical Specification Options 13

General Data

Product Specifications

Model No. ①	4TWA3030A3000C	4TWA3030A4000C	4TWA3036A3000C	4TWA3036A4000C
Electrical Data V/Ph/Hz ②	200/230/3/60	460/3/60	200/230/3/60	460/3/60
Min Cir Ampacity	11	5	16	7
Max Fuse Size (Amps)	15	15	25	15
Compressor	RECIP	RECIP	SCROLL	SCROLL
RL Amps - LR Amps	7.9 - 54.9	3.9 - 28.0	11.5 - 77	5.1 - 35
Outdoor Fan FL Amps	0.7	0.4	1.3	0.6
Fan HP	1/8	1/8	1/4	1/5
Fan Dia (inches)	23.0	23.0	27.6	27.6
Coil	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™
Refrigerant R-410A	6/01-LB/OZ	6/01-LB/OZ	7/15-LB/OZ	7/15-LB/OZ
Line Size - (in.) O.D. Gas ③	3/4	3/4	3/4	3/4
Line Size - (in.) O.D. Liquid ③	3/8	3/8	3/8	3/8
Charge Spec. Subcooling	9°	9°	10°	10°
Dimensions H x W x D (Crated)	42 x 30.1 x 33	42 x 30.1 x 33	42.4 x 35.1 x 38.7	42.4 x 35.1 x 38.7
Weight - Shipping	233	231	264	263
Weight - Net	204	202	229	228
Start Components	NO	NO	NO	NO
Sound Enclosure	NO	NO	NO	NO
Compressor Sump Heat	YES	YES	YES	YES
Optional Accessories: ④				
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A
Evaporator Defrost Control	AY28X084	AY28X084	AY28X084	AY28X084
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101
Snow Leg - Base & Cap 4" High	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003
Indoor Fan Delay Kit	BAY24X045	BAY24X045	BAY24X045	BAY24X045
Sound Enclosure	BAYSDEN001	BAYSDEN001	BAYSDEN003	BAYSDEN003
Extreme Condition Mounting Kit	BAYECMT023	BAYECMT023	BAYECMT004	BAYECMT004
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001
Low Ambient Kit	BAYLOAM103	BAYLOAM103	BAYLOAM103	BAYLOAM103
Refrigerant Lineset ⑤	TAYREFLN2*	TAYREFLN2*	TAYREFLN7*	TAYREFLN7*

① Certified in accordance with the Air-Source Unitary Heat Pump equipment certification program which is based on ARI Standard 210/240.
② Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
③ Standard line lengths - 60'. Standard lift - 60' Suction and Liquid line.
For Greater lengths and lifts refer to refrigerant piping software Pub# 32-3312-0†. (†denotes latest revision)
④ For accessory description and usage, see page 5.
⑤ * = 15, 20, 25, 30, 40 and 50 foot lineset available.

A-weighted Sound Power Level [dB(A)]

	SOUND POWER	A-WEIGHTED FULL OCTAVE SOUND POWER LEVEL dB - [dB(A)]							
MODEL	LEVEL [dB(A)]	63	125	250	500	1000	2000	4000	8000
4TWA3030A3/4	80	46.6	58.2	65.9	69.2	73.5	73.1	62.3	56.5
4TWA3036A3/4	79	46.4	59.6	67.4	74.8	73.8	68.9	61.2	53.4
4TWA3042A3/4	80	47.6	58.3	67.3	74.9	74.9	70.4	62.3	53.0
4TWA3048A3/4	78	47.0	56.5	66.7	73.0	72.8	69.3	62.0	51.4
4TWA3060A3/4	78	45.3	55.1	66.6	73.0	73.5	69.7	63.1	53.9

Note: Tested in accordance with ARI Standard 270.95. (Not listed with ARI)

