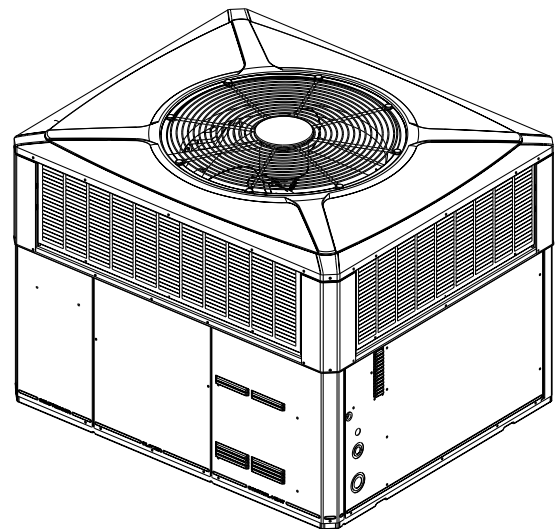




Product Data

Single Packaged Heat Pump, 14 SEER Convertible, 2 – 5 Ton, R-410A

4WCY4036B3
4WCY4048A3
4WCY4060A3



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

Note: "Unit specific Service Facts available online."



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.

⚠ WARNING

UNIT CONTAINS R-410A REFRIGERANT!

Failure to use proper service tools may result in equipment damage or personal injury. R-410A operating pressure exceeds the limit of R-22. Proper service equipment is required. Service using only R-410A Refrigerant and approved POE compressor oil.

⚠ 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

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.

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 4WCY4 Packaged Units (check mark indicates accessories included)

Hinged Filter Access Door (4WCY4036)	BAYACCDOR1A[]
Hinged Filter Access Door (4WCY4048-060)	BAYACCDOR2A[]
Roof Curb Full Perimeter (4WCY4036) ^(a)	BAYCURB050A[]
Roof Curb Full Perimeter (4WCY4048-060) ^(a)	BAYCURB051A[]
Roof Curb Utility Extension Kit (BAYCURB050A)	BAYUTIL101B[]
Roof Curb Utility Extension Kit (BAYCURB051A)	BAYUTIL102B[]
0-25% Motorized Outside Air Damper (4WCY4036)	BAYOSAH001A[]
0-25% Motorized Outside Air Damper (4WCY4048-060A) ^(b)	BAYOSAH002A[]
Motorized Fresh Air Damper (4WCY4036) ^(b)	BAYDMPR101A[]
Motorized Fresh Air Damper (4WCY4048-060) ^(b)	BAYDMPR102A[]
0-100% Mod Economizer w/Baro. Relief (4WCY4036) ^{(b)(c)(d)}	BAYECON101B[]
0-100% Mod. Economizer w/Baro. Relief (4WCY4048-060) ^{(b)(c)(d)}	BAYECON102B[]
0-100% Horizontal Economizer (4WCY4036) ^{(b)(c)}	BAYECON200A[]
0-100% Horizontal Economizer (4WCY4048-060) ^{(b)(c)}	BAYECON201A[]
Enthalpy Control for Economizer (solid state)	BAYENTH001A[]
Remote Potentiometer (All-BAYECON***A)	BAYSTAT023[]
1"-2" Filter Frame (4WCY4036) (20x25 filter not included) ^(b)	BAYFLTR101B[]
1"-2" Filter Frame (4WCY4048-060) (20x20 & 20x18 filter not included) ^(b)	BAYFLTR201B[]
Head Pressure Control (Low Ambient Cool) (208/240v) Kit ^(e)	BAYLOAM105A[]
Quick Start Kit (4WCY4-#1)	BAYKSKT300A[]
Crankcase Heater Scroll (4WCY4048-060#1/3)(230v) ^(e)	BAYCCHT102A[]
Crankcase Heater Scroll (4WCY4036)(230v) ^(e)	BAYCCHT103A[]
Adapter Curb 4WCY4036 to BAYCURB030,38	BAYADAP050A[]
Adapter Curb 4WCY4036 to BAYCURB033	BAYADAP051A[]
Adapter Curb 4WCY4048-060 to BAYCURB030,38	BAYADAP052A[]
Adapter Curb 4WCY4048-060 to BAYCURB033	BAYADAP053A[]
Adapter Curb 4WCY4048-060 to BAYCURB034	BAYADAP054A[]
12" Duct Shroud Covers Horizontal 4WCY4036-060 ^(f)	BAYCOVR112A[]
18" Duct Shroud Covers Horizontal 4WCY4036-060 ^(f)	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[]
SUPPLEMENTARY HEATERS (1 PHASE)	
3.76/5.0 KW Heater (208/240V 1PH) (4WCY4036-060#1)	BAYHTRV105E[]
3.76/5.0 KW Heater (208/240V 1PH) (4WCY4036-060#1)	BAYHTRV108E[]
7.50/10.0 KW Heater (208/240V 1PH) (4WCY4036-060#1)	BAYHTRV110E[]
11.27/15.00 KW Heater (208/240V 1PH) (4WCY4036-060#1)	BAYHTRV115E[]
15.0/20.0 KW Heater (208/240V 1PH) (*4WCY4048-060#1)	BAYHTRV120E[]



Optional Equipment Listing

18.78/25.0 KW Heater (208/240V 1PH) (4WCY4048-060#1)	BAYHTRV125E[]
SUPPLEMENTARY HEATERS (3 PHASE)	
3.76/5.0 KW Heater (208/240V 3PH) (4WCY4036-060#3)	BAYHTRV305E[]
3.76/5.0 KW Heater (208/240V 3PH) (4WCY4036-060#3)	BAYHTRV308E[]
7.50/10.0 KW Heater (208/240V 3PH) (4WCY4036-48#3)	BAYHTRV310E[]
11.27/15.00 KW Heater (208/240V 3PH) (4WCY4036-060#3)	BAYHTRV315E[]
15.00/20.0 KW Heater (208/240V 3PH) (4WCY4048-060#3)	BAYHTRV320E[]
18.78/25.0 KW Heater (208/240V 3PH) (4WCY4048-060#3)	BAYHTRV325E[]
Single Power Entry Kit ^(g)	BAYSPEK060F[]
Single Power Entry Kit ^(g)	BAYSPEK061E[]
Single Power Entry Kit ^(g)	BAYSPEK062F[]
Single Power Entry Kit ^(g)	BAYSPEK063F[]
Single Power Entry Kit ^(g)	BAYSPEK064E[]
Single Power Entry Kit ^(g)	BAYSPEK065E[]

- (a) Ships knocked down.
- (b) Must use internal filter frame when economizer or fresh air kit is used.
- (c) Dry bulb control standard with economizer.
- (d) Downflow only.
- (e) Low Ambient cooling requires crankcase heater (BAYCCHT—B).
- (f) BAYCOVR112,118A will not cover 18" square-to-round applications.
- (g) See table on page 8 for matching kit with units and heaters.



Product Specification

MODEL	4WCY4036B3	4WCY4048A3	4WCY4060A3
RATED Volts/PH/Hz	208-230/3/60		
Performance Cooling BTUH (a)	36000	47000	58000
Indoor Airflow (CFM)	1200	1400	1780
Power Input (KW)	LOCATED ON UNIT NAMEPLATE		
EER/SEER (BTU/Watt-Hr.) (b)	11.75 / 14.0	11.75 / 14.0	11.5/14
Sound Power Rating [dB(A)] (c)	69	73	76
PERFORMANCE HEATING			
(High Temp.) BTUH	32400	42500	55000
Power Input (KW)	LOCATED ON UNIT NAMEPLATE		
(Low Temp.) BTUH	24800	27299	37600
Power Input (KW)	LOCATED ON UNIT NAMEPLATE		
HSPF (BTUH/Watt-Hr)	8		
POWER CONN. — V/Ph/Hz			
208-230/3/60			
Min. Brch. Cir. Ampacity (d)	LOCATED ON UNIT NAMEPLATE		
Fuse Size — Max. (amps)	LOCATED ON UNIT NAMEPLATE		
Fuse Size — Recmd. (amps)	LOCATED ON UNIT NAMEPLATE		
COMPRESSOR			
SCROLL			
VOLTS/PH/HZ	208-230/3/60		
R.L. Amps — L.R. Amps	LOCATED ON UNIT NAMEPLATE		
OUTDOOR COIL — TYPE			
SPINE FIN			
Rows/F.P.I	2 /24		
Face Area (sq. ft.)	15.49	18.1	23.57
Tube Size (in.)	3/8		
Refrigerant Control	EXPANSION VALVE		
INDOOR COIL — TYPE			
PLATE FIN			
Rows/F.P.I	4 / 15		
Face Area (sq. ft.)	3.5	5.0	
Tube Size (in.)	3/8		
Refrigeration Control	EXPANSION VALVE		
Drain Conn. Size (in.)	3/4 FEMALE NPT		
OUTDOOR FAN — TYPE			
PROPELLER			
DIA. (IN.)	23.4	28.2	
DRIVE/NO. SPEEDS	DIRECT / 1		
CFM @ 0.0 in. w.g. (e)	3250	4440	5700
Motor — HP/R.P.M	1/5 /830	1/4 /825	1/3 /830
Volts/Ph/Hz	230/1/60		
F.L. Amps/L.R Amps	LOCATED ON UNIT NAMEPLATE		
INDOOR FAN — TYPE			
CENTRIFUGAL			
Dia. x Width (in.)	10 X 10		11 X 10
Drive/No. Speeds	DIRECT /VARIABLE		
CFM @ 0.0 in. w.g. (f)	SEE FAN PERFORMANCE TABLE		
Motor — HP / R.P.M.	0.5/VARIABLE	0.75/VARIABLE	1 /VARIABLE
Volts/Ph/Hz	230/1/60		
F.L. Amps	LOCATED ON UNIT NAMEPLATE		
FILTER / FURNISHED			
NO			
Type Recommended	THROWAWAY		
Recmd. Face Area (sq. ft) (g)	4	5.3	
REFRIGERANT			
R-410			
Charge (lbs.)	LOCATED ON UNIT NAMEPLATE		
Subcooling	LOCATED ON UNIT NAMEPLATE		



