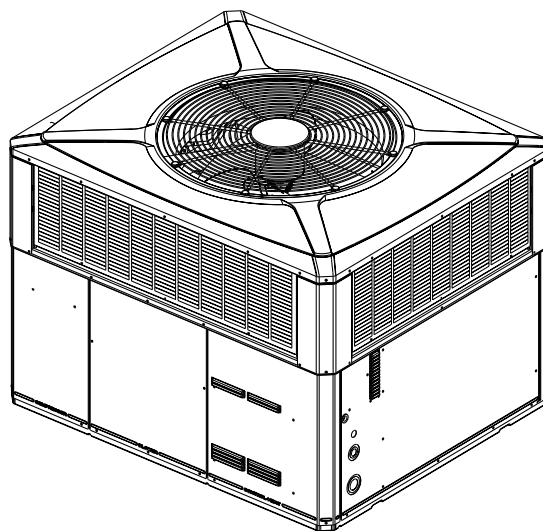




Product and Submittal Data

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

5WCZ5024A1000A
5WCZ5030A1000A
5WCZ5036A1000B
5WCZ5042A1000A
5WCZ5048A1000B
5WCZ5060A1000A
5WCZ5036A3000B
5WCZ5048A3000B
5WCZ5060A3000A
5WCZ5036A4000B
5WCZ5048A4000B
5WCZ5060A4000A



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



Introduction

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.

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Revision History

- Updates models on the cover page.
- Updated Product Specifications chapter.



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Optional Equipment Listing

Table 1. Optional Equipment for 5WCZ5 Packaged Units (check mark indicates accessories included)

Hinged Filter Access Door (5WCZ5024-036) ^(a)	BAYACCDOR1A[]
Hinged Filter Access Door (5WCZ5042-060) ^(a)	BAYACCDOR2A[]
Roof Curb Full Perimeter (5WCZ5024-036) ^(b)	BAYCURB050B[]
Roof Curb Full Perimeter (5WCZ5042-060) ^(b)	BAYCURB051B[]
Roof Curb Utility Extension Kit (Used with BAYCURB050B)	BAYUTIL101B[]
Roof Curb Utility Extension Kit (Used with BAYCURB051B)	BAYUTIL102B[]
0-25% Motorized Outside Air Damper (5WCZ5024-036)	BAYDMPR101A[]
0-25% Motorized Outside Air Damper (5WCZ5042-060)	BAYDMPR102A[]
Outside Air Control for V.S. Economizer (5WCZ5024-060)	BAYOSAC001B[]
0-25% Manual Fresh Air Damper (5WCZ5024-036) ^{(c)(d)}	BAYOSAH001A[]
0-25% Manual Fresh Air Damper (5WCZ5042-060) ^{(c)(d)}	BAYOSAH002A[]
0-100% Mod Economizer w/Baro. Relief (5WCZ5024-036) ^{(c)(e)(f)}	BAYECON107A[]
0-100% Mod. Economizer w/Baro. Relief (5WCZ5042-060) ^{(c)(e)(f)}	BAYECON108A[]
0-100% Horizontal Economizer (5WCZ5024-036) ^{(c)(e)}	BAYECON207A[]
0-100% Horizontal Economizer (5WCZ5042-060) ^{(c)(e)}	BAYECON208A[]
Economizer Relay Kit (required for Heat Pump applications)	BAYRLAY006B[]
Enthalpy Control for Economizer (solid state)	BAYENTH001A[]
Remote Potentiometer (Used with all BAYECON)	BAYSTAT023[]
1 to 2-in. Filter Frame (5WCZ5024-036) (20 x 25 filter not included) ^(c)	BAYFLTR101C[]
1 to 2-in. Filter Frame (5WCZ5042-060) (20 x 20, 20 x 18 filter not included) ^(c)	BAYFLTR201C[]
Evaporator Defrost Control (Low Ambient Cooling) Kit ^(g)	BAYLOAM011A[]
Head Pressure Control (Low Ambient Cool) (208/240v) Kit ^(g)	BAYLOAM105A[]
Crankcase Heater Scroll (5WCZ5048-060 1/3,060 1/3)(230v) ^(g)	BAYCCHT102A[]
Crankcase Heater Scroll (5WCZ5024-036)(230v) ^(g)	BAYCCHT103A[]
Crankcase Heater Scroll (5WCZ5048, 060)(460v) ^(g)	BAYCCHT404B[]
Crankcase Heater Scroll (5WCZ5036)(460v) ^(g)	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-in. Duct Shroud Covers Horizontal 5WCZ5024-060 ^(h)	BAYCOVR112A[]
18-in. Duct Shroud Covers Horizontal 5WCZ5024-060 ^(h)	BAYCOVR118A[]
Extreme Condition Mounting Kit - All BAYCURB and BAYADAP	BAYEXMK001A[]
Extreme Condition Mounting Kit - All BAYUTIL	BAYEXMK002B[]
Extreme Condition Mounting Kit - All Slab Mounts	BAYEXMK003A[]
Lifting Lug Kit	BAYLIFT002B[]
Adaptor Kit for Installation of CleanEffects and 5-in. Media Filter (Horizontal) (5WCZ5024-036)	BAYACCEADP1B[]
Adaptor Kit for Installation of CleanEffects and 5-in. Media Filter (Horizontal) (5WCZ5042-060)	BAYACCEADP2B[]
Quick Start Kit (5WCZ)	BAYQSTK300B[]
Supplementary heaters (1 phase) * = W Only (Does not apply to Gas/Electric or Dual Fuel Models)	
3.76/5.0 kW Heater (208/240V 1 Ph) (5°CZ5024-060)	BAYHTRG105A[]
6.0/8.0 kW Heater (208/240V 1 Ph) (5°CZ5024-060)	BAYHTRG108A[]

Table 1. Optional Equipment for 5WCZ5 Packaged Units (check mark indicates accessories included) (continued)

7.50/10.0 kW Heater (208/240V 1 Ph) (5°CZ5024-060)	BAYHTRG110A[]
11.27/15.0 kW Heater (208/240V 1 Ph) (5°CZ5030-060)	BAYHTRG115A[]
15.0/20.0 kW Heater (208/240V 1 Ph) (5°CZ5042-060)	BAYHTRG120A[]
18.78/25.0 kW Heater (208/240V 1 Ph) (5°CZ5048-060)	BAYHTRG125A[]
Supplementary heaters (3 phase) * = W Only (Does not apply to Gas/Electric or Dual Fuel models)	
3.76/5.0 kW Heater (208/240V 3 Ph) (5°CZ5036-060)	BAYHTRV305A[]
6.0/8.0 kW Heater (208/240V 3 Ph) (5°CZ5036-060)	BAYHTRV308A[]
7.50/10.0 kW Heater (208/240V 3 Ph) (5°CZ5036-060)	BAYHTRV310A[]
11.27/15.0 kW Heater (208/240V 3 Ph) (5°CZ5036-060)	BAYHTRV315A[]
15.0/20.0 kW Heater (208/240V 3 Ph) (5°CZ5048-060)	BAYHTRV320A[]
18.78/25.0 kW Heater (208/240V 3 Ph) (5°CZ5048-060)	BAYHTRV325A[]
5.0 kW Heater (480V 3 Ph) (5°CZ5036-060)	BAYHTRV405A[]
8.0 kW Heater (480V 3 Ph) (5°CZ5036-060)	BAYHTRV408A[]
10.0 kW Heater (480V 3 Ph) (5°CZ5036-060)	BAYHTRV410A[]
15.0 kW Heater (480V 3 Ph) (5°CZ5036-060)	BAYHTRV415A[]
20.0 kW Heater (480V 3 Ph) (5°CZ5048-060)	BAYHTRV420A[]
Single Power Entry Kit ⁽ⁱ⁾	BAYSPEK060J[]
Single Power Entry Kit ⁽ⁱ⁾	BAYSPEK061J[]
Single Power Entry Kit ⁽ⁱ⁾	BAYSPEK062J[]
Single Power Entry Kit ⁽ⁱ⁾	BAYSPEK063J[]
Single Power Entry Kit ⁽ⁱ⁾	BAYSPEK064J[]
Single Power Entry Kit ⁽ⁱ⁾	BAYSPEK065J[]

(a) BAYACCDOR1A requires BAYFLTR101C and BAYACCDOR2A requires BAYFLTR201C. 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) BAYCOVR112A and 118A will not cover 18-in. square-to-round applications.

(i) Must be selected per unit and heater model.



Product Specifications

Table 2. Models – 5WCZ5024*1, 5WCZ5030*1, 5WCZ5036*1, 5WCZ5042*1, 5WCZ45048*1, and 5WCZ5060 *1

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
Performance Cooling^(a)						
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(b)	11.2/15.2	11.2/15.2	11.2/15.2	11.5/15.2	11.2/15.2	11.5/15.2
Sound Power Rating [dB (A)](c)	66.8	67.3	70	72	72	80
Performance Heating						
(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	7.2	7.2	7.5	7.2
Power Conn. — V/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
Min. Brch. Cir. Ampacity (b)	18	23	23	30	31	40
Fuse Size — Max. (amps)	25	35	35	45	45	60
Fuse Size — Recmd. (amps)	25	35	35	45	45	60
Compressor	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	10.3/62.0	14.6/82.0	14.69/90.0	18.2 / 106.0	18.3 / 138.0	25.2 / 147.3
Outdoor Coil — Type	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
Indoor Coil — Type	Plate Fin	Plate Fin	Plate Fin	Plate Fin	Plate Fin	Plate Fin

Table 2. Models – 5WCZ5024*1, 5WCZ5030*1, 5WCZ5036*1, 5WCZ5042*1, 5WCZ45048*1, and 5WCZ5060 *1 (continued)

Model	5WCZ5024*1	5WCZ5030*1	5WCZ5036*1	5WCZ5042*1	5WCZ5048*1	5WCZ5060*1
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
Outdoor Fan — Type	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
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. ^(c)	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	0.54 / 0.82	0.54 / 0.82	0.85 / 1.95	0.85 / 1.95	0.85 / 1.95	1.7 / 3.8
Indoor Fan — Type	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. ^(d)	See fan performance table	See fan performance table	See fan performance table	See fan performance table	See fan performance table	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
Filter/ Furnished	No	No	No	No	No	No
Type Recommended	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway
Recmd. Face Area (sq. ft) ^(e)	4.0	4.0	4.0	5.3	5.3	5.3
Refrigerant	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B
Charge (lbs.)	7.1	6.8	7.1	7.5	7.2	9.1
Subcooling	9° F	8° F	12° F	11° F	11° F	10° F
Dimensions	H x W x L					
Crated (in.)	48 x 45 x 52	48 x 45 x 52	48 x 45 x 52	52 x 47 x 62	52 x 47 x 62	52 x 47 x 62
Weight)						
Shipping (lbs.) / Net (lbs.)	445 / 375	448 / 378	472 / 376	586 / 458	613 / 485	627 / 499

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

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

(c) Standard Air — Dry Coil — Outdoor.