General Data

Product Specifications

Model No. ①	4TWA3042A3000C	4TWA3042A4000C	4TWA3048A3000C	4TWA3048A4000C
Electrical Data V/Ph/Hz ②	200/230/3/60	460/3/60	200/230/3/60	460/3/60
Min Cir Ampacity	18	9	21	9
Max Fuse Size (Amps)	30	15	35	15
Compressor	SCROLL	SCROLL	SCROLL	SCROLL
RL Amps - LR Amps	13.5 - 88	6.4 - 39	16.0 - 91	7.1 - 46
Outdoor Fan FL Amps	1.3	0.6	1.3	0.6
Fan HP	1/4	1/5	1/6	1/5
Fan Dia (inches)	27.6	27.6	27.6	27.6
Coil	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™
Refrigerant R-410A	8/03-LB/OZ	8/03-LB/OZ	8/10-LB/OZ	8/10-LB/OZ
Line Size - (in.) O.D. Gas ③	3/4	3/4	7/8	7/8
Line Size - (in.) O.D. Liquid ③	3/8	3/8	3/8	3/8
Charge Spec. Subcooling	10°	10°	10°	10°
Dimensions H x W x D (Crated)	42.4 x 35.1 x 38.7	42.4 x 35.1 x 38.7	46.4 x 35.1 x 38.7	46.4 x 35.1 x 38.7
Weight - Shipping	269	268	277	276
Weight - Net	234	233	241	240
Start Components	NO	NO	NO	NO
Sound Enclosure	NO	NO	NO	NO
Compressor Sump Heat	YES	YES	YES	YES
Optional Accessories: ④				
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A
Evaporator Defrost Control	AY28X084	AY28X084	AY28X084	AY28X084
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101
Snow Leg - Base & Cap 4" High	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003
Indoor Fan Delay Kit	BAY24X045	BAY24X045	BAY24X045	BAY24X045
Sound Enclosure	BAYSDEN003	BAYSDEN003	BAYSDEN003	BAYSDEN003
Extreme Condition Mounting Kit	BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001
Low Ambient Kit	BAYLOAM103	BAYLOAM103	BAYLOAM103	BAYLOAM103
Refrigerant Lineset ⑤	TAYREFLN7*	TAYREFLN7*	TAYREFLN3*	TAYREFLN3*

Accessory Description and Usage

Anti-Short Cycle Timer — Solid state timing device that prevents compressor recycling until five (5) minutes have elapsed after satisfying call or power interruptions. Use in area with questionable power delivery, commercial applications, long lineset, etc.

Evaporator Defrost Control — SPST Temperature actuated switch that cycles the condenser off as indoor coil reaches freeze-up conditions. Used for low ambient cooling to 30°F with TXV.

Rubber Isolators — Five (5) large rubber donuts to isolate condensing unit from transmitting energy into mounting frame or pad. Use on any application where sound transmission needs to be minimized.

Hard Start kit — Start capacitor and relay to assist compressor motor startup. Use in areas with marginal power supply, on long linesets, low ambient conditions, etc.

Extreme Condition Mount Kit — Bracket kits to securely mount condensing unit to a frame or pad without removing any panels. Use in areas with high winds, or on commercial roof tops, etc.

ARI Standard Capacity Rating Conditions

ARI STANDARD 210/240 RATING CONDITIONS —

(A) Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.

(B) High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB air entering indoor coil.

(C) Low Temperature Heating 17°F DB, 15°F WB air entering outdoor coil, 70°F DB air entering indoor coil.

(D) Rated indoor airflow for heating is the same as for cooling.

ARI 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.

AHRI CERTIFIED™ www.ahridirectory.org Unitary Small HP AHRI Standard 210/240 Certification applies only when the complete system is listed with AHRI.

