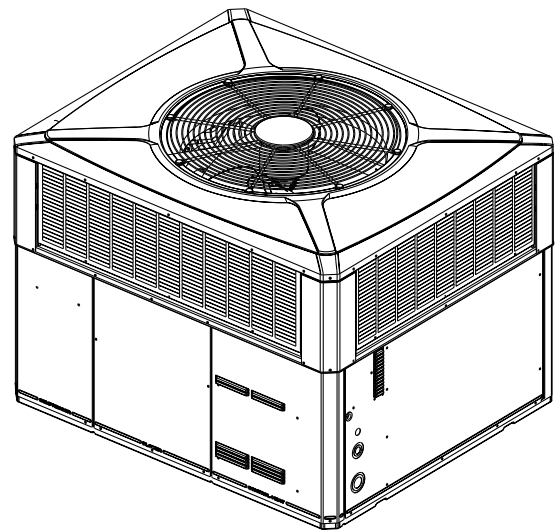




# Product Data

## Single Packaged Heat Pump, Priority, Two Stage, Convertible, 2 – 5 Ton, R-454B

5WCZ5024A1000A  
5WCZ5030A1000A  
5WCZ5036A1000A  
5WCZ5042A1000A  
5WCZ5048A1000A  
5WCZ5060A1000A  
5WCZ5036A3000A  
5WCZ5048A3000A  
5WCZ5060A3000A



*Note: "Graphics in this document are for representation only. Actual model may differ in appearance."*



# SAFETY SECTION

*Important: 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!**

Failure to follow this Warning could result in property damage, severe personal injury, or death.

Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized.

**⚠ WARNING**

**SAFETY AND ELECTRICAL HAZARD!**

Failure to follow this Warning could result in property damage, severe personal injury, or death.

These servicing instructions are for use by qualified personnel only. To reduce the risk of electrical shock, do not perform any servicing other than that contained in these operating instructions unless you are qualified to do so.

**⚠ CAUTION**

**GROUNDING REQUIRED!**

Failure to inspect or use proper service tools may result in equipment damage or personal injury.

Reconnect all grounding devices. All parts of this product that are 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.

**⚠ CAUTION**

**SHARP EDGE HAZARD!**

Failure to follow this Caution could result in property damage or personal injury.

Be careful of sharp edges on equipment or any cuts made on sheet metal while installing or servicing.

**⚠ WARNING**

**UNIT CONTAINS R-454B REFRIGERANT!**

Proper service equipment is required. Failure to use proper service tools may result in equipment damage or personal injury.

**⚠ WARNING**

**LEAK DETECTION SYSTEM!**

LEAK DETECTION SYSTEM installed. Unit must be powered except for service.

**⚠ WARNING**

**SAFETY HAZARD!**

Children should be supervised to ensure that they do not play with the appliance.

**⚠ WARNING****SAFETY HAZARD!**

This appliance is not to be used by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.

**⚠ WARNING****SAFETY HAZARD!**

Operating the unit without the access panels properly installed may result in severe personal injury or death.

Do not operate the unit without the evaporator fan access panel or evaporator coil access panel in place.

**⚠ WARNING****RISK OF FIRE!**

Flammable refrigerant used. To be repaired only by trained service personnel. Do not puncture refrigerant tubing.

Dispose of refrigerant in accordance with federal and/or local regulations.

**⚠ WARNING****WARNING!**

This product can expose you to chemicals including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

*Important: Wear appropriate gloves, arm sleeve protectors and eye protection when servicing or maintaining this equipment.*

*Important: Air filters and media wheels or plates shall meet the test requirements in UL 900.*



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# Single Packaged Heat Pump System

**Introducing the new Trane Single Heat Pump System**

**Single Packaged Electric Heat Pumps are easy and versatile to install.**

Because cooling and heating functions are all contained in a single cabinet, Trane packaged heat pump systems are easy to install and service. It can be flush mounted beside your home at ground level or placed on the roof for horizontal or downflow installation. When connected to an optional Trane thermostat control, and air distribution ducts, you have a highly efficient, total home comfort system.

**Single Packaged Electric Heat Pump Systems are unmatched in quality and reliability.**

All major components on these products, including the compressor, have been designed and manufactured for maximum service. Every compressor is designed and manufactured to exacting specifications. Each design is life tested in extreme environments to ensure reliable and long lasting operation in normal applications. Each compressor has internal motor protection for added reliability.

**Single Packaged Electric Heat Pump Systems provide better performance.**

Our single packaged cooling/heating units offer cooling/heating efficiencies that are unmatched in the industry and provide you with a product far superior in performance than the competition.



# Optional Equipment Listing

**Optional Equipment for 5WCZ5 Packaged Units (check mark indicates accessories included)**

Hinged Filter Access Door (5WCZ5024-036) <sup>(a)</sup>	BAYACCDOR1A[ ]
Hinged Filter Access Door (5WCZ5048-060) <sup>(a)</sup>	BAYACCDOR2A[ ]
Roof Curb Full Perimeter (5WCZ5024-036) <sup>(b)</sup>	BAYCURB050A[ ]
Roof Curb Full Perimeter (5WCZ5048-060) <sup>(b)</sup>	BAYCURB051A[ ]
Roof Curb Utility Extension Kit (BAYCURB050A)	BAYUTIL101B[ ]
Roof Curb Utility Extension Kit (BAYCURB051A)	BAYUTIL102B[ ]
0-25% Motorized Outside Air Damper (5WCZ5024-036)	BAYDMPR101A[ ]
0-25% Motorized Outside Air Damper (5WCZ5048-060)	BAYDMPR102A[ ]
Outside Air Control for V.S. Economizer (5WCZ5024-060)	BAYOSAC001B[ ]
0-25% Manual Fresh Air Damper (5WCZ5024-036) <sup>(c)(d)</sup>	BAYOSAH001A[ ]
0-25% Manual Fresh Air Damper (5WCZ5048-060) <sup>(c)(d)</sup>	BAYOSAH002A[ ]
0-100% Mod Economizer w/Baro. Relief (5WCZ5024-036) <sup>(c)(e)(f)</sup>	BAYECON107A[ ]
0-100% Mod. Economizer w/Baro. Relief (5WCZ5048-060) <sup>(c)(e)(f)</sup>	BAYECON108A[ ]
0-100% Horizontal Economizer (5WCZ5024-036) <sup>(c)(e)</sup>	BAYECON207A[ ]
0-100% Horizontal Economizer (5WCZ5048-060) <sup>(c)(e)</sup>	BAYECON208A[ ]
Economizer Relay Kit (required for Heat Pump applications)	BAYRLAY006B[ ]
Enthalpy Control for Economizer (solid state)	BAYENTH001A[ ]
Remote Potentiometer (All-BAYECON***A)	BAYSTAT023[ ]
1"-2" Filter Frame (5WCZ5024-036) (20 x 25 filter not included) <sup>(c)</sup>	BAYFLTR101B[ ]
1"-2" Filter Frame (5WCZ5048-060) (20 x 20, 20X18 filter not included) <sup>(c)</sup>	BAYFLTR201B[ ]
Evaporator Defrost Control (Low Ambient Cooling) Kit <sup>(g)</sup>	BAYLOAM011A[ ]
Head Pressure Control (Low Ambient Cool) (208/240v) Kit <sup>(g)</sup>	BAYLOAM105A[ ]
Crankcase Heater Scroll (5WCZ5048-060 1/3, 060 1/3)(230v) <sup>(g)</sup>	BAYCCHT102A[ ]
Crankcase Heater Scroll (5WCZ5024-036)(230v) <sup>(g)</sup>	BAYCCHT103A[ ]
Crankcase Heater Scroll (5WCZ5048, 060)(460v) <sup>(g)</sup>	BAYCCHT404B[ ]
Crankcase Heater Scroll (5WCZ5036)(460v) <sup>(g)</sup>	BAYCCHT405A[ ]
Adapter Curb 5WCZ5024-036 to BAYCURB030,38	BAYADAP050A[ ]
Adapter Curb 5WCZ5024-036 to BAYCURB033	BAYADAP051A[ ]
Adapter Curb 5WCZ5048-060A to BAYCURB030,38	BAYADAP052A[ ]
Adapter Curb 5WCZ5048-060A to BAYCURB033	BAYADAP053A[ ]
Adapter Curb 5WCZ5048-060A to BAYCURB034	BAYADAP054A[ ]
12" Duct Shroud Covers Horizontal 5WCZ5024-060 <sup>(h)</sup>	BAYCOVR112A[ ]
18" Duct Shroud Covers Horizontal 5WCZ5024-060 <sup>(h)</sup>	BAYCOVR118A[ ]
Extreme Condition Mounting Kit - All BAYCURB & BAYADAP	BAYEXMK001A[ ]
Extreme Condition Mounting Kit - All BAYUTIL	BAYEXMK002A[ ]
Extreme Condition Mounting Kit - All Slab Mounts	BAYEXMK003A[ ]
Lifting Lug Kit	BAYLIFT002B[ ]

- (a) BAYACCDOR1A requires BAYFLTR101B & BAYACCDOR2A requires BAYFLTR201B. They are not backward compatible to BAYFLTR101/201A.
- (b) Ships knocked down.
- (c) Must use internal filter frame when economizer or fresh air kit is used.
- (d) BAYOSAH001A and BAYOSAH002A are not compatible with BAYACCDOR1A or BAYACCDOR2A.
- (e) Dry bulb control standard with economizer.
- (f) Downflow only.
- (g) Low Ambient cooling requires crankcase heater (BAYCCHT—A).
- (h) BAYCOVR112,118A will not cover 18" square-to-round applications.



