



**TRANE®**

22-1815-13A-EN

# Product Data

---

**4DCZ6036 through 4DCZ6060**

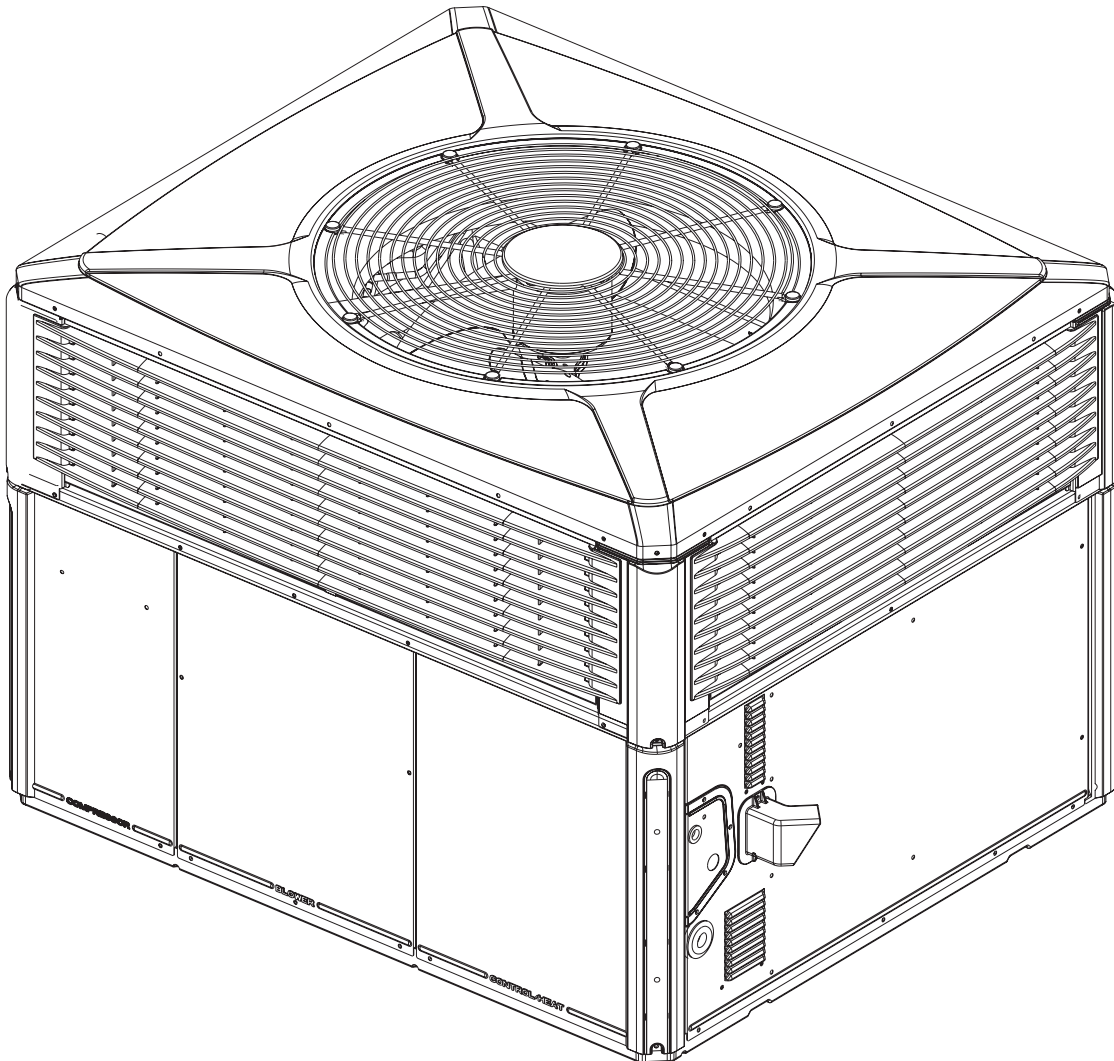
**Packaged Convertible Dual Fuel**

**16 SEER**

**3, 4 & 5 Ton, 70 - 120 MBTU**

**R-410A**

---



# It's Hard to Stop a Trane.

## Packaged Convertible Dual Fuel System

Trane offers a complete family of dual fuel heating and cooling systems, designed to keep you comfortable all year long, regardless of the weather, while keeping your operating costs as low as possible. The heat pump operates efficiently as both an air conditioner and a heater. In the summer, the heat pump cools your home just like any other air conditioner by pulling the heat from the inside and releasing it outdoors. In the winter, it captures the heat that is always present in the outdoor air and transfers it indoors. The gas furnace provides additional heating capacity for cooler weather.

## Introducing the new Trane Packaged Convertible Dual Fuel System.

**Single Packaged Convertible Dual Fuel Systems are easy and versatile to install.** Because cooling and heating functions are all contained in a single cabinet, a Trane packaged dual fuel system is 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 a \*CONT402, 802, or 803 comfort control and air distribution ducts, you have a highly efficient, total home comfort system.

**Single Packaged Dual Fuel 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 Climatuff® 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.

# Contents

<b>Optional Equipment Listing</b>	<b>4</b>
<hr/>	
<b>General Data</b>	<b>5</b>
<hr/>	
<b>Indoor Blower Performance</b>	<b>7</b>
<hr/>	
<b>Typical Field Wiring</b>	<b>9</b>
<hr/>	
<b>Optional Equipment</b>	<b>16</b>
<hr/>	
<b>Dimensional Data</b>	<b>21</b>
<hr/>	
<b>Mechanical Specifications</b>	<b>27</b>
<hr/>	

# Optional Equipment Listing

## OPTIONAL EQUIPMENT FOR 4DCZ6 PACKAGED UNITS (check mark [✓] indicates accessories included)

Hinged Filter Access Door (DCZ6036) ⑧	BAYACCDOR1A[ ]
Hinged Filter Access Door (DCZ6048-060) ⑧	BAYACCDOR2A[ ]
Roof Curb Full Perimeter (4DCZ6036) ③	BAYCURB050A[ ]
Roof Curb Full Perimeter (4DCZ6048-060) ③	BAYCURB051A[ ]
Roof Curb Utility Extension Kit (BAYCURB050A)	BAYUTIL101B[ ]
Roof Curb Utility Extension Kit (BAYCURB051A)	BAYUTIL102B[ ]
Outside Air Control for V.S. Economizer (4DCZ6036-060) ⑨	BAYOSAC001B[ ]
0-25% Motorized Outside Air Damper (4DCZ6036)	BAYDMPR101A[ ]
0-25% Motorized Outside Air Damper (4DCZ6048-060)	BAYDMPR102A[ ]
0-25% Manual Fresh Air Damper (4DCZ6036) ①	BAYOSAH001A[ ]
0-25% Manual Fresh Air Damper (4DCZ6048-060) ①	BAYOSAH002A[ ]
16" Round Duct Adapter (2 per box) (4DCZ6036) ⑥	BAYSQRD001A[ ]
18" Round Duct Adapter (2 per box) (4DCZ6036-060) ⑥	BAYSQRD002A[ ]
0-100% Mod Economizer w/Baro. Relief (4DCZ6036) ①②④	BAYECON013A[ ]
0-100% Mod. Economizer w/Baro. Relief (4DCZ6048-060) ①②④	BAYECON104A[ ]
0-100% Horizontal Economizer (4DCZ6036) ①②	BAYECON203A[ ]
0-100% Horizontal Economizer (4DCZ6048-060) ①②	BAYECON204A[ ]
Economizer Relay Kit (required for Heat Pump applications)	BAYRLAY006A[ ]
Enthalpy Control for Economizer (solid state)	BAYENTH001A[ ]
Remote Potentiometer (All-BAYECON***A)	BAYSTAT023[ ]
1"-2" Filter Frame (4DCZ6036) (20 x 25 filter not included) ①	BAYFLTR101B[ ]
1"-2" Filter Frame (4DCZ6048-060) (20 x 20,20X18 filter not included) ①	BAYFLTR201B[ ]
Evaporator Defrost Control (Low Ambient Cooling) Kit ⑤	BAYLOAM011A[ ]
Head Pressure Control (Low Ambient Cool) (208/240v) Kit ⑤	BAYLOAM105A[ ]
Crankcase Heater Scroll(4DCZ6048, 60)(230v) ⑤	BAYCCHT102A[ ]
Crankcase Heater Scroll (4DCZ6036)(230v) ⑤	BAYCCHT103A[ ]
Crankcase Heater Scroll (4DCZ6048, 60)(460v)	BAYCCHT404B[ ]
Crankcase Heater Scroll (4DCZ6036)(460v)	BAYCCHT405A[ ]
Adapter Curb 4DCZ6036 to BAYCURB030,38	BAYADAP050A[ ]
Adapter Curb 4DCZ6036 to BAYCURB033	BAYADAP051A[ ]
Adapter Curb 4DCZ6048-60A to BAYCURB030,38	BAYADAP052A[ ]
Adapter Curb 4DCZ6048-60A to BAYCURB033	BAYADAP053A[ ]
Adapter Curb 4DCZ6048-60A to BAYCURB034	BAYADAP054A[ ]
12" Duct Shroud Covers Horizontal 4DCZ6036-060 ⑦	BAYCOVR112A[ ]
18" Duct Shroud Covers Horizontal 4DCZ6036-060 ⑦	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 (All Models)	BAYLIFT002B[ ]
LP Conversion Kit (All 40K, 120K Models)	BAYLPKT100A[ ]
LP Conversion Kit (All 64K, 96K Models)	BAYLPKT101A[ ]
LP Conversion Kit (All 75K Models)	BAYLPKT102A[ ]

- NOTES:
- ① Must use internal filter frame when economizer or fresh air kit is used.
  - ② Dry bulb control standard with economizer.
  - ③ Ships knocked down.
  - ④ Downflow only.
  - ⑤ Low Ambient cooling requires crankcase heater (BAYCCHT----A).
  - ⑥ It is the responsibility of the installing dealer to properly size the ductwork for each specific application.
  - ⑦ BAYCOVR112,118A will not cover BAYSQRD002A applications.
  - ⑧ BAYACCDOR1A requires BAYFLTR101B & BAYACCDOR2A requires BAYFLTR201B. They are not backward compatible to BAYFLTR101/201A.
  - ⑨ BAYOSAC001B is not compatible with BAYACCDOR1A or BAYACCDOR2A.