C ETL LISTED US Intertek

General Data

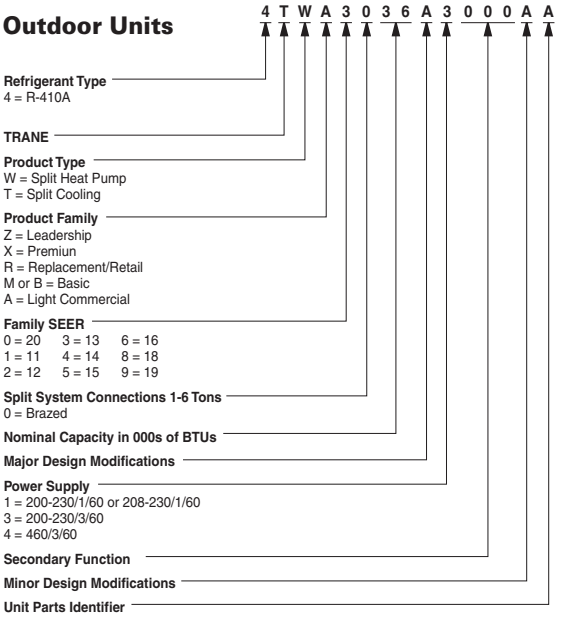
Product Specifications

Model No. ①	4TWA3060A3000C	4TWA3060A4000C
Electrical Data V/Ph/Hz ②	200/230/3/60	460/3/60
Min Cir Ampacity	24	12
Max Fuse Size (Amps)	40	20
Compressor	SCROLL	SCROLL
RL Amps - LR Amps	18.1 - 137	9.0 - 62
Outdoor Fan FL Amps	1.3	0.6
Fan HP	1/6	1/5
Fan Dia (inches)	27.6	27.6
Coil	Spine Fin™	Spine Fin™
Refrigerant R-410A	9/07-LB/OZ	9/07-LB/OZ
Line Size - (in.) O.D. Gas ③	7/8	7/8
Line Size - (in.) O.D. Liquid ③	3/8	3/8
Charge Spec. Subcooling	13°	13°
Dimensions H x W x D (Crated)	46.4 x 35.1 x 38.7	46.4 x 35.1 x 38.7
Weight - Shipping	297	296
Weight - Net	261	260
Start Components	NO	NO
Sound Enclosure	NO	NO
Compressor Sump Heat	YES	YES
Optional Accessories: ④		
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A
Evaporator Defrost Control	AY28X084	AY28X084
Rubber Isolator Kit	BAYISLT101	BAYISLT101
Snow Leg - Base & Cap 4" High	BAYLEGS002	BAYLEGS002
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003
Indoor Fan Delay Kit	BAY24X045	BAY24X045
Sound Enclosure	BAYSDEN004	BAYSDEN004
Extreme Condition Mounting Kit	BAYECMT004	BAYECMT004
Seacoast Kit	BAYSEAC001	BAYSEAC001
Low Ambient Kit	BAYLOAM103	BAYLOAM103
Refrigerant Lineset ⑤	TAYREFLN3*	TAYREFLN3*

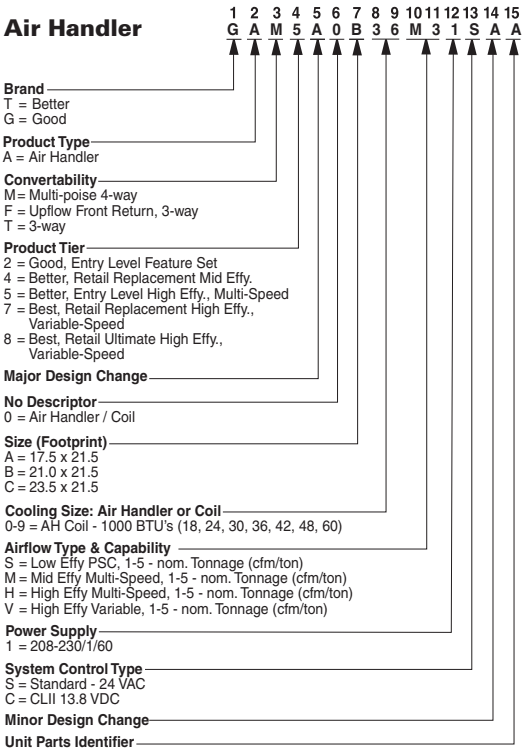
① Certified in accordance with the Air-Source Unitary Heat Pump equipment certification program which is based on ARI Standard 210/240.
② Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
③ Standard line lengths - 60'. Standard lift - 60' Suction and Liquid line.
For Greater lengths and lifts refer to refrigerant piping software Pub# 32-3312-0†. (†denotes latest revision)
④ For accessory description and usage, see page 5.
⑤ * = 15, 20, 25, 30, 40 and 50 foot lineset available.