Supplementary Electric Heaters

UNIT MODEL	ELECTRIC HEATER MODEL	RATED VOLT-AGE	PHAS-E	AMPS	HEATER CAPACITY		NO. OF STAGES	KW/STAGE		MCA	MAX. FUSE OR HACR CKT BKR SIZE ^(a)	CANADA ONLY MAX. CKT BKR SIZE ^(b)
					KW	BTUH		1	2			
&TCC&024-060#1 &WCC&024-060#1 &TCY&024-060#1 &WCY&024-060#1 &WCZ&024-060#1	BAYHTRV105	208/ 240	1	18/ 21	3.76/ 5.0	12800/ 17100	1	3.76/ 5.0	—	23/ 26	25/30	25/30
&TCC&024-060#1 &WCC&024-060#1 &TCY&024-060#1 &WCY&024-060#1 &WCZ&024-060#1	BAYHTRV108	208/ 240	1	29/ 33	6.0/ 8.0	20500/ 27300	1	6.0/ 8.0	—	36/ 41	40/45	40/45
&TCC&024-060#1 &WCC&024-060#1 &TCY&024-060#1 &WCY&024-060#1 &WCZ&024-060#1	BAYHTRV110	208/ 240	1	36/ 42	7.5/ 10.0	25600/ 34100	1	7.5/ 10.0	—	45/ 52	45/60	45/60
&TCC&030-060#1 &WCC&030-060#1 &TCY&030-060#1 &WCY&030-060#1 &WCZ&036-060#1	BAYHTRV115	208/ 240	1	54/ 63	11.2- 7/ 15.0	38500/ 51200	2	7.5/ 10.0	3.76/ 5.0	68/ 78	70/80	70/80
&TCC&048-060#1 &WCC&048-060#1 &TCY&042-060#1 &WCY&042-060#1 &WCZ&048-060#1	BAYHTRV120#	208/ 240	1	72/ 83	15.0/ 20.0	51200/ 68300	2	7.5/ 10.0	7.5/ 10.0	90/ 104	90/110	90/110
&TCC&060#1 &WCC&060#1 &TCY&042-060#1 &WCY&042-060#1 &WCZ&048-060#1	BAYHTRV125#	208/ 240	1	90/ 104	18.7- 8/ 25.0	64100/ 85300	2	11.2- 6/ 15.0	7.5/ 10.0	113/ 130	125/150	125/150
&W/TCY4036-060#3 &WCZ&036-060#3	BAYHTRV305	208/ 240	3	10/ 12	3.76/ 5.0	12800/ 17100	1	3.76/ 5.0	—	13/ 15	15/15	15/15
&W/TCY4036-060#3 &WCZ&036-060#3	BAYHTRV308	208/ 240	3	17/ 19	6.0/ 8.0	20500/ 27300	1	6.0/ 8.0	—	21/ 24	25/25	25/25
&W/TCY4036-060#3 &WCZ&036-060#3	BAYHTRV310	208/ 240	3	21/ 24	7.5/ 10.0	25600/ 34100	1	7.5/ 10.0	—	26/ 30	30/30	30/30
&W/TCY4036-060#3 &WCZ&036-060#3	BAYHTRV315	208/ 240	3	31/ 36	11.2- 7/ 15.0	38500/ 51200	2	7.5/ 10.0	3.76/ 5.0	39/ 45	40/45	40/45
&W/TCY4048-060#3 &WCZ&048-060#3	BAYHTRV320	208/ 240	3	42/ 48	15.0/ 20.0	51200/ 68300	2	7.5/ 10.0	7.5/ 10.0	52/ 60	60/60	60/60
&W/TCY4048-060#3 &WCZ&048-060#3	BAYHTRV325#	208/ 240	3	52/ 60	18.7- 8/ 25.0	64100/ 85300	2	11.2- 6/ 15.0	7.5/ 10.0	65/ 75	70/80	70/80
&WCZ&036-060#4	BAYHTRV405	480	3	6	5.0	17100	1	5.0	—	8	15	15
&WCZ&036-060#4	BAYHTRV408	480	3	10	8.0	27300	1	8.0	—	13	15	15
&WCZ&036-060#4	BAYHTRV410	480	3	12	10.0	34100	1	10.0	—	15	15	15
&WCZ&036-060#4	BAYHTRV415	480	3	18	15.0	51200	2	10.0	5.0	23	25	25
&WCZ&048-060#4	BAYHTRV420	480	3	24	20.0	68300	2	10.0	10.0	30	30	30

1. Any power supply and circuits must be wired and protected in accordance with local electrical codes.
2. The values listed in the above table are for the electric heater only.
3. Field wiring must be rated at least 75° C.
4. * indicates an alpha character.
5. † indicates model letter.
6. # Heater uses fuses.
7. & indicates a digit.

ALL VALUES ARE FOR THE ELECTRIC HEATER ONLY

^(a) The HACR circuit breaker is for U.S.A. installations only.

^(b) For Canada installation reference only.

Indoor Fan Performance

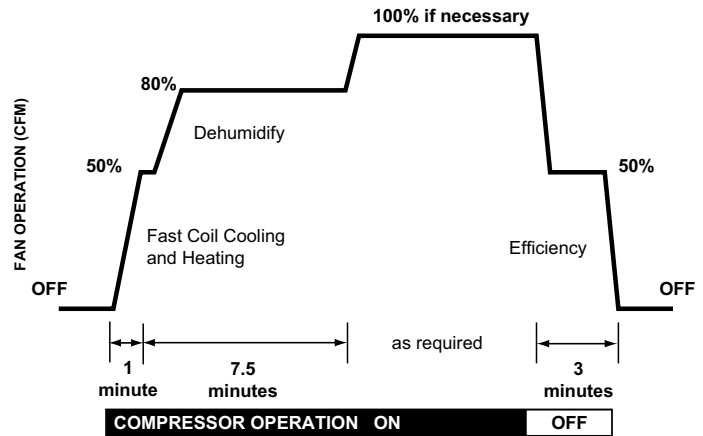
Horizontal and Downflow External Static Pressure (IN.WG)																
4WC-Y4036	DIP Switch Setting				Horizontal Airflow [Down Airflow in Brackets]											
	Airflow Setting	1	2	3	4	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
350 CFM/TON	OFF	OFF	OFF	ON	Watts	162 [169]	173 [182]	197 [210]	226 [243]	256 [273]	285 [301]	313 [331]	343 [370]	360 [433]	-	-
					CFM	1058 [1025]	1062 [1062]	1063 [1068]	1063 [1063]	1062 [1060]	1060 [1061]	1057 [1064]	1053 [1055]	1010 [1015]	-	-
400 CFM/TON (Factory Default)	OFF	OFF	OFF	OFF	Watts	179 [225]	230 [253]	265 [283]	296 [315]	329 [348]	366 [381]	403 [414]	431 [449]	436 [484]	-	-
					CFM	1179 [1187]	1196 [1201]	1204 [1203]	1206 [1201]	1205 [1198]	1203 [1197]	1199 [1194]	1194 [1184]	1185 [1157]	-	-
4500 CFM/TON	OFF	OFF	ON	OFF	Watts	318 [339]	336 [357]	365 [390]	399 [424]	435 [455]	469 [483]	502 [516]	533 [571]	-	-	-
					CFM	1390 [1391]	1376 [1377]	1370 [1377]	1366 [1375]	1361 [1366]	1354 [1352]	1349 [1344]	1351 [1360]	-	-	-
4WC-Y4048	DIP Switch Setting				Horizontal Airflow [Down Airflow in Brackets]											
Airflow Setting	1	2	3	4	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
350 CFM/TON	OFF	OFF	OFF	ON	Watts	187 [208]	232 [254]	264 [284]	291 [312]	318 [343]	347 [379]	379 [414]	413 [437]	446 [460]	473 [490]	-
					CFM	1355 [1337]	1387 [1393]	1396 [1398]	1392 [1388]	1382 [1383]	1370 [1390]	1360 [1399]	1351 [1384]	1341 [1380]	1326 [1370]	-
400 CFM/TON (Factory Default)	OFF	OFF	OFF	OFF	Watts	315 [302]	324 [349]	352 [386]	389 [423]	428 [465]	464 [509]	498 [552]	529 [583]	563 [599]	606 [628]	-
					CFM	1603 [1574]	1581 [1580]	1577 [1585]	1580 [1589]	1583 [1594]	1583 [1598]	1577 [1601]	1567 [1597]	1558 [1584]	1556 [1556]	-
4500 CFM/TON	OFF	OFF	ON	OFF	Watts	301 [501]	431 [528]	507 [555]	552 [592]	584 [631]	615 [672]	651 [714]	694 [760]	739 [800]	779 [845]	-
					CFM	1752 [1847]	1794 [1823]	1812 [1817]	1816 [1818]	1812 [1820]	1806 [1819]	1800 [1817]	1797 [1820]	1793 [1815]	1985 [1810]	-
4WC-Y4060	DIP Switch Setting				Horizontal Airflow [Down Airflow in Brackets]											
Airflow Setting	1	2	3	4	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
350 CFM/TON	OFF	OFF	OFF	ON	Watts	394 [443]	427 [461]	464 [493]	504 [532]	548 [571]	591 [607]	633 [642]	668 [680]	-	-	-
					CFM	1673 [1796]	1772 [1741]	1799 [1726]	1793 [1725]	1799 [1722]	1771 [1712]	1767 [1698]	1756 [1692]	-	-	-
400 CFM/TON (Factory Default)	OFF	OFF	OFF	OFF	Watts	695 [740]	642 [697]	660 [715]	710 [763]	764 [819]	811 [866]	849 [892]	893 [894]	966 [872]	-	-
					CFM	2054 [2010]	2036 [1987]	2031 [1779]	2032 [1977]	2033 [1976]	2031 [1969]	2023 [1950]	2012 [1913]	2002 [1852]	-	-