(d) Standard Air — Dry Coil — Indoor.

(e) 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-in. W.C.

Table 3. Models – 5WCZ5036*3, 5WCZ5048*3, 5WCZ5060*3, 5WCZ5036*4, 5WCZ5048*4, and 5WCZ5060*4

Model	5WCZ5036*3	5WCZ5048*3	5WCZ5060*3	5WCZ5036*4	5WCZ5048*4	5WCZ5060*4
Rated Volts/Ph/Hz	208–230/3/60	208–230/3/60	208–230/3/60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60
Performance Cooling^(a)						
BTUH (High)	35000	46000	58000	35000	46000	58000
Indoor Airflow (CFM) (High)	1100	1600	1780	1100	1600	1780
Power Input (kW)	3.12	4.09	5.06	3.12	4.09	5.06
BTUH (Low)	27800	36600	46000	27800	36600	46000



Product Specifications

Table 3. Models – 5WCZ5036*3, 5WCZ5048*3, 5WCZ5060*3, 5WCZ5036*4, 5WCZ5048*4, and 5WCZ5060*4 (continued)

Model	5WCZ5036*3	5WCZ5048*3	5WCZ5060*3	5WCZ5036*4	5WCZ5048*4	5WCZ5060*4
Indoor Airflow (CFM) (Low)	830	1280	1290	830	1280	1290
Power Input (kW)	1.77	2.28	2.83	1.77	2.28	2.83
EER2 / SEER2 BTU/Watt-Hr ^(b)	11.2/15.2	11.2/15.2	11.5/15.2	11.2/15.2	11.2/15.2	11.5/15.2
Sound Power Rating [dB (A)] ^(c)	70	72	80	72	74	77
Performance Heating						
(High Temp.) BTUH/COP (High)	33000/3.38	42000/3.59	56000/3.26	33000/3.38	42000/3.59	56000/3.26
Power Input (kW)	2.86	3.43	5.03	2.86	3.43	5.03
(Low Temp.) BTUH/COP (High)	21800/2.48	28000/2.6	37800/2.47	21800/2.48	28000/2.6	37800/2.47
Power Input (kW)	2.58	3.16	4.49	2.58	3.16	4.49
(High Temp.) BTUH/COP (Low)	23600/3.32	31400/3.85	40000/3.26	23600/3.32	31400/3.85	40000/3.26
Power Input (kW)	2.08	2.39	3.59	2.08	2.39	3.59
(Low Temp.) BTUH/COP (Low)	14000/2.09	17200/2.2	24000/2.07	14000/2.09	17200/2.2	24000/2.07
Power Input (kW)	1.96	2.29	3.4	1.96	2.29	3.4
HSPF2 (BTUH/Watt-Hr)	7.2	7.5	7.2	7.2	7.5	7.2
Power Conn. — V/Ph/Hz	208–230/3/60	208–230/3/60	208–230/3/60	460/3/60	460/3/60	460/3/60
Min. Brch. Cir. Ampacity ^(d)	20	23	27	12	16	17
Fuse Size — Max. (amps)	30	30	40	15	20	20
Fuse Size — Recmd. (amps)	30	30	40	15	20	20
Compressor	2 Stage Scroll	2 Stage Scroll	2 Stage Scroll	2 Stage Scroll	2 Stage Scroll	2 Stage Scroll
Volts/Ph/Hz	208–230/3/60	208–230/3/60	208–230/3/60	460/3/60	460/3/60	460/3/60
R.L. Amps — L.R. Amps	9.9 / 82.0	11.9 / 112	13.8 / 150	4.8 / 44.3	6.8 / 61.8	6.9 / 58
Outdoor Coil — Type	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	23.57	23.57	15.49	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
Indoor Coil — Type	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.)	3.54	5	5	3.54	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
Outdoor Fan — Type	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
Dia. (in.)	23.4	28.0	28.3	23.36	28	28.3
Drive/No. Speeds	Direct/ 1	Direct/ 1	Direct/ 1	Direct/ 1	Direct/ 1	Direct/ 1
CFM @ 0.0 in. w.g. ^(e)	3020	4200	5500	3020	4200	5500
Motor— HP/R.P.M	1/6 / 830	1/6 / 830	1/3 / 825	1/3 / 825	1/3 / 825	1/3 / 825
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	460/3/60	460/3/60	460/3/60
F.L. Amps/L.R Amps	0.85 / 1.95	0.85 / 1.95	1.7 / 3.8	0.46 / 1.95	0.46 / 1.95	0.97 / 3.8
Indoor Fan — Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Dia. x Width (in.)	10 x 10	10 x 10	11 x 10	10 x 10	10 x 10	11 x 10

Table 3. Models – 5WCZ5036*3, 5WCZ5048*3, 5WCZ5060*3, 5WCZ5036*4, 5WCZ5048*4, and 5WCZ5060*4 (continued)

Model	5WCZ5036*3	5WCZ5048*3	5WCZ5060*3	5WCZ5036*4	5WCZ5048*4	5WCZ5060*4
Drive/No. Speeds	Direct / Variable	Direct / Variable	Direct / Variable	Direct / Variable	Direct / Variable	Direct / Variable
CFM @ 0.0 in. w.g. ^(f)	See fan performance table	See fan performance table	See fan performance table	See fan performance table	See fan performance table	See fan performance table
Motor—HP/R.P.M.	1/2/Variable	3/4 /Variable	1/Variable	1/2/Variable	3/4 /Variable	1/Variable
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	4.3 / 4.3	6.8 / 6.8	6.9 / 6.9	4.3 / 4.3	6.8 / 6.8	6.9 / 6.9
Filter/ Furnished	No	No	No	No	No	No
Type Recommended	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway
Recmd. Face Area (sq. ft) (g)	4.0	5.3	5.3	4.0	5.3	5.3
Refrigerant	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B
Charge (lbs.)	7.1	7.2	9.1	7.1	7.2	9.1
Subcooling	12° F	11° F	10° F	12° F	11° F	10° F
Dimensions	H x W x L					
Crated (in.)	48 x 45 x 52	52 x 47 x 62	52 x 47 x 62	48 x 45 x 52	52 x 47 x 62	52 x 47 x 62
Weight						
Shipping (lbs.) / Net (lbs.)	469 / 373	609 / 481	623 / 495	481 / 385	630 / 502	644 / 516

(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-in. W.C.

Indoor Fan Performance

Table 4. Airflow - model 5WCZ5024A

5WCZ5024A		External Static Pressure (in.WG) Cooling CFM Horizontal [Downflow]										
Motor Speed		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 ^(a)	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]	—

^(a) Factory Default Setting.

Table 5. Airflow - model 5WCZ5030A

5WCZ5030A		External Static Pressure (in.WG) Cooling CFM Horizontal [Downflow]										
Motor Speed		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 ^(a)	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]

^(a) Factory Default Setting.

Table 6. Airflow - model 5WCZ5036A

5WCZ5036A		External Static Pressure (in.WG) Cooling CFM Horizontal [Downflow]										
Motor Speed		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 ^(a)	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]

Table 6. Airflow - model 5WCZ5036A (continued)

5WCZ5036A		External Static Pressure (in.WG) Cooling CFM Horizontal [Downflow]										
Motor Speed		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
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]

(a) Factory Default Setting.

Table 7. Airflow - model 5WCZ5042A

5WCZ5042A		External Static Pressure (in.WG) Cooling CFM Horizontal [Downflow]										
Motor Speed		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.

Table 8. Airflow - model 5WCZ5048A

5WCZ5048A		External Static Pressure (in.WG) Cooling CFM Horizontal [Downflow]										
Motor Speed		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.



Indoor Fan Performance

Table 9. Airflow - model 5WCZ5060A

5WCZ5060A		External Static Pressure (in.WG) Cooling CFM Horizontal [Downflow]										
Motor Speed		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.