# Product Specification

Model	5WCZ5024*1	5WCZ5030*1	5WCZ5036*1	5WCZ5042*1	5WCZ5048*1	5WCZ5060*1
RATED Volts/PH/Hz	208-230/1/60	208-230*1/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
<b>PERFORMANCE COOLING<sup>(a)</sup></b>						
BTUH (High)	23400	29600	35200	42000	46000	58000
Indoor Airflow (CFM) (High)	810	880	1100	1410	1600	1780
Power Input (KW)	1.94	2.64	3.12	3.55	4.09	5.06
BTUH (Low)	19200	24000	27800	34400	36600	46000
Indoor Airflow (CFM) (Low)	630	710	830	1090	1280	1290
Power Input (KW)	1.08	1.52	1.77	2.01	2.28	2.83
EER2 / SEER2 BTU/Watt-Hr <sup>(b)</sup>	11.5/15.2	11.2/15.2	11.5/15.2	11.5/15.2	11.5/15.2	11.5/15.2
Sound Power Rating [dB (A)] <sup>(c)</sup>	66.8	67.3	70	72	72	80
<b>PERFORMANCE HEATING</b>						
(High Temp.) BTUH/COP (High)	22200/3.57	28800/3.47	33000/3.38	39000/3.76	42000/3.59	56000/3.26
Power Input (KW)	1.82	2.43	2.86	3.04	3.43	5.03
(Low Temp.) BTUH/COP (High)	13800/2.48	18600/2.51	21800/2.48	25600/2.75	28000/2.6	37800/2.47
Power Input (KW)	1.63	2.17	2.58	2.73	3.16	4.49
(High Temp.) BTUH/COP (Low)	16000/3.52	20800/3.46	23600/3.32	28600/3.84	31400/3.85	40000/3.26
Power Input (KW)	1.33	1.76	2.08	2.18	2.39	3.59
(Low Temp.) BTUH/COP (Low)	8600/2	12200/2.13	14000/2.09	16600/2.34	17200/2.2	24000/2.07
Power Input (KW)	1.26	1.68	1.96	2.08	2.29	3.4
HSPF2 (BTUH/Watt-Hr)	7.2	7.2	7.7	7.2	8.1	7.2
<b>POWER CONN. — V/ Ph/Hz</b>	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Min. Brch. Cir. Ampacity <sup>(d)</sup>	<b>LOCATED ON UNIT NAMEPLATE</b>					
Fuse Size — Max. (amps)	<b>LOCATED ON UNIT NAMEPLATE</b>					
Fuse Size — Recmd. (amps)	<b>LOCATED ON UNIT NAMEPLATE</b>					
<b>COMPRESSOR</b>	2 STAGE SCROLL	2 STAGE SCROLL	2 STAGE SCROLL	2 STAGE SCROLL	2 STAGE SCROLL	2 STAGE SCROLL
VOLTS/PH/HZ	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/3/60
R.L. Amps — L.R. Amps	<b>LOCATED ON UNIT NAMEPLATE</b>					
<b>OUTDOOR COIL — TYPE</b>	SPINE FIN	SPINE FIN	SPINE FIN	SPINE FIN	SPINE FIN	SPINE FIN
Rows/F.P.I	2 / 24	2 / 24	2 / 24	2 / 24	2 / 24	2 / 24
Face Area (sq. ft.)	15.49	15.49	15.49	23.57	23.57	23.57
Tube Size (in.)	3/8	3/8	3/8	3/8	3/8	3/8
Refrigerant Control	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE
<b>INDOOR COIL — TYPE</b>	PLATE FIN	PLATE FIN	PLATE FIN	PLATE FIN	PLATE FIN	PLATE FIN
Rows/F.P.I	4/15	4/15	4 / 15	4 / 15	4 / 15	4 / 15
Face Area (sq. ft.)	3.5	3.5	3.54	5	5	5
Tube Size (in.)	3/8	3/8	3/8	3/8	3/8	3/8
Refrigeration Control	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE
Drain Conn. Size (in.)	3/4 FEMALE NPT	3/4 FEMALE NPT	3/4 FEMALE NPT	3/4 FEMALE NPT	3/4 FEMALE NPT	3/4 FEMALE NPT
<b>OUTDOOR FAN — TYPE</b>	PROPELLER	PROPELLER	PROPELLER	PROPELLER	PROPELLER	PROPELLER



## Product Specification

Model	5WCZ5024*1	5WCZ5030*1	5WCZ5036*1	5WCZ5042*1	5WCZ5048*1	5WCZ5060*1
DIA. (IN.)	23.4	23.4	23.4	28.0	28.0	28.3
DRIVE/NO. SPEEDS	DIRECT/ 1	DIRECT/ 1	DIRECT/ 1	DIRECT/ 1	DIRECT/ 1	DIRECT/ 1
CFM @ 0.0 in. w.g. <sup>(e)</sup>	2550	2550	3020	4200	4200	5500
Motor— HP/R.P.M	1/12 /810	1/12 /810	1/6 / 830	1/6 / 830	1/6 / 830	1/3 / 825
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps/L.R Amps	<b>LOCATED ON UNIT NAMEPLATE</b>					
<b>INDOOR FAN — TYPE</b>	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
Dia. x Width (in.)	10 x 10	10 x 10	10 x 10	11 x 10	10 x 10	11 x 10
Drive/No. Speeds	DIRECT / VARIABLE	DIRECT / VARIABLE	DIRECT / VARIABLE	DIRECT / VARIABLE	DIRECT / VARIABLE	DIRECT / VARIABLE
CFM @ 0.0 in. w.g. <sup>(f)</sup>	SEE FAN PERFORMANCE TABLE					
Motor—HP/R.P.M.	1/2/VARIABLE	1/2/VARIABLE	1/2/VARIABLE	3/4 / VARIABLE	3/4 / VARIABLE	1/VARIABLE
Volts/Ph/Hz	208-240/1/60	208-240/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps/L.R Amps	4.3 / 4.3	4.3 / 4.3	4.3 / 4.3	6.8 / 6.8	6.8 / 6.8	6.9 / 6.9
<b>FILTER/ FURNISHED</b>	NO	NO	NO	NO	NO	NO
Type Recommended	THROWAWAY	THROWAWAY	THROWAWAY	THROWAWAY	THROWAWAY	THROWAWAY
Recmd. Face Area (sq. ft) <sup>(g)</sup>	4.0	4.0	4.0	5.3	5.3	5.3
<b>REFRIGERANT</b>	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B
Charge (lbs.)	<b>LOCATED ON UNIT NAMEPLATE</b>					
Subcooling	9° F	8° F	12° F	11° F	11° F	10° F

(a) Rated in accordance with AHRI 210/240-2023.

(b) Rated in accordance with D.O.E. test procedure.

(c) Sound Power values are not adjusted for AHRI 270-95 tonal corrections.

(d) Calculated in accordance with currently prevailing Nat'l Electrical Code.

(e) Standard Air — Dry Coil — Outdoor.

(f) Standard Air — Dry Coil — Indoor.

(g) Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05" W.C.

Model	5WCZ5036*3	5WCZ5048*3	5WCZ5060*3
RATED Volts/PH/Hz	208-230/3/60	208-230/3/60	208-230/3/60
<b>PERFORMANCE COOLING<sup>(a)</sup></b>			
BTUH (High)	35000	46000	58000
Indoor Airflow (CFM) (High)	1100	1600	1780
Power Input (KW)	3.12	4.09	5.06
BTUH (Low)	27800	36600	46000
Indoor Airflow (CFM) (Low)	830	1280	1290
Power Input (KW)	1.77	2.28	2.83
EER2 / SEER2 BTUH/Watt-Hr <sup>(b)</sup>	11.5/15.2	11.5/15.2	11.5/15.2
Sound Power Rating [dB(A)] <sup>(c)</sup>	70	72	80
<b>PERFORMANCE HEATING</b>			
(High Temp.) BTUH/COP (High)	33000/3.38	42000/3.59	56000/3.26
Power Input (KW)	2.86	3.43	5.03
(Low Temp.) BTUH/COP (High)	21800/2.48	28000/2.6	37800/2.47
Power Input (KW)	2.58	3.16	4.49
(High Temp.) BTUH/COP (Low)	23600/3.32	31400/3.85	40000/3.26
Power Input (KW)	2.08	2.39	3.59
(Low Temp.) BTUH/COP (Low)	14000/2.09	17200/2.2	24000/2.07
Power Input (KW)	1.96	2.29	3.4
HSPF2 (BTUH/Watt-Hr)	7.7	8.1	7.2
<b>POWER CONN. — V/Ph/Hz</b>	208-230/3/60	208-230/3/60	208-230/3/60
Min. Brch. Cir. Ampacity <sup>(d)</sup>	<b>LOCATED ON UNIT NAMEPLATE</b>		
Fuse Size — Max. (amps)	<b>LOCATED ON UNIT NAMEPLATE</b>		





## Product Specification

Model	5WCZ5036*3	5WCZ5048*3	5WCZ5060*3
Fuse Size — Recmd. (amps)	<b>LOCATED ON UNIT NAMEPLATE</b>		
<b>COMPRESSOR</b>	2 STAGE SCROLL	2 STAGE SCROLL	2 STAGE SCROLL
VOLTS/PH/HZ	208-230/3/60	208-230/3/60	208-230/3/60
R.L. Amps — L.R. Amps	<b>LOCATED ON UNIT NAMEPLATE</b>		
<b>OUTDOOR COIL — TYPE</b>	SPINE FIN	SPINE FIN	SPINE FIN
Rows/F.P.I	2 / 24	2 / 24	2 / 24
Face Area (sq. ft.)	15.49	23.57	23.57
Tube Size (in.)	3/8	3/8	3/8
Refrigerant Control	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE
<b>INDOOR COIL — TYPE</b>	PLATE FIN	PLATE FIN	PLATE FIN
Rows/F.P.I	4 / 15	4 / 15	4 / 15
Face Area (sq. ft.)	3.54	5	5
Tube Size (in.)	3/8	3/8	3/8
Refrigeration Control	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE
Drain Conn. Size (in.)	3/4 FEMALE NPT	3/4 FEMALE NPT	3/4 FEMALE NPT
<b>OUTDOOR FAN — TYPE</b>	PROPELLER	PROPELLER	PROPELLER
DIA. (IN.)	23.4	28.0	28.3
DRIVE/NO. SPEEDS	DIRECT/ 1	DIRECT/ 1	DIRECT/ 1
CFM @ 0.0 in. w.g. <sup>(e)</sup>	3020	4200	5500
Motor— HP/R.P.M	1/6 / 830	1/6 / 830	1/3 / 825
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps/L.R Amps	<b>LOCATED ON UNIT NAMEPLATE</b>		
<b>INDOOR FAN — TYPE</b>	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
Dia. x Width (in.)	10 x 10	10 x 10	11 x 10
Drive/No. Speeds	DIRECT / VARIABLE	DIRECT / VARIABLE	DIRECT / VARIABLE
CFM @ 0.0 in. w.g. <sup>(f)</sup>	SEE FAN PERFORMANCE TABLE		
Motor—HP/R.P.M.	1/2/VARIABLE	3/4 /VARIABLE	1/VARIABLE
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps/L.R Amps	4.3 / 4.3	6.8 / 6.8	6.9 / 6.9
<b>FILTER/ FURNISHED</b>	NO	NO	NO
Type Recommended	THROWAWAY	THROWAWAY	THROWAWAY
Recmd. Face Area (sq. ft) <sup>(g)</sup>	4.0	5.3	5.3
<b>REFRIGERANT</b>	R-454B	R-454B	R-454B
Charge (lbs.)	<b>LOCATED ON UNIT NAMEPLATE</b>		
Subcooling	12° F	11° F	10° F

(a) Rated in accordance with AHRI 210/240-2023.

(b) Rated in accordance with D.O.E. test procedure.

(c) Sound Power values are not adjusted for AHRI 270-95 tonal corrections.

(d) Calculated in accordance with currently prevailing Nat'l Electrical Code.

(e) Standard Air — Dry Coil — Outdoor.

(f) Standard Air — Dry Coil — Indoor

(g) Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05" W.C.