# General Data

MODEL	4DCZ6036C1070A	4DCZ6036B3075A	4DCZ6048C1090A
<b>RATED Volts/PH/Hz</b>	208-230/1/60	208-230/3/60	208-230/1/60
<b>Performance Cooling BTUH</b> ①			
BTUH (High)	36000	36000	47500
Indoor Airflow (CFM)	1125	1125	1575
Power Input (KW)	2.89	2.89	3.42
BTUH (Low)	28800	28800	39000
Indoor Airflow (CFM)	825	825	1150
Power Input (KW)	1.65	1.65	2.22
EER - HI / LOW / SEER	12.2 / 17.45 / 16.0	12.2 / 17.45 / 16	12 / 17.5 / 16
Sound Power Rating [dB(A)] ⑦	70	70	72
<b>HP Heating Performance</b> ②			
(High Temp.)BTUH / COP (High)	31000 / 3.43	31000 / 3.43	42000 / 3.83
Power Input (KW)	2.65	2.65	3.32
(Low Temp.) BTUH / COP (High)	19200 / 2.3	19200 / 2.3	23200 / 2.27
Power Input (KW)	2.45	2.45	2.99
(High Temp.)BTUH / COP (Low)	22400 / 3.43	22400 / 3.43	31200 / 3.77
Power Input (KW)	1.92	1.92	2.4
(Low Temp.) BTUH / COP (Low)	12000 / 1.89	12000 / 1.89	17000 / 2.12
Power Input (KW)	1.86	1.86	2.32
HSPF (BTU / Watt-Hr.) ⑥	8.3	8.3	8.5
<b>Gas Heating Performance</b> ②			
Input BTUH - 1st Stage (Natural Gas)	56000	56250	72000
Input BTUH - 2nd Stage (Natural Gas)	70000	75000	90000
AFUE	81	79.5	81
Temp. Rise — Min/Max (°F)	30 / 60	30 / 60	30 / 60
Orifice Qty / Drill Size (Natural Gas) ③	2 / #33	2 / #33	3 / #37
<b>POWER CONN.—V/PH/Hz</b>	208-230/1/60	208-230/3/60	208-230/1/60
Min. Brch. Cir. Ampacity ④	24.3	19.7	34.2
Fuse Size — Max. / Recmd. (amps)	35 / 35	30 / 30	50 / 50
<b>COMPRESSOR</b>	2-STAGE SCROLL	2-STAGE SCROLL	2-STAGE SCROLL
Volts/Ph/Hz	208-230/1/60	208-230/3/60	208-230/1/60
R.L. Amps — L.R. Amps	15.3 / 83	11.6 / 73	21.2 / 104
<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	15.49	23.57
Tube Size (in.)	3/8	3/8	3/8
<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.)	3.45	15.49	5
Tube Size (in.)	3/8	3/8	3/8
Refrigerant 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	23.4	28.2
Drive/No. Speeds	1 / 1	1 / 1	1 / 1
CFM @ 0.0 in. w.g. ⑤	3000	3000	4200
Motor — HP/R.P.M.	1/6 / 830	1/6 / 830	1/6 / 830
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps/L.R. Amps	1.0 / 1.65	.9 / 1.65	0.9 / 1.7
<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. ⑤	SEE FAN PERFORMANCE TABLE	SEE FAN PERFORMANCE TABLE	SEE FAN PERFORMANCE TABLE
Motor — HP/R.P.M.	1/2 / VARIABLE	1/2 / VARIABLE	3/4 / 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	4.3 / 4.3	6.8 / 6.8
<b>COMBUSTION FAN — TYPE</b>	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
Drive/No. Speeds	DIRECT / 2	DIRECT / 2	DIRECT / 2
Motor — HP/R.P.M.	1/20 / 3350/2600	1/45 / 2800/1500	1/20 / 3350/2600
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
FLA	0.34	0.34	0.34
<b>FILTER / FURNISHED</b>	NO	NO	NO
Type Recommended	THROWAWAY	THROWAWAY	THROWAWAY
Recmd. Face Area (sq. ft.) ⑥	4.0	4.0	5.3
<b>REFRIGERANT / Charge (lbs.)</b>	R410A / 7.8	R410A / 7.8	R410A / 8.8
<b>GAS PIPE SIZE (in.)</b>	1/2	1/2	1/2
<b>DIMENSIONS</b>	H X W X L	H X W X L	H X W X L
Crated (in.)	47.86 / 44.5 / 52.03	47.86 / 44.5 / 52.03	51.86 / 47.4 / 61.75
<b>WEIGHT / Shipping / Net (lbs.)</b>	488 / 392	488 / 392	665 / 537

① Certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

② All models are certified to UL 1995. Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

③ Convertible to LPG.

④ This value is approximate. For more precise value, see Unit Nameplate.

⑤ Based on U.S. Government Standard Tests.

⑥ 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.

⑦ Sound Power values are not adjusted for AHRI 270-95 tonal corrections.

⑧ Standard Air - Dry Coil - Outdoor.

# General Data

MODEL	4DCZ6048B3096A	4DCZ6060C1115A	4DCZ6060B3120A
<b>RATED Volts/PH/Hz</b>	208-230/3/60	208-230/1/60	208-230/3/60
<b>Performance Cooling BTUH</b> ①			
BTUH (High)	47500	57000	57000
Indoor Airflow (CFM)	1575	1780	1780
Power Input (KW)	3.42	4.97	4.97
BTUH (Low)	39000	44500	44500
Indoor Airflow (CFM)	1150	1250	1250
Power Input (KW)	2.22	2.79	2.79
EER - HI / LOW / SEER	12 / 17.5 / 16	11.5 / 15.9 / 15.0	11.5 / 15.9 / 15.0
Sound Power Rating [dB(A)]⑦	72	74	74
<b>HP Heating Performance</b> ②			
(High Temp.)BTUH / COP (High)	42000 / 3.83	53500 / 3.5	53500 / 3.5
Power Input (KW)	3.32	4.45	4.45
(Low Temp.) BTUH / COP (High)	23200 / 2.27	34000 / 2.46	34000 / 2.46
Power Input (KW)	2.99	3.99	3.99
(High Temp.)BTUH / COP (Low)	31200 / 3.77	37000 / 3.43	37000 / 3.43
Power Input (KW)	2.4	3.19	3.19
(Low Temp.) BTUH / COP (Low)	17000 / 2.12	19000 / 1.81	19000 / 1.81
Power Input (KW)	2.32	3.02	3.02
HSPF (BTU / Watt-Hr.)⑥	8.5	8.3	8.3
<b>Gas Heating Performance</b> ②			
Input BTUH - 1st Stage (Natural Gas)	72000	92000	90000
Input BTUH - 2nd Stage (Natural Gas)	96000	115000	120000
AFUE	80	81	80
Temp. Rise — Min/Max (°F)	30 / 60	30 / 60	30 / 60
Orifice Qty / Drill Size (Natural Gas)③	3 / #37	3 / #32	3 / #32
<b>POWER CONN.—V/PH/Hz</b>	208-230/3/60	208-230/1/60	208-230/3/60
Min. Brch. Cir. Ampacity④	24.5	42.0	30.0
Fuse Size — Max. / Recmd. (amps)	35 / 35	60 / 60	45 / 45
<b>COMPRESSOR</b>	2-STAGE SCROLL	2-STAGE SCROLL	2-STAGE SCROLL
Volts/Ph/Hz	208-230/3/60	208-230/1/60	208-230/3/60
R.L. Amps — L.R. Amps	13.5 / 88	27.1 / 152.9	16.5 / 110
<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.)	23.57	23.57	23.57
Tube Size (in.)	3/8	3/8	3/8
<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.)	5	5	5
Tube Size (in.)	3/8	3/8	3/8
Refrigerant 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.)	28.2	28.2	28.2
Drive/No. Speeds	1 / 1	1 / 1	1 / 1
CFM @ 0.0 in. w.g.⑧	4200	4700	4700
Motor — HP/R.P.M.	1/6 / 830	1/4 / 830	1/4 / 830
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps/L.R. Amps	0.9 / 1.7	1.4 / 3.4	1.4 / 3.4
<b>INDOOR FAN — TYPE</b>	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
Dia x Width (in.)	11 X 10	11 X 10	11 X 10
Drive/No. Speeds	DIRECT / VARIABLE	DIRECT / VARIABLE	DIRECT / VARIABLE
CFM @ 0.0 in. w.g.⑧	SEE FAN PERFORMANCE TABLE	SEE FAN PERFORMANCE TABLE	SEE FAN PERFORMANCE TABLE
Motor — HP/R.P.M.	3/4 / VARIABLE	1 / VARIABLE	1 / VARIABLE
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps/L.R. Amps	6.8 / 6.8	6.9 / 6.9	6.9 / 6.9
<b>COMBUSTION FAN — TYPE</b>	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
Drive/No. Speeds	DIRECT / 2	DIRECT / 2	DIRECT / 2
Motor — HP/R.P.M.	1/45 / 2800/1500	1/20 / 3350/2600	1/45 / 2800/1500
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
FLA	0.34	0.34	0.34
<b>FILTER / FURNISHED</b>	NO	NO	NO
Type Recommended	THROWAWAY	THROWAWAY	THROWAWAY
Recmd. Face Area (sq. ft.)⑨	5.3	5.3	5.3
<b>REFRIGERANT / Charge (lbs.)</b>	R410A / 8.8	R410A / 9.8	R410A / 9.8
<b>GAS PIPE SIZE (in.)</b>	1/2	1/2	1/2
<b>DIMENSIONS</b>	H X W X L	H X W X L	H X W X L
Crated (in.)	51.86 / 47.4 / 61.75	52.0 / 47.0 / 62.0	52.0 / 47.0 / 62.0
<b>WEIGHT / Shipping / Net (lbs.)</b>	665 / 537	676 / 548	676 / 548

① Certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

② All models are certified to UL 1995. Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

③ Convertible to LPG.

④ This value is approximate. For more precise value, see Unit Nameplate.

⑤ Based on U.S. Government Standard Tests.

⑥ 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.

⑦ Sound Power values are not adjusted for AHRI 270-95 tonal corrections.

⑧ Standard Air - Dry Coil - Outdoor.