Airflow with Auxiliary Heat (CFM)					
SWITCH SETTINGS		SELECTION	NOMINAL AIRFLOW		
			4WCY4036	4WCY4048	4WCY4060
7 - OFF	8 - OFF	LOW	1050 CFM	1400 CFM	1400 CFM
7 - ON	8 - OFF	HIGH	1200 CFM	1600 CFM	1600 CFM
7 - OFF	8 - ON	HIGH	1200CFM	1600 CFM	1600 CFM
7 - ON	8 - ON	HIGH	1200CFM	1600 CFM	1600 CFM



Supplementary Electric Heaters

Cooling Off - Delay Options			
SWITCH SETTNGS		DELAY	NOMINAL AIRFLOW
5 - OFF	6 - OFF	NONE	100%
5 - ON	6 - OFF	45 SECONDS	100%
5 - OFF	6 - ON	90 SECONDS	50%
5 - ON	6 - ON	** ^(a)	50 - 100%



^(a) This ENHANCED MODE selection provides a ramping up and ramping down of the blower speed to provide improved comfort, quietness, and potential energy savings. The graph showS the ramping process.

Wiring Diagrams

Figure 1. 4WCY4036B3 Page 1

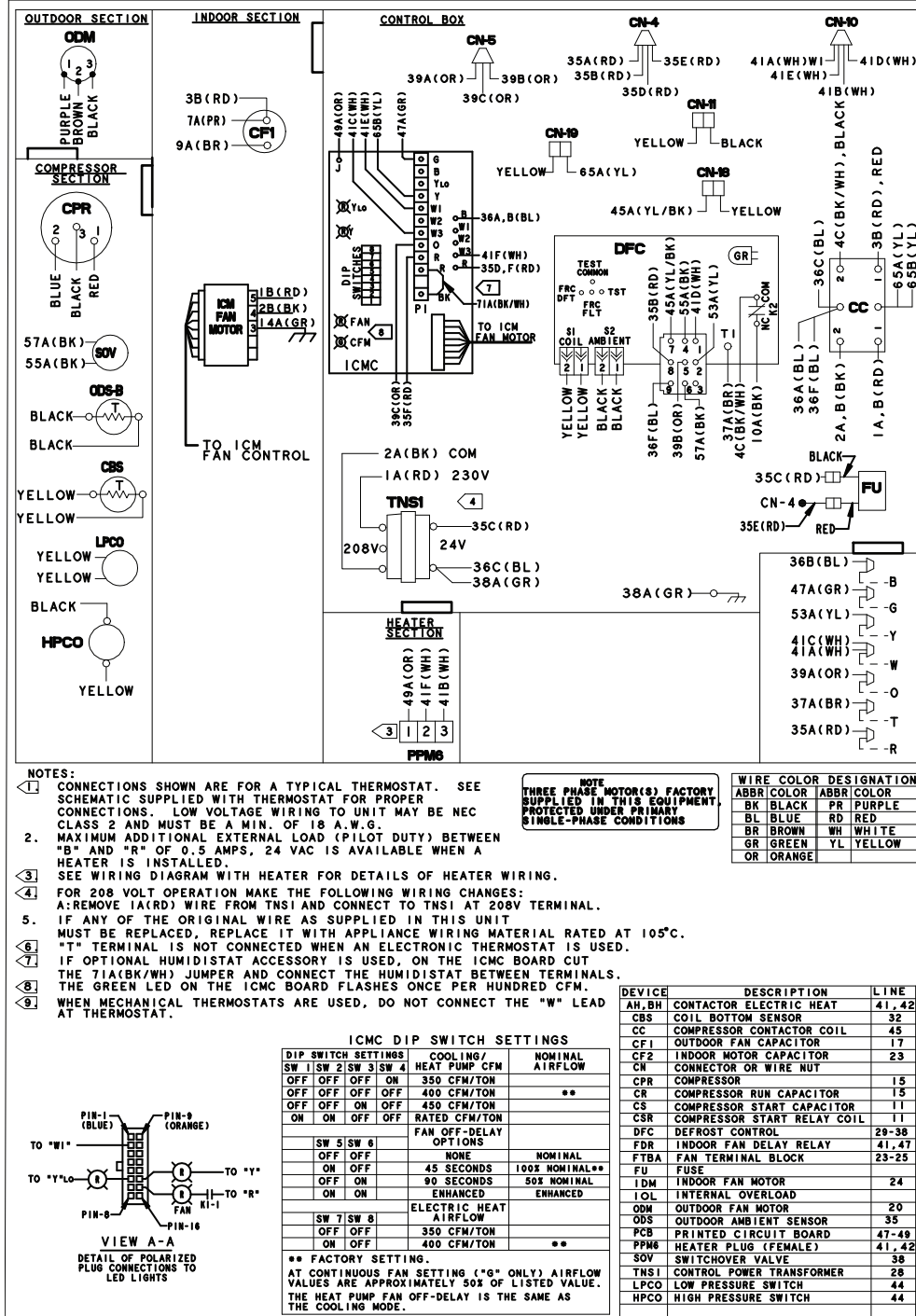


Figure 2. 4WCY4036B3 Page 2

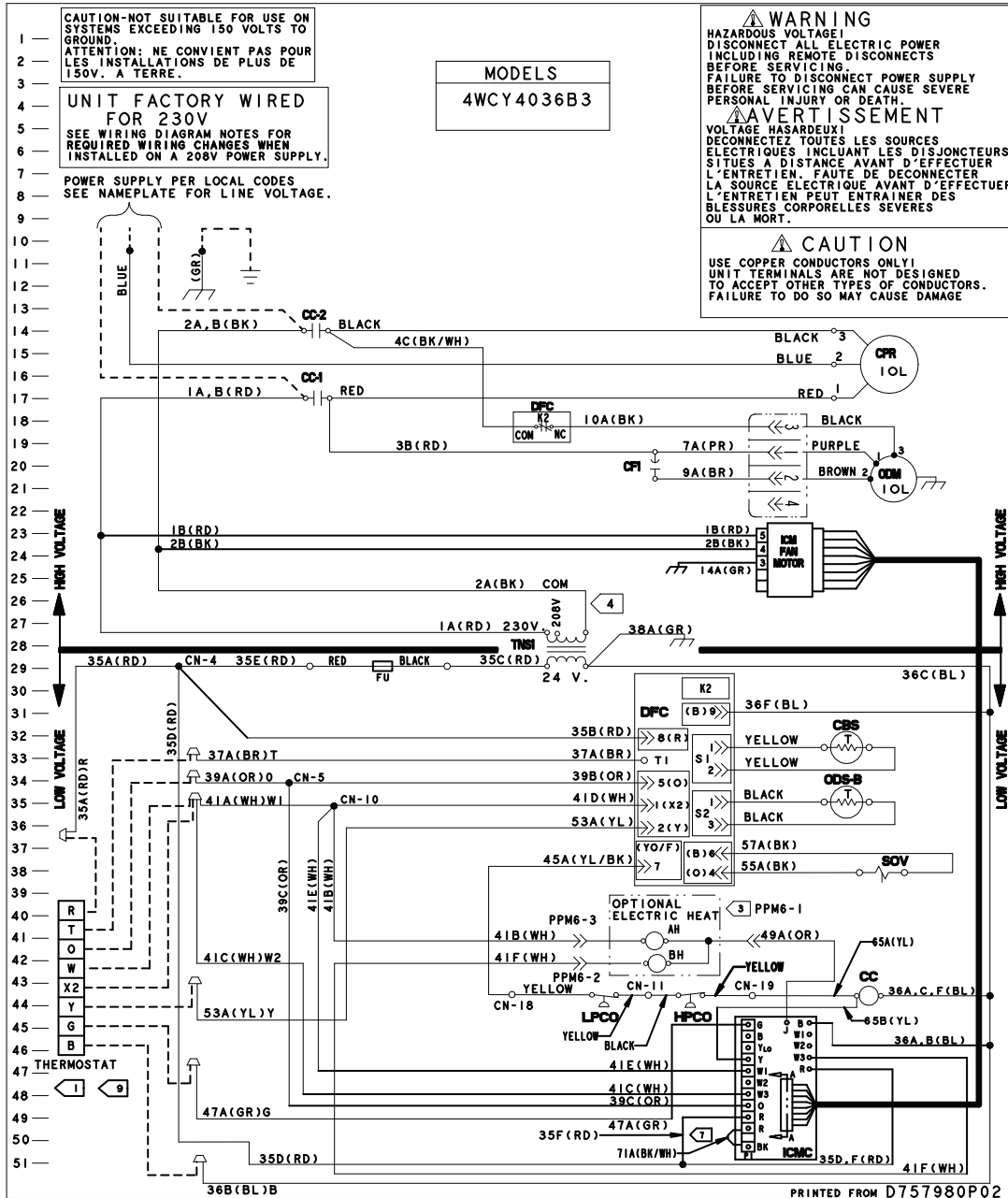
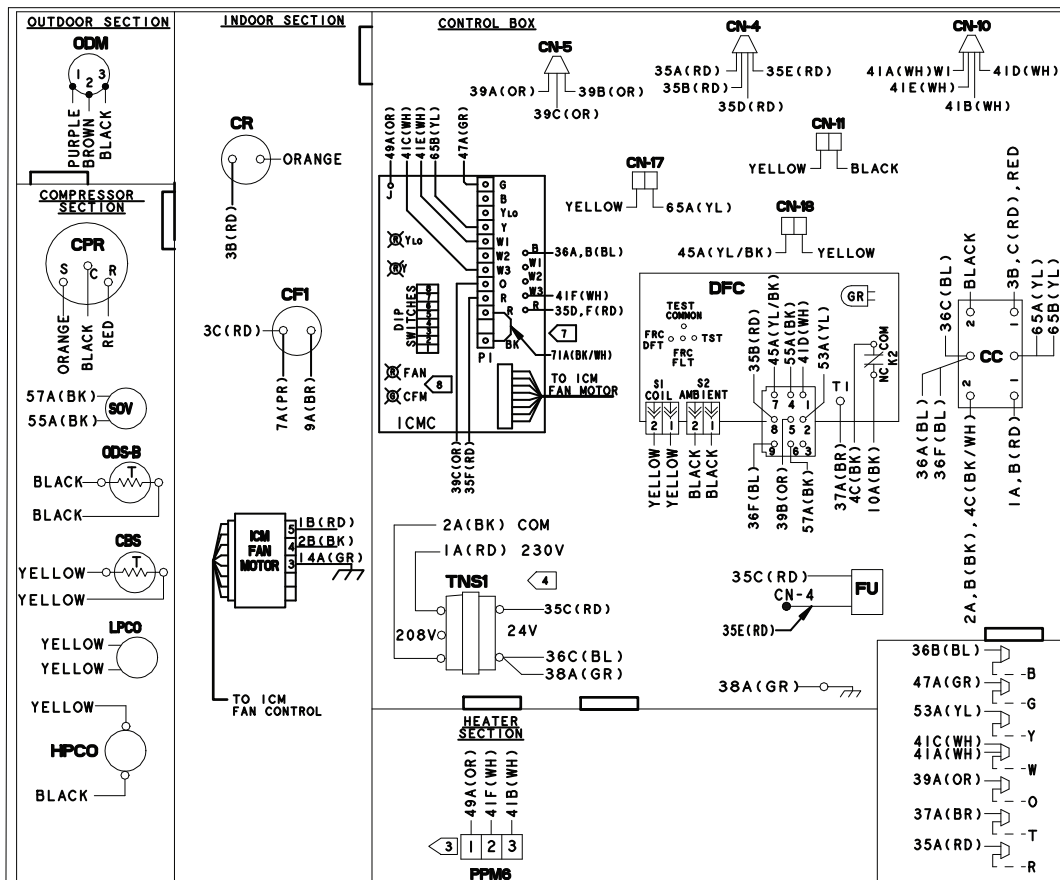
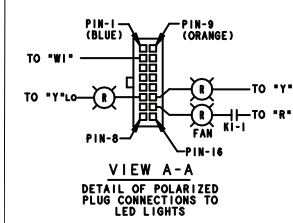