# Indoor Fan Performance

<b>5WCZ5024A</b>		<b>EXTERNAL STATIC PRESSURE (IN.WG) Cooling CFM Horizontal [Downflow]</b>										
<b>Motor Speed</b>		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
350 CFM / Ton Setting	Low	-	590 [601]	583 [588]	575 [571]	571 [562]	566 [563]	546 [549]	525 [525]	507 [517]	488 [504]	-
	High	-	721 [734]	724 [731]	727 [722]	717 [706]	706 [702]	701 [706]	695 [695]	678 [692]	660 [681]	-
400 CFM / Ton Setting <sup>(a)</sup>	Low	-	627 [638]	624 [622]	621 [619]	615 [617]	608 [613]	593 [600]	578 [588]	559 [575]	540 [554]	-
	High	-	801 [815]	806 [803]	811 [808]	806 [808]	800 [807]	789 [798]	777 [791]	745 [766]	712 [731]	-
450 CFM / Ton Setting	Low	-	672 [676]	673 [676]	673 [678]	664 [668]	654 [656]	648 [646]	641 [642]	620 [641]	599 [632]	-
	High	-	880 [885]	888 [892]	895 [902]	894 [900]	893 [896]	883 [881]	872 [874]	817 [844]	761 [803]	-

<sup>(a)</sup> Factory Default Setting.

<b>5WCZ5030A</b>		<b>EXTERNAL STATIC PRESSURE (IN.WG) Cooling CFM Horizontal [Downflow]</b>										
<b>Motor Speed</b>		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
350 CFM / Ton Setting	Low	-	703 [705]	713 [712]	715 [712]	705 [703]	689 [691]	673 [682]	658 [670]	646 [653]	627 [633]	606 [610]
	High	-	888 [892]	900 [901]	911 [912]	914 [913]	912 [909]	898 [897]	881 [887]	865 [874]	847 [857]	785 [783]
400 CFM / Ton Setting <sup>(a)</sup>	Low	-	762 [757]	771 [767]	776 [775]	775 [766]	756 [752]	739 [740]	723 [729]	711 [718]	701 [700]	682 [677]
	High	-	998 [990]	1013 [1008]	1020 [1013]	1025 [1016]	1023 [1015]	1021 [1011]	1015 [1000]	990 [986]	963 [966]	849 [833]
450 CFM / Ton Setting	Low	-	842 [835]	852 [848]	862 [856]	863 [857]	854 [847]	836 [834]	820 [822]	803 [810]	788 [795]	760 [743]
	High	-	1146 [1120]	1153 [1127]	1157 [1133]	1158 [1137]	1159 [1139]	1159 [1138]	1156 [1135]	1144 [1125]	1034 [1040]	922 [927]

<sup>(a)</sup> Factory Default Setting.

<b>5WCZ5036A*</b>		<b>EXTERNAL STATIC PRESSURE (IN.WG) Cooling CFM Horizontal [Downflow]</b>										
<b>Motor Speed</b>		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
350 CFM / Ton Setting	Low	-	812 [808]	821 [816]	829 [818]	826 [811]	818 [795]	804 [777]	791 [762]	778 [751]	770 [742]	751 [723]
	High	-	1056 [1055]	1069 [1068]	1074 [1073]	1076 [1073]	1077 [1074]	1076 [1063]	1070 [1063]	1060 [1052]	1029 [1020]	893 [905]
400 CFM / Ton Setting <sup>(a)</sup>	Low	-	894 [892]	903 [898]	913 [904]	915 [904]	913 [891]	905 [873]	887 [860]	874 [845]	859 [833]	793 [803]
	High	-	1196 [1199]	1199 [1205]	1203 [1208]	1205 [1210]	1208 [1211]	1209 [1209]	1208 [1207]	1202 [1198]	1114 [1099]	994 [984]
450 CFM / Ton Setting	Low	-	990 [988]	1002 [994]	1009 [1004]	1013 [1005]	1012 [1003]	1009 [997]	1000 [983]	989 [969]	974 [943]	866 [863]
	High	-	1369 [1381]	1370 [1381]	1372 [1383]	1374 [1381]	1375 [1382]	1375 [1369]	1370 [1373]	1300 [1298]	1199 [1194]	1091 [1085]

<sup>(a)</sup> Factory Default Setting.

## Indoor Fan Performance

<b>5WCZ5042A</b>		<b>EXTERNAL STATIC PRESSURE (IN.WG) Cooling CFM Horizontal [Downflow]</b>										
<b>Motor Speed</b>		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
350 CFM / Ton Setting	Low	-	990 [980]	982 [971]	970 [957]	957 [945]	944 [937]	935 [920]	916 [902]	892 [881]	868 [860]	845 [837]
	High	-	1246 [1251]	1245 [1245]	1240 [1240]	1237 [1238]	1233 [1227]	1222 [1217]	1215 [1207]	1206 [1194]	1196 [1182]	1185 [1168]
400 CFM / Ton Setting (a)	Low	-	1103 [1096]	1096 [1089]	1088 [1080]	1077 [1068]	1072 [1061]	1060 [1048]	1048 [1035]	1033 [1019]	1012 [1002]	991 [983]
	High	-	1407 [1103]	1408 [1096]	1403 [1088]	1403 [1077]	1398 [1072]	1390 [1060]	1379 [1048]	1368 [1033]	1359 [1012]	1349 [991]
450 CFM / Ton Setting	Low	-	1234 [1241]	1232 [1236]	1227 [1229]	1221 [1228]	1218 [1216]	1207 [1208]	1200 [1197]	1190 [1187]	1181 [1176]	1171 [1163]
	High	-	1571 [1587]	1575 [1589]	1584 [1586]	1580 [1579]	1575 [1573]	1568 [1561]	1563 [1551]	1556 [1539]	1547 [1529]	1540 [1516]

(a) Factory Default Setting.

<b>5WCZ5048A*</b>		<b>EXTERNAL STATIC PRESSURE (IN.WG) Cooling CFM Horizontal [Downflow]</b>										
<b>Motor Speed</b>		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
350 CFM / Ton Setting	Low	-	954 [948]	973 [977]	977 [977]	973 [970]	966 [969]	957 [975]	950 [979]	944 [962]	-	-
	High	-	1363 [1354]	1390 [1396]	1396 [1396]	1390 [1386]	1379 [1384]	1368 [1393]	1358 [1399]	1349 [1375]	-	-
400 CFM / Ton Setting (a)	Low	-	1121 [1102]	1106 [1106]	1104 [1109]	1106 [1113]	1108 [1116]	1108 [1119]	1104 [1120]	1097 [1118]	-	-
	High	-	1601 [1574]	1580 [1580]	1577 [1585]	1580 [1589]	1583 [1594]	1583 [1599]	1577 [1601]	1567 [1597]	-	-
450 CFM / Ton Setting	Low	-	1223 [1295]	1254 [1277]	1268 [1272]	1271 [1273]	1268 [1274]	1264 [1273]	1261 [1272]	1258 [1273]	-	-
	High	-	1747 [1851]	1792 [1824]	1811 [1817]	1816 [1818]	1812 [1820]	1806 [1819]	1801 [1817]	1797 [1819]	-	-

(a) Factory Default Setting.

<b>5WCZ5060A*</b>		<b>EXTERNAL STATIC PRESSURE (IN.WG) Cooling CFM Horizontal [Downflow]</b>										
<b>Motor Speed</b>		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
350 CFM / Ton Setting	Low	-	1163 [1259]	1238 [1219]	1259 [1208]	1256 [1207]	1246 [1206]	1240 [1199]	1237 [1188]	1230 [1185]	-	-
	High	-	1662 [1799]	1768 [1742]	1799 [1726]	1794 [1725]	1780 [1723]	1771 [1712]	1767 [1698]	1757 [1692]	-	-
400 CFM / Ton Setting (a)	Low	-	1443 [1410]	1427 [1393]	1422 [1386]	1422 [1384]	1423 [1383]	1422 [1380]	1418 [1368]	1410 [1344]	-	-
	High	-	2062 [2015]	2038 [1990]	2031 [1980]	2032 [1977]	2034 [1976]	2032 [1971]	2025 [1955]	2015 [1920]	-	-

(a) Factory Default Setting.

<b>Airflow with Auxiliary Heat (CFM)</b>								
<b>SWITCH SETTINGS</b>		<b>SELEC-TION</b>	<b>NOMINAL AIRFLOW</b>					
			<b>5WCZ5024</b>	<b>5WCZ5030</b>	<b>5WCZ5036</b>	<b>5WCZ5042</b>	<b>5WCZ5048</b>	<b>5WCZ5060</b>
7 - OFF	8 - OFF	LOW	700 CFM	875CFM	1050 CFM	1225 CFM	1400 CFM	1750 CFM
7 - ON	8 - OFF	HIGH	800 CFM	1000CFM	1200 CFM	1400 CFM	1600 CFM	2000 CFM
7 - OFF	8 - ON	HIGH	800 CFM	1000CFM	1200 CFM	1400 CFM	1600 CFM	2000 CFM
7 - ON	8 - ON	HIGH	800 CFM	1000CFM	1200 CFM	1400 CFM	1600 CFM	2000 CFM