# Indoor Blower Performance

## Indoor Fan Performance 4DCZ6036

Horizontal		External Static Pressure (in. wg)										
		0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
350 CFM/Ton Setting	Low	-	741	743	744	744	743	742	740	737	-	-
	High	-	1059	1062	1063	1063	1062	1059	1057	1053	-	-
400 CFM/Ton Setting	Low	-	825	837	843	844	844	842	839	836	-	-
	High	-	1179	1196	1204	1206	1205	1203	1199	1194	-	-
450 CFM/Ton Setting	Low	-	976	964	959	957	953	949	945	945	-	-
	High	-	1394	1377	1371	1367	1362	1355	1350	1350	-	-

Down Flow		External Static Pressure (in. wg)										
		0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
350 CFM/Ton Setting	Low	-	722	745	747	744	742	743	744	736	-	-
	High	-	1032	1064	1068	1063	1060	1062	1063	1052	-	-
400 CFM/Ton Setting	Low	-	830	841	842	840	839	838	836	828	-	-
	High	-	1186	1201	1203	1201	1198	1197	1194	1184	-	-
450 CFM/Ton Setting	Low	-	978	965	964	963	958	948	941	949	-	-
	High	-	1397	1378	1377	1376	1368	1354	1344	1356	-	-

## Indoor Fan Performance 4DCZ6048

Horizontal		External Static Pressure (in. wg)										
		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	973	977	973	966	957	950	944	-	-
	High	-	1363	1390	1396	1390	1379	1368	1358	1349	-	-
400 CFM/Ton Setting	Low	-	1121	1106	1104	1106	1108	1108	1104	1097	-	-
	High	-	1601	1580	1577	1580	1583	1583	1577	1567	-	-
450 CFM/Ton Setting	Low	-	1223	1254	1268	1271	1268	1264	1261	1258	-	-
	High	-	1747	1792	1811	1816	1812	1806	1801	1797	-	-

Down Flow		External Static Pressure (in. wg)										
		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	-	948	977	977	970	969	975	979	962	-	-
	High	-	1354	1396	1396	1386	1384	1393	1399	1375	-	-
400 CFM/Ton Setting	Low	-	1102	1106	1109	1113	1116	1119	1120	1118	-	-
	High	-	1574	1580	1585	1589	1594	1599	1601	1597	-	-
450 CFM/Ton Setting	Low	-	1295	1277	1272	1273	1274	1273	1272	1273	-	-
	High	-	1851	1824	1817	1818	1820	1819	1817	1819	-	-

## Indoor Fan Performance 4DCZ6060

Horizontal		External Static Pressure (in. wg)										
		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	1238	1259	1256	1246	1240	1237	1230	-	-
	High	-	1662	1768	1799	1794	1780	1771	1767	1757	-	-
400 CFM/Ton Setting	Low	-	1443	1427	1422	1422	1423	1422	1418	1410	-	-
	High	-	2062	2038	2031	2032	2034	2032	2025	2015	-	-

Down Flow		External Static Pressure (in. wg)										
		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	-	1259	1219	1208	1207	1206	1199	1188	1185	-	-
	High	-	1799	1742	1726	1725	1723	1712	1698	1692	-	-
400 CFM/Ton Setting	Low	-	1410	1393	1386	1384	1383	1380	1368	1344	-	-
	High	-	2015	1990	1980	1977	1976	1971	1955	1920	-	-

# Indoor Blower Performance

4DCZ6036 Auxiliary Heating Airflow, horizontal or downflow from .2 to .6" wg.

Switch Settings		Selection	Nominal Airflow	
			Low Stage	High Stage
7-OFF	8-OFF	A	725	1000
7-ON	8-OFF	B	775	1075
7-OFF	8-ON	C	850	1150
7-ON	8-ON	D	925	1250

4DCZ6048 Auxiliary Heating Airflow, horizontal or downflow from .2 to .6" wg.

Switch Settings		Selection	Nominal Airflow	
			Low Stage	High Stage
7-OFF	8-OFF	A	1075	1375
7-ON	8-OFF	B	1100	1450
7-OFF	8-ON	C	1150	1500
7-ON	8-ON	D	1200	1575

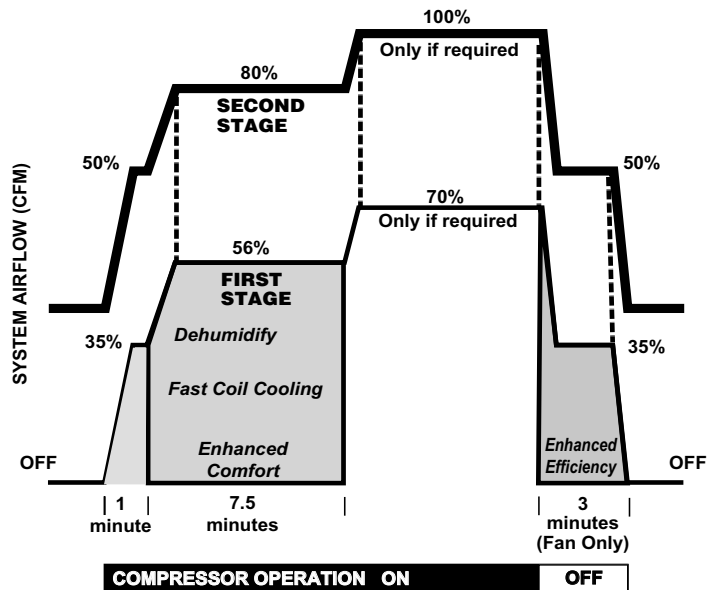
4DCZ6060 Auxiliary Heating Airflow, horizontal or downflow from .2 to .6" wg.

Switch Settings		Selection	Nominal Airflow	
			Low Stage	High Stage
7-OFF	8-OFF	A	1375	1800
7-ON	8-OFF	B	1450	1900

## COOLING FAN DELAY OPTIONS

SWITCH SETTINGS		DELAY	NOMINAL AIRFLOW
5-OFF	6-OFF	NONE	100%
5-ON	6-OFF	45 SEC	100%
5-OFF	6-ON	90 SEC	50%
5-ON	6-ON	**	50-100%

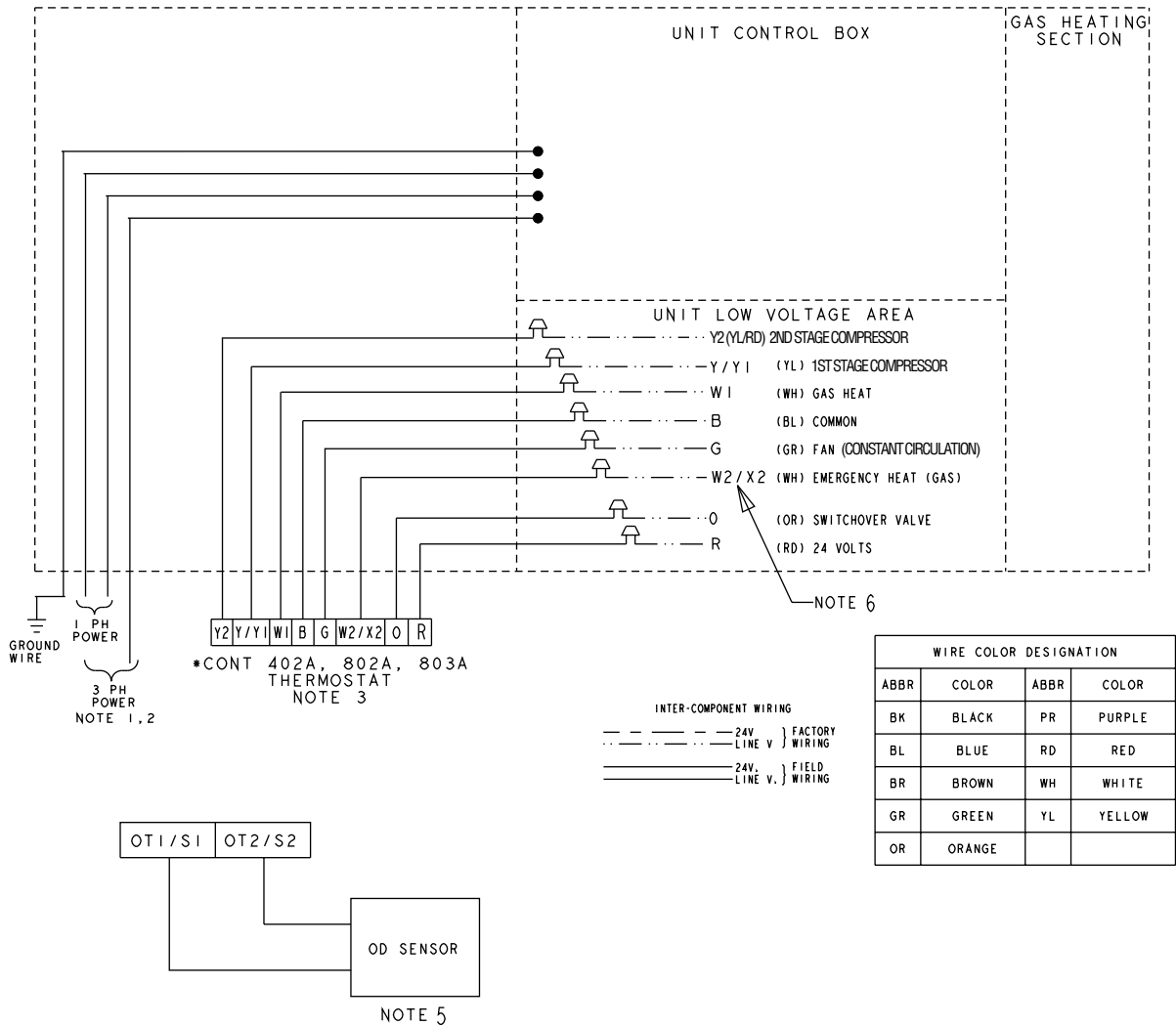
\*\* This ENHANCED MODE selection provides a ramping up and ramping down of the indoor blower speed to provide improved comfort, quietness, and potential energy savings. The Graph below shows the ramping process





