

MODELS 4A7A6018-61



## Features and Benefits

- **DURATION**<sup>™</sup> compressor
- Efficiency up to 17.0 SEER
- All aluminum **SPINE FIN™** coil
- WEATHERGUARD™ fasteners
- EASY-SESS™ cabinet, service access and refrigerant connections with full coil protection
- **DURABASE**<sup>™</sup> base, fast complete drain, weatherproof
- COMFORT-R™ mode approved
- Glossy corrosion resistant finish
- Internal compressor high/low pressure & temperature protection
- 018, 024 & 030 ship with start kit
- Liquid line filter/drier

- Spinnaker gray cabinet with high contrast badge and cap
- High pressure switch
- · Service valve cover
- R-410A refrigerant
- S.E.E.T. design testing
- 100% line run test
- Low ambient cooling to 30°F with AY28X079
- Low ambient cooling to 55°F as shipped
- · Extended warranties available



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## **General Data**

Product Specifications						
Model No. ①	4A7A6018H1000K	4A7A6024H1000A	4A7A6030H1000A	4A7A6036H1000A		
Electrical Data V/Ph/Hz ②	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60		
Min Cir Ampacity	9	9	12	19		
Max Fuse Size (Amps)	15	15	20	30		
Compressors	DURATION™	DURATION™	DURATION™	DURATION™ - SCROLL		
No. Used - No. Stages	1-1	1-1	1-1	1-1		
RL AMPS - LR AMPS	6.4 - 38.6	6.8 - 38.6	9.1 - 57.8	14.1 - 77		
Outdoor Fan FL Amps	0.74	0.74	0.93	0.93		
Fan HP	1/8	1/8	1/5	1/5		
Fan Dia (inches)	23	23	27.6	27.6		
Coil	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™		
Refrigerant R-410A	5/2-LB/OZ	6/3-LB/OZ	7/0-LB/OZ	7/4-LB/OZ		
Line Size - (in.) O.D. Gas 3	5/8	3/4	3/4	3/4		
Line Size - (in.) O.D. Liquid ③	3/8	3/8	3/8	3/8		
Dimensions H x W x D (Crated)	34 x 30.1 x 33	34 x 30.1 x 33	38.4 x 35.1 x 38.7	42.4 x 35.1 x 38.7		
Weight - Shipping	200	201	234	228		
Weight - Net	173	174	201	193		
Start Components	YES	YES	YES	NO		
Sound Enclosure	YES	YES	YES	YES		
Compressor Sump Heat	NO	NO	NO	NO		
Optional Accessories: 4						
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A		
Evaporator Defrost Control A/C	AY28X079	AY28X079	AY28X079	AY28X079		
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101		
Crank Case Heater Kit	BAYCCHT300A	BAYCCHT300A	BAYCCHT300A	BAYCCHT302A		
Hard Start Kit Scroll				BAYKSKT263		
Extreme Condition Mounting Kit	BAYECMT023	BAYECMT023	BAYECMT004	BAYECMT004		
Snow Leg - Base & Cap 4" High	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002		
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003		
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001		
Refrigerant Lineset 5	TAYREFLN950	TAYREFLN7*	TAYREFLN7*	TAYREFLN7*		

Certified in accordance with the Air-Source Unitary Heat Pump Equipment certification program which is based on AHRI Standard 210/240.
 Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
 Standard line lengths - 80'. Standard lift - 60' Suction and Liquid line.
 For Greater lengths and lifts refer to refrigerant piping software Pub# 32-3312-0†. (†denotes latest revision)
 For accessory description and usage, see page 5.
 \* = 15, 20, 25, 30, 40 and 50 foot lineset available.

### **Sound Power Level**

Model A-Weighted Sound	A-Weighted Sound	Full Octave Sound Power [dB]							
Wodei	Power Level [dB(A)]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
4A7A6018H1	75	51	61	65	74	74	72	61	51
4A7A6024H1	75	49	62	66	74	74	69	62	54
4A7A6030H1	75	54	69	72	78	76	72	64	54
4A7A6036H1	75	49	68	73	76	74	70	62	51
4A7A6042H1	75	49	69	74	77	75	70	62	51
4A7A6048H1	75	49	69	74	77	75	70	62	51
4A7A6049H1	74	70	70	65	64	62	56	49	42
4A7A6060H1	75	49	69	74	77	75	70	62	51
4A7A6061J1	75	68	70	67	68	64	56	53	48