Wiring Diagrams

Figure 1. Models - 5WCZ5024A1, 5WCZ5030A1, 5WCZ5036A1, 5WCZ5042A1, and 5WCZ5048A1

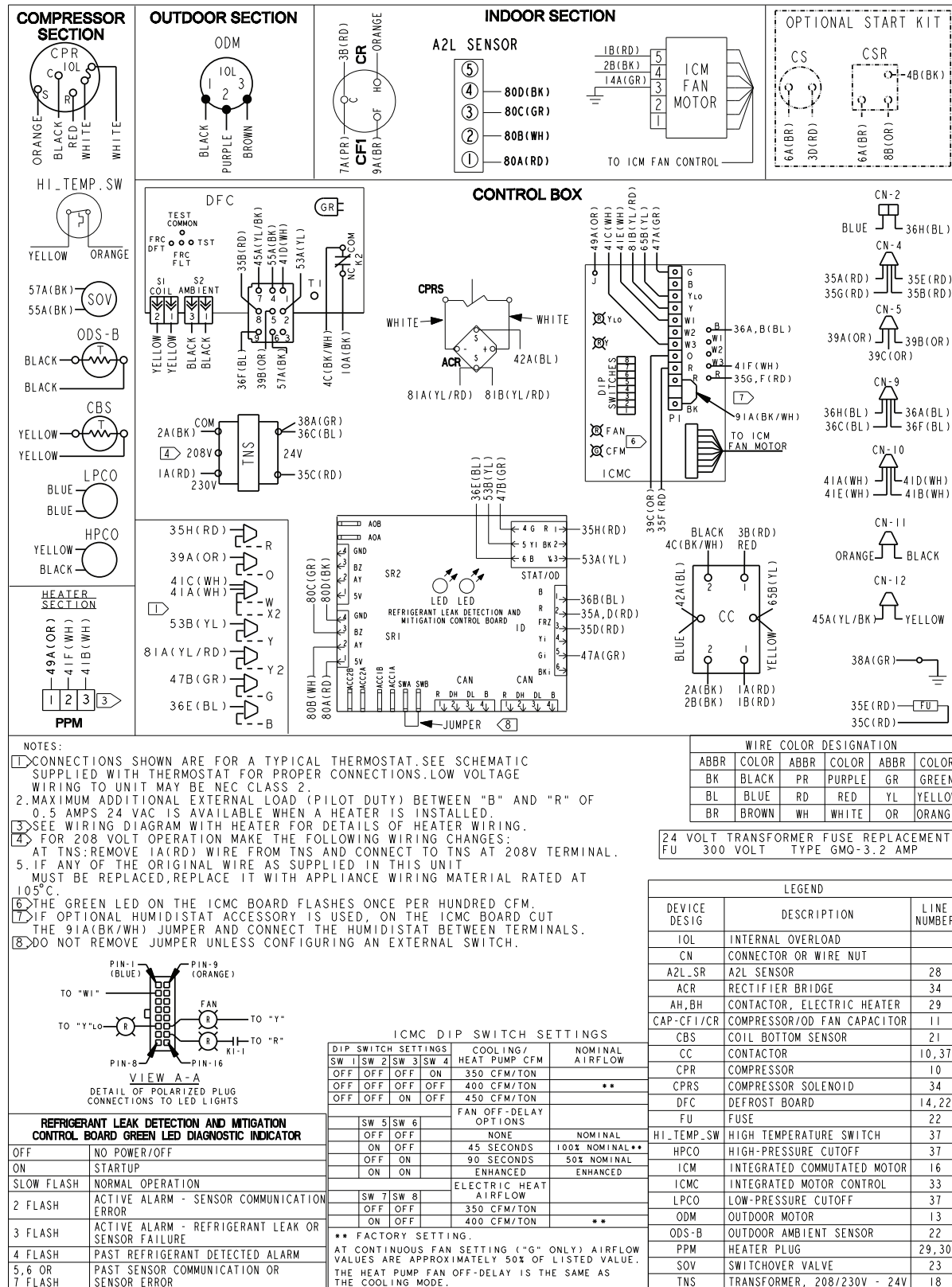
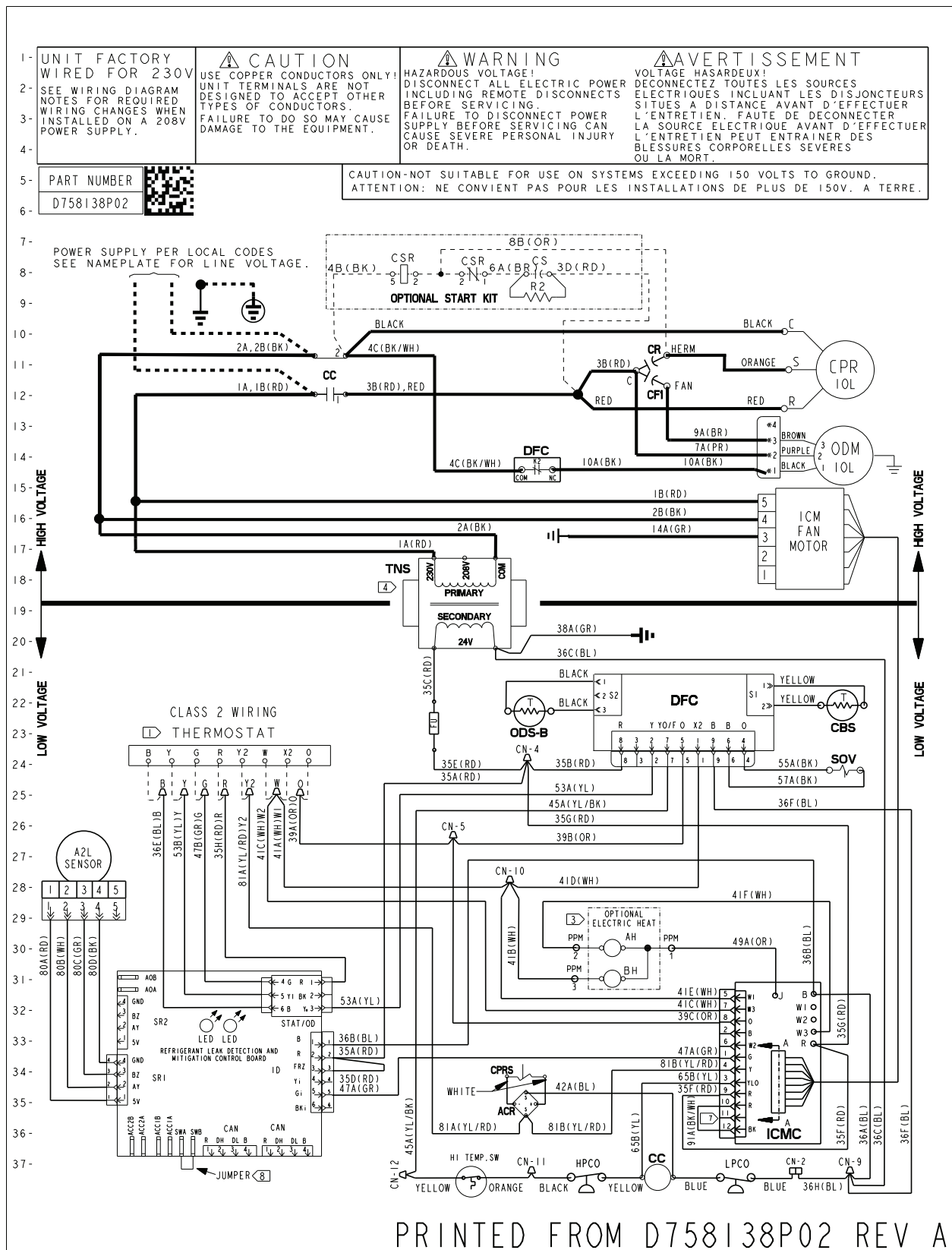


Figure 2. Models - 5WCZ5024A1, 5WCZ5030A1, 5WCZ5036A1, 5WCZ5042A1, and 5WCZ5048A1



COMPRESSOR SECTION

OUTDOOR SECTION

INDOOR SECTION

CONTROL BOX

OPTIONAL START KIT

HEATER SECTION

NOTES:

- CONNECTIONS SHOWN ARE FOR A TYPICAL THERMOSTAT. SEE SCHEMATIC SUPPLIED WITH THERMOSTAT FOR PROPER CONNECTIONS. LOW VOLTAGE WIRING TO UNIT MAY BE NEC CLASS 2.
- MAXIMUM ADDITIONAL EXTERNAL LOAD (PILOT DUTY) BETWEEN "B" AND "R" OF 0.5 AMPS 24 VAC IS AVAILABLE WHEN A HEATER IS INSTALLED.
- SEE WIRING DIAGRAM WITH HEATER FOR DETAILS OF HEATER WIRING.
- FOR 208 VOLT OPERATION MAKE THE FOLLOWING WIRING CHANGES:
AT TNS: REMOVE 1A(RD) WIRE FROM TNS AND CONNECT TO TNS AT 208V TERMINAL.
IF ANY OF THE ORIGINAL WIRE AS SUPPLIED IN THIS UNIT MUST BE REPLACED, REPLACE IT WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
- THE GREEN LED ON THE ICMC BOARD FLASHES ONCE PER HUNDRED CFM.
- IF OPTIONAL HUMIDISTAT ACCESSORY IS USED, ON THE ICMC BOARD CUT THE 91A(BK/WH) JUMPER AND CONNECT THE HUMIDISTAT BETWEEN TERMINALS.
- DO NOT REMOVE JUMPER UNLESS CONFIGURING AN EXTERNAL SWITCH.

WIRE COLOR DESIGNATION

ABBR	COLOR	ABBR	COLOR	ABBR	COLOR
BK	BLACK	PR	PURPLE	GR	GREEN
BL	BLUE	RD	RED	YL	YELLOW
BR	BROWN	WH	WHITE	OR	ORANGE

LEGEND

DEVICE DESIG	DESCRIPTION	LINE NUMBER
A2L_SR	A2L SENSOR	28
ACR	RECTIFIER BRIDGE	34
AH,BH	CONTACTOR, ELECTRIC HEATER	29
CBS	COIL BOTTOM SENSOR	21
CC	CONTACTOR	10,37
CF1	OUTDOOR FAN CAPACITOR	13
CPR	COMPRESSOR	10
CPRS	COMPRESSOR SOLENOID	34
CR	COMPRESSOR CAPACITOR	10
DFC	DEFROST BOARD	14, 22
FU	FUSE	22
HI_TEMP_SW	HIGH TEMPERATURE SWITCH	37
HPCO	HIGH-PRESSURE CUTOFF	37
ICM	INTEGRATED COMMUTATED MOTOR	16
ICMC	INTEGRATED MOTOR CONTROL	33
LPCO	LOW-PRESSURE CUTOFF	23
LPCO	LOW-PRESSURE CUTOFF	37
ODM	OUTDOOR MOTOR	13
ODS-B	OUTDOOR AMBIENT SENSOR	29, 30
PPM	HEATER PLUG	22
SOV	SWITCHOVER VALVE	23
TNS	TRANSFORMER, 208/230V - 24V	18
IOL	INTERNAL OVERLOAD	
CN	CONNECTOR OR WIRE NUT	