# Typical Field Wiring

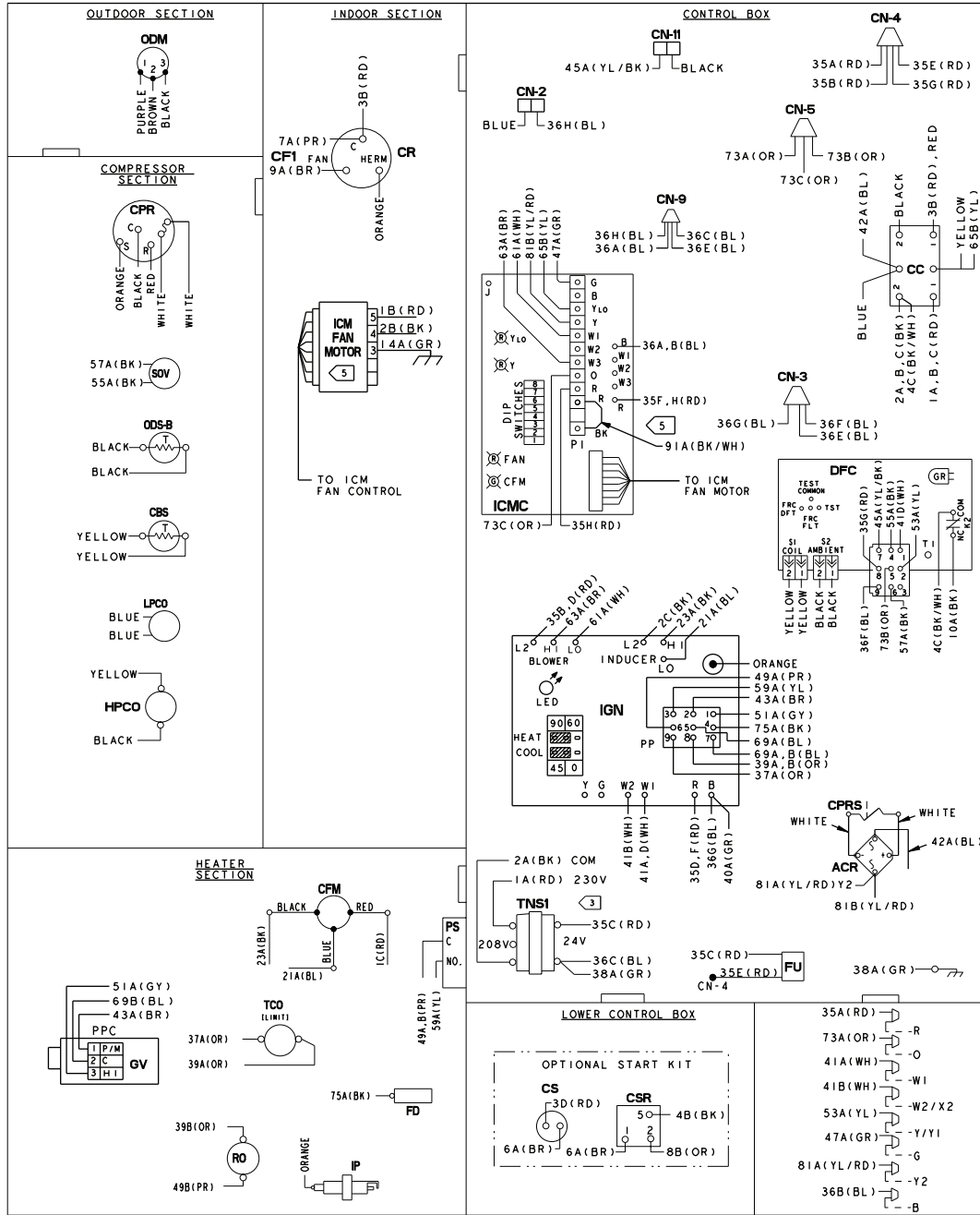
## 4DCZ6 FIELD WIRING DIAGRAM



### NOTES:

1. FUSED DISCONNECT SIZE, POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH CODES.
2. BE SURE POWER SUPPLY AGREES WITH EQUIPMENT NAMEPLATE.
3. LOW VOLTAGE WIRING TO BE 18 AWG MINIMUM CONDUCTOR.
4. SEE UNIT DIAGRAM FOR ELECTRICAL CONNECTION DETAILS.
5. THE OUTDOOR SENSOR SHOULD BE LOCATED IN AN AREA WHICH WILL PROVIDE A REPRESENTATIVE OUTDOOR TEMPERATURE.
6. A FIELD INSTALLED JUMPER WIRE MUST BE PLACED BETWEEN W1 AND W2/X2 AT THE UNIT FOR COMFORT CONTROLS \*CONT 802A AND 803A TO PROPERLY FUNCTION.

# 4DCZ6036-048C1 Wiring diagram



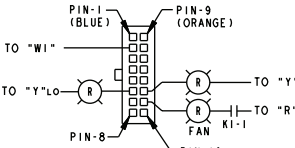
**NOTES:**

- 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. SET THERMOSTAT HEAT ANTICIPATOR TO .3 AMPS. 2. MAXIMUM ADDITIONAL EXTERNAL LOAD (PILOT DUTY) BETWEEN "B" AND "R" OF 0.5 AMPS, 24 VAC IS AVAILABLE IN THE COOLING MODE ONLY.
- FOR 208 VOLT OPERATION MAKE THE FOLLOWING WIRING CHANGES:  
A: AT TNS1 REMOVE (1A RD) WIRE AND CONNECT TO 208V TERMINAL ON TRANSFORMER.
- IF ANY OF THE ORIGINAL WIRE AS SUPPLIED IN THIS UNIT MUST BE REPLACED, REPLACE IT WITH APPLIANCE WIRING MAT'L RATED AT 105° C.
- IF OPTIONAL HUMIDISTAT ACCESSORY IS USED, ON THE ICMC BOARD CUT THE 91A(BK/WH) JUMPER AND CONNECT THE HUMIDISTAT BETWEEN TERMINALS.

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

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

**MODELS**  
4DCZ6036C1  
4DCZ6048C1



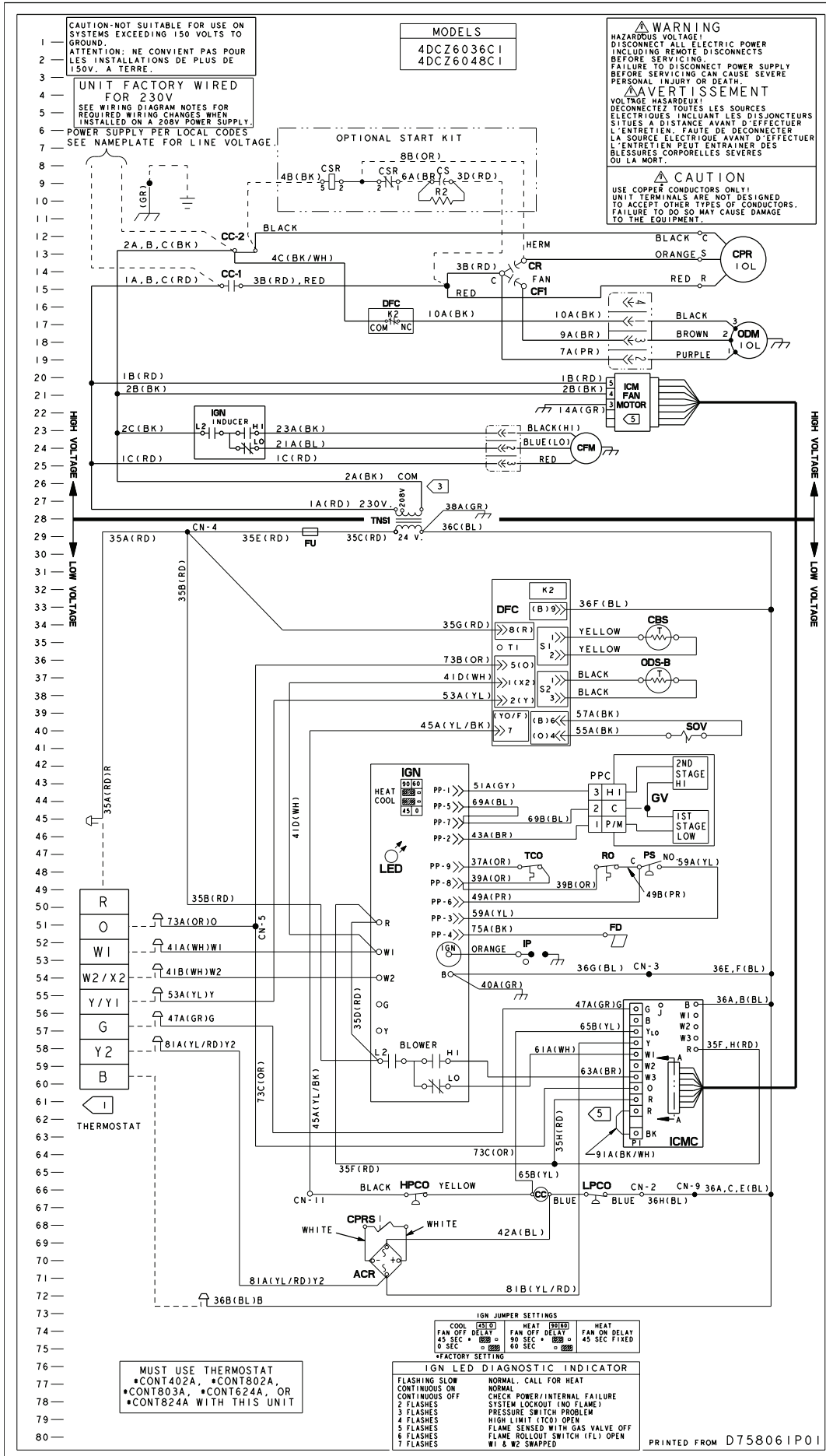
VIEW A-A  
DETAIL OF POLARIZED PLUG CONNECTIONS TO LED LIGHTS

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	400 CFM/TON	**
OFF OFF OFF OFF	400 CFM/TON	450 CFM/TON		
OFF OFF ON OFF	450 CFM/TON			
SW 5 SW 6	FAN OFF-DELAY OPTIONS			
OFF OFF	NONE	NOMINAL		
ON OFF	45 SECONDS	100 ± NOMINAL	**	
OFF ON	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	**		

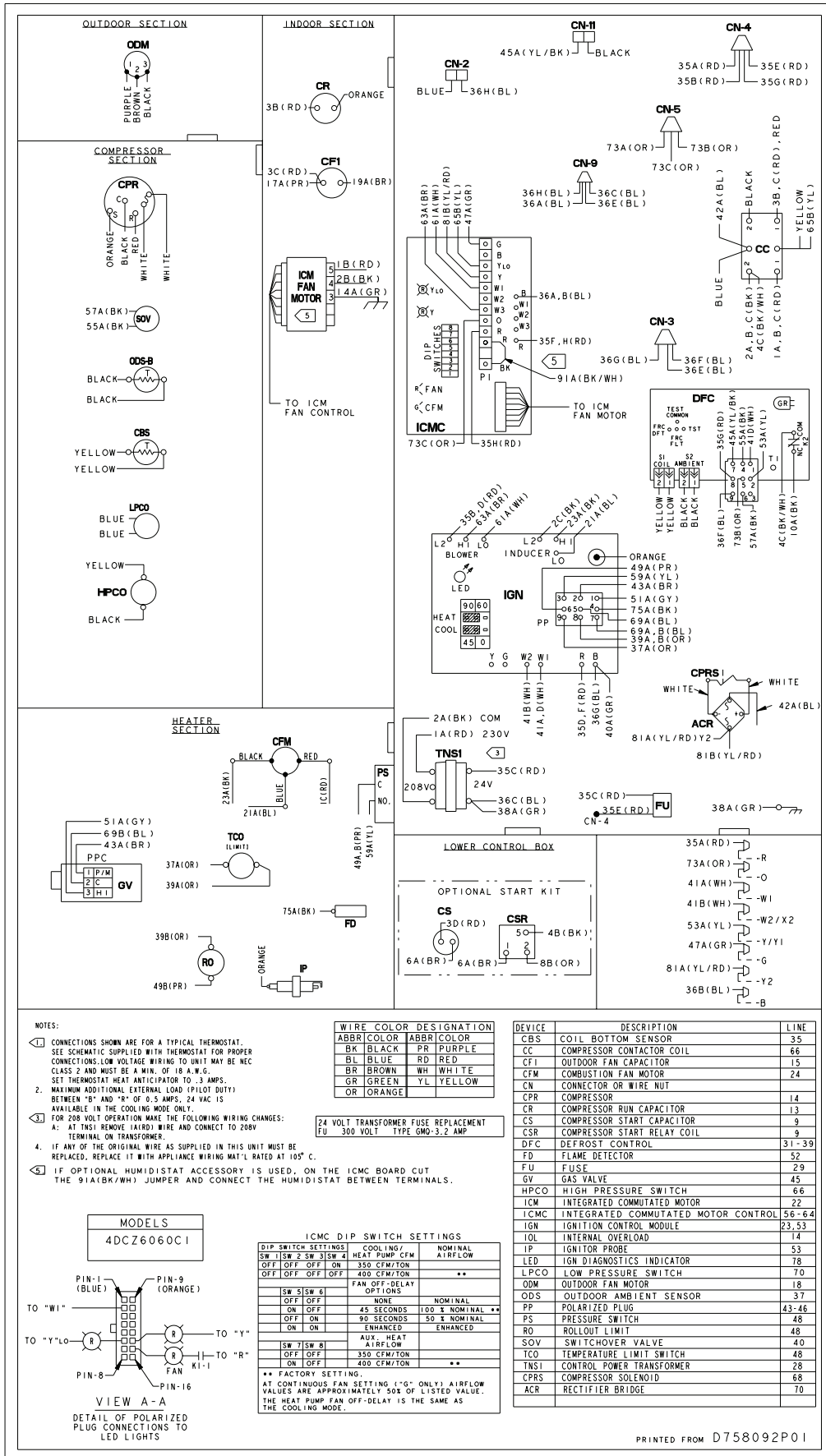
\*\* FACTORY SETTING.  
AT CONTINUOUS FAN SETTING ("G" ONLY) AIRFLOW VALUES ARE APPROXIMATELY 50% OF LISTED VALUE. THE HEAT PUMP FAN OFF-DELAY IS THE SAME AS THE COOLING MODE.