# Wiring Diagrams

Figure 1. 5WCZ5024A1-48A1

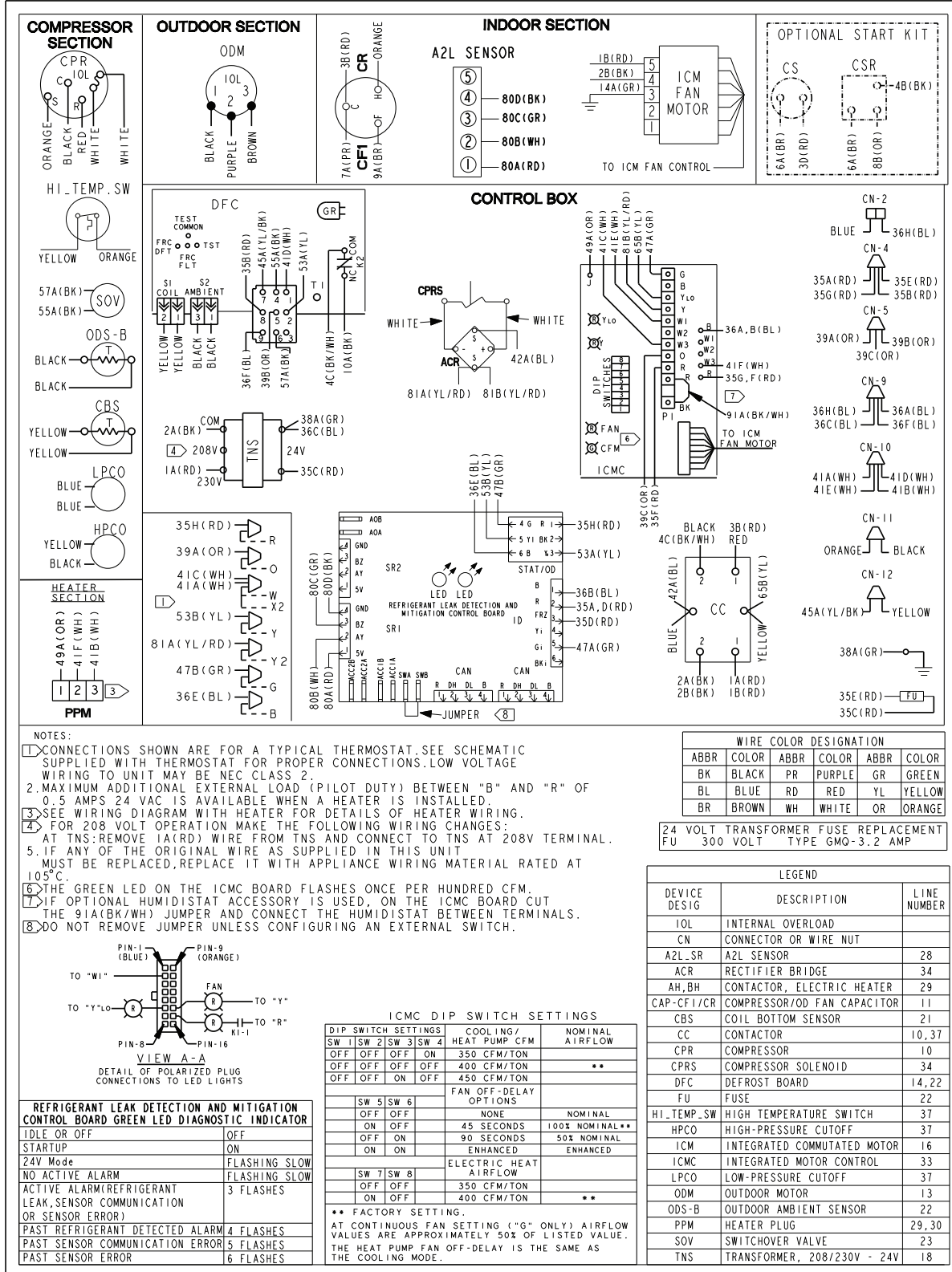




Figure 3. 5WCZ5060A1

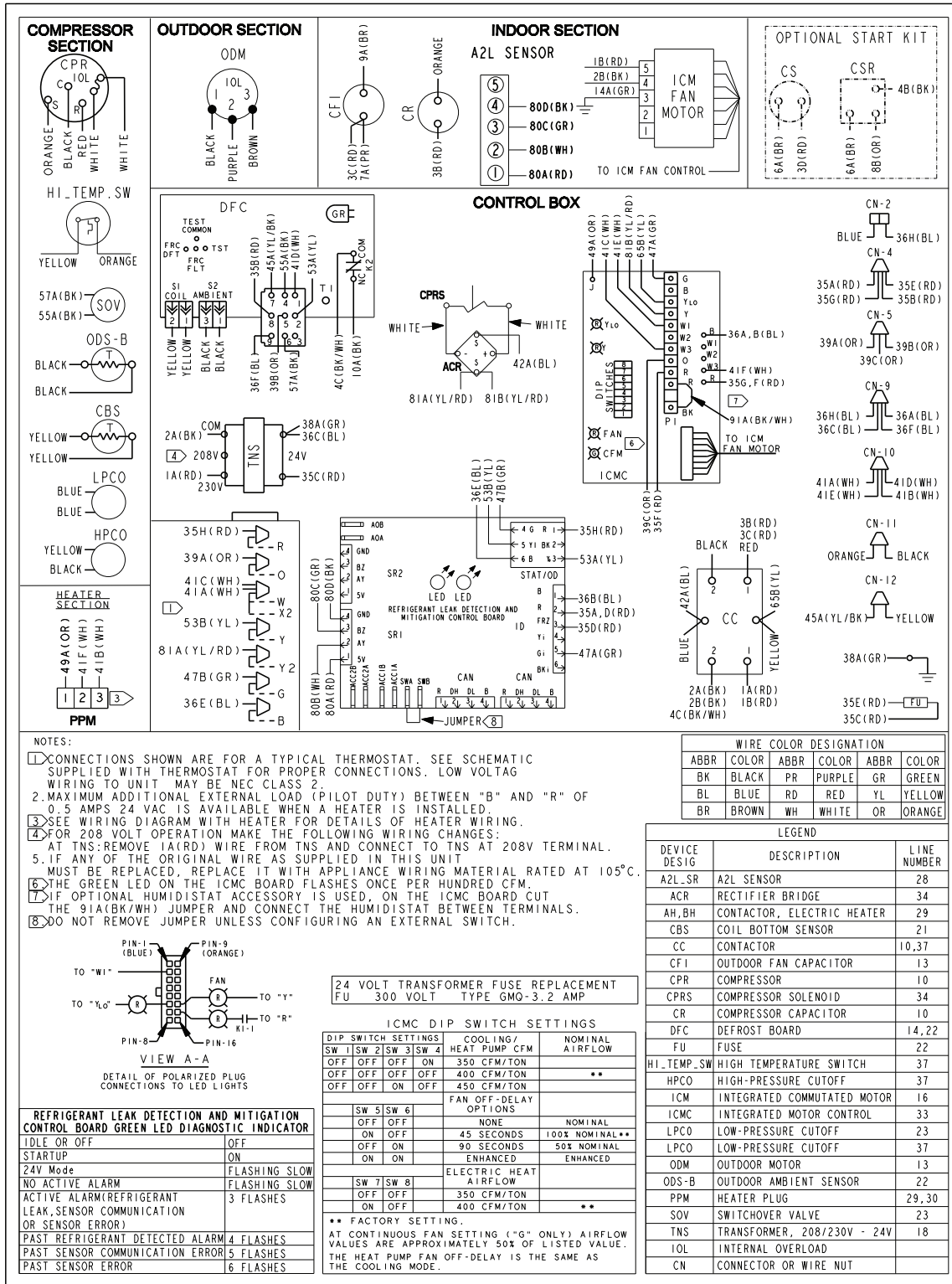