Note: Rated in accordance with AHRI Standard 270-2008



## **General Data**

	_	Product Spec	cifications		
Model No. ①	4A7A6042H1000A	4A7A6048H1000K	4A7A6049H1000A	4A7A6060H1000A	4A7A6061J1000A
Electrical Data V/Ph/Hz ②	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	230/1/60
Min Cir Ampacity	23	26	26	34	32
Max Fuse Size (Amps)	40	45	45	60	50
Compressors	DURATION™ · SCROLL	DURATION™ - SCROLL	DURATION™ - SCROLL	DURATION™ - SCROLL	DURATION™ - SCROLL
No. Used - No. Stages	1-1	1-1	1-1	1-1	1-1
RL AMPS - LR AMPS	17.9 - 112	19.9 - 109	19.9 - 109	26.4 - 134	23.7 - 152.5
Outdoor Fan FL Amps	0.93	0.93	1.00	0.93	2.80
Fan HP	1/5	1/5	1/5	1/5	1/8
Fan Dia (inches)	27.6	27.6	27.6	27.6	27.6
Coil	Spine Fin™				
Refrigerant R-410A	8/4-LB/OZ	8/5-LB/OZ	11/9-LB/OZ	8/8-LB/OZ	10/15-LB/OZ
Line Size - (in.) O.D. Gas ③	7/8	7/8	7/8	7/8	1-1/8
Line Size - (in.) O.D. Liquid ③	3/8	3/8	3/8	3/8	3/8
Dimensions H x W x D (Crated)	46.4 x 35.1 x 38.7	51 x 35.1 x 38.7	51 x 35.1 x 38.7	51 x 35.1 x 38.7	51 x 35.1 x 38.7
Weight - Shipping	272	282	304	285	317
Weight - Net	235	245	267	248	280
Start Components	NO	NO	NO	NO	NO
Sound Enclosure	YES	YES	NO	YES	NO
Compressor Sump Heat	NO	NO	NO	NO	NO
Optional Accessories: 4					
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A
Evaporator Defrost Control A/C	AY28X079	AY28X079	AY28X079	AY28X079	AY28X079
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101
Crank Case Heater Kit	BAYCCHT301A	BAYCCHT301A	BAYCCHT301A	BAYCCHT301A	BAYCCHT301A
Hard Start Kit Scroll	BAYKSKT263	BAYKSKT263	BAYKSKT263	BAYKSKT263	BAYKSKT263
Extreme Condition Mounting Kit		BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004
Snow Leg - Base & Cap 4" High		BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001
Refrigerant Lineset 5	TAYREFLN3*	TAYREFLN3*	TAYREFLN3*	TAYREFLN3*	TAYREFLN*4

Certified in accordance with the Air-Source Unitary Heat Pump Equipment certification program which is based on AHRI Standard 210/240.
 Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
 Standard line lengths - 60'. Standard lift - 60' Suction and Liquid line. For 061 units, Max. linear length 60 ft.; Max. lift - Suction 25 ft.; Max lift - Liquid 25 ft. For Greater lengths and lifts refer to refrigerant piping software Pub# 32-3312-0<sup>†</sup>. (†denotes latest revision)
 For accessory description and usage, see page 5.
 \* = 15, 20, 25, 30, 40 and 50 foot lineset available.



## General Data

## **Accessory Description and Usage**

**Anti-Short Cycle Timer** — Solid state timing device that prevents compressor recycling until 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** — 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.

## **AHRI Standard Capacity Rating Conditions**

AHRI STANDARD 210/240 RATING CONDITIONS —

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

AHRI 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.