REFRIGERANT LEAK DETECTION AND MITIGATION CONTROL BOARD GREEN LED DIAGNOSTIC INDICATOR

OFF	NO POWER/OFF
ON	STARTUP
SLOW FLASH	NORMAL OPERATION
2 FLASH	ACTIVE ALARM - SENSOR COMMUNICATION ERROR
3 FLASH	ACTIVE ALARM - REFRIGERANT LEAK OR SENSOR FAILURE
4 FLASH	PAST REFRIGERANT DETECTED ALARM
5, 6 OR 7 FLASH	PAST SENSOR COMMUNICATION OR SENSOR ERROR

24 VOLT TRANSFORMER FUSE REPLACEMENT
FU 300 VOLT TYPE GMD-3.2 AMP

ICMC DIP SWITCH SETTINGS

DIP SWITCH SETTINGS	COOLING / HEAT PUMP CFM	NOMINAL AIRFLOW
SW 1 SW 2 SW 3 SW 4	350 CFM/TON	**
OFF OFF OFF ON	400 CFM/TON	
OFF OFF OFF OFF	450 CFM/TON	
OFF OFF ON OFF	450 CFM/TON	
SW 5 SW 6	FAN OFF-DELAY OPTIONS	NOMINAL
ON OFF	45 SECONDS	100% NOMINAL**
OFF OFF	90 SECONDS	50% NOMINAL
ON ON	ENHANCED	ENHANCED
SW 7 SW 8	ELECTRIC HEAT AIRFLOW	**
OFF OFF	350 CFM/TON	
ON OFF	400 CFM/TON	

*** FACTORY SETTING.**
AT CONTINUOUS FAN SETTING ("G" ONLY): AIRFLOW VALUES ARE APPROXIMATELY 50% OF LISTED VALUE.
THE HEAT PUMP FAN OFF-DELAY IS THE SAME AS THE COOLING MODE.

VIEW A-A
DETAIL OF POLARIZED PLUG CONNECTIONS TO LED LIGHTS

Figure 4. Model - 5WCZ5060A1

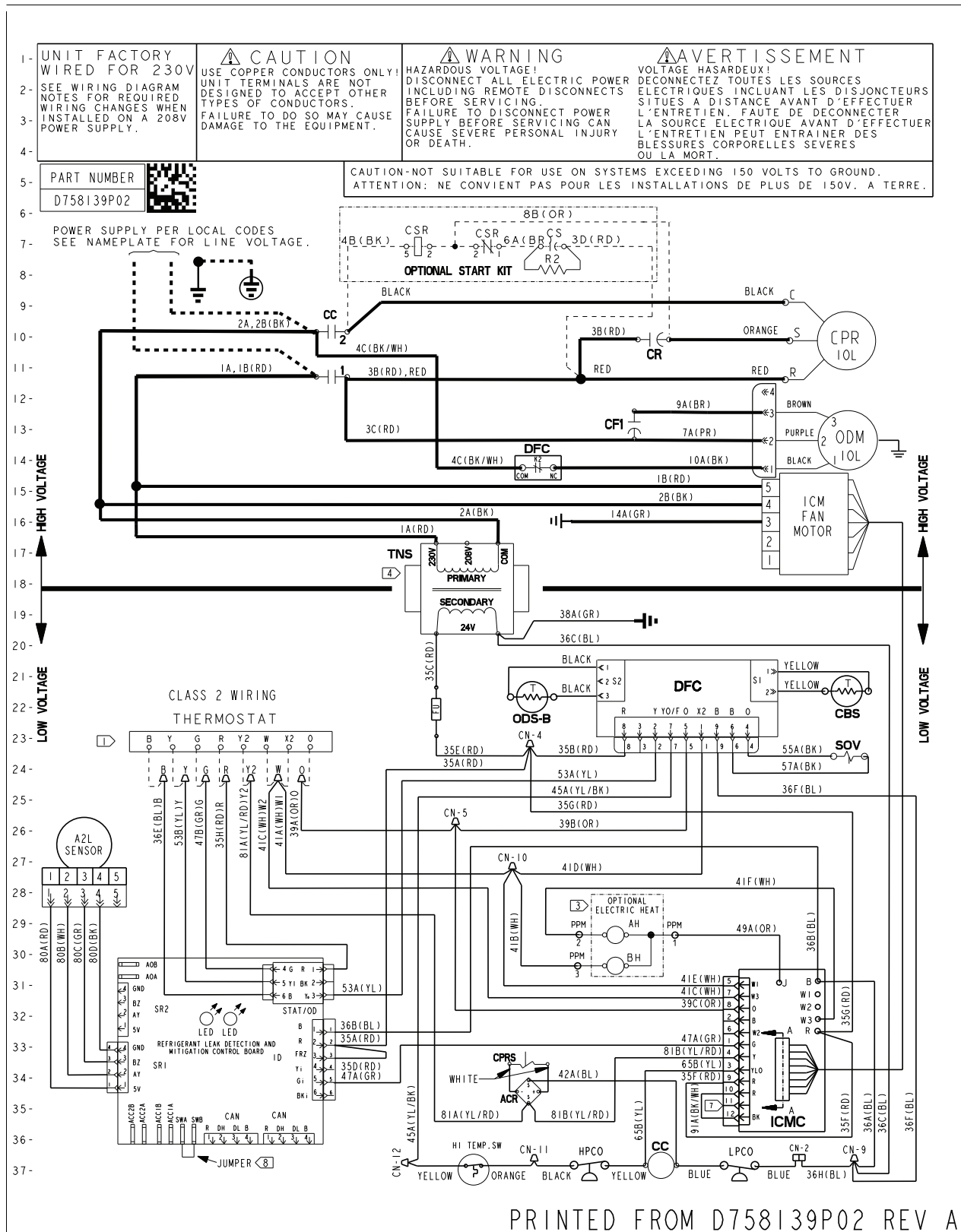
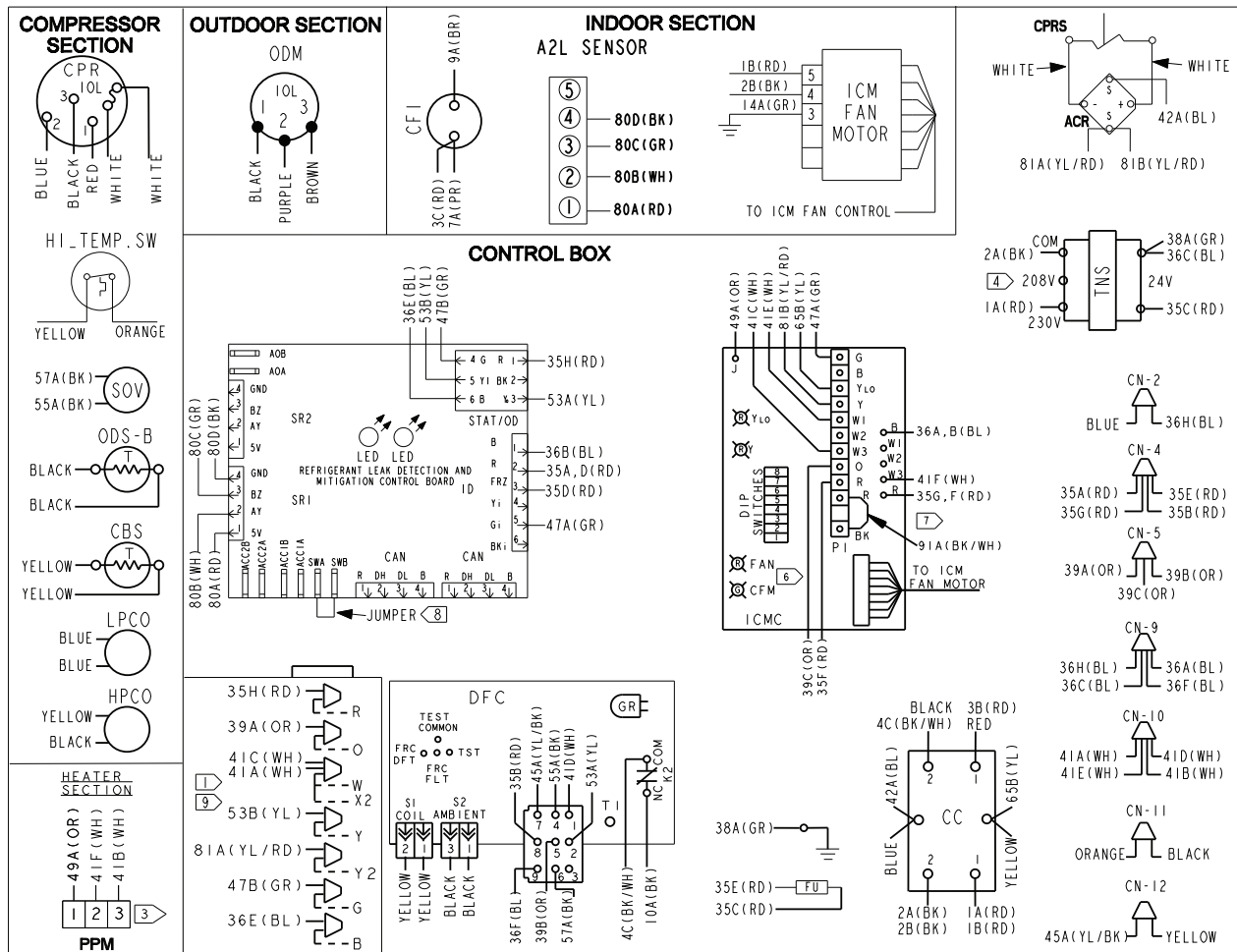
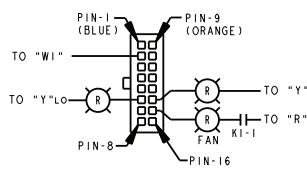


Figure 5. Models - 5WCZ5036A3, 5WCZ5048A3, and 5WCZ5060A3



NOTES:

1. CONNECTIONS SHOWN ARE FOR A TYPICAL THERMOSTAT. SEE SCHEMATIC SUPPLIED WITH THERMOSTAT FOR PROPER CONNECTIONS. LOW VOLTAGE WIRING TO UNIT MAY BE NEC CLASS 2.
2. MAXIMUM ADDITIONAL EXTERNAL LOAD (PILOT DUTY) BETWEEN "B" AND "R" OF 0.5 AMPS. 24 VAC IS AVAILABLE WHEN A HEATER IS INSTALLED.
3. SEE WIRING DIAGRAM WITH HEATER FOR DETAILS OF HEATER WIRING.
4. FOR 208 VOLT OPERATION MAKE THE FOLLOWING WIRING CHANGES:
AT TNS: REMOVE 1A(RD) WIRE FROM TNS AND CONNECT TO TNS AT 208V TERMINAL.
5. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED IN THIS UNIT MUST BE REPLACED, REPLACE IT WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
6. THE GREEN LED ON THE ICMC BOARD FLASHES ONCE PER HUNDRED CFM.
7. IF OPTIONAL HUMIDISTAT ACCESSORY IS USED, ON THE ICMC BOARD CUT THE 91A(BK/WH) JUMPER AND CONNECT THE HUMIDISTAT BETWEEN TERMINALS.
8. DO NOT REMOVE JUMPER UNLESS CONFIGURING AN EXTERNAL SWITCH.
9. WHEN MECHANICAL THERMOSTATS ARE USED, DO NOT CONNECT THE "W" LEAD AT THERMOSTAT.