DEVICE	DESCRIPTION	LINE
CBS	COIL BOTTOM SENSOR	35
CC	COMPRESSOR CONTACTOR COIL	66
CF1	OUTDOOR FAN CAPACITOR	15
CFM	COMBUSTION FAN MOTOR	24
CN	CONNECTOR OR WIRE NUT	
CPR	COMPRESSOR	14
CR	COMPRESSOR RUN CAPACITOR	13
CS	COMPRESSOR START CAPACITOR	9
CSR	COMPRESSOR START RELAY COIL	9
DFC	DEFROST CONTROL	31-39
FD	FLAME DETECTOR	52
FU	FUSE	29
GV	GAS VALVE	45
HPCO	HIGH PRESSURE SWITCH	66
ICM	INTEGRATED COMMUTATED MOTOR	22
ICMC	INTEGRATED COMMUTATED MOTOR CONTROL	56-64
IGN	IGNITION CONTROL MODULE	23,53
IOL	INTERNAL OVERLOAD	14
IP	IGNITOR PROBE	53
LED	IGN DIAGNOSTICS INDICATOR	78
LPCO	LOW PRESSURE SWITCH	70
ODM	OUTDOOR FAN MOTOR	18
ODS	OUTDOOR AMBIENT SENSOR	37
PP	POLARIZED PLUG	43-46
PS	PRESSURE SWITCH	28
RO	ROLLOUT LIMIT	48
SOV	SWITCHOVER VALVE	40
TCO	TEMPERATURE LIMIT SWITCH	48
TNS1	CONTROL POWER TRANSFORMER	28
CPRS	COMPRESSOR SOLENOID	68
ACR	RECTIFIER BRIDGE	70

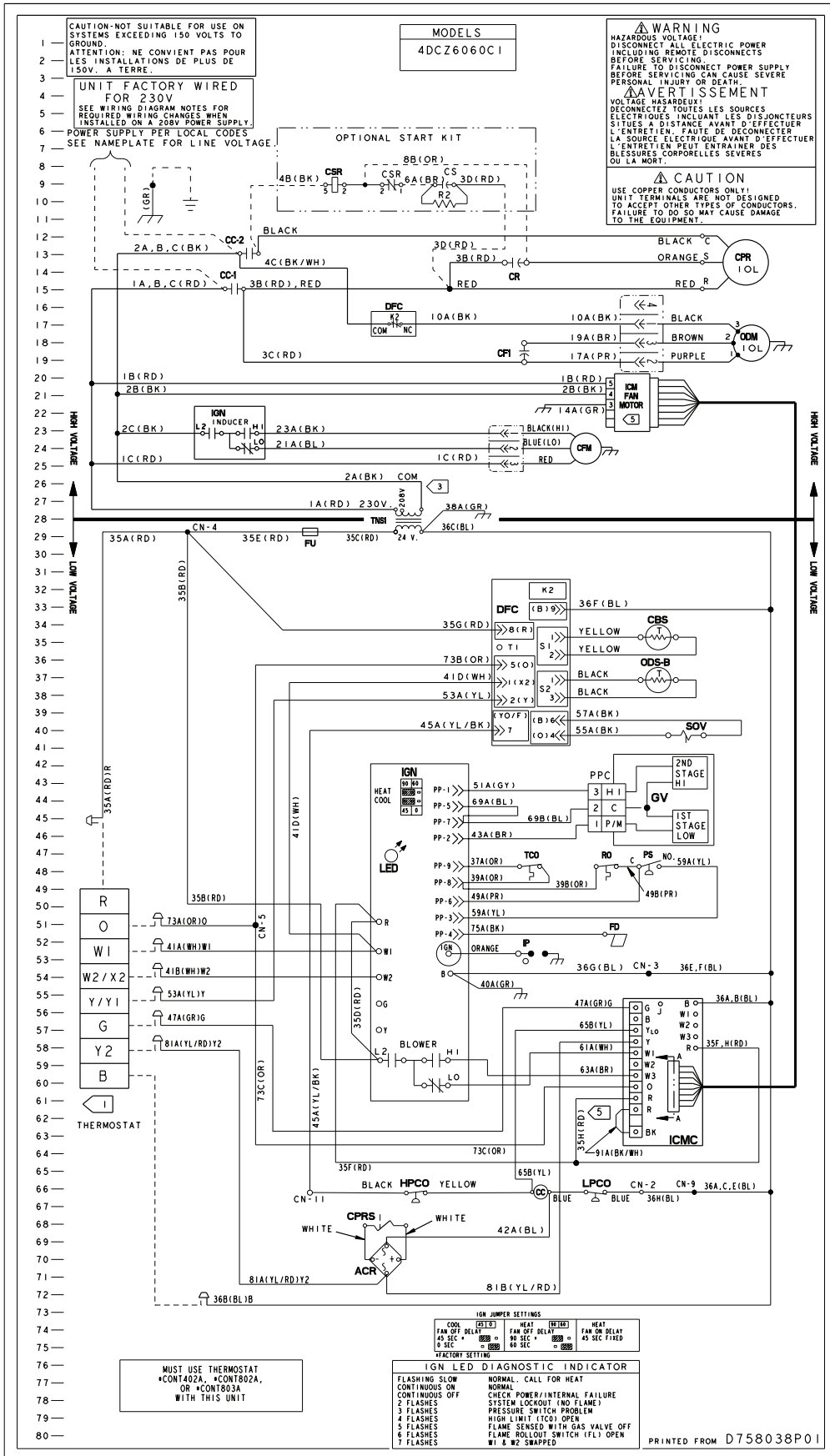
# 4DCZ6036-048C1 Schematic diagram



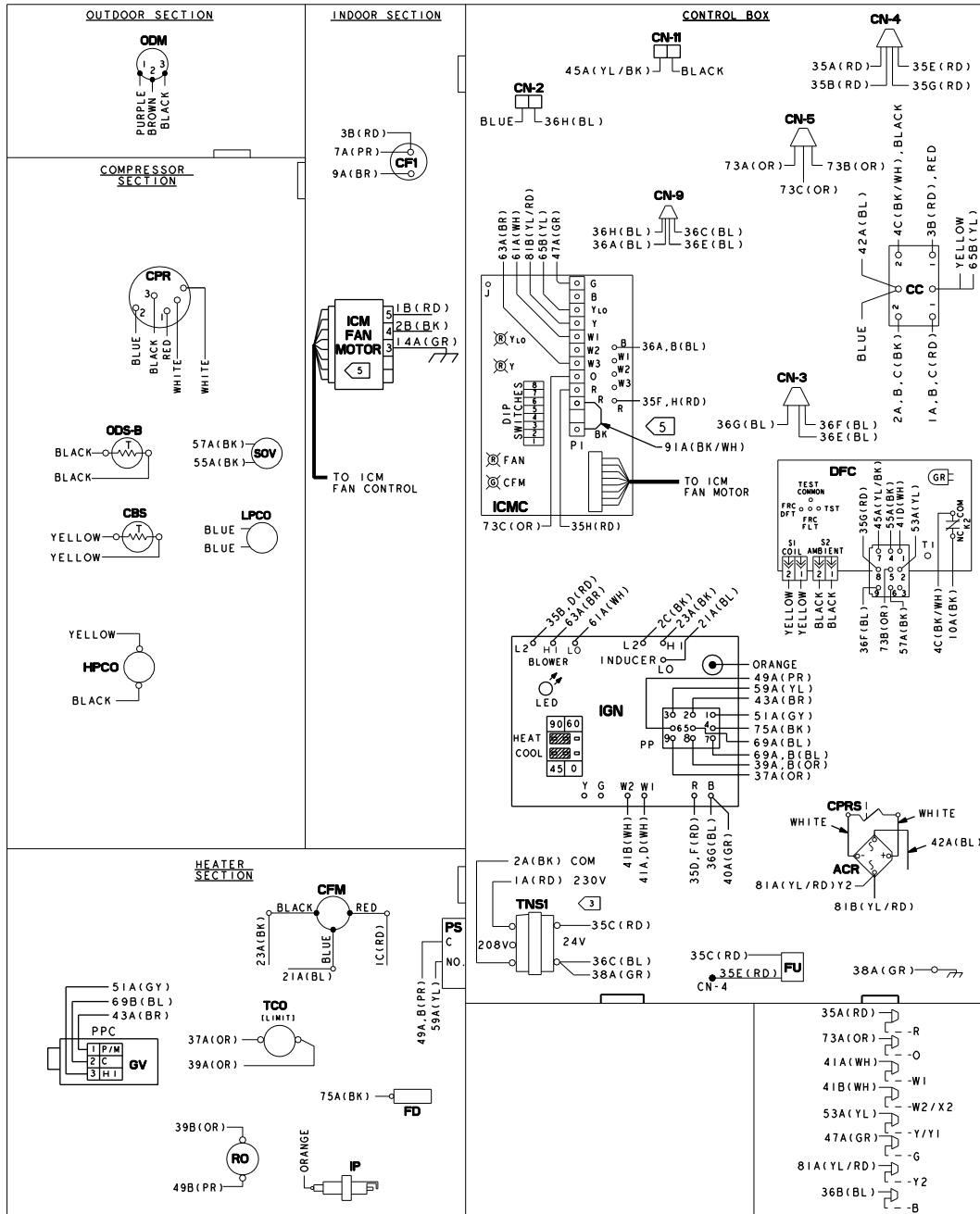
# 4DCZ6060C1 Wiring diagram



# 4DCZ6060C1 Schematic diagram



# 4DCZ6036-060B3 Wiring diagram



**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. SET THERMOSTAT HEAT ANTICIPATOR TO .3 AMPS.
- MAXIMUM ADDITIONAL EXTERNAL LOAD (PILOT DUTY) BETWEEN "B" AND "R" OF 0.5 AMPS, 24 VAC IS AVAILABLE IN THE COOLING MODE ONLY.
- FOR 208 VOLT OPERATION MAKE THE FOLLOWING WIRING CHANGES:  
A: AT TNSI REMOVE 1A(RD) WIRE AND CONNECT TO 208V
- IF ANY OF THE ORIGINAL WIRE AS SUPPLIED IN THIS UNIT MUST BE REPLACED, REPLACE IT WITH APPLIANCE WIRING MAT'L RATED AT 105° C.
- IF OPTIONAL HUMIDISTAT ACCESSORY IS USED, ON THE ICMC BOARD CUT THE 91A(BK/WH) JUMPER AND CONNECT THE HUMIDISTAT BETWEEN TERMINALS.