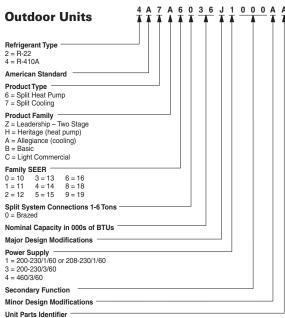


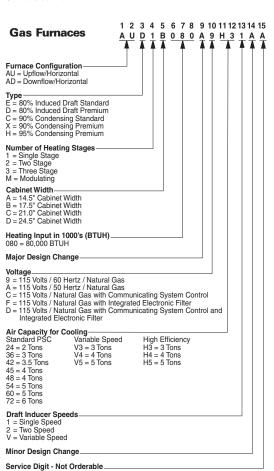


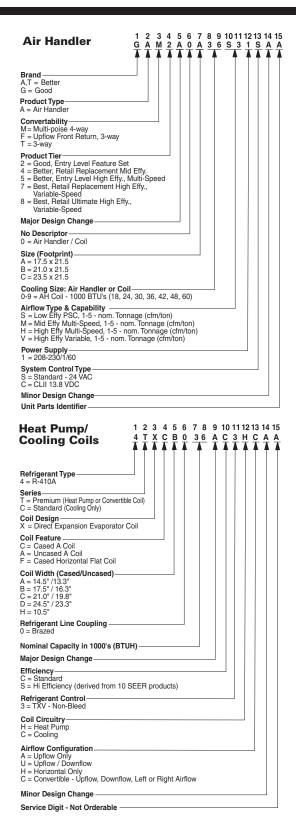
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## Model Nomenclature





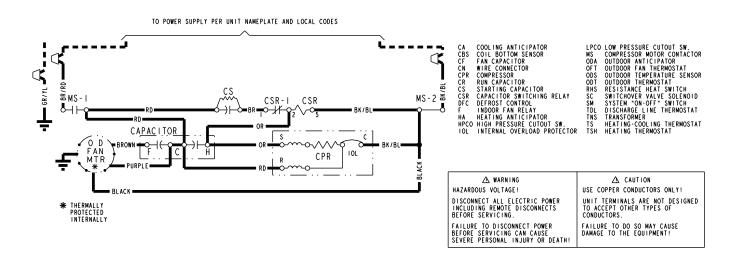


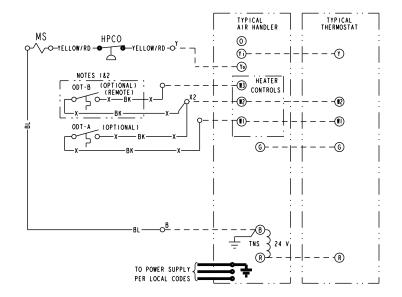


## **Electrical Data**

## **Schematic Diagrams**

## 4A7A6018, 4A7A6024, 4A7A6030







#### NOTES:

- 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.
  IF ODT-A IS NOT USED, ADD JUMPER BETWEEN WI & W2
  AT AIR HANDLER.
  LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

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.

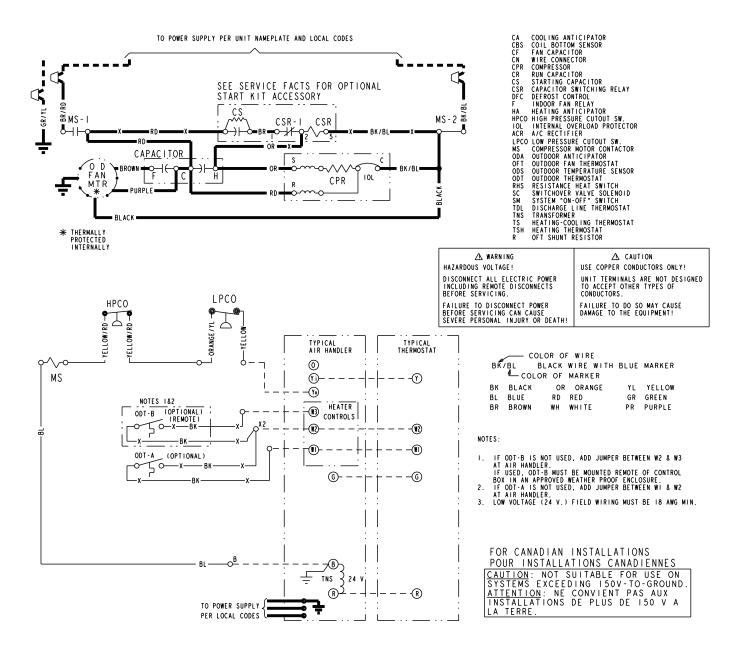
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## Electrical Data

## **Schematic Diagrams**

## 4A7A6036, 4A7A6042



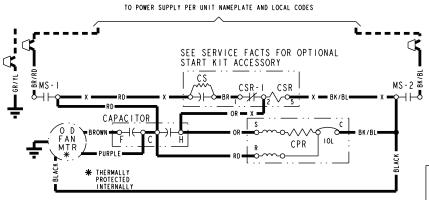
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## **Electrical Data**