Model Nomenclature

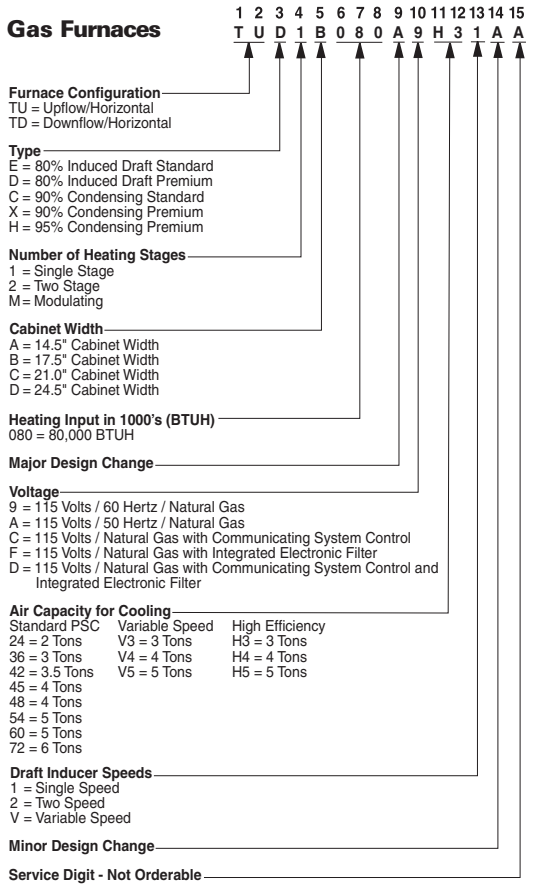
Outdoor Units



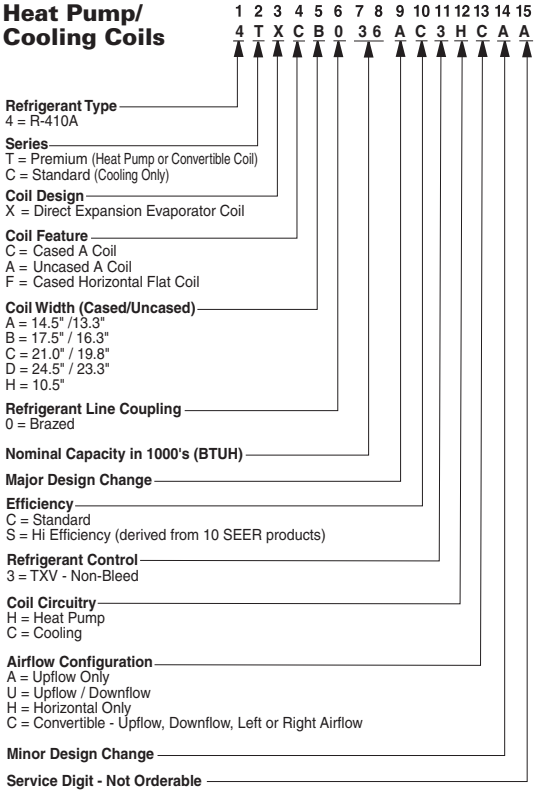
Air Handler



Gas Furnaces



Heat Pump/ Cooling Coils

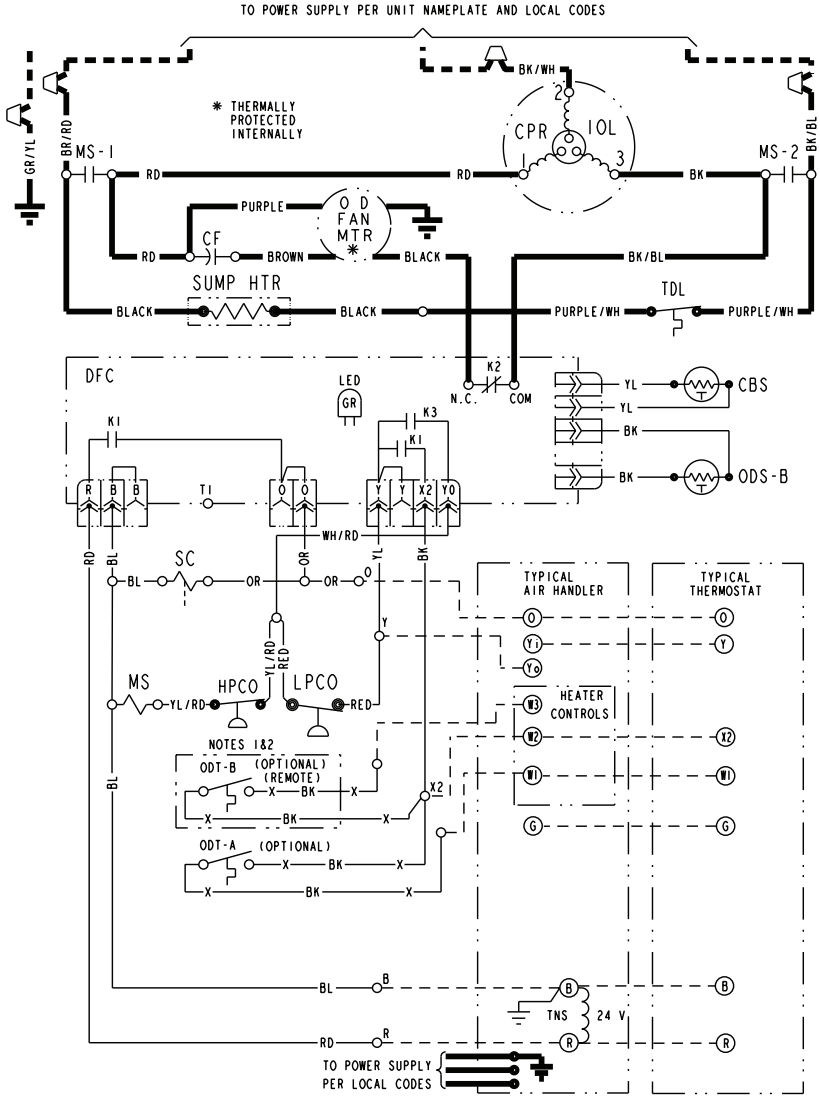


Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TWA3030A3000C



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

⚠ WARNING	⚠ CAUTION
HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!	USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!

BK/BL — COLOR OF WIRE; 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

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.

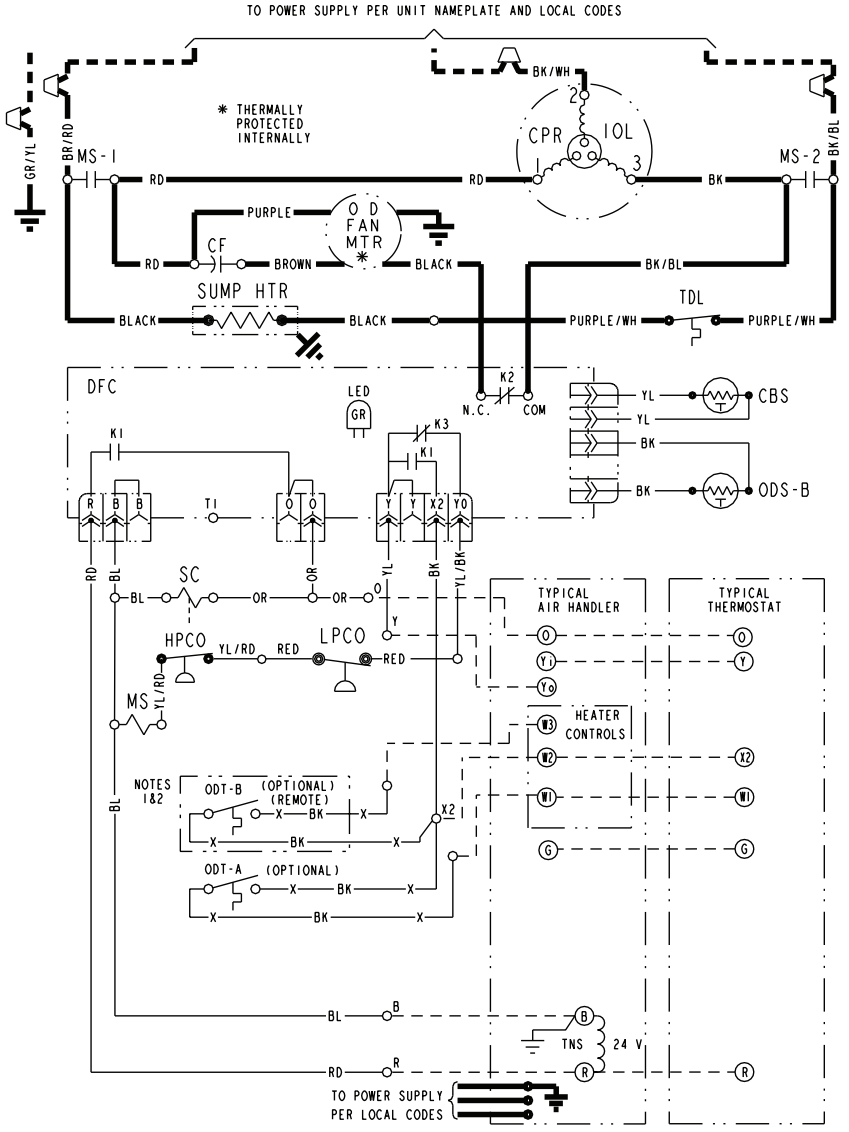
NOTE
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TWA3036A3000C, 4TWA3042A3000C, 4TWA3048A3000C, 4TWA3060A3000C