Figure 4. 5WCZ5060A1

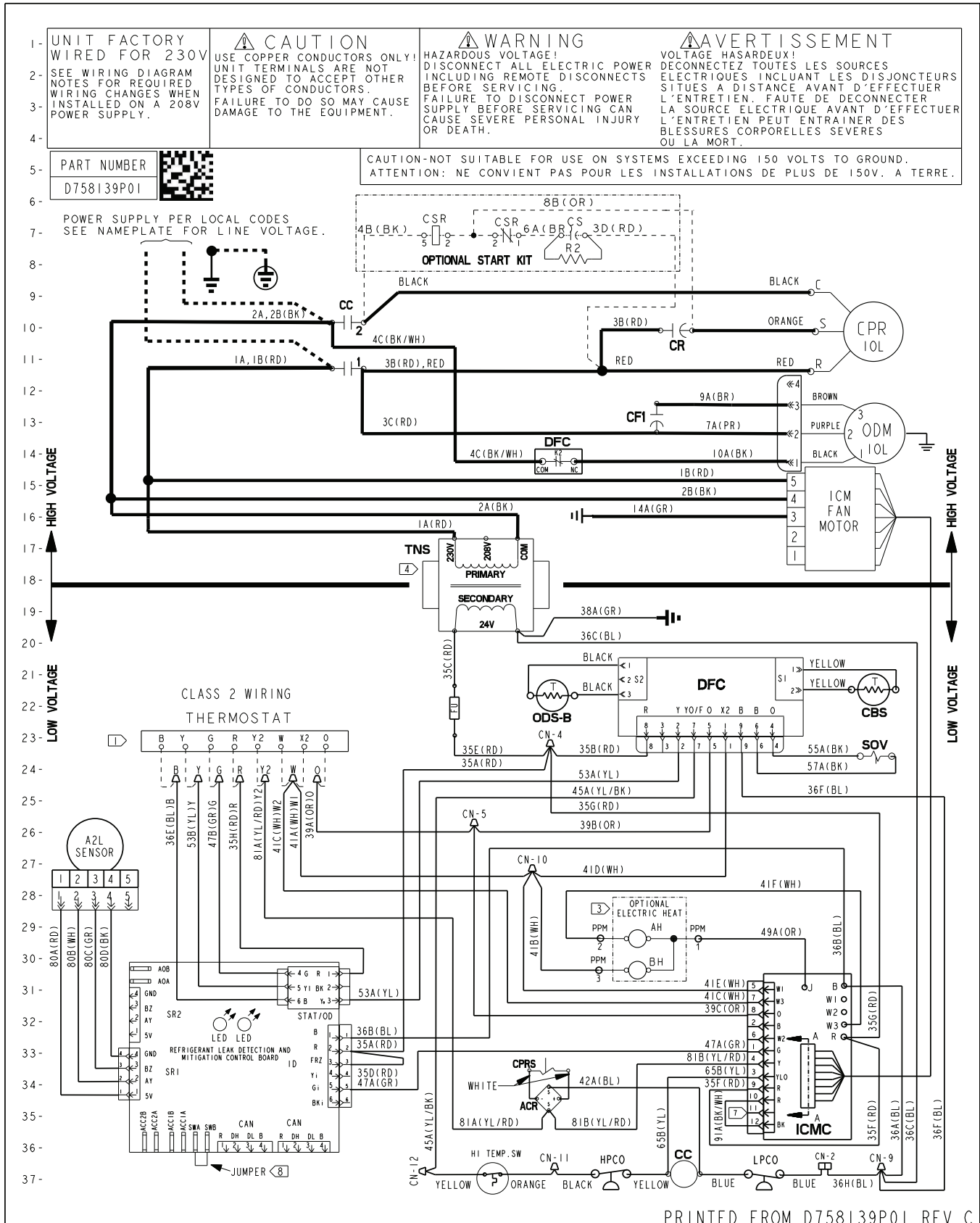


Figure 5. 5WCZ5036A3-60A3

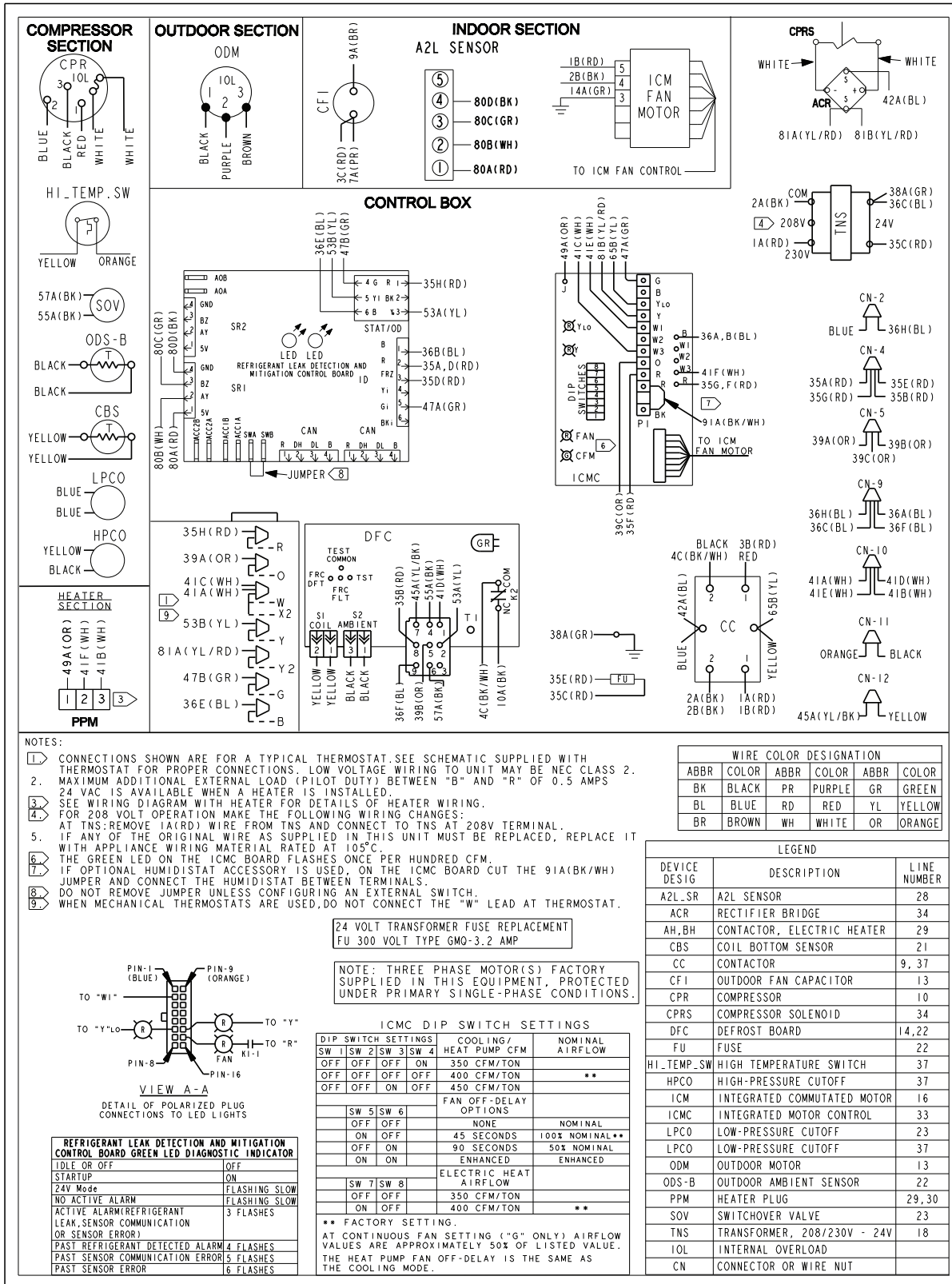
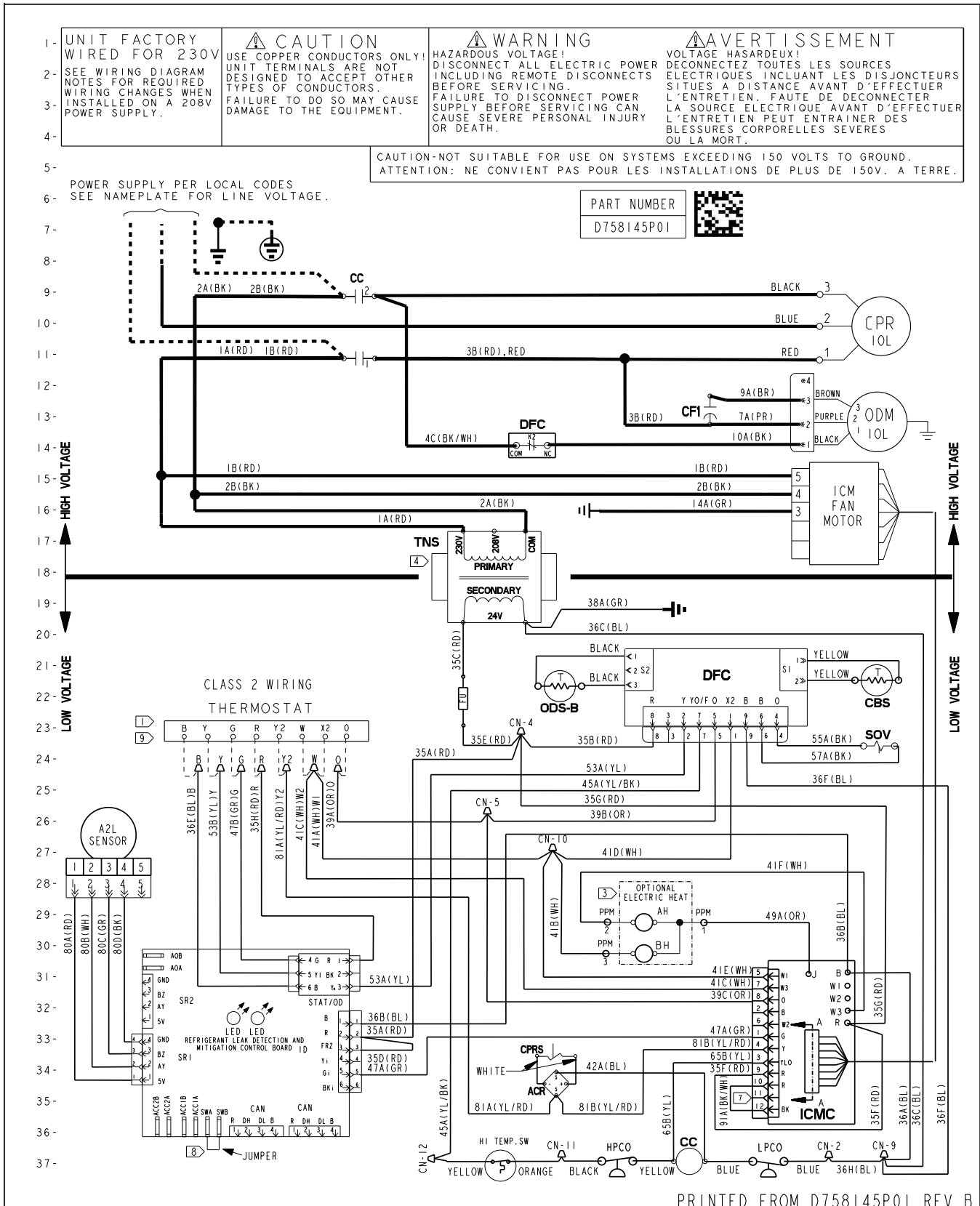