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

DEVICE	DESCRIPTION	LINE
CBS	COIL BOTTOM SENSOR	35
CC	COMPRESSOR CONTACTOR COIL	66
CF1	OUTDOOR FAN CAPACITOR	15
CFM	COMBUSTION FAN MOTOR	24
CN	CONNECTOR OR WIRE NUT	
CPR	COMPRESSOR	14
DFC	DEFROST CONTROL	31-39
FD	FLAME DETECTOR	52
FU	FUSE	29
GV	GAS VALVE	45
HPCO	HIGH PRESSURE SWITCH	66
ICM	INTEGRATED COMMUTATED MOTOR	22
ICMC	INTEGRATED COMMUTATED MOTOR CONTROL	56-64
IGN	IGNITION CONTROL MODULE	23, 53
IOL	INTERNAL OVERLOAD	14
IP	IGNITOR PROBE	53
LED	IGN DIAGNOSTICS INDICATOR	78
LPCO	LOW PRESSURE SWITCH	70
ODM	OUTDOOR FAN MOTOR	18
ODS	OUTDOOR AMBIENT SENSOR	37
PP	POLARIZED PLUG	43-46
PS	PRESSURE SWITCH	48
RO	ROLLOUT LIMIT	48
SOV	SWITCHOVER VALVE	40
TCO	TEMPERATURE LIMIT SWITCH	48
TNSI	CONTROL POWER TRANSFORMER	28
CPRS	COMPRESSOR SOLENOID	68
ACR	RECTIFIER BRIDGE	70

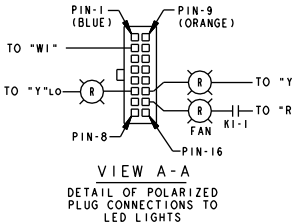
**MODELS**  
4DCZ6036B3  
4DCZ6048B3  
4DCZ6060B3

**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	350 CFM/TON	
OFF OFF OFF OFF	400 CFM/TON	**
OFF OFF ON OFF	450 CFM/TON	
SW 5 SW 6	FAN OFF-DELAY OPT IONS	
ON OFF	NONE	NOMINAL
OFF ON	45 SECONDS	100 ± NOMINAL **
ON ON	90 SECONDS	50 ± NOMINAL
SW 7 SW 8	ELECTRIC HEAT AIRFLOW ENHANCED	
OFF OFF	350 CFM/TON	
ON OFF	400 CFM/TON	**

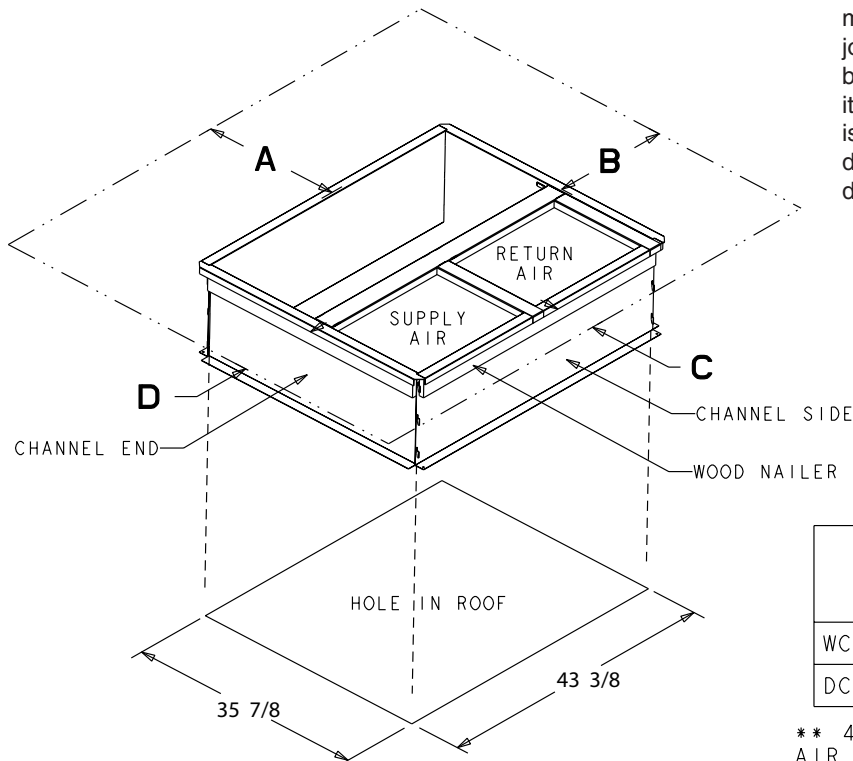
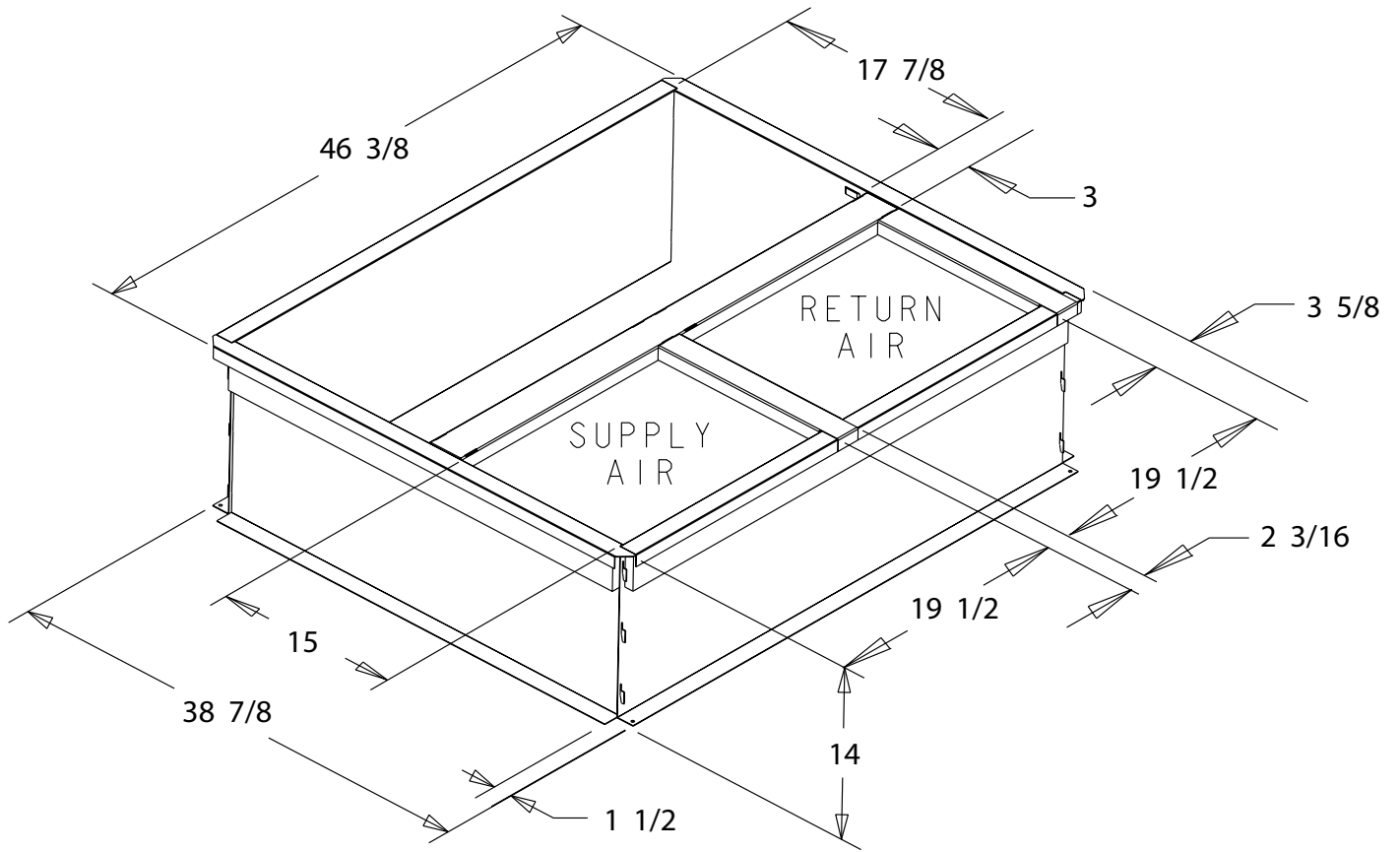
\*\* FACTORY SETTING.  
AT CONTINUOUS FAN SETTING ("G" ONLY) AIRFLOW VALUES ARE APPROXIMATELY 50% OF LISTED VALUE. THE HEAT PUMP FAN OFF-DELAY IS THE SAME AS THE COOLING MODE.





# Optional Equipment

## BAYCURB050A FULL PERIMETER ROOF MOUNTING CURB FOR \*\*\*\*\*018-036



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.