Figure 3. 4WCY4048A3 Page 1



- 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 AND MUST BE A MIN. OF 18 A.W.G.
 - 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:
A: REMOVE IA(RD) WIRE FROM TNSI AND CONNECT TO TNSI 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.
 - "T" TERMINAL IS NOT CONNECTED WHEN AN ELECTRONIC THERMOSTAT IS USED.
 - IF OPTIONAL HUMIDISTAT ACCESSORY IS USED, ON THE ICMC BOARD CUT THE 71A(BK/WH) JUMPER AND CONNECT THE HUMIDISTAT BETWEEN TERMINALS. THE GREEN LED ON THE ICMC BOARD FLASHES ONCE PER HUNDRED CFM.
 - WHEN MECHANICAL THERMOSTATS ARE USED, DO NOT CONNECT THE "W" LEAD AT THERMOSTAT.

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



ICMC 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	
ON	ON	OFF	OFF	RATED CFM/TON	
FAN OFF-DELAY OPTIONS					
SW 5	SW 6			NONE	NOMINAL
OFF	OFF			45 SECONDS	100 % NOMINAL **
OFF	ON			90 SECONDS	50 % NOMINAL
ON	ON			ENHANCED	ENHANCED
ELECTRIC HEAT AIRFLOW					
SW 7	SW 8			350 CFM/TON	
OFF	OFF			400 CFM/TON	**

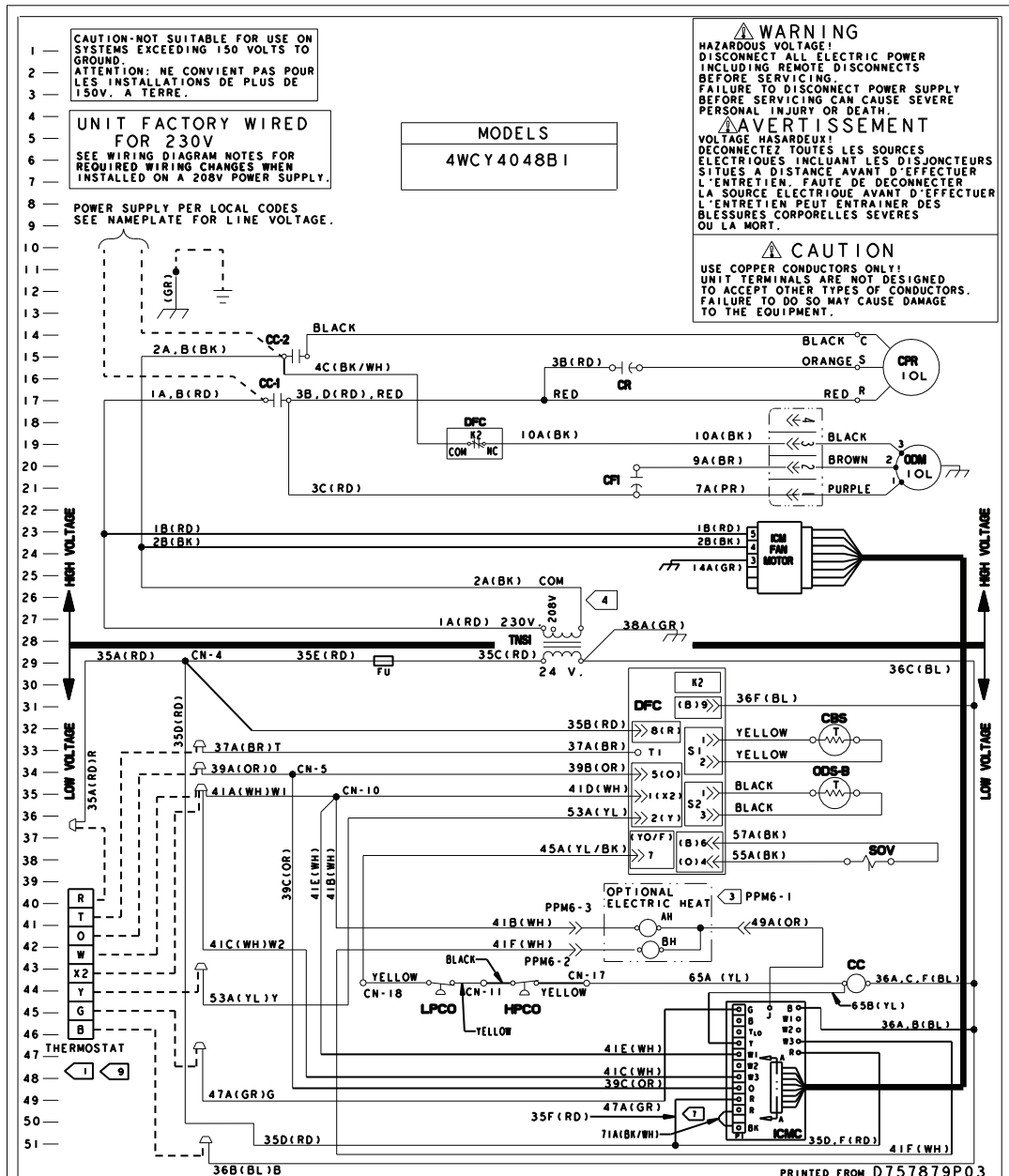
** FACTORY SETTING.
AT CONTINUOUS FAN SETTING ("6" ONLY) AIRFLOW VALUES ARE APPROXIMATELY 50% OF LISTED VALUE. THE HEAT PUMP FAN OFF-DELAY IS THE SAME AS THE COOLING MODE.