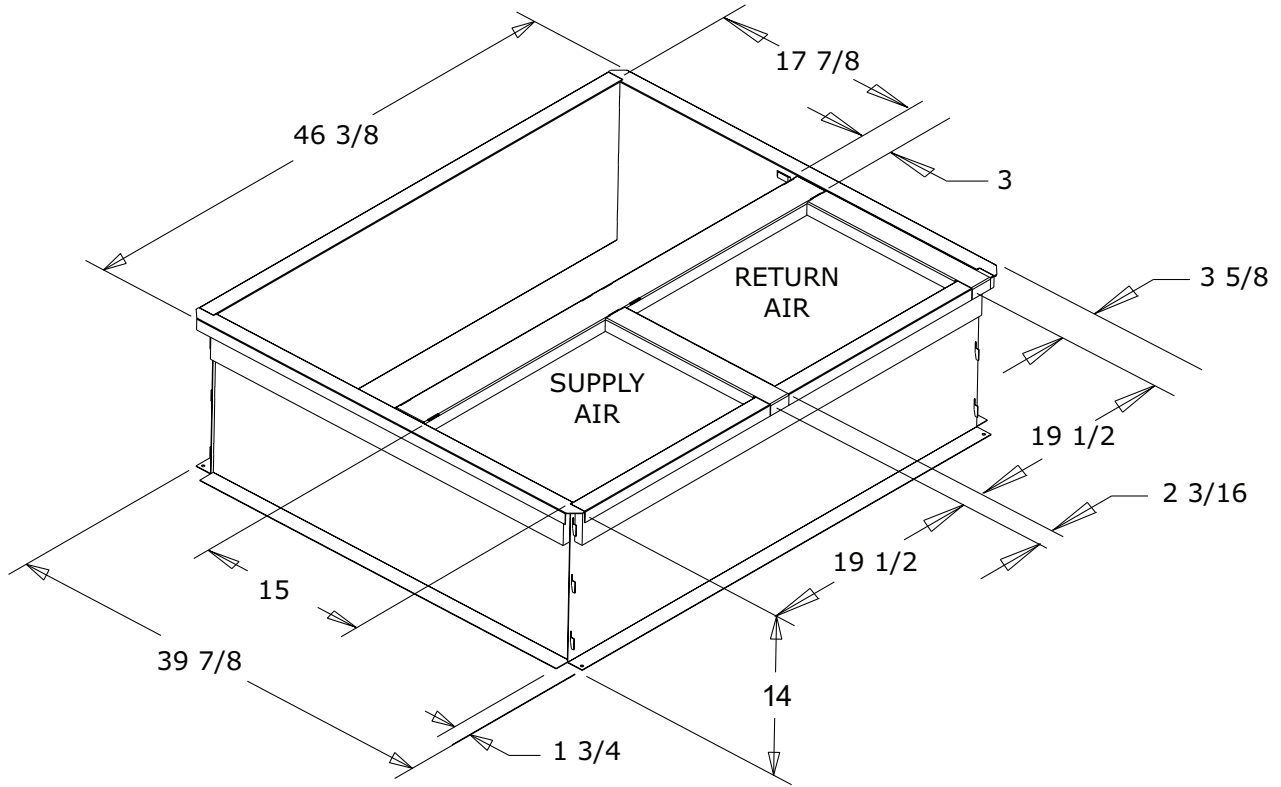
Figure 6. 5WCZ5036A3-60A3



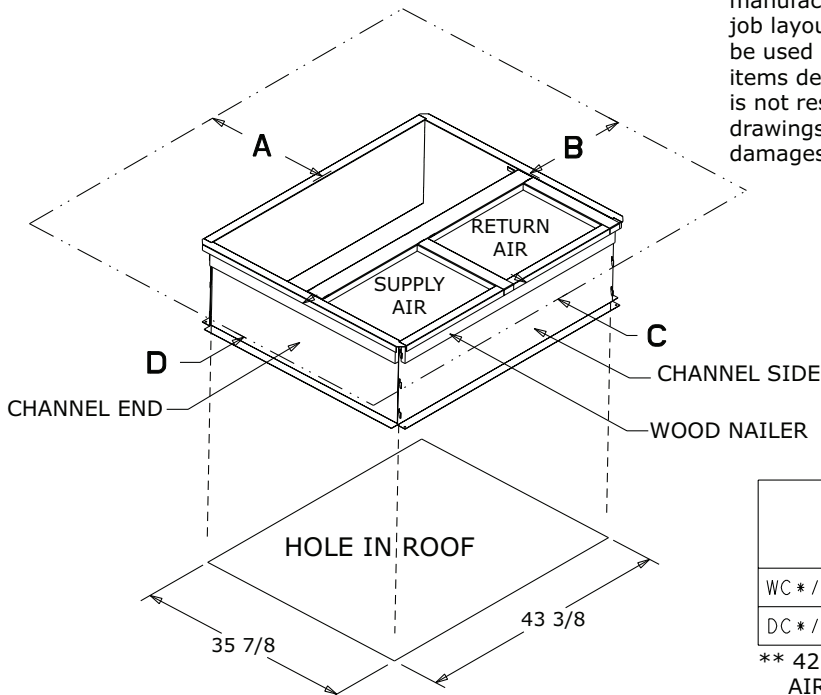
# Full Perimeter Roof Mounting Curb

Figure 7. 2.0 – 3.0 Ton Models

## BAYCURB050A Full Perimeter Roof Mounting Curb



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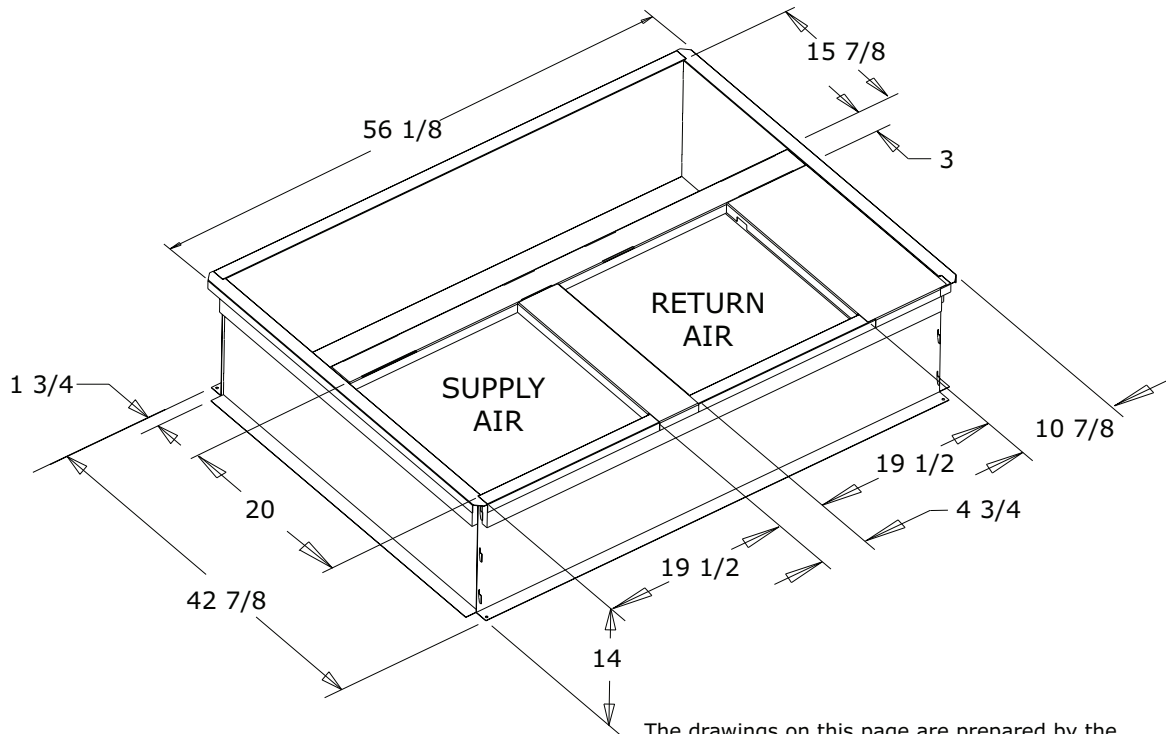


	SERVICE CLEARANCE DIMENSIONS			
	A	B	C	D
WC*/TC*	42.00	36.00	12.00**	24.00
DC*/YC*	42.00	36.00	12.00**	36.00

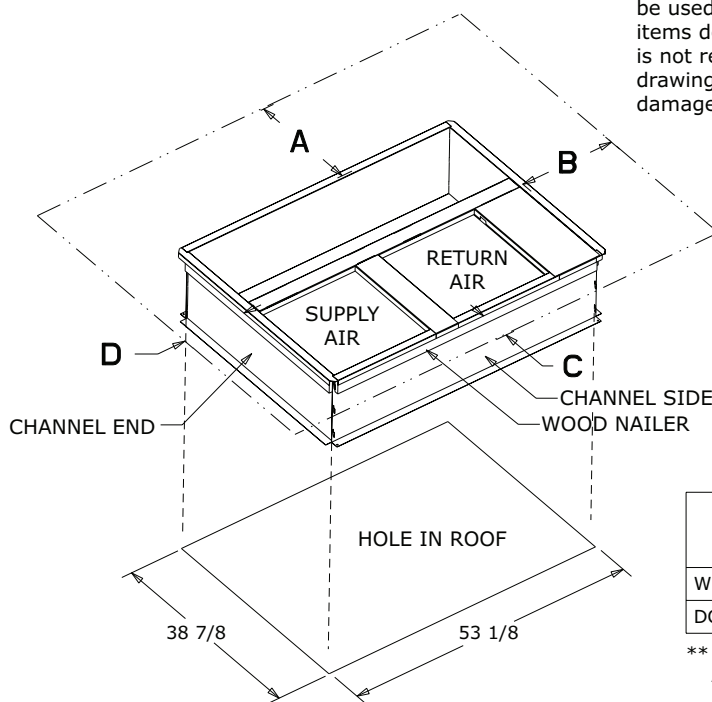
\*\* 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

Figure 8. 3.5 – 5.0 Ton Models

**BAYCURB051A Full Perimeter Roof Mounting Curb**



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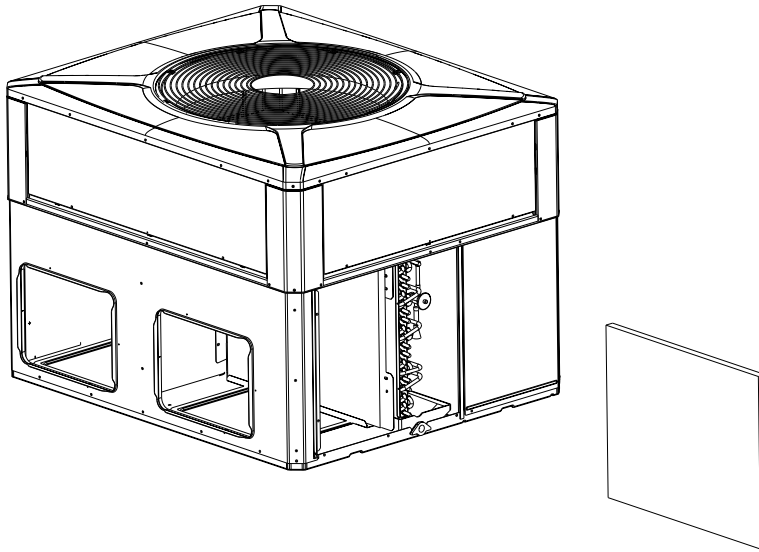


	SERVICE CLEARANCE DIMENSIONS			
	A	B	C	D
WC*/TC*	42.00	36.00	12.00**	24.00
DC*/YC*	42.00	36.00	12.00**	36.00

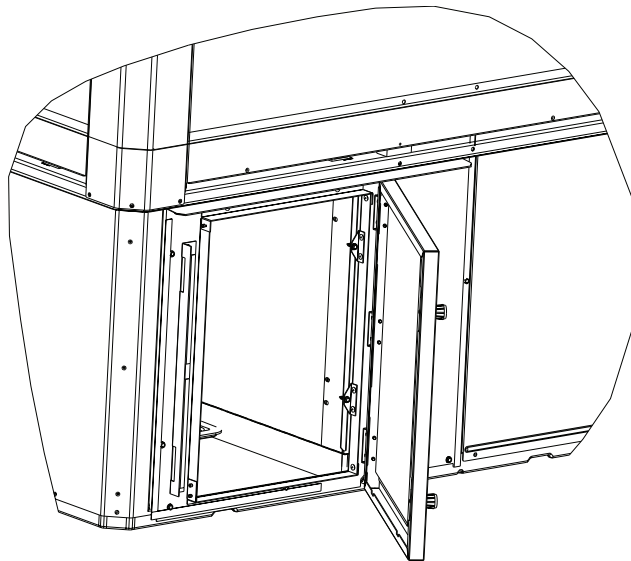
\*\* 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

## Optional Equipment — Filter Rack

**Figure 9. BAYFLTR101 Filter Rack (2.0 – 3.0 Ton Models)  
BAYFLTR201 (3.5 – 5.0 Ton Models)  
(Mounts in Filter/Coil Section)**



**Figure 10. BAYACCDOR1A Hinged Filter Access Door (2.0 – 3.0 Ton Models)  
BAYACCDOR2A (3.5 – 5.0 Ton Models)  
Replaces Filter/Coil Access Panel**



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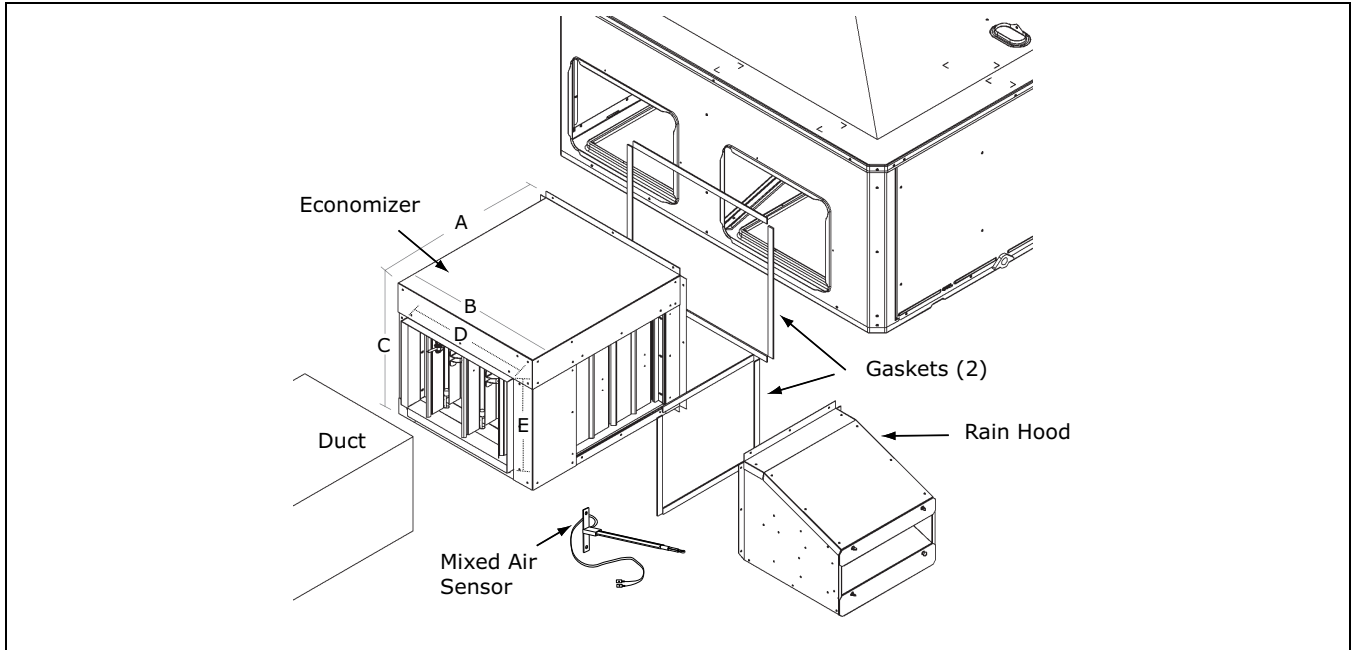