## **Schematic Diagrams**

## 4A7A6048, 4A7A6049



CA COOLING ANTICIPATOR
CBS COIL BOTTOM SENSOR
CF FAN CAPACITOR
CPR COMPRESSOR
CPR COMPRESSOR
CR RUN CAPACITOR
CS STARTING CAPACITOR
CSR CAPACITOR SWITCHING RELAY
DFC DEFROST CONTROL
F INDOOR FAN RELAY
HA HEATING ANTICIPATOR
HOPCO HIGH PRESSURE CUTOUT SW.
IOL INTERNAL OVERLOAD PROTECTOR

LPCO LOW PRESSURE CUTOUT SW.

MS COMPRESSOR MOTOR CONTACTOR

ODA OUTDOOR ANTICIPATOR

ODS OUTDOOR FAN THERMOSTAT

ODS OUTDOOR THERMOSTAT

ODS OUTDOOR THERMOSTAT

RHS RESISTANCE HEAT SWITCH

SC SWITCHOVER VALVE SOLEMOID

SM SYSTEM "ON -OFF" SWITCH

TOL DISCHARGE LINE THERMOSTAT

TNS TRANSFORMER

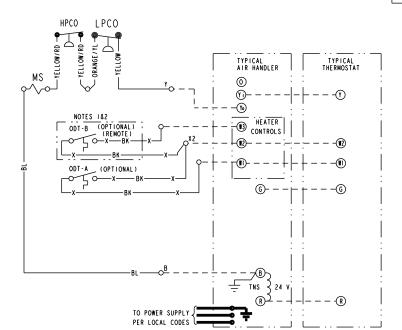
THANSFORMER HEATING-COOLING THERMOSTAT HEATING THERMOSTAT

✓ WARNING HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.

FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!

△ CAUTION 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!



- COLOR OF WIRE BK/BL BLACK WIRE W. BLACK WIRE WITH BLUE MARKER BK BLACK OR ORANGE YELLOW Βı BLUE RD RFD GR GREEN

WH WHITE BROWN PR PURPLE

- I. 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 WI & W2
  AT AIR HANDLER.
  3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

FOR CANADIAN INSTALLATIONS POR 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.

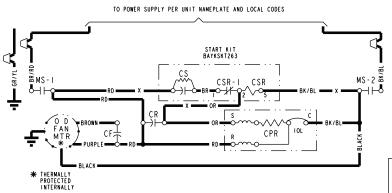
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## **Electrical Data**

## **Schematic Diagrams**

### 4A7A6060



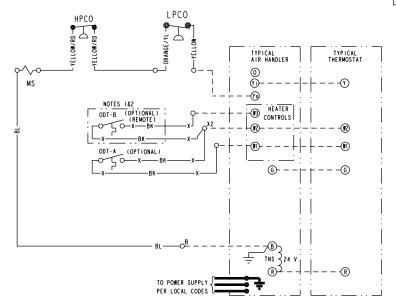
CA COOLING ANTICIPATOR
CBS COIL BOTTOM SENSOR
CF FM. CENTER CONNECTOR
CF CONNECTOR
CF CONNECTOR
CR RUN CAPACITOR
CSR CAPACITOR SWITCHING RELAY
DFC DEFROST CONTROL
F INDOOR FAN RELAY
HA HATING ANTICIPATOR
HPCO HIGH PRESSURE CUTOUT SW.
IOL INTERNAL OVERLOAD PROTECTOR
ACR A/C RECTIFIER 

DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.

FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!

△ CAUTION
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!



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

- I. 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 WI & W2 AT AIR HANDLER. 3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

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.