DEVICE	DESCRIPTION	LINE
AH, BH	CONTACTOR ELECTRIC HEAT	41, 42
CBS	COIL BOTTOM SENSOR	32
CC	COMPRESSOR CONTACTOR COIL	45
CF1	OUTDOOR FAN CAPACITOR	17
CF2	INDOOR MOTOR CAPACITOR	23
CN	CONNECTOR OR WIRE NUT	
CPR	COMPRESSOR	15
CR	COMPRESSOR RUN CAPACITOR	15
CS	COMPRESSOR START CAPACITOR	11
CSR	COMPRESSOR START RELAY COIL	11
DFC	DEFROST CONTROL	28-38
FDR	INDOOR FAN DELAY RELAY	41, 47
FTBA	FAN TERMINAL BLOCK	23-25
FU	FUSE	
IDM	INDOOR FAN MOTOR	24
IOL	INTERNAL OVERLOAD	
ODM	OUTDOOR FAN MOTOR	20
ODS	OUTDOOR AMBIENT SENSOR	35
PCB	PRINTED CIRCUIT BOARD	47-49
PPM8	HEATER PLUG (FEMALE)	41, 42
SOV	SWITCHOVER VALVE	38
TNSI	CONTROL POWER TRANSFORMER	28
LPCO	LOW PRESSURE SWITCH	44
HPCO	HIGH PRESSURE SWITCH	44



Wiring Diagrams

Figure 4. 4WCY4048A3 Page 2



MATERIAL:
 FLEXCON WHITE VINYL (2 MIL THICK) WITH PRESSURE SENSITIVE ADHESIVE BACKING AND RELEASE PAPER. ADHESIVE FOR OUTDOOR APPLICATION ON PAINTED OR GALVANIZED METAL.
 SIZE: 10" X 6 1/2"
 ALL PRINTING TO BE BLACK.
 TRANE CO. TO FURNISH PRINTER WITH ELECTRONIC FILE OF THIS DRAWING.
 WIRING DIAGRAMS TO BE SUPPLIED AS INDIVIDUAL SHEETS PER SIZE ABOVE.

Figure 5. 4WCY4060A3 Page 1

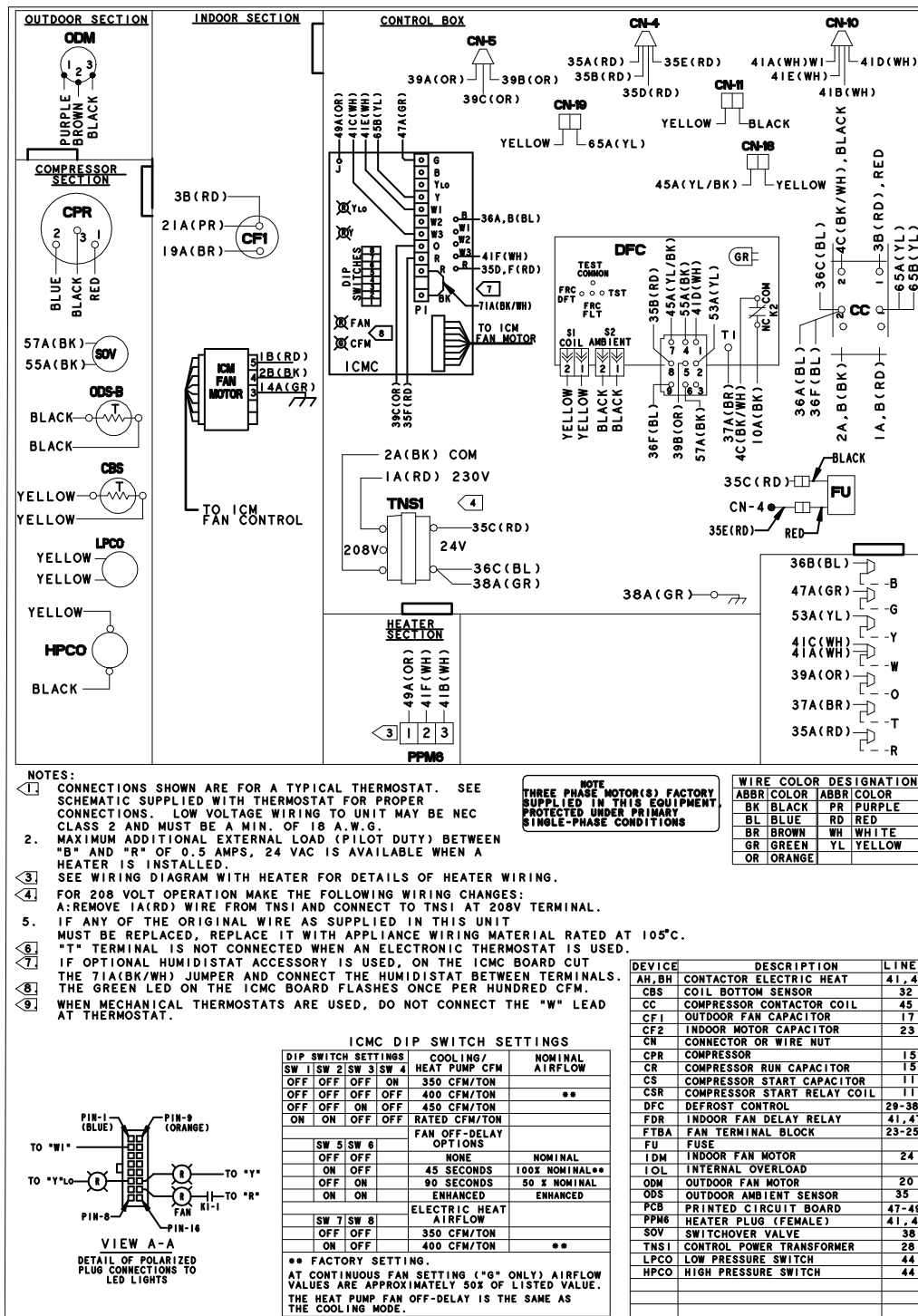
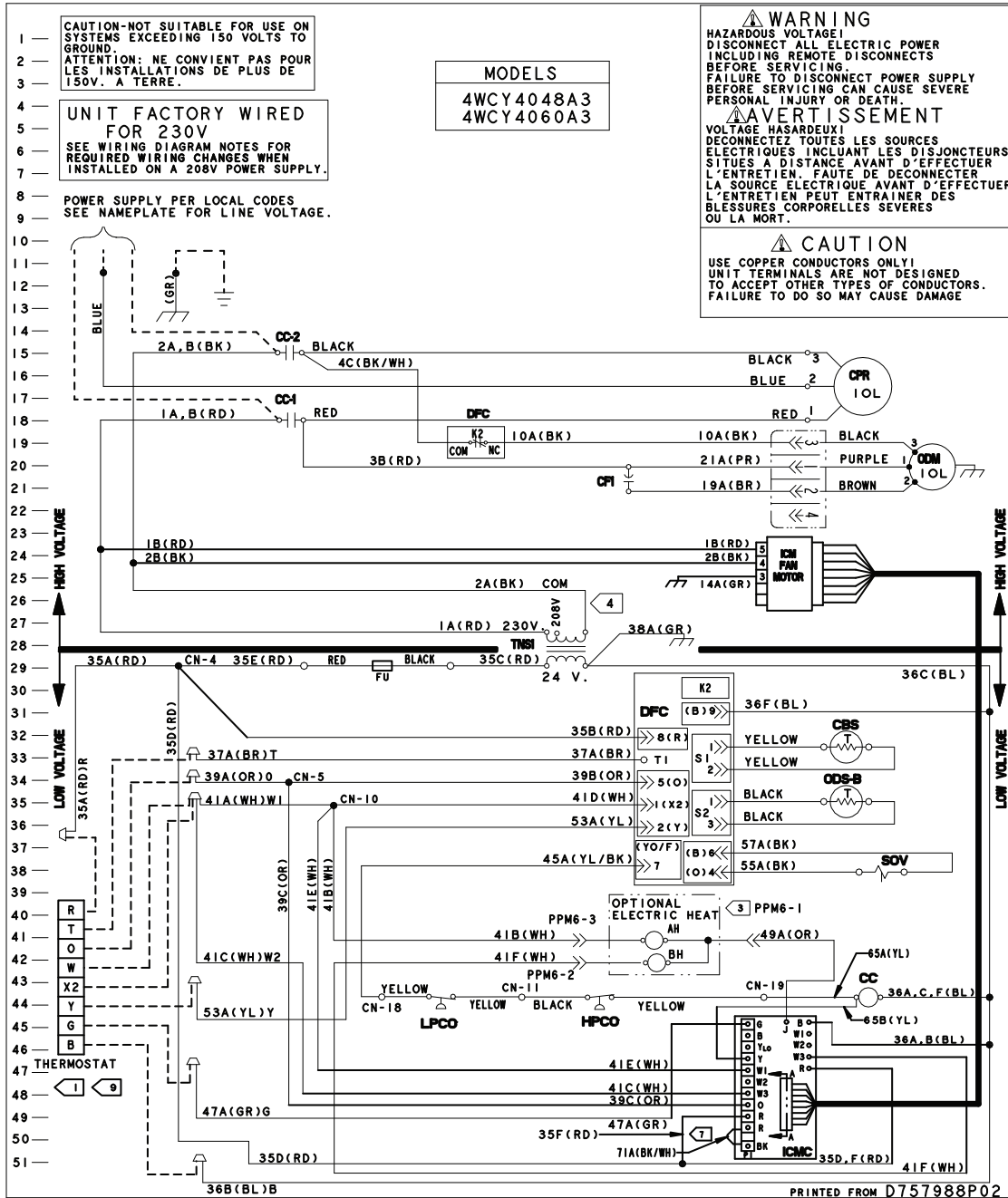