24 VOLT TRANSFORMER FUSE REPLACEMENT
FU 300 VOLT TYPE GMQ-3.2 AMP

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

ICMC DIP SWITCH SETTINGS

DIP SWITCH SETTINGS	COOLING/ HEAT PUMP CFM	NOMINAL AIRFLOW
SW 1 SW 2 SW 3 SW 4		
OFF OFF OFF ON	350 CFM/TON	
OFF OFF OFF OFF	400 CFM/TON	**
OFF OFF ON OFF	450 CFM/TON	
FAN OFF-DELAY OPTIONS		
OFF OFF	NONE	NOMINAL
ON OFF	45 SECONDS	100% NOMINAL**
OFF ON	90 SECONDS	50% NOMINAL
ON ON	ENHANCED	ENHANCED
ELECTRIC HEAT AIRFLOW		
SW 7 SW 8		
OFF OFF	350 CFM/TON	
ON OFF	400 CFM/TON	**

** FACTORY SETTING.

AT CONTINUOUS FAN SETTING ("G" ONLY) AIRFLOW VALUES ARE APPROXIMATELY 50% OF LISTED VALUE. THE HEAT PUMP FAN OFF-DELAY IS THE SAME AS THE COOLING MODE.

WIRE COLOR DESIGNATION

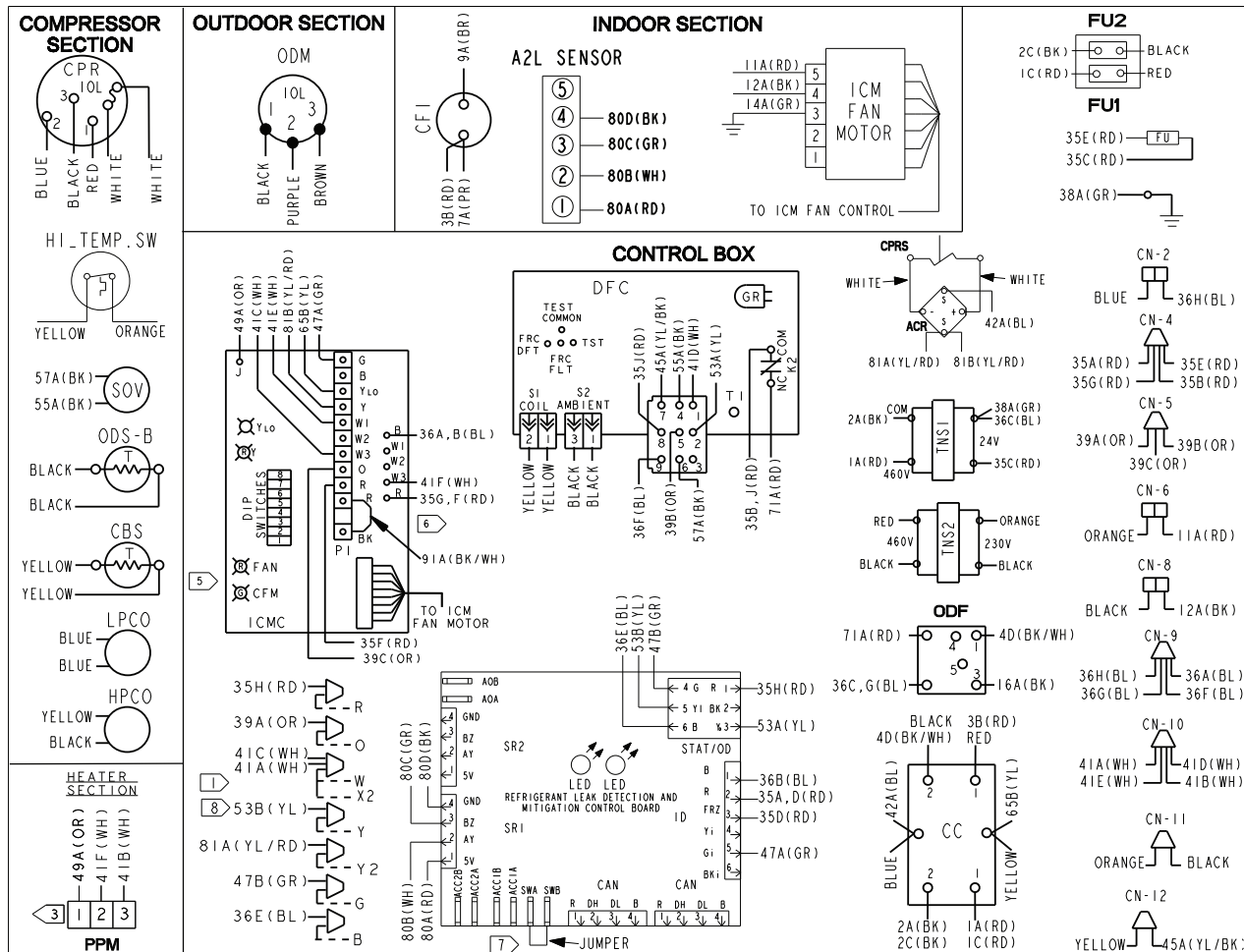
ABBR	COLOR	ABBR	COLOR	ABBR	COLOR
BK	BLACK	PR	PURPLE	GR	GREEN
BL	BLUE	RD	RED	YL	YELLOW
BR	BROWN	WH	WHITE	OR	ORANGE

LEGEND

DEVICE DESIG	DESCRIPTION	LINE NUMBER
A2L_SR	A2L SENSOR	28
ACR	RECTIFIER BRIDGE	34
AH,BH	CONTACTOR, ELECTRIC HEATER	29
CBS	COIL BOTTOM SENSOR	21
CC	CONTACTOR	9, 37
CFI	OUTDOOR FAN CAPACITOR	13
CPR	COMPRESSOR	10
CPRS	COMPRESSOR SOLENOID	34
DFC	DEFROST BOARD	14, 22
FU	FUSE	22
HI_TEMP_SW	HIGH TEMPERATURE SWITCH	37
HPCO	HIGH-PRESSURE CUTOFF	37
ICM	INTEGRATED COMMUTATED MOTOR	16
ICMC	INTEGRATED MOTOR CONTROL	33
LPCO	LOW-PRESSURE CUTOFF	23
LPCO	LOW-PRESSURE CUTOFF	37
ODM	OUTDOOR MOTOR	13
ODS-B	OUTDOOR AMBIENT SENSOR	22
PPM	HEATER PLUG	29, 30
SOV	SWITCHOVER VALVE	23
TNS	TRANSFORMER, 208/230V - 24V	18
IOL	INTERNAL OVERLOAD	
CN	CONNECTOR OR WIRE NUT	

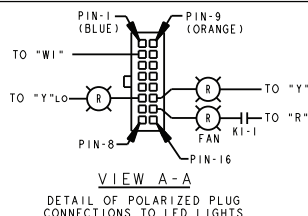


Figure 7. Models - 5WCZ5036A4, 5WCZ5048A4, and 5WCZ5060A4



- NOTES:**
1. CONNECTIONS SHOWN ARE FOR A TYPICAL THERMOSTAT. SEE SCHEMATIC SUPPLIED WITH THERMOSTAT FOR PROPER CONNECTIONS. LOW VOLTAGE WIRING TO UNIT MAY BE NEC CLASS 2
 2. MAXIMUM ADDITIONAL LOAD (PILOT DUTY) BETWEEN "B" AND "R" OF 0.5 AMPS 24 VAC IS AVAILABLE WHEN A HEATER IS INSTALLED.
 3. SEE WIRING DIAGRAM WITH HEATER FOR DETAILS OF HEATER WIRING.
 4. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED IN THIS UNIT MUST BE REPLACED, REPLACE IT WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
 5. THE GREEN LED ON THE ICMC BOARD FLASHES ONCE PER HUNDRED CFM.
 6. IF OPTIONAL HUMIDISTAT ACCESSORY IS USED, ON THE ICMC BOARD CUT THE 91A(BK/WH) JUMPER AND CONNECT THE HUMIDISTAT BETWEEN TERMINALS.
 7. DO NOT REMOVE JUMPER UNLESS CONFIGURING AN EXTERNAL SWITCH.
 8. WHEN MECHANICAL THERMOSTATS ARE USED, DO NOT CONNECT THE "W" LEAD AT THERMOSTAT.