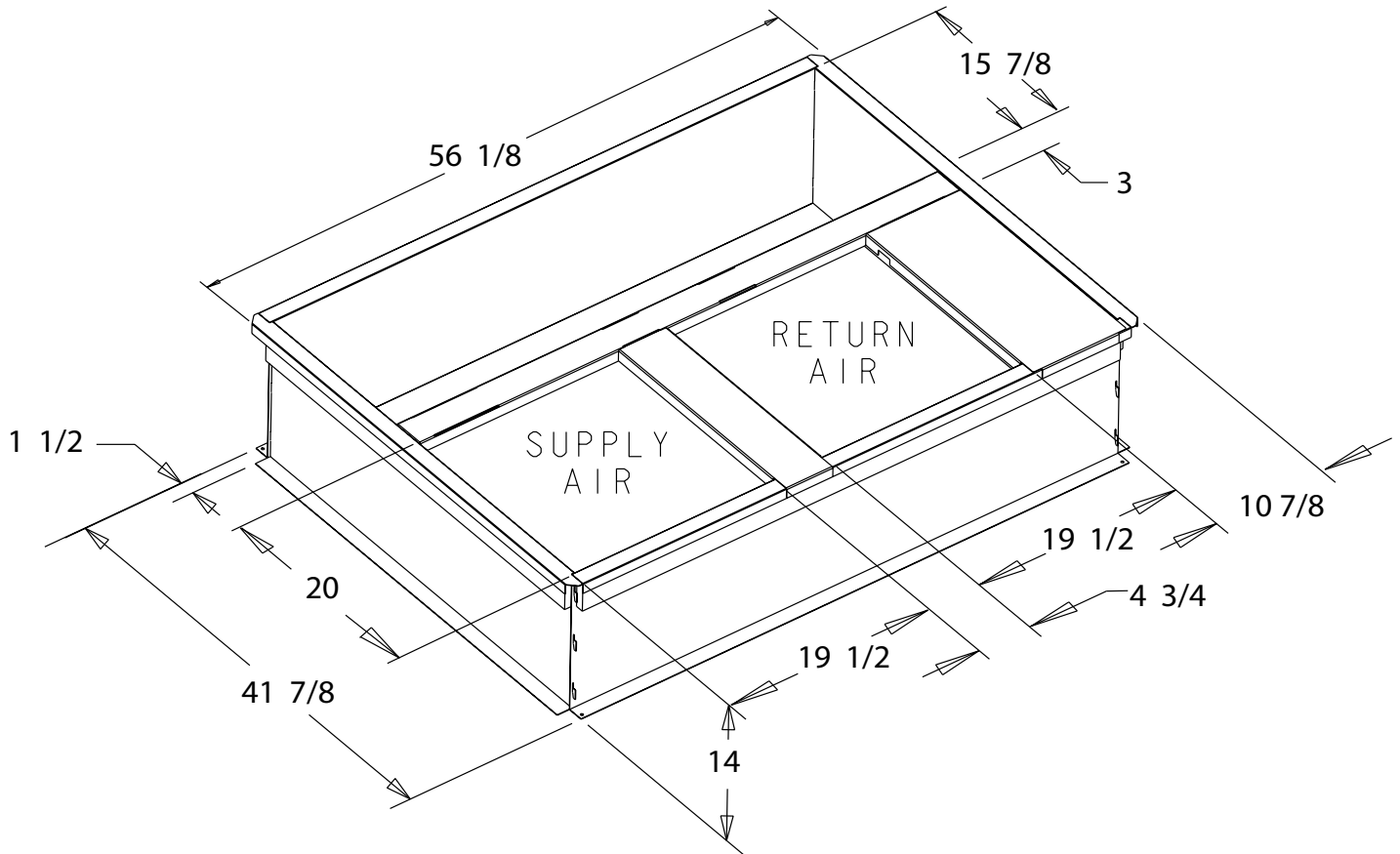
	SERVICE CLEARANCE DIMENSIONS			
	A	B	C	D
WC*/TC*	42.00	36.00	12.00**	24.00
DC*/YC*	42.00	36.00	12.00**	36.00

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

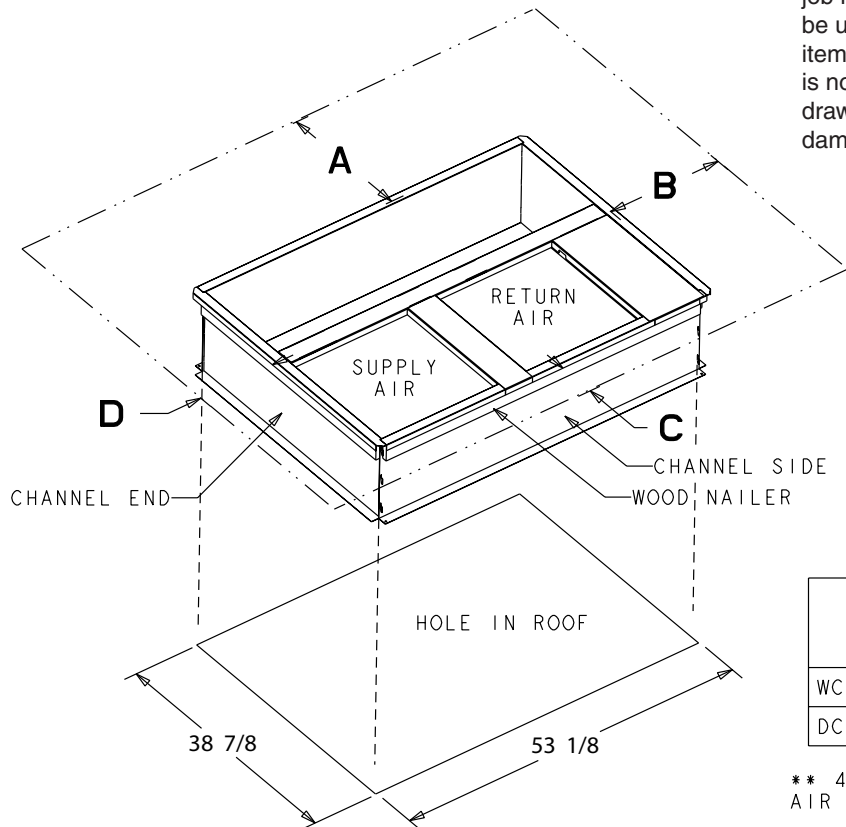


# Optional Equipment

## BAYCURB051A Full Perimeter Roof Mounting Curb for \*\*\*\*\*042-060



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.

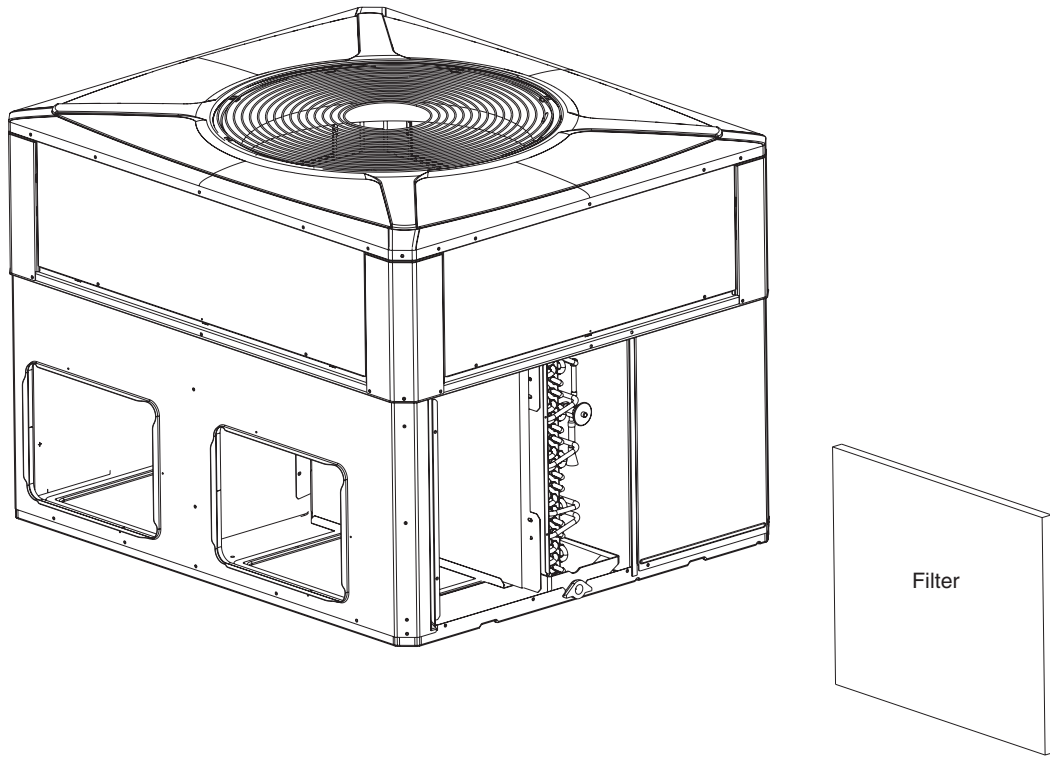


	SERVICE CLEARANCE DIMENSIONS			
	A	B	C	D
WC*/TC*	42.00	36.00	12.00**	24.00
DC*/YC*	42.00	36.00	12.00**	36.00

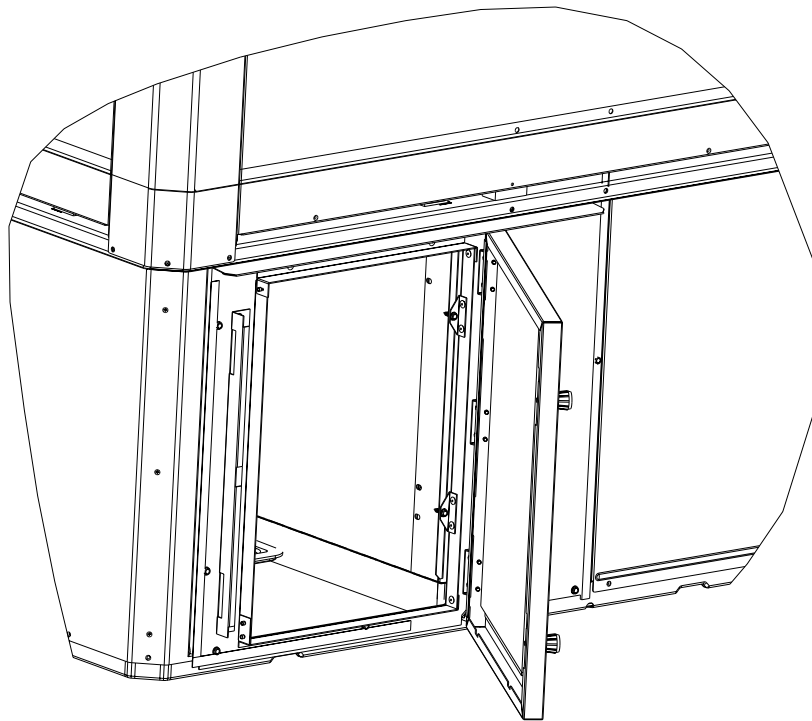
\*\* 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

# Optional Equipment

## BAYFLTR101, 201B, 1" - 2" Filter Rack (Mounts in Filter/Coil Section)



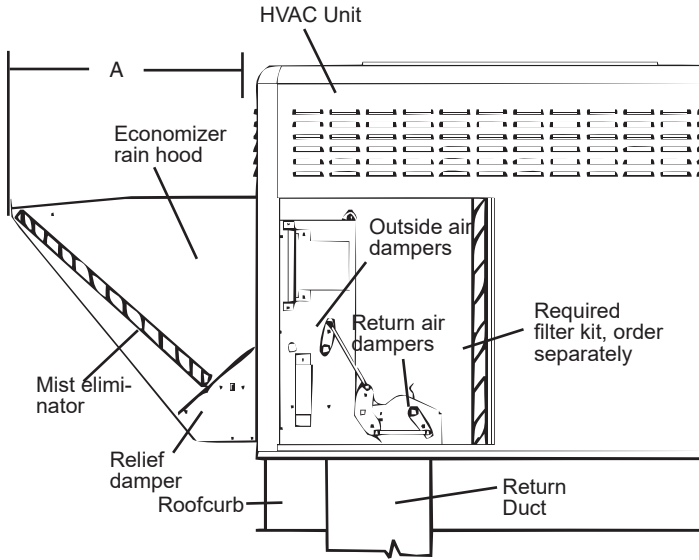
## BAYACCDOR1A & BAYACCDOR2A Hinged Filter Access Door Replaces Filter/Coil Access Panel



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.