Figure 6. 4WCY4060A3 Page 2

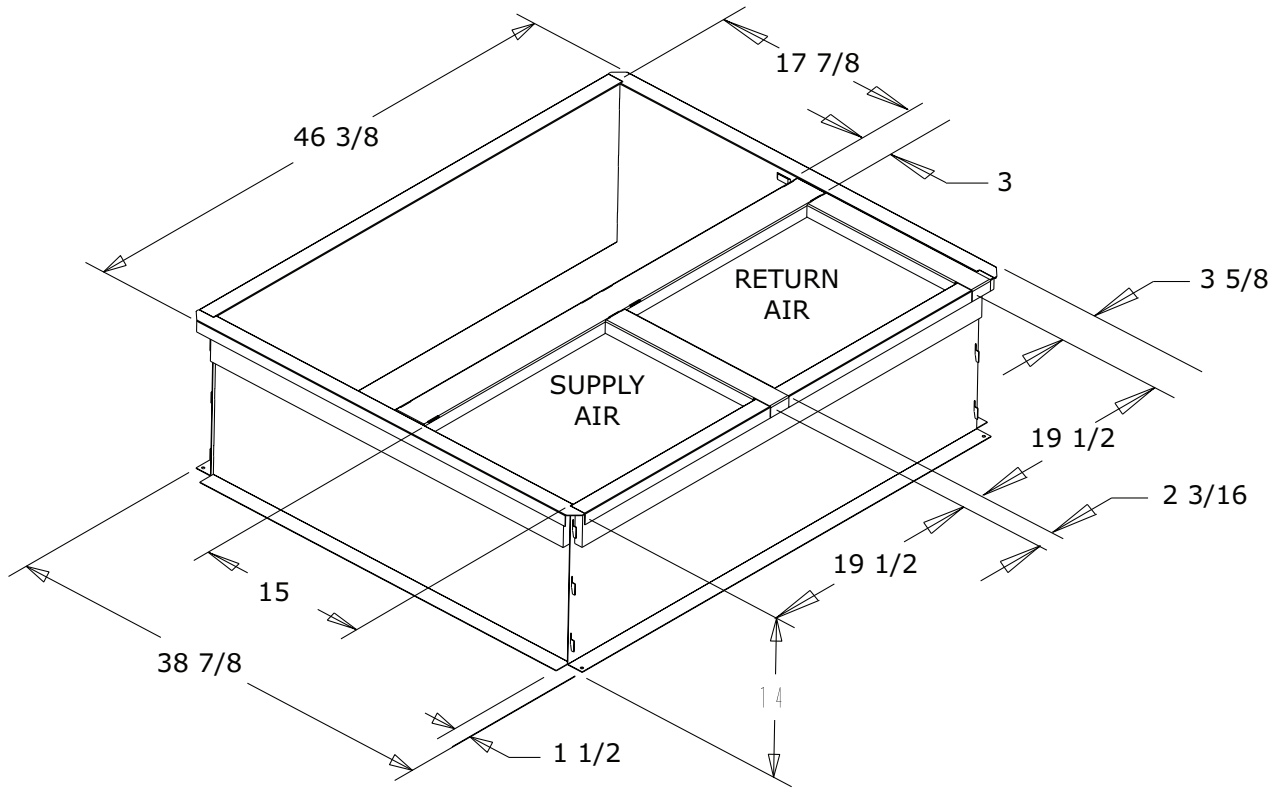




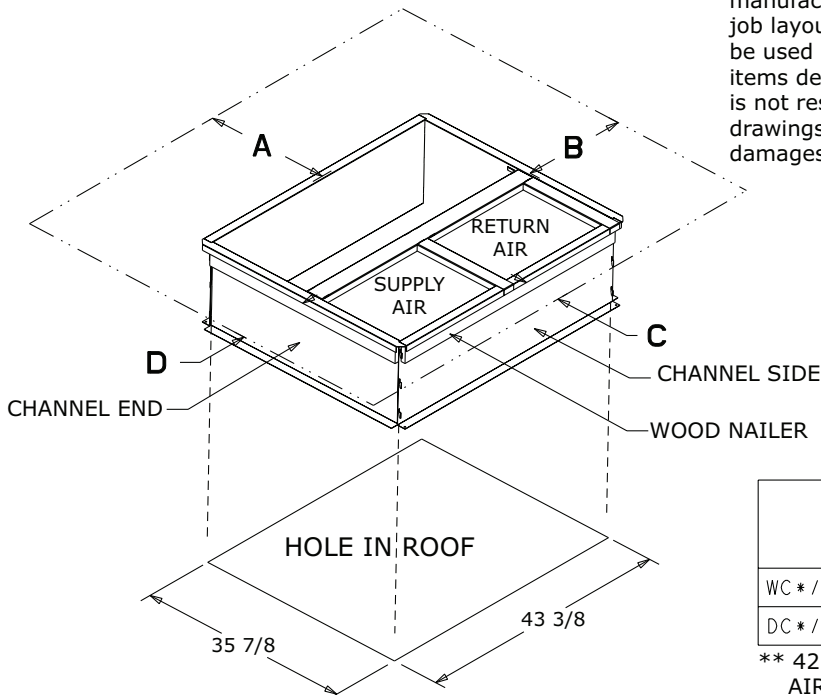
Full Perimeter Roof Mounting Curb

Figure 7. 2.0 – 3.0 Ton Models

BAYCURB050A Full Perimeter Roof Mounting Curb



The drawings on this page are prepared by the manufacturer in order to provide detail regarding job layout only. These drawings are not intended to be used as a basis to construct, build or modify the items depicted in the drawings. The manufacturer is not responsible for the unauthorized use of these drawings and expressly disclaims any liability for damages resulting from such unauthorized use.



	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

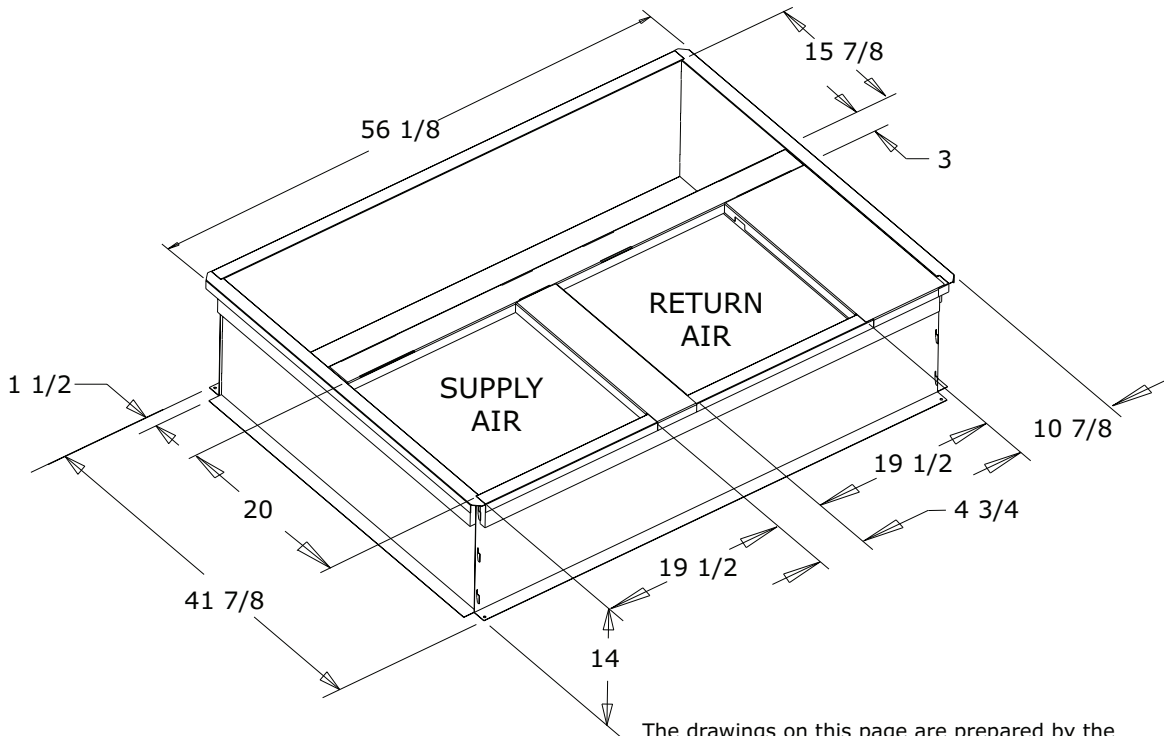
** 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY



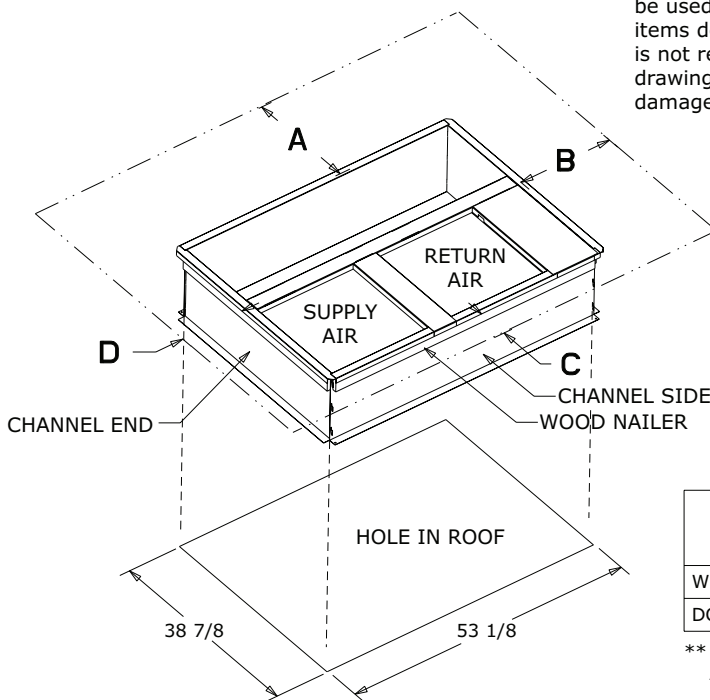
Full Perimeter Roof Mounting Curb

Figure 8. 3.5 – 5.0 Ton Models

BAYCURB051A Full Perimeter Roof Mounting Curb



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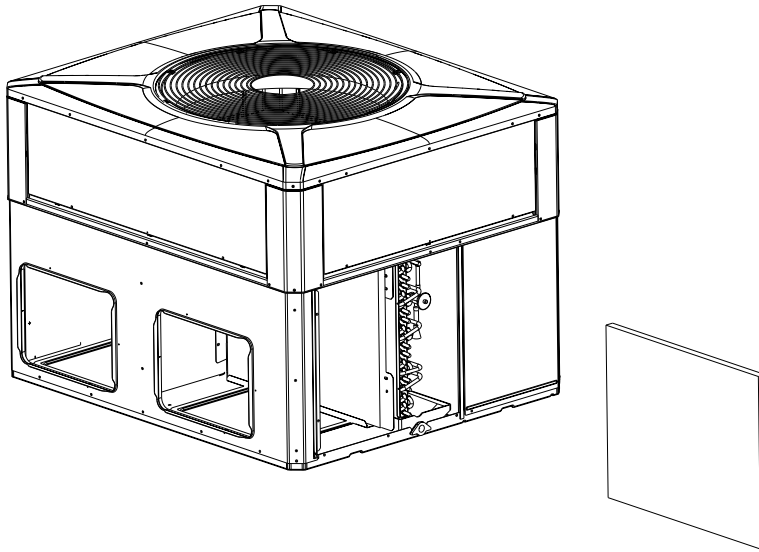
	SERVICE CLEARANCE DIMENSIONS			
	A	B	C	D
WC*/TC*	42.00	36.00	12.00**	24.00
DC*/YC*	42.00	36.00	12.00**	36.00