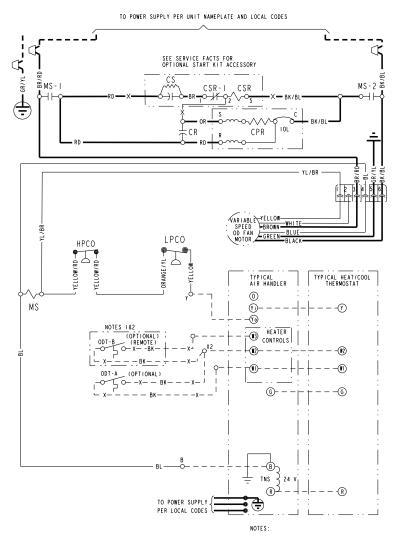
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# Electrical Data

## **Schematic Diagrams**

### 4A7A6061



CA	COOLING ANTICIPATOR	LPCO	LOW PRESSURE CUTOUT SW.
CBS	COLL BOTTOM SENSOR	MS	COMPRESSOR MOTOR CONTACTOR
CF		ODA	OUTDOOR ANTICIPATOR
ČN	WIRE CONNECTOR	OF T	OUTDOOR FAN THERMOSTAT
CPR		ODS	OUTDOOR TEMPERATURE SENSOR
CR		ODT	OUTDOOR THERMOSTAT
ĊS	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	ŤDL	DISCHARGE LINE THERMOSTAT
HA	HEATING ANTICIPATOR	TNS	TRANSFORMER
HPC	O HÍGH PŘESSURÉ CUTOUT SW.	TS	HEATING-COOLING THERMOSTAT
IOL	INTERNAL OVERLOAD PROTECTOR	TSH	HEATING THERMOSTAT
ACR	A/C RECTIFIER	R	OFT SHUNT RESISTOR

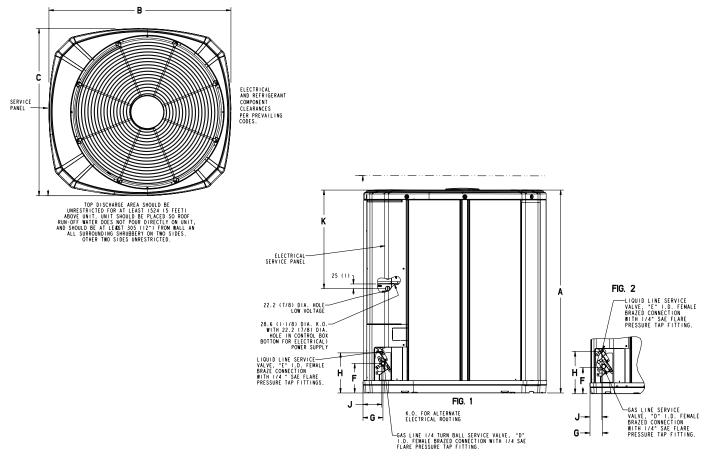
HPCO HĪGH PŘESSURÉ CUTOUT SW. IOL INTERNAL OVERLOAD PROTECTOR ACR A/C RECTIFIER	TS HEATING-COOLING THERMOSTAT TSH HEATING THERMOSTAT R OFT SHUNT RESISTOR
△ WARNING HAZARDOUS VOLTAGE!	△ CAUTION USE COPPER CONDUCTORS ONLY!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.	UNIT 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!



## **Dimensions**

## **4A7A6 Outline Drawing**

Note: All dimensions are in MM (Inches).



MODELS	BASE	Α	В	С	D	Е	F	G	н	J	К
4A7A6018H	3	730 (28-3/4)	829 (32-5/8)	756 (29-3/4)	5/8	3/8	127 (5)	76 (3)	197 (7-3/4)	57 (2-1/4)	508 (20)
4A7A6024H	3	730 (28-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	127 (5)	76 (3)	197 (7-3/4)	57 (2-1/4)	508 (20)
4A7A6030H	4	841 (33-1/8)	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)
4A7A6036H	4	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)
4A7A6042H	4	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)
4A7A6048H	4	1147 (45 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)
4A7A6049H	4	1147 (45 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)
4A7A6060H	4	1147 (45 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)
4A7A6061J	4	1147 (45 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. D152862



# **Mechanical Specification Options**

#### General

The 4A7A6 is fully charged from the factory for up to 15 feet of piping. This unit 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 that are AHRI certified. The unit is certified to UL 1995. Exterior is designed for outdoor application.

#### Casing

Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint finish on all louvered panels and the fan top panel. The corner panels are prepainted. All panels are subjected to our 1,000 hour salt spray test. The base is made of a CMBP-G30 weatherproof material to resist corrosion.

#### **Refrigerant Controls**

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

#### Compressor

The DURATION™ compressor features internal over temperature and pressure protection 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 with TXV permits low ambient cooling to 30° F.

#### Accessories

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

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## **Notes**





Amer	ici	M	Standard
HEATING	&	AIR	CONDITIONING

02/15