# Optional Equipment – Economizer

**Table 1. BAYECON107, 108A Down Discharge Economizer and Rain Hood (Mounts Over Horizontal Return Air Opening)**

	<b>Economizer</b>	<b>Unit Application Models</b>
	BAYECON107A	2.0 – 3.0 Ton Models
	BAYECON108A	3.5 – 5.0 Ton Models

**Table 2. BAYCON207, 208A Horizontal Economizer and Rain Hood**



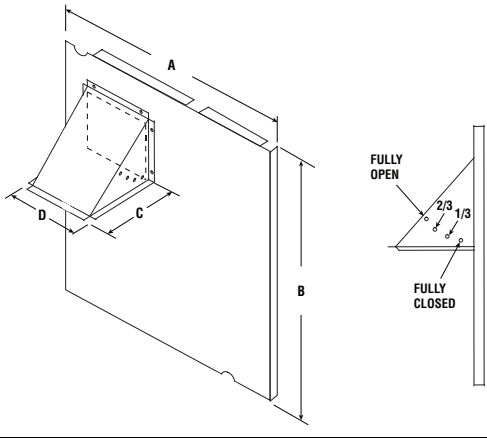
Economizer	Models	A	B	C	D	E	F
BAYECON207A	2.0 – 3.0 Ton	22"	20"	16-7/8"	15-11/16"	11-11/16"	15"
BAYECON208A	3.5 – 5.0 Ton	26"	22-21/32"	19"	17-11/16"	14-11/16"	21-3/8"

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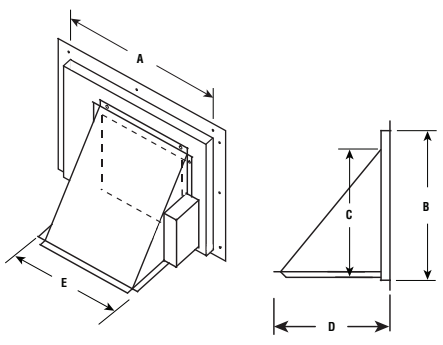


# Optional Equipment – Outside Air Damper

**Table 3. BAYOSAH001 and 002A Outside Air Damper  
(Replaces Filter/Coil Access Panel)**

	Manual Fresh Air Model	Unit Application Models	A	B	C	D
	BAYOSAH001A	2.0 – 3.0 Ton	22-7/16"	20-11/16"	12-3/8"	9-3/16"
BAYOSAH002A	3.5 – 5.0 Ton	25-3/16"	20-11/16"	12-3/8"	9-3/16"	

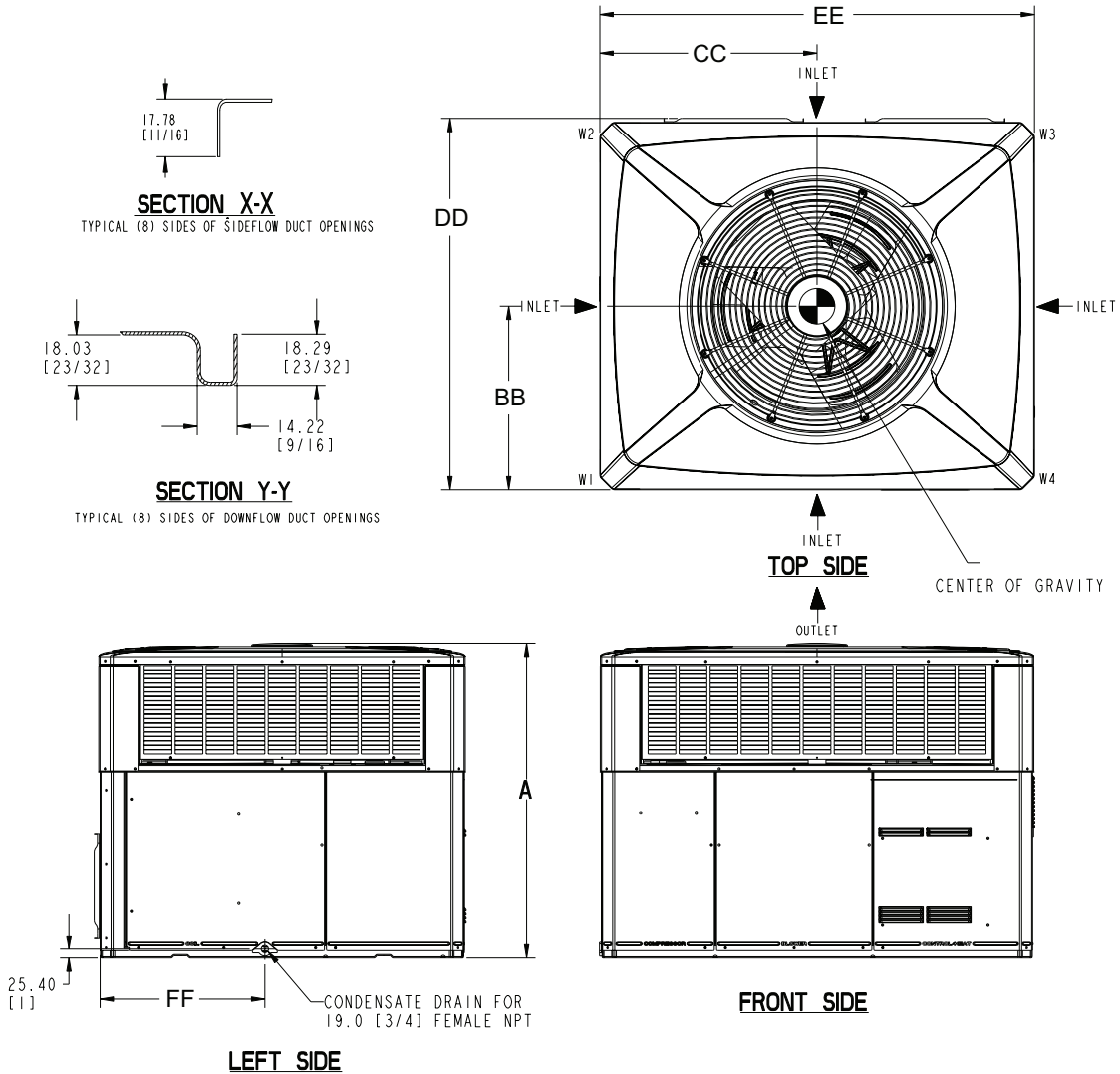
**Table 4. BAYDM-PR101 and 102A, 25% Motorized Outside Air Damper  
(Mounts Over Horizontal Return Air Opening)**

	Manual Fresh Air Model	Unit Application Models	A	B	C	D	E
	BAYDM-PR101A	2.0 – 3.0 Ton	15-13/16"	11-13/16"	10-1/4"	11-1/2"	12-1/4"
BAYDM-PR102A	3.5 – 5.0 Ton	18-3/16"	15-1/8"	10-1/4"	11-1/2"	12-1/4"	

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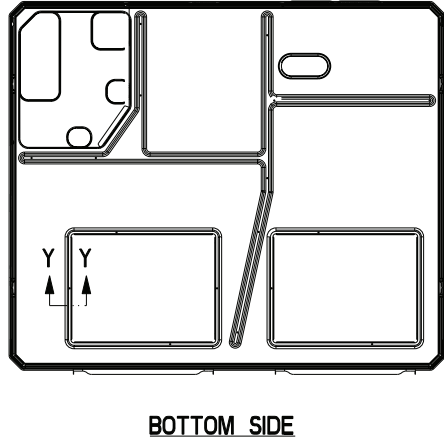
# Determine Unit Clearances