** 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

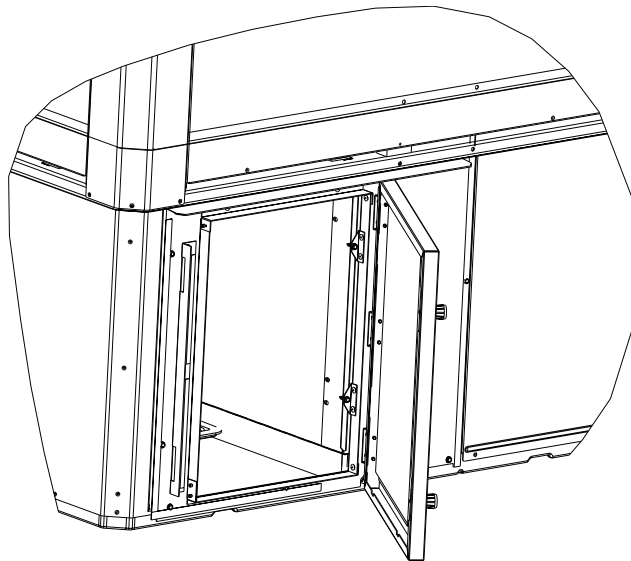


Optional Equipment — Filter Rack

**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. BAYECON101,102A Down Discharge Economizer and Rain Hood (Mounts Over Horizontal Return Air Opening)

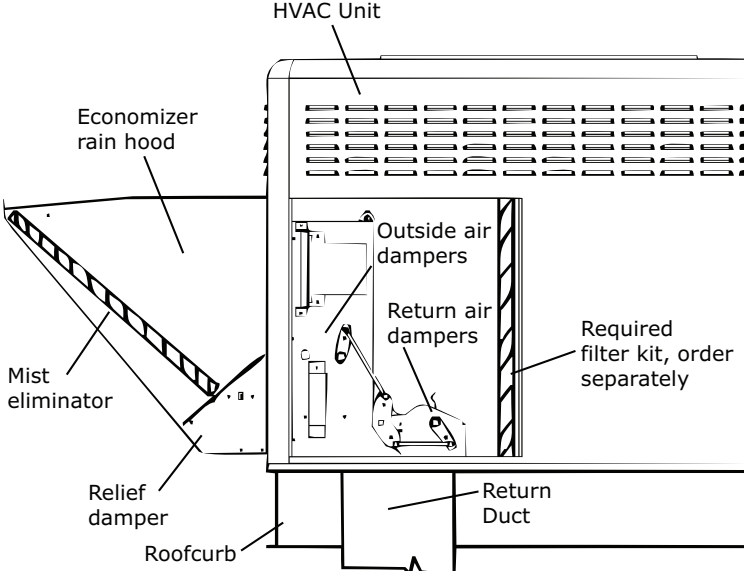
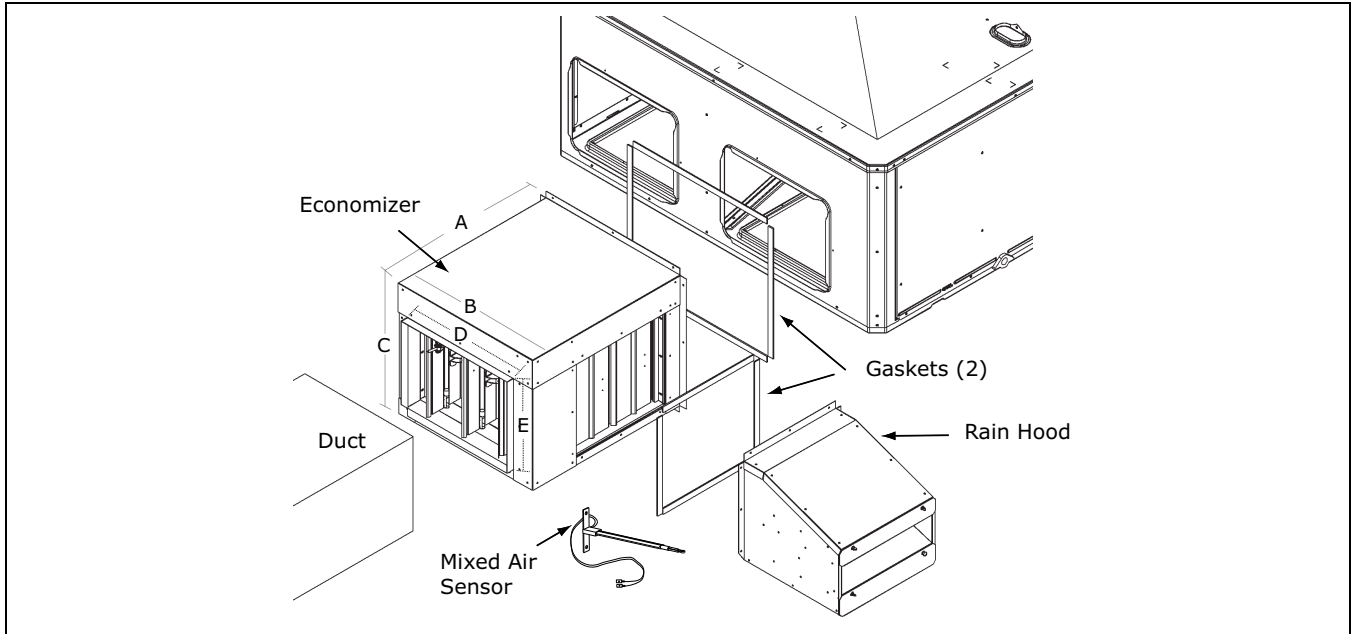
	Economizer	Unit Application Models
	BAYECON101A	2.0 – 3.0 Ton Models
	BAYECON102A	3.5 – 5.0 Ton Models

Table 2. BAYCON200, 201A Horizontal Economizer and Rain Hood



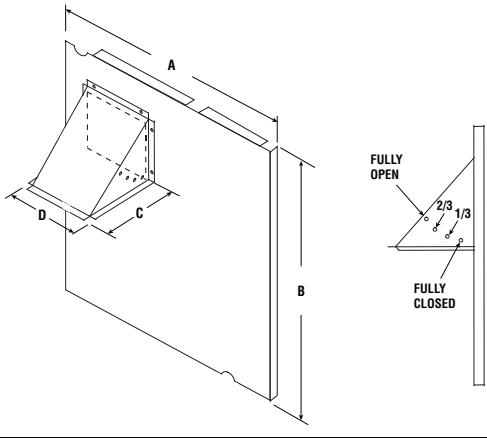
Economizer	Models	A	B	C	D	E	F
BAYECON200A	2.0 – 3.0 Ton	22"	20"	16-7/8"	15-11/16"	11-11/16"	15"
BAYECON201A	3.5 – 5.0 Ton	26"	22-21/32"	19"	17-11/16"	14-11/16"	21-3/8"

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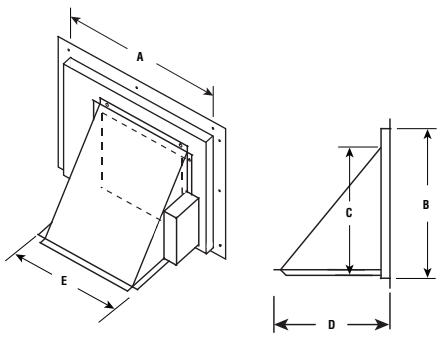