ICM TRANSFORMER REPLACEMENT FUSE :
 FU1, FU2 500 VOLT TYPE FNO - 3 AMP FOR 5WCZ5036; 6 AMP FOR 5WCZ5048 & 5WCZ5060
 24 VOLT TRANSFORMER REPLACEMENT FUSE : FU 300 VOLT TYPE GMO - 3.2 AMP



WIRE COLOR DESIGNATION					
ABBR	COLOR	ABBR	COLOR	ABBR	COLOR
BK	BLACK	PR	PURPLE	GR	GREEN
BL	BLUE	RD	RED	YL	YELLOW
BR	BROWN	WH	WHITE	OR	ORANGE

ICMC DIP SWITCH SETTINGS					
DIP SWITCH SETTINGS				COOLING/HEAT PUMP CFM	NOMINAL AIRFLOW
SW 1	SW 2	SW 3	SW 4		
OFF	OFF	OFF	ON	350 CFM/TON	
OFF	OFF	OFF	OFF	400 CFM/TON	**
OFF	OFF	ON	OFF	450 CFM/TON	
FAN OFF-DELAY OPTIONS					
OFF	OFF			NONE	NOMINAL
ON	OFF			45 SECONDS	100% NOMINAL**
OFF	ON			90 SECONDS	50% NOMINAL
ON	ON			ENHANCED	ENHANCED
ELECTRIC HEAT AIRFLOW					
SW 7	SW 8				
OFF	OFF			350 CFM/TON	
ON	OFF			400 CFM/TON	**

** FACTORY SETTING.
 AT CONTINUOUS FAN SETTING ("G" ONLY) AIRFLOW VALUES ARE APPROXIMATELY 50% OF LISTED VALUE.
 THE HEAT PUMP FAN OFF-DELAY IS THE SAME AS THE COOLING MODE.

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



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.

WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER
INCLUDING REMOTE DISCONNECTS
BEFORE SERVICING.
FAILURE TO DISCONNECT POWER
SUPPLY BEFORE SERVICING CAN
CAUSE SEVERE PERSONAL INJURY
OR DEATH.

AVERTISSEMENT
VOLTAGE HASARDEUX!
DECONNECTEZ TOUTES LES SOURCES
ELECTRIQUES INCLUANT LES DISJONCTEURS
SITUES A DISTANCE AVANT D'EFFECTUER
L'ENTRETIEN. FAUTE DE DECONNECTER
LA SOURCE ELECTRIQUE AVANT D'EFFECTUER
L'ENTRETIEN PEUT ENTRAÎNER DES
BLESSURES CORPORELLES SEVERES
OU LA MORT.

POWER SUPPLY PER LOCAL CODES
SEE NAMEPLATE FOR LINE VOLTAGE.

PART NUMBER
D758151P02

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CLASS 2 WIRING
THERMOSTAT

A2L SENSOR

REFRIGERANT LEAK DETECTION AND
MITIGATION CONTROL BOARD

STAT/OD

LED

ICM FAN MOTOR

CPR 10L

ODM 10L

DFC

SOV

ICMC

HI TEMP. SW

HPCO

LPCO

CC

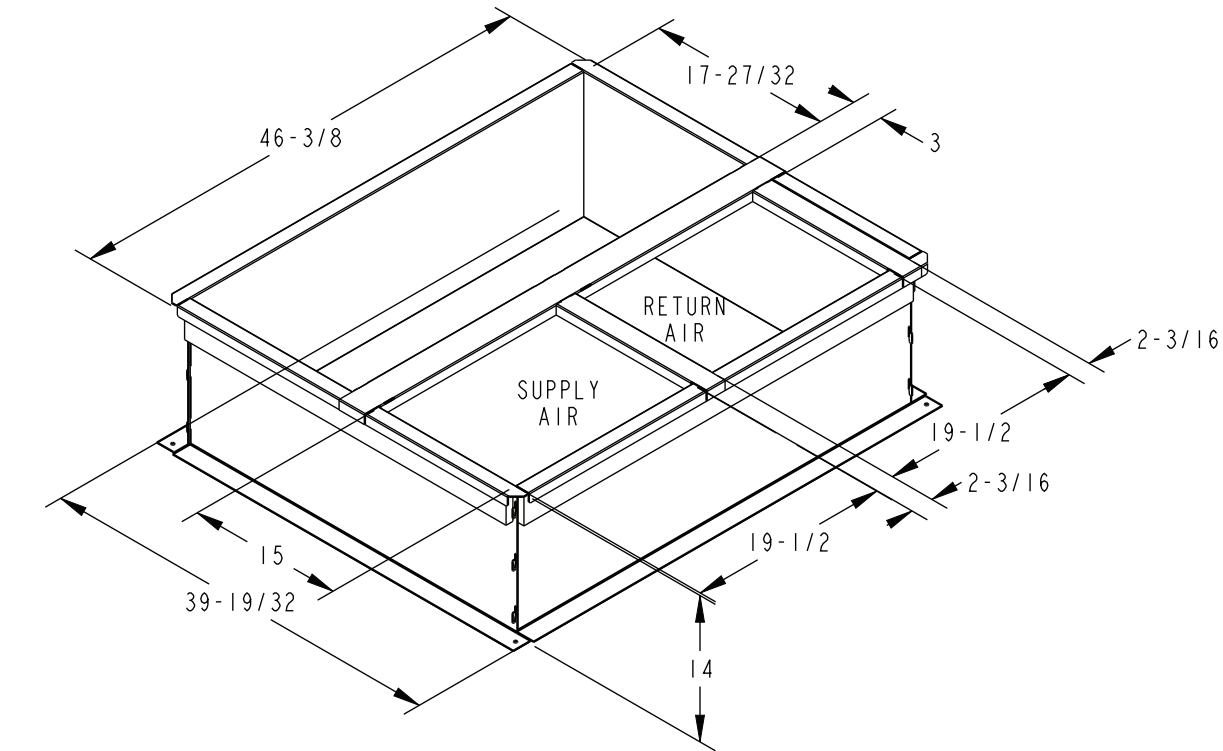
JUMPER

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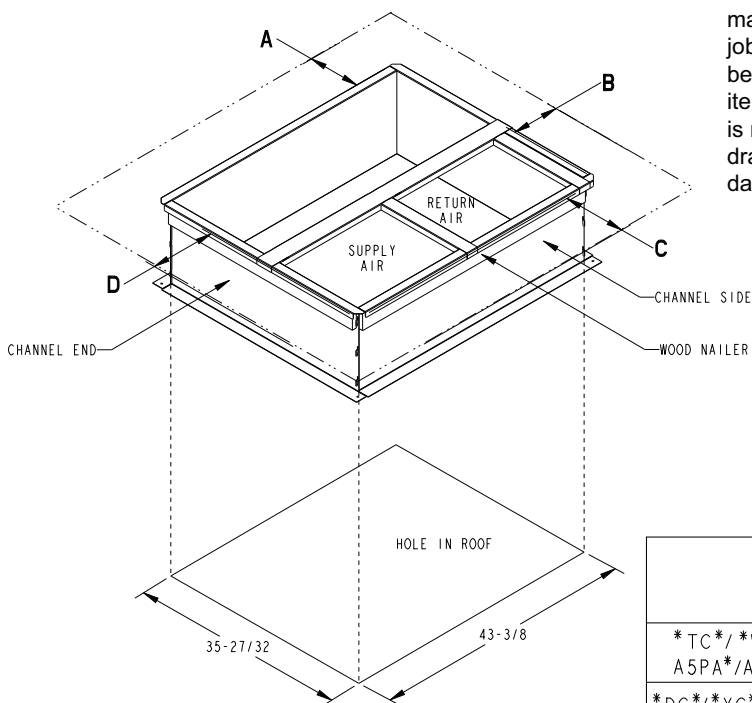
Full Perimeter Roof Mounting Curb

Figure 9. 2.0 to 3.0 ton models

BAYCURB050B Full Perimeter Roof Mounting Curb



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All dimensions are in inches

	SERVICE CLEARANCE DIMENSIONS			
	A	B	C	D
TC/*WC*/ A5PA*/A5PH*	42.00	36.00	12.00**	24.00
DC/*YC*/A5PG*	42.00	36.00	12.00**	36.00

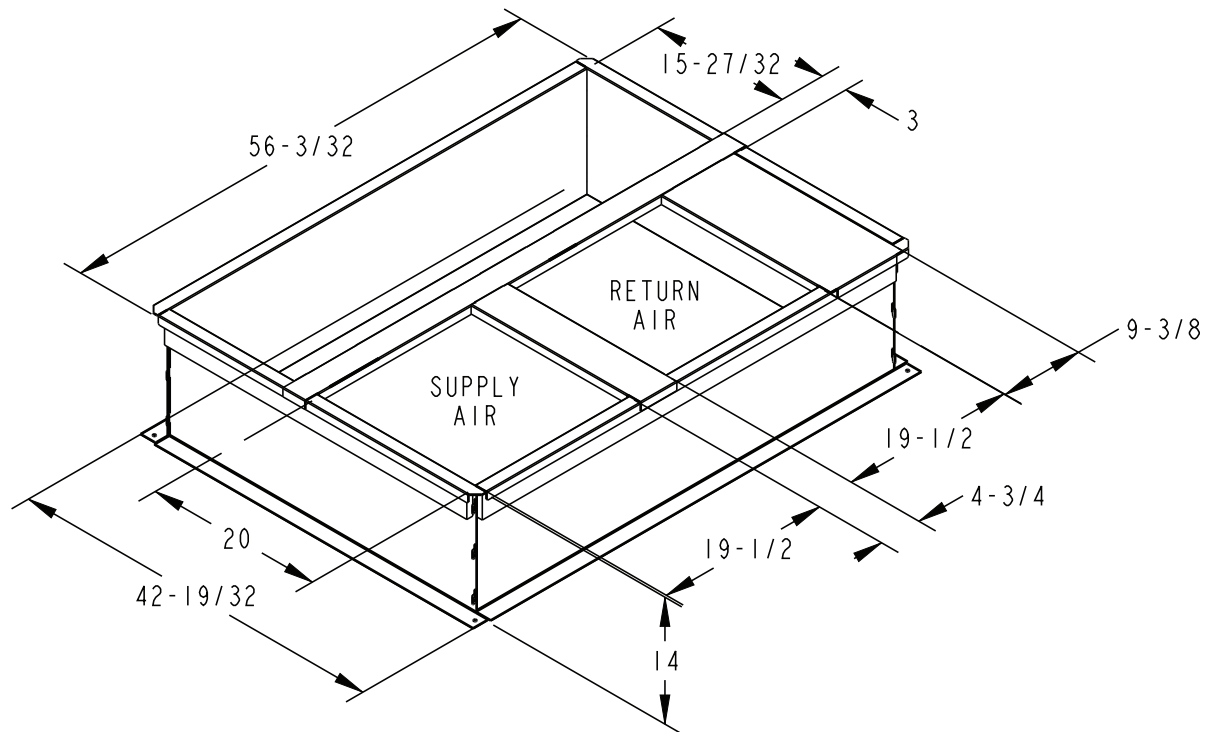
** 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY



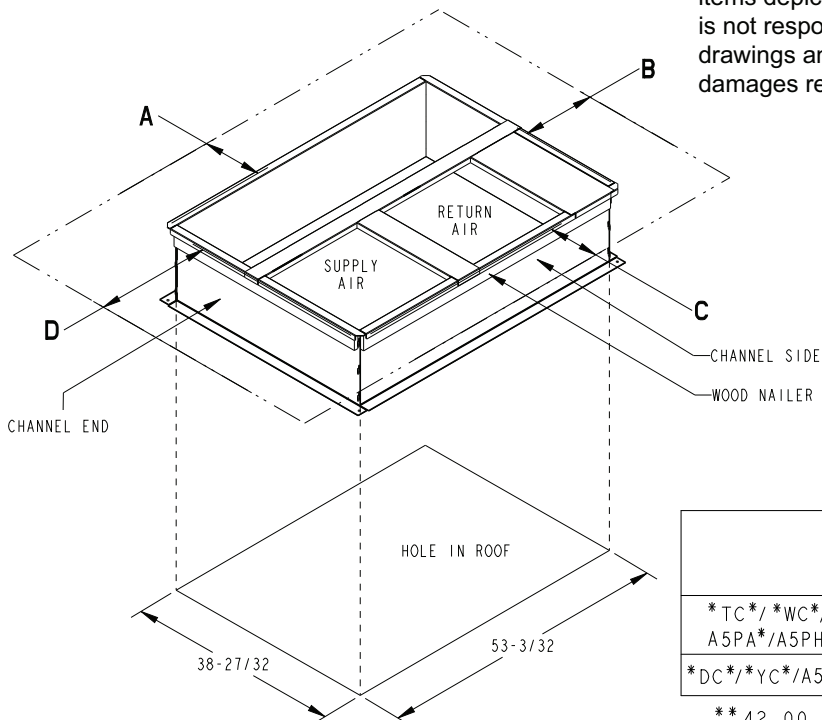
Full Perimeter Roof Mounting Curb

Figure 10. 3.5 to 5.0 ton models

BAYCURB051B Full Perimeter Roof Mounting Curb



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** 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY



Optional Equipment — Filter Rack

Figure 11. BAYFLTR101 filter rack (2.0 to 3.0 ton models)/ BAYFLTR201 (3.5 to 5.0 ton models) (Mounts in filter/coil section)

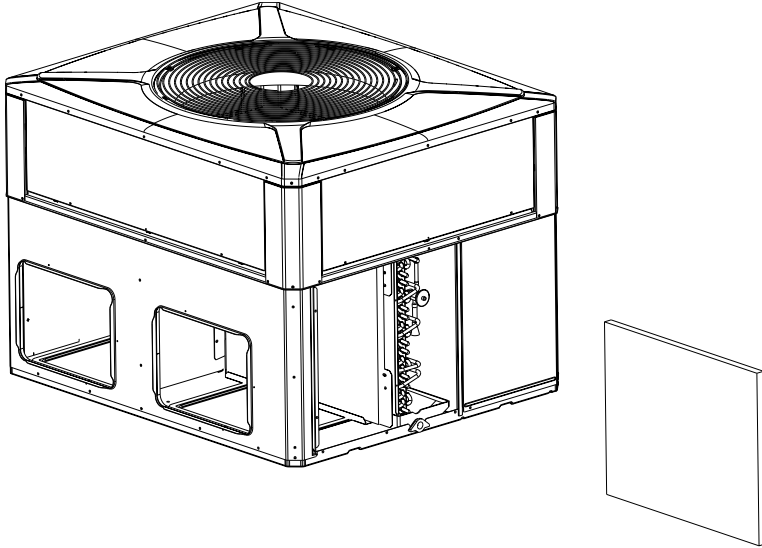
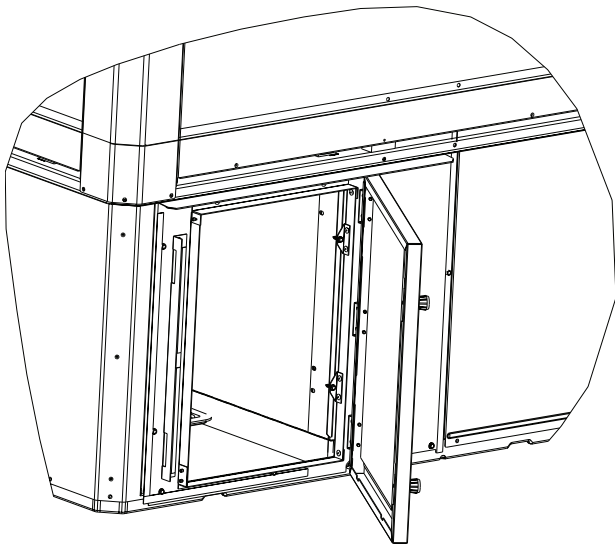


Figure 12. BAYACCDOR1A hinged filter access door (2.0 to 3.0 ton models)/ BAYACCDOR2A (3.5 to 5.0 ton models) (Replaces filter/coil access panel)



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Optional Equipment — Economizer

Figure 13. BAYECON107A and BAYECON108A down discharge economizer and rain hood (Mounts over horizontal return air opening)

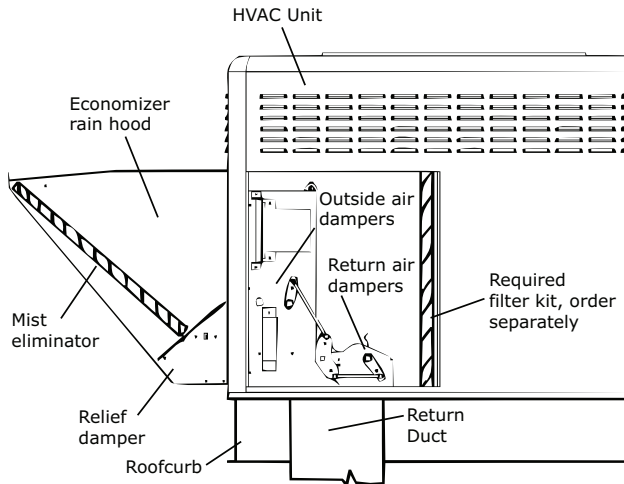


Table 10. Economizer application models

Economizer	Unit Application Models
BAYECON107A	2.0 to 3.0 Ton Models
BAYECON108A	3.5 to 5.0 Ton Models

Figure 14. BAYECON207A and BAYECON208A horizontal economizer and rain hood

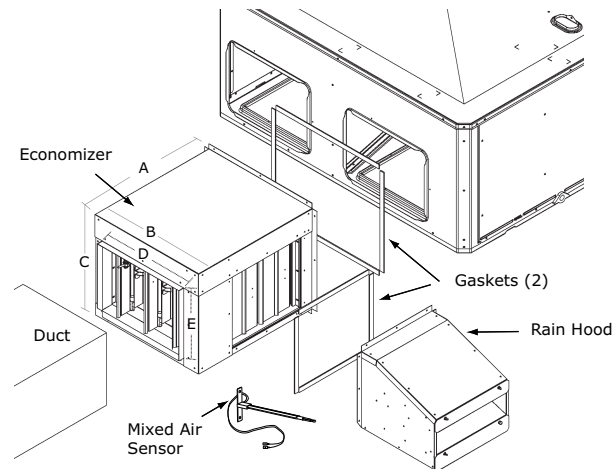


Table 11. Economizer dimension (in inches)

Economizer	Models	A	B	C	D	E	F
BAYECON207A	2.0 to 3.0 Ton	22	20	16–7/8	15–11/16	11–11/16	15
BAYECON208A	3.5 to 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

Figure 15. BAYOSAH001A and BAYOSAH002A outside air damper (Replaces filter/coil access panel)

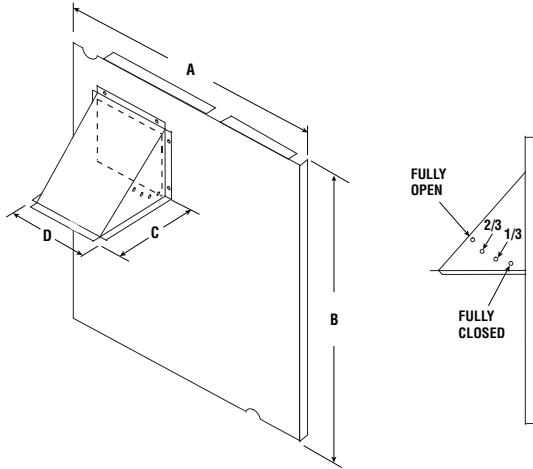


Table 12. Outside air damper dimensions (in inches)

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

Figure 16. BAYDMPR101A and BAYDMPR102A, 25% motorized outside air damper (Mounts over horizontal return air opening)