Figure 11. Space on Sides Requirements



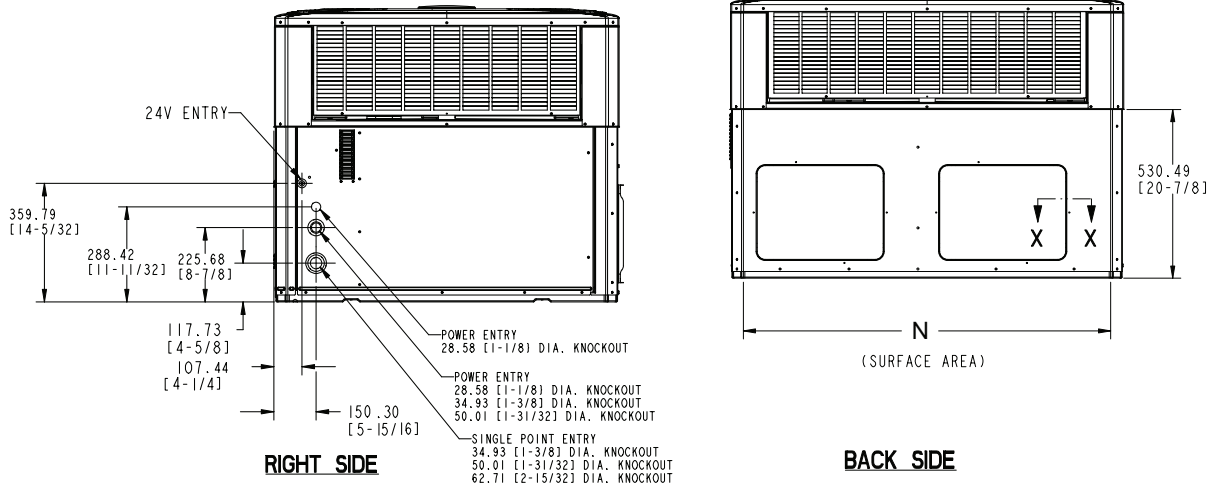
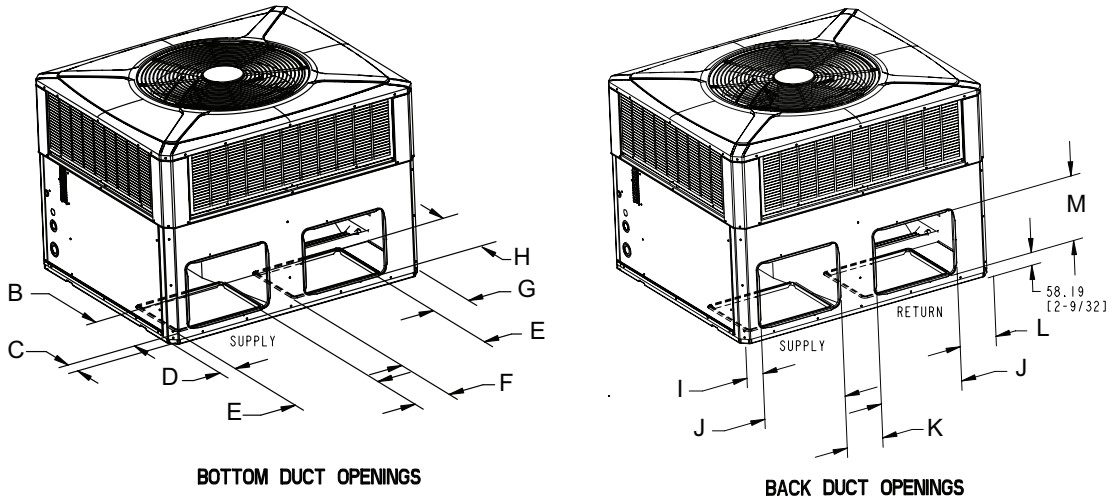
	2 - 3 TON Units		3.5 - 5 TON Units	
	RECOMMENDED SERVICE CLEARANCE mm [Inches]			
	W/ ECONOMIZER		W/ ECONOMIZER	
BACK SIDE	305 [12]	762 [30]	305 [12]	762 [30]
LEFT SIDE	762 [30]	914 [36]	914 [36]	1067 [42]
RIGHT SIDE	610 [24]	-	610 [24]	-
FRONT SIDE	1067 [42]	-	762 [30]	-
	CLEARANCE TO COMBUSTIBLE MATERIAL mm [Inches]			
BOTTOM	0		0	
BACK SIDE	25 [1]		25 [1]	
LEFT SIDE	152 [6]		152 [6]	
RIGHT SIDE	152 [6]		152 [6]	
FRONT SIDE	305 [12]		305 [12]	
TOP	914 [36]		914 [36]	
	DIMENSIONS mm [Inches]			
A	HEIGHT OF UNIT - TABLE NEXT PAGE			
BB	CENTER OF GRAVITY - TABLE NEXT PAGE			
CC	CENTER OF GRAVITY - TABLE NEXT PAGE			
DD -Depth	1093.72 [43-1/16]*		1173.99 [46-1/4]*	
EE -Width	1284.99 [50-5/8]*		1535.94 [60-1/2]*	
FF	497.8 [19-5/8]		576.00 [22-11/16]	

\* Subtract 50.8 [2] for 3 phase models due to metal louvers.



# Determine Unit Clearances

**Figure 12. Bottom and Back Duct Openings**



	Height	PHYSICAL DIMENSIONS mm (in)													
	mm (in)	A	B	C	D	E	F	G	H	I	J	K	L	M	N
5WCZ5024															
5WCZ5036	949.33 (37.37)	304.80 (12.0)	92.33 (3.63)	66.51 (2.62)	406.40 (16.0)	167.89 (6.61)	173.46 (6.83)	304.80 (12.0)	48.35 (1.90)	398.22 (15.67)	176.07 (6.93)	176.68 (6.95)	296.62 (11.67)	1155.45 (45.49)	
5WCZ5030															
5WCZ5042															
5WCZ5048	1050.93 (41.37)	457.20 (18.0)	75.41 (2.96)	75.41 (2.96)	381.00 (15.0) 457.20 (18.0)	244.09 (9.61)	318.75 (12.56)	381.00 (15.0)	86.25 (3.39)	449.02 (17.67)	176.07 (6.93)	329.58 (12.97)	372.82 (14.67)	1351.95 (53.22)	
5WCZ5060															

	Corner Weights KG/LBS				SHIPPING WEIGHT KG/LBS	UNIT WEIGHT KG/LBS	Center Of Gravity mm[inch]	
	W1	W2	W3	W4			BB	CC
5WCZ5024	62.2 [137]	38.1 [84]	27.2 [60]	42.6 [94]	201.8 [445]	170.1 [375]	401.3 [15.8]	508 [20]
5WCZ5030	63.6 [140]	38.1 [84]	27.2 [60]	42.6 [94]	203.2 [448]	171.5 [378]	401.3 [15.8]	508 [20]
5WCZ5036*1	62.7 [138]	38.1 [84]	27.2 [60]	42.6 [94]	214.1 [472]	170.6 [376]	401.3 [15.8]	508 [20]
5WCZ5036*3	61.2 [135]	38.1 [84]	27.2 [60]	42.6 [94]	212.6 [469]	169.1 [373]	401.3 [15.8]	508 [20]
5WCZ5042	83.9 [185]	40.8 [90]	30.8 [68]	52.2 [115]	265.8 [586]	207.7 [458]	414.0 [16.3]	635 [25]
5WCZ5048*1	96.2 [212]	40.8 [90]	30.8 [68]	52.2 [115]	278.1 [613]	220.0 [485]	414.0 [16.3]	635 [25]
5WCZ5048*3	94.4 [208]	40.8 [90]	30.8 [68]	52.2 [115]	276.3 [609]	218.2 [481]	414.0 [16.3]	635 [25]
5WCZ5060*1	82.1 [181]	47.6 [105]	35.8 [79]	60.8 [134]	284.4 [627]	226.3 [499]	414.0 [16.3]	635 [25]
5WCZ5060*3	80.4 [177]	47.6 [105]	35.8 [79]	60.8 [134]	292.2 [644]	234.1 [516]	414.0 [16.3]	635 [25]





# Mechanical Specifications

## General

The units shall be horizontal airflow as shipped and convertible to downflow. All units shall be factory assembled, piped, internally wired and fully charged with refrigerant. Units shall be certified to UL Standard 1995. All units shall be factory run tested to check cooling operation, fan and blower rotation and control or TXV sequence. Units shall be designed to operate at ambient temperatures between 115°F and 55°F in cooling as manufactured. Cooling performance shall be rated in accordance with A.H.R.I. standards.

## Unit Casing

All components shall be mounted in a weather-resistant steel cabinet with an enamel finish. Access panels shall be provided for unit controls and indoor coil and fans. Indoor air section compartment shall be completely insulated with fireproof, permanent, odorless glass fiber material. Knockouts shall be provided for utility and control connections. Drain connections shall be provided to accommodate indoor water runoff.

## Compressor

The compressor shall be hermetically sealed, high efficiency Climatuff® two-stage compressors. Internal overcurrent and over temperature protection, internal pressure relief shall be standard.

## Refrigeration System

All units shall have TXV in cooling and TXV in heating. Service pressure tap ports, and a refrigerant line filter dryer shall be standard.

## Evaporator Coil (2-4 Ton Models)

All aluminum micro channel, extruded tubes, mechanically bonded to aluminum fins and factory pressure tested at 480 PSIG and leak tested at 250 to 300 PSIG. All units have TXV to control refrigerant flow.

## Evaporator Coil (5 Ton Models)

Internally enhanced 3/8" OD seamless copper tubing mechanically bonded to aluminum fins, factory pressure tested at 480 PSIG and leak tested at 250 to 300 PSIG. All units have TXV to control refrigerant flow.

## Condenser Coil

The Spine Fin™ condenser coil shall be continuously wrapped, corrosion resistant all aluminum with minimum brazed joints. This coil is 3/8 inch O.D. seamless aluminum tubing glued to a continuous aluminum fin. Coils are lab tested to withstand 2,000 pounds of pressure per square inch. The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

## Indoor Air Fan

Direct-drive, forward-curved, centrifugal wheel in a Composite Vortica® Blower housing. Motor shall have thermal overload protection. Permanently lubricated motor bearings. Motor/blower assembly isolated from unit with rubber mounts.

## Condenser Fan

Direct-drive, draw thru propeller type. Weather-proofed permanent split capacitor fan motor shall have built-in thermal overload and permanently lubricated motor bearings.

## System Controls

System controls include condenser fan, evaporator fan and compressor contactors.

## Accessories

### Roof Curb

The roof curb shall be designed to mate with the unit and provide support and complete weathertight installation when properly installed. Adhesive back polyurethane sealing strips shall be provided to ensure an airtight seal between supply and return openings of the curb and unit. The roof curb design allows field fabricated ductwork to be connected directly to the curb. Curb ships knocked down for field assembly, and includes factory-installed wood nailer strips.



## Mechanical Specifications

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### **Electric Heaters**

Each heater assembly shall include power supply fusing if over 48 amps, automatic resetting limit switches and heat limiters for thermal protection. Heaters shall be provided with polarized plugs for quick connection to unit low voltage wiring. Electric heat modules shall be UL listed.

### **Single Source Power Entry**

This accessory when used with electric heat accessory shall allow single source power connection to unit and heater combination. Single source power entry kits shall have specific matching heater(s). Kit shall include high voltage terminal blocks, fuse blocks and fuses, cut-to-length interconnecting wiring, and junction box (if required) to provide power sources with fuse protection as required for both the unit and accessory heater. Kit components shall install within the unit cabinet in the heater access section. Single source branch power circuit shall be protected and wired in accordance with local codes.

### **Fully Modulating Economizer**

This accessory shall be field installed and be composed of the following items: 0-100% fresh air damper, damper drive motor, fixed dry bulb enthalpy control, and low voltage wiring plug for electrical connections. Solid state enthalpy or differential enthalpy control is optional. Economizer operations shall be controlled by the preset position of the enthalpy control. A barometric relief damper shall be standard with the economizer and provide a pressure operated damper that shall be gravity closing and prohibit entrance of outside air on equipment "off" cycle. Economizer requires BAYRLAY004B relay kit to interface the economizer to the heat pump.

### **Manual Outside Air Dampers**

Rain hood and screen shall be field installed. Suitable for up to 25% outside air.

### **Start Kit**

Extra compressor starting capacity for single phase equipment.

### **Control Options**

#### **Standard Indoor Thermostats**

Two stage heating/cooling or one stage heating/cooling thermostats shall be available in either manual or automatic changeover.

#### **Programmable Electronic Night Setback Thermostat**

Programmable electronic thermostat shall provide heating setback and cooling setup with 7-day, programming capability. 1H/1C or 2H/2C models available.





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Trane has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.