Optional Equipment – Outside Air Damper

**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"	

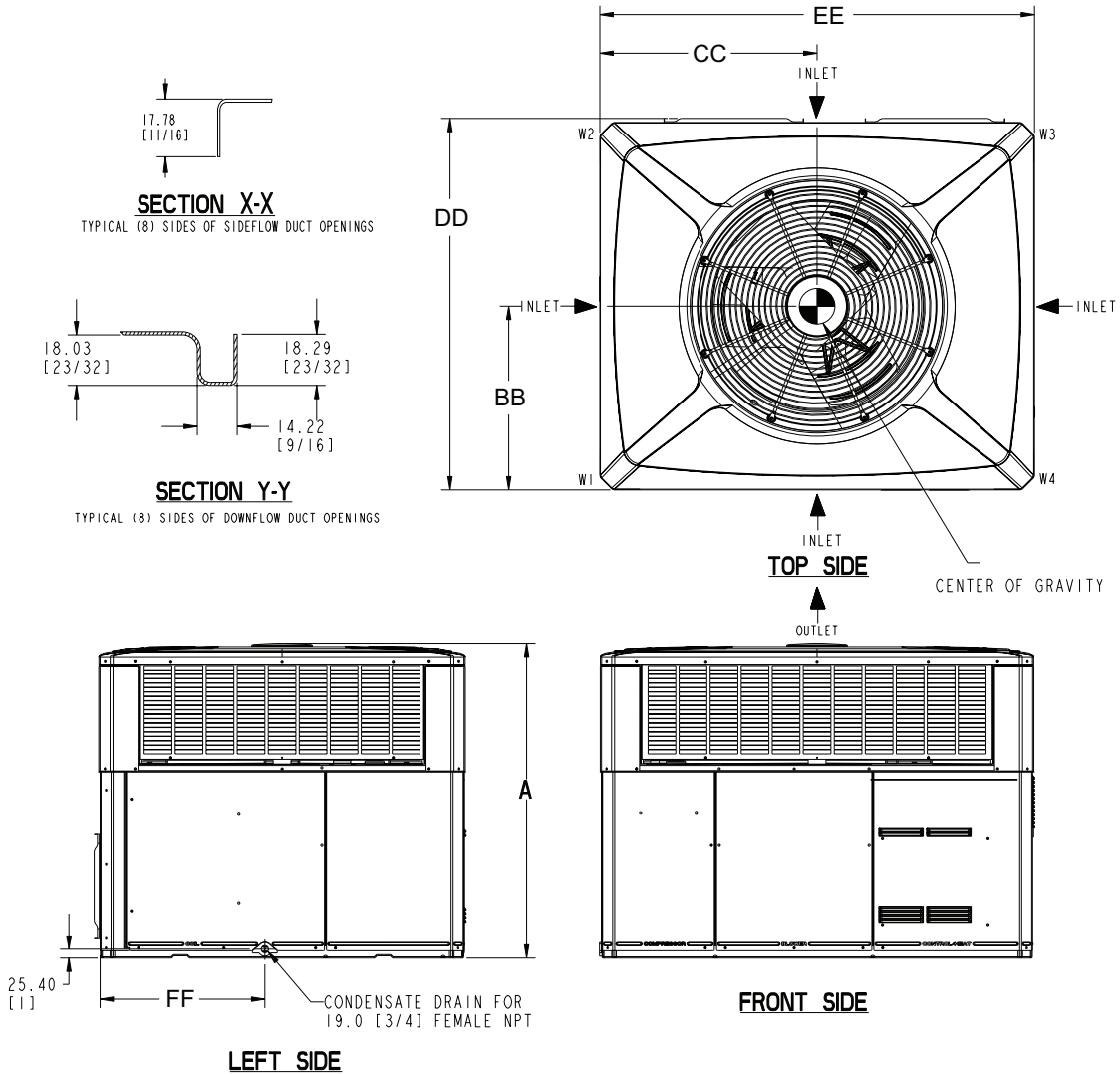
**Table 4. BAYDM-PR101 and 102A, 25% Motorized Outside Air Damper
(Mounts Over Horizontal Return Air Opening)**

	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]	

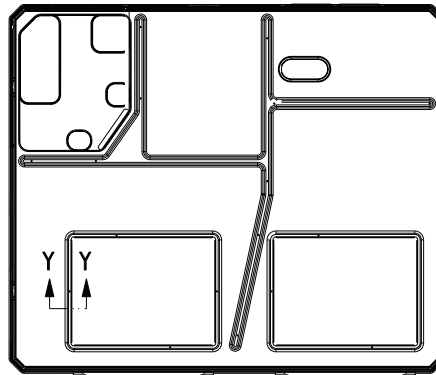
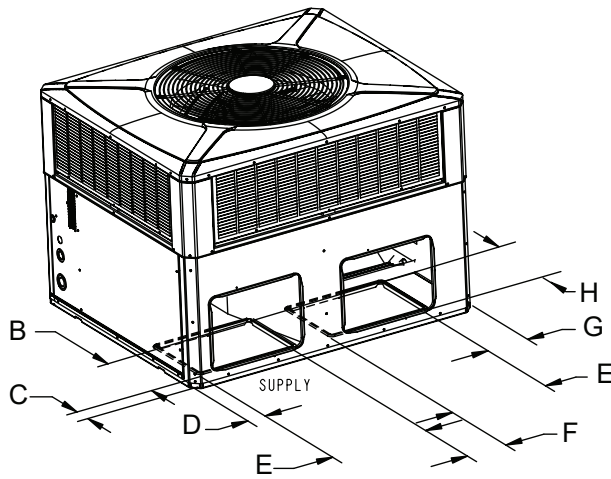
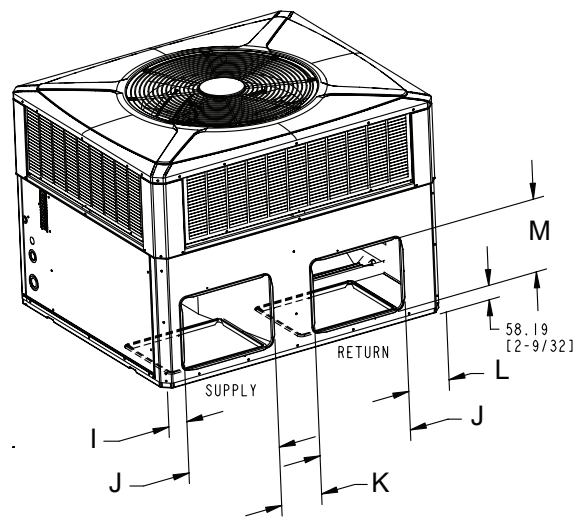


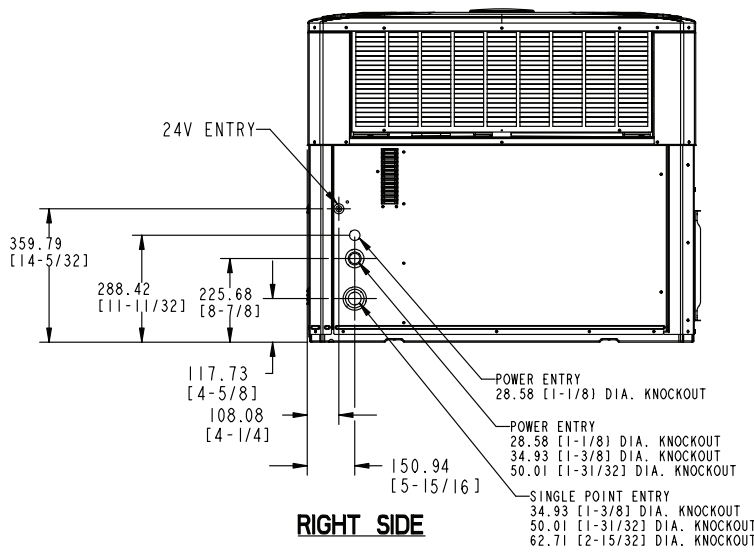
Figure 12. Bottom and Back Duct Openings



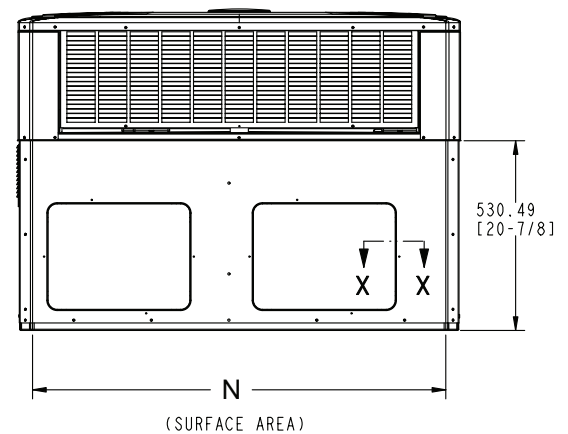
BOTTOM DUCT OPENINGS



BACK DUCT OPENINGS



RIGHT SIDE



BACK SIDE

	Height mm[in]	PHYSICAL DIMENSIONS mm[in]												
	A-Height	B	C	D	E	F	G	H	I	J	K	L	M	N
4WCY4036	949.33 [37.38]	304.80 [12]	84.46 [3.32]	82.16 [3.23]	406.40 [16]	167.89 [6.61]	180.20 [7.09]	304.80 [12]	86.25 [3.39]	398.22 [15.68]	176.07 [6.93]	177.55 [6.99]	296.62 [11.68]	1105.06 [43.50]
4WCY4048		457.20 [18]	82.16 [3.23]	82.16 [3.23]	381.00 [15]	244.09 [9.61]	325.49 [12.81]	381.00 [15]	86.25 [3.39]	449.02 [17.68]	176.07 [6.93]	329.58 [12.97]	372.82 [14.68]	1351.95 [53.22]
4WCY4060	1050.93 [41.38]													

	Corner Weights KG/LBS				SHIPPING WEIGHT KG/LBS	UNIT WEIGHT KG/LBS	Center Of Gravity mm[inch]	
	W1	W2	W3	W4			BB	CC
4WCY4036	60.8 [134]	38.1 [84]	27.2[60]	42.6 [94]	212.5 [468]	168.7 [372]	401.3 [15.8]	508.0 [20]
4WCY4048	78 [172]	49.4 [109]	37.6 [83]	59.4 [131]	282.5 [623]	224.5 [495]	414 [16.3]	635 [25.01]
4WCY4060	80.3 [177]	47.6 [105]	35.8 [79]	60.8 [134]	282.8 [623]	224.5 [495]	414 [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.

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 BAYRLAY004A 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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