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

⚠ WARNING	⚠ CAUTION
HAZARDOUS VOLTAGE!	USE COPPER CONDUCTORS ONLY!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.	UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!	FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!

COLOR OF WIRE
BK/BL BLACK WIRE WITH BLUE MARKER
COLOR OF MARKER

BK	BLACK	OR	ORANGE	YL	YELLOW
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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.

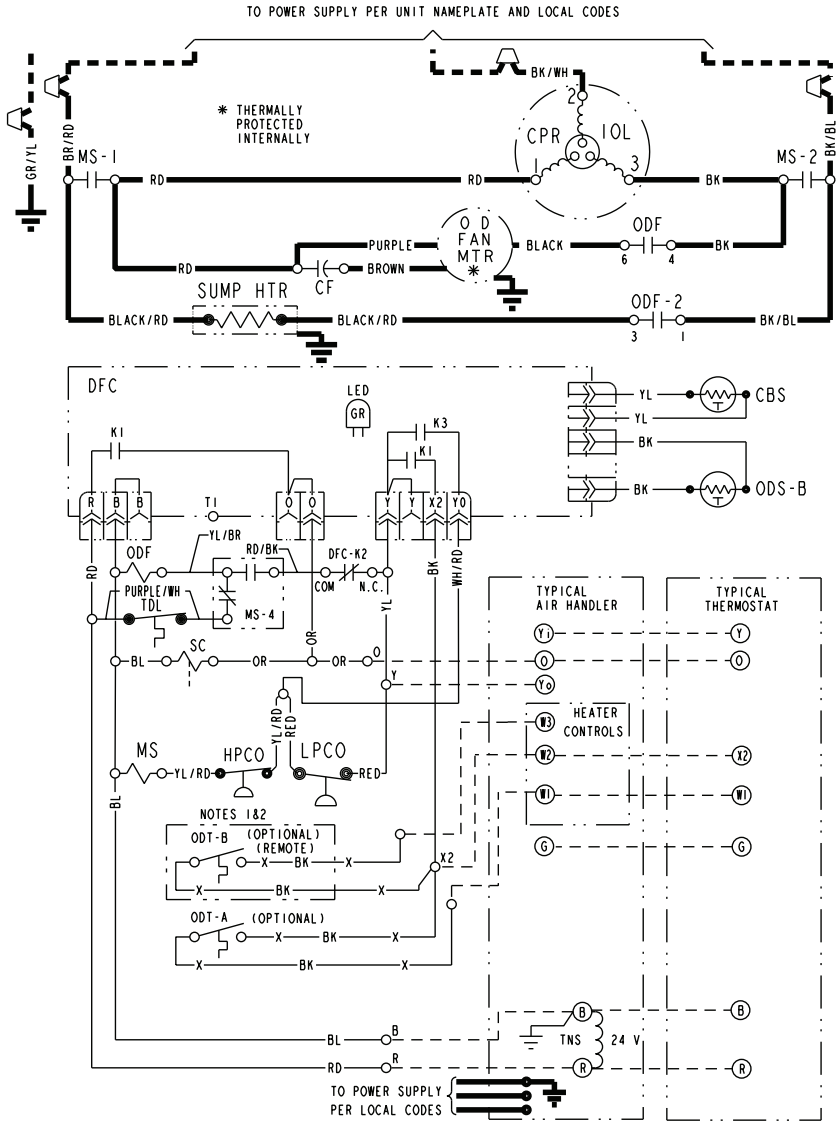
NOTE
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TWA3030A4000C



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
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BLACK WIRE WITH BLUE MARKER — COLOR OF MARKER

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NOTES:

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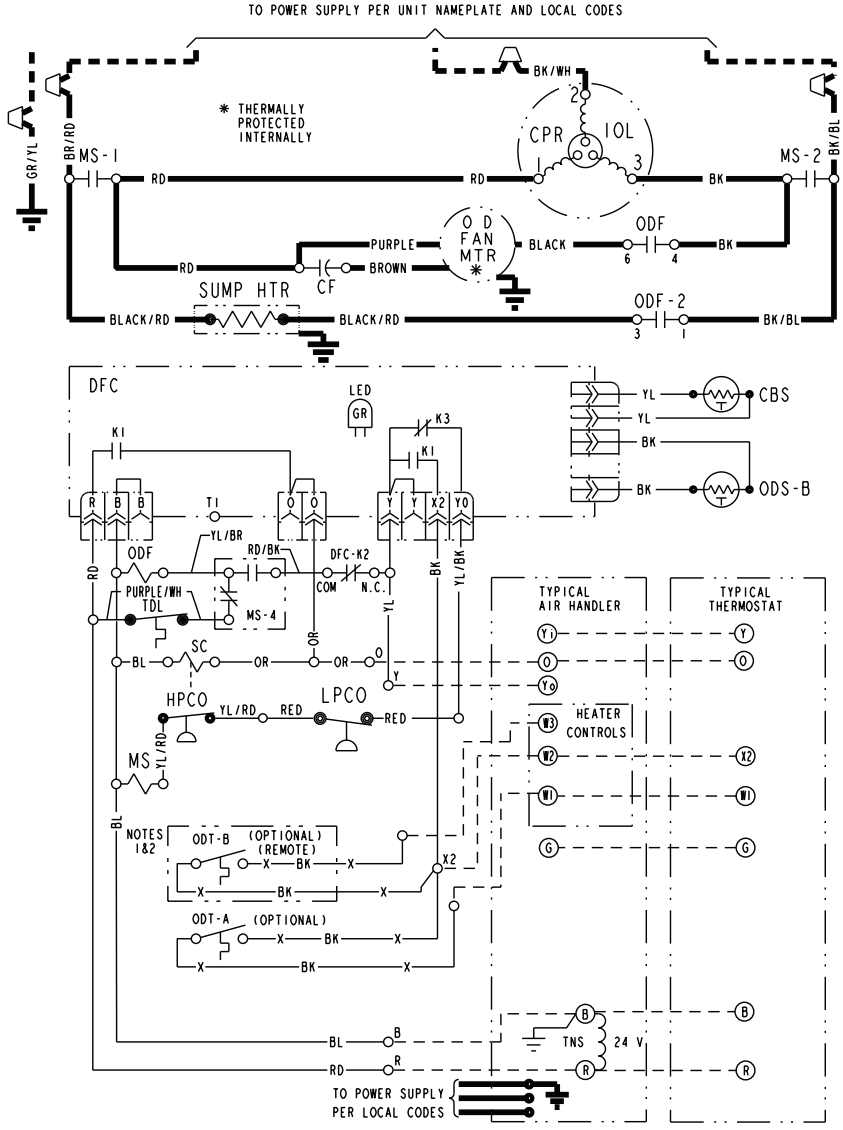
   IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

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

Schematic Diagrams

(SEE LEGEND)

4TWA3036A4000C, 4TWA3042A4000C, 4TWA3048A4000C, 4TWA3060A4000C



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
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CS	STARTING CAPACITOR	ODT	OUTDOOR THERMOSTAT
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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

NOTES:

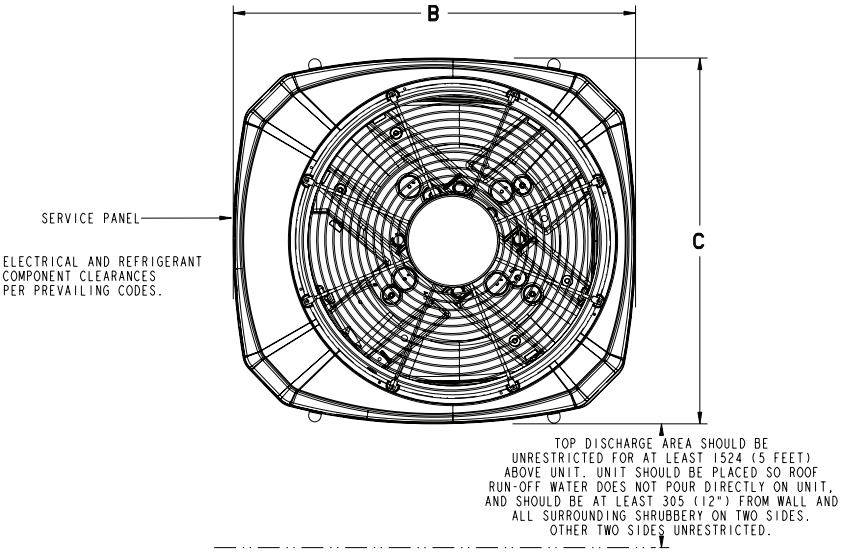
1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.
   IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

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

Dimensions

4TWA3 Outline Drawing

NOTE: ALL DIMENSIONS ARE IN MM (INCHES)



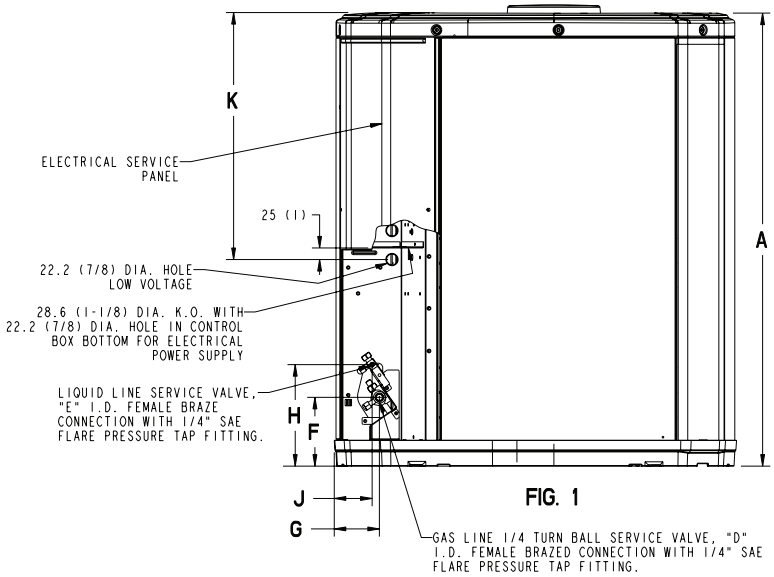


FIG. 1

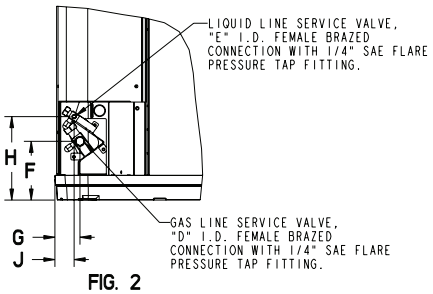


FIG. 2

MODELS	BASE	FIG.	A	B	C	D	E	F	G	H	J	K
4TWA3030A	3	1	933 (36-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	508 (20)
4TWA3036A	4	1	943 (37-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4TWA3042A	4	1	943 (37-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4TWA3048A	4	1	1045 (41-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4TWA3060A	4	1	1045 (41-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)

From Dwg. D153074 Rev. 15

Mechanical Specification Options

General
The 4TWA3 shall be fully charged from the factory for matched indoor section and up to 15 feet of piping. This unit must be designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities shall be matched with a wide selection of air handlers and furnace coils that are ARI certified. The unit is certified to UL 1995. Exterior must be designed for outdoor application.

Casing
Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint. Corrosion and weatherproof CMBP-G30 DuraTuff™ base.

Refrigerant Controls
Refrigeration system controls include condenser fan and compressor contactor. High and low pressure controls are inherent to the compressor. Another standard feature is the liquid line dryer.

Compressor
The Climatuff® compressor features internal over temperature and pressure protector and total dipped hermetic motor. Other features include: 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 30°F. The addition of a low ambient kit permits low ambient cooling to 0°F.

Accessories
Thermostats — Heating/Cooling (manual and automatic changeover). Sub-base to match thermostat and locking thermostat cover.

Evaporator Defrost Control — See Low Ambient Cooling.

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04/12

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