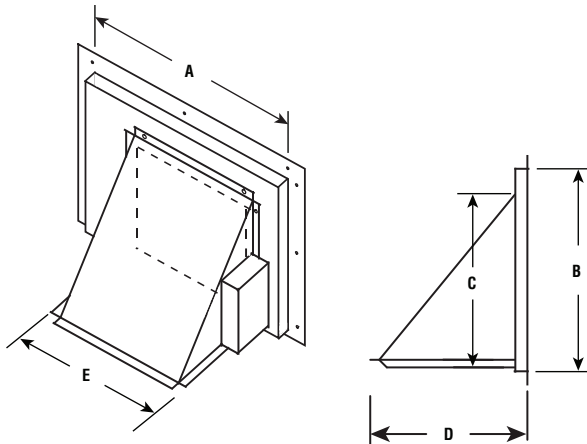


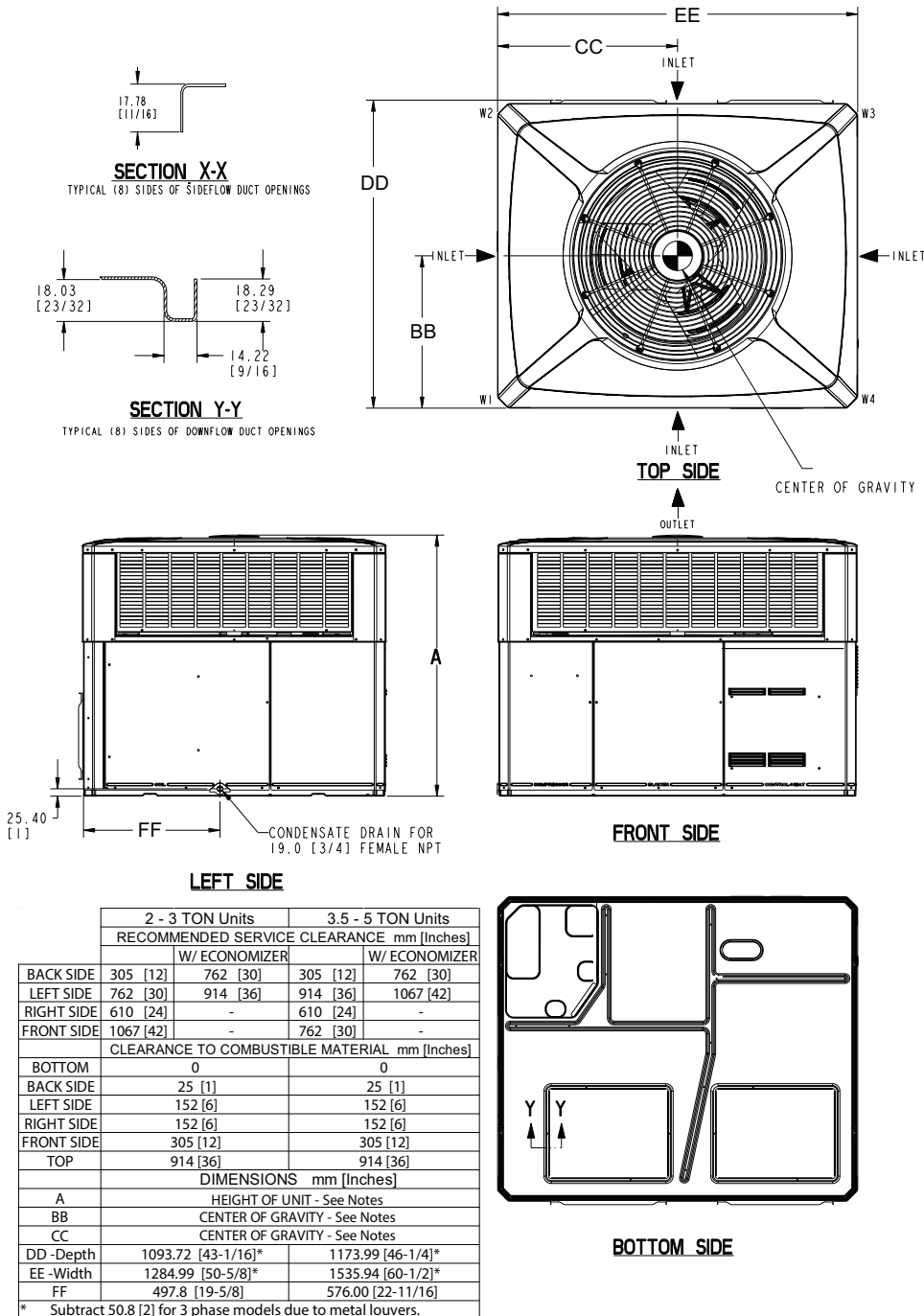
Table 13. Outside air damper dimensions (in inches)

Manual Fresh Air Model	Unit Application Models	A	B	C	D	E
BAYDMPR101A	2.0 to 3.0 Ton	15–13/16	11–13/16	10–1/4	11–1/2	12–1/4
BAYDMPR102A	3.5 to 5.0 Ton	18–3/16	15–1/8	10–1/4	11–1/2	12–1/4

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Dimensional Data

Figure 17. Space on sides requirements



Notes:

- The Bottom Side view represents looking up from under the unit.
- For dimension A unit height, see [Table 14, p. 27](#).
- For center of gravity dimensions BB and CC, see [Table 15, p. 28](#).

Figure 18. Bottom and back duct openings

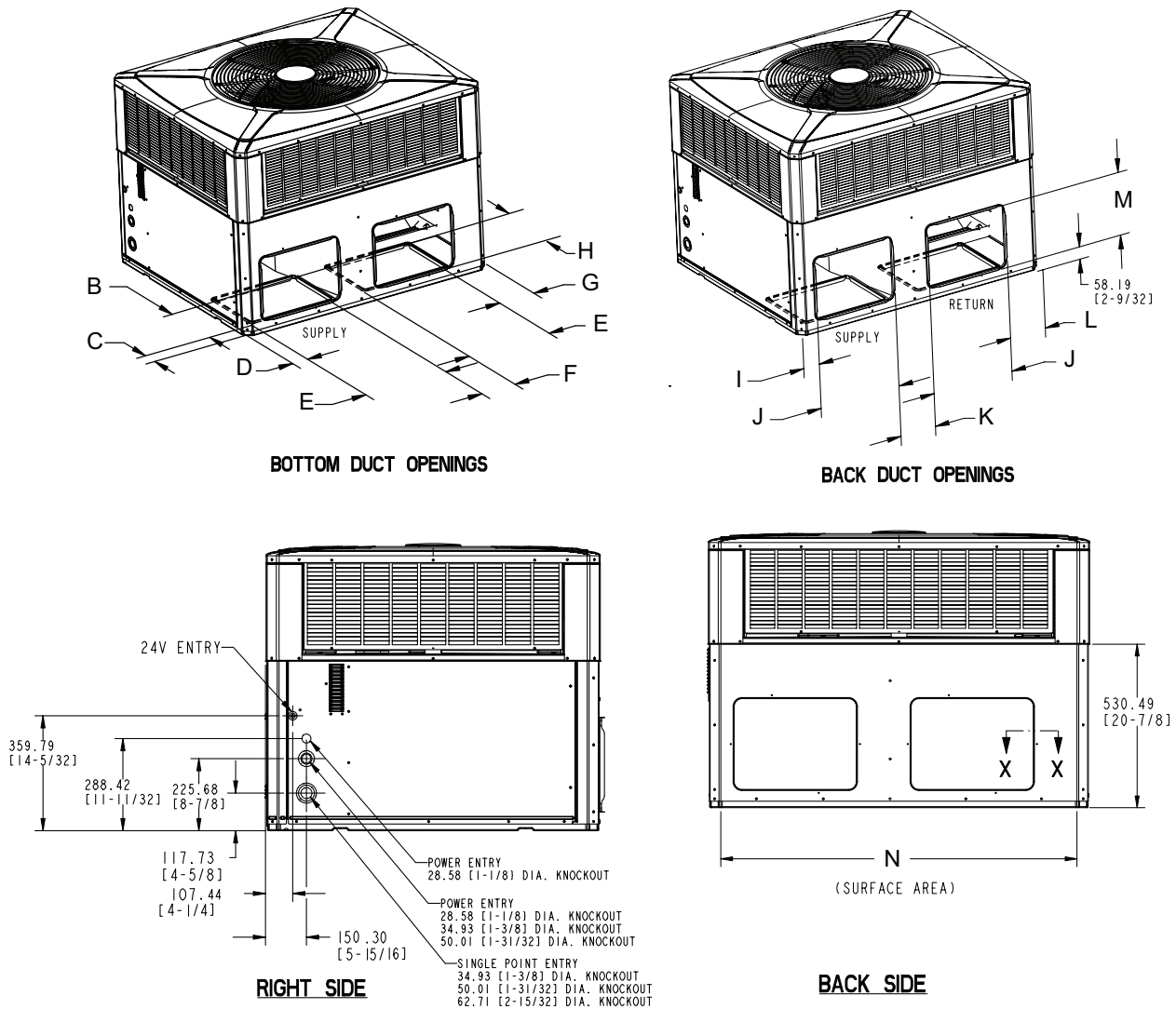


Table 14. Dimensions (mm [inch])

Model	Height-A	B	C	D	E	F	G	H	I	J	K	L	M	N
5WCZ4024	949.33 [37-3/8]	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 [15.68]	176.07 [6.93]	177.68 [6.95]	296.62 [11.67]	1155.45 [45.49]
5WCZ4030														
5WCZ4036														
5WCZ4042	1050.93 (41.37)	457.20 [1.08]	75.41 [2.96]	75.41 [2.96]	381.00 [15.0]	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]
5WCZ4048					457.20 [18.0]									
5WCZ4060														

Dimensional Data

Table 15. Weights and centre of gravity

Model	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]
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]
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]
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]
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*3	80.4 [177]	47.6 [105]	35.8 [79]	60.8 [134]	282.7 [623]	224.6 [495]	414.0 [16.3]	635 [25]
5WCZ5036*4	66.6 [147]	38.1 [84]	27.2 [60]	42.6 [94]	218.1 [481]	174.5 [385]	401.3 [15.8]	508 [20]
5WCZ5048*4	104.0 [229]	40.8 [90]	30.8 [68]	52.2 [115]	285.8 [630]	227.8 [502]	414.0 [16.3]	635 [25]
5WCZ5060*4	89.9 [198]	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 60335. 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 to 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-in. 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 -in. 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

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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