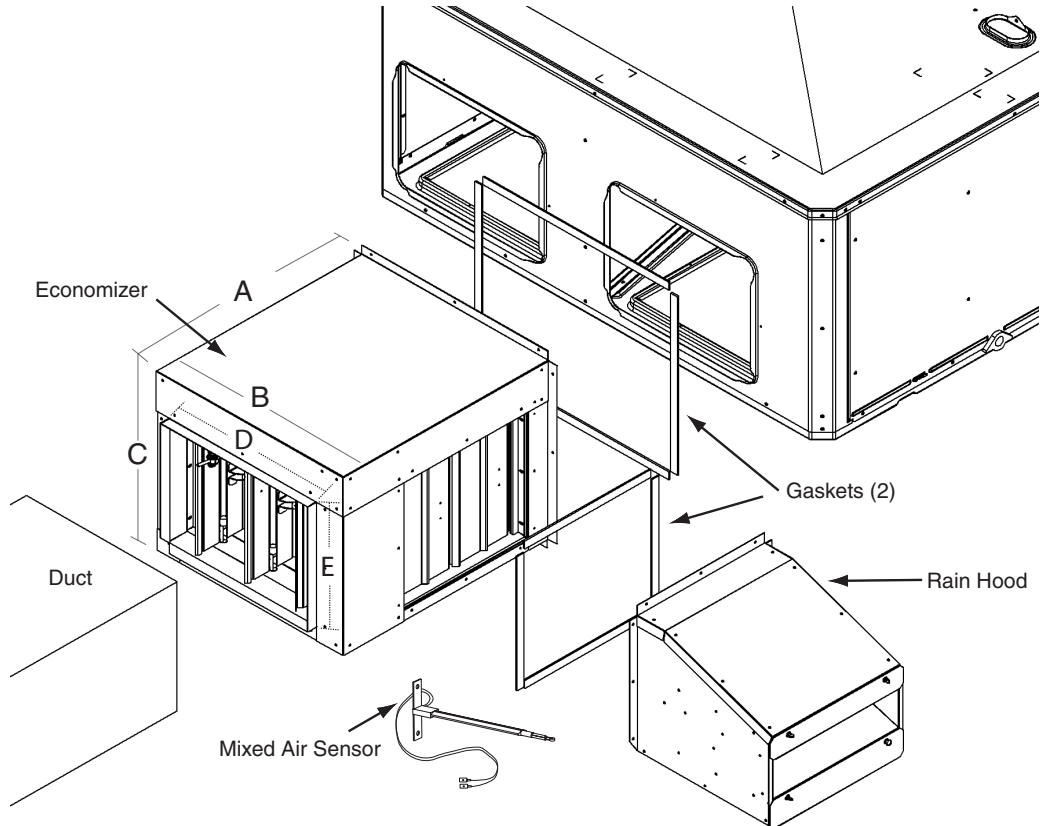
# Optional Equipment

## BAYECON103,104A Down Discharge Economizer and Rain Hood (Mounts Over Horizontal Return Air Opening)



Economizer	Models	A
BAYECON103A	4WCZ6036 4DCZ6036 4YCZ6036	20 1/8"
BAYECON104A	4WCZ6048-060 4DCZ6048-060 4YCZ6048-060	24 3/8"

## BAYECON203,204A Horizontal Economizer and Rain Hood



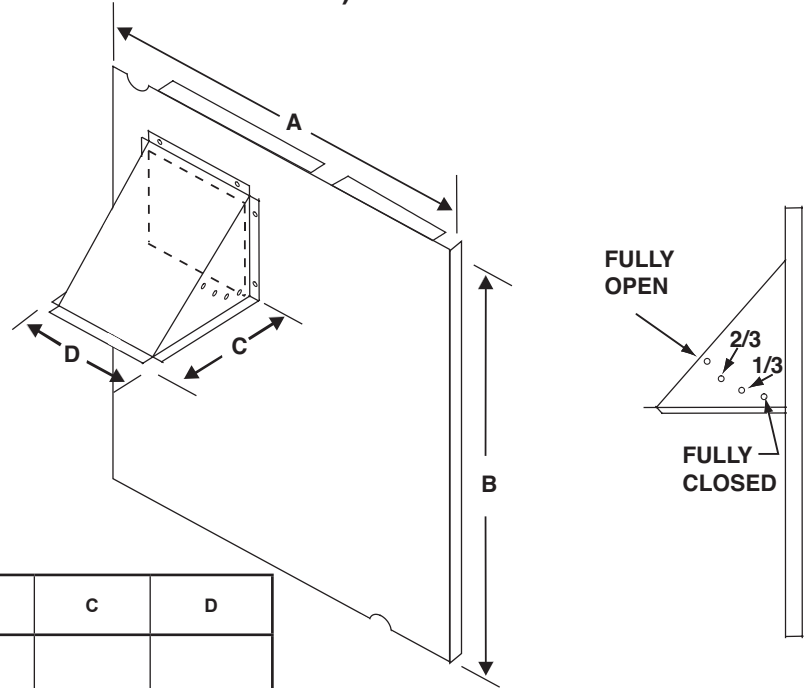
The drawings on this page are prepared by the manufacturer in order to provide detail regarding job layout only. These drawings are not intended to be used as a basis to construct, build or modify the items depicted in the drawings. The manufacturer is not responsible for the unauthorized use of these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

Economizer	A	B	C	D	E	F
BAYECON203AA	22"	20"	16 7/8"	15 11/16"	11 11/16"	15"
BAYECON204AA	26"	22 21/32"	19"	17 11/16"	14 11/16"	21-3/8"

# Optional Equipment

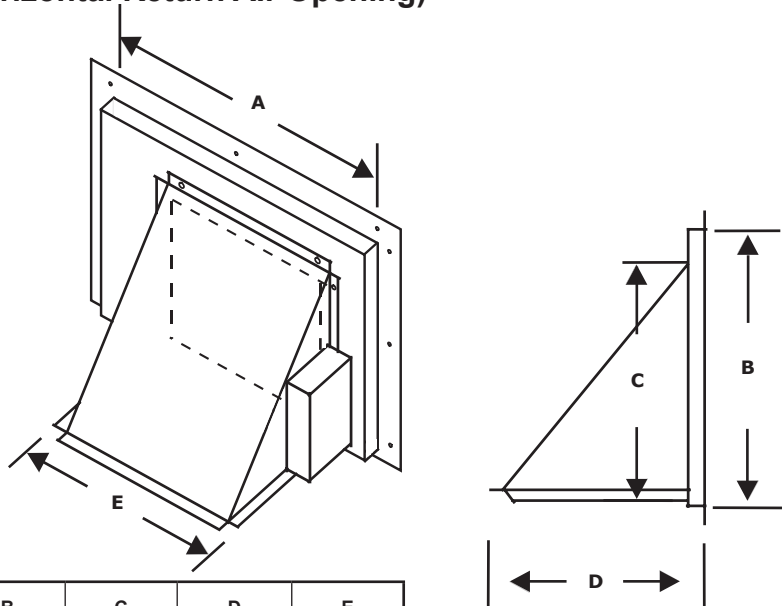
## BAYOSAH001,002A, 25% Outside Air Damper (Replaces Filter/Coil Access Panel)

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.



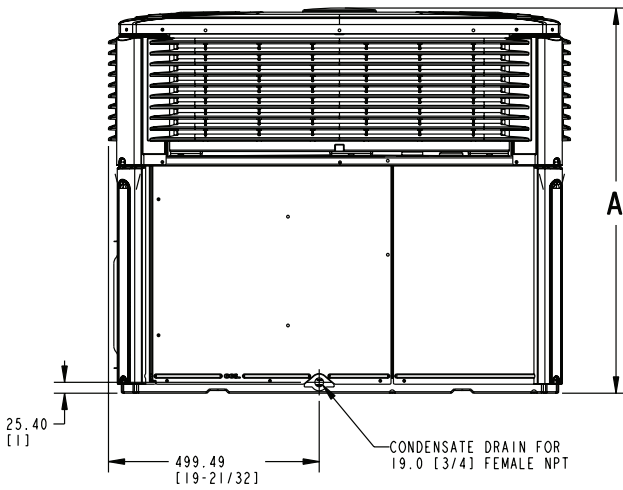
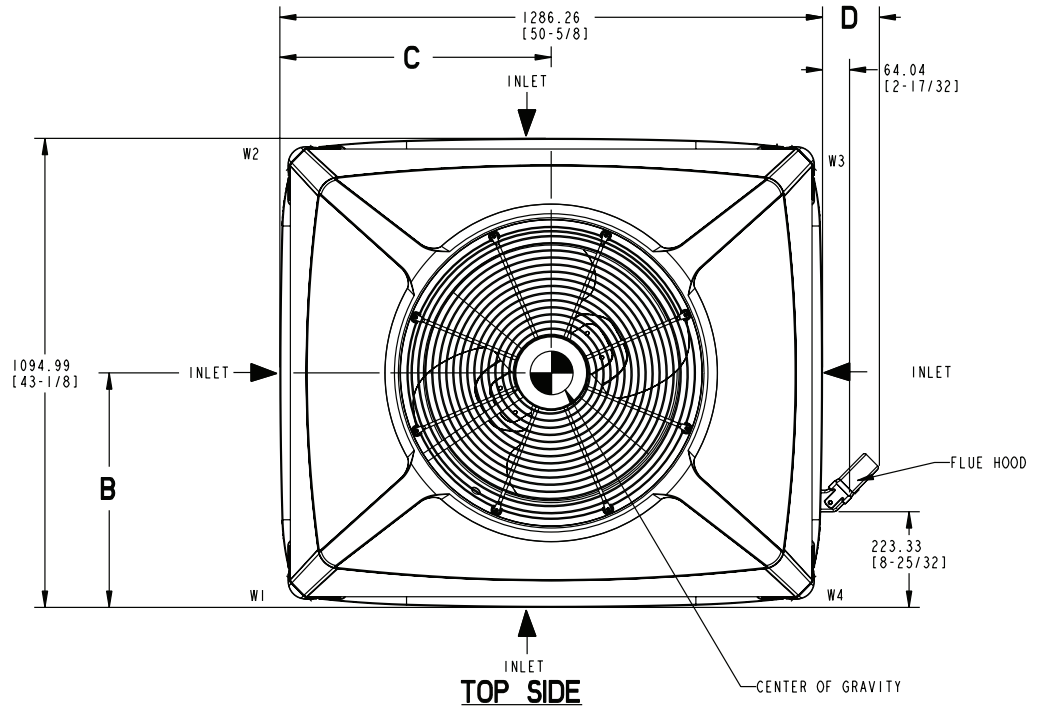
Manual Fresh Air Model	Unit Application Models	A	B	C	D
BAYOSAH001	4YC,WC3018-036	22 7/16"	20 11/16"	12 3/8"	9 3/16"
	4TC*3018-036				
	4W/T/Y/DCY4024-036				
	4W/Y/DCZ6036				
BAYOSAH002	4YC,WC3042-060	25 3/16"	20 11/16"	12 3/8"	9 3/16"
	4TC*3042-060				
	4W/T/Y/DCY4042-060				
	4W/Y/DCZ6048-060				

## BAYDMPR101,102A, 25% Motorized Outside Air Damper (Mounts Over Horizontal Return Air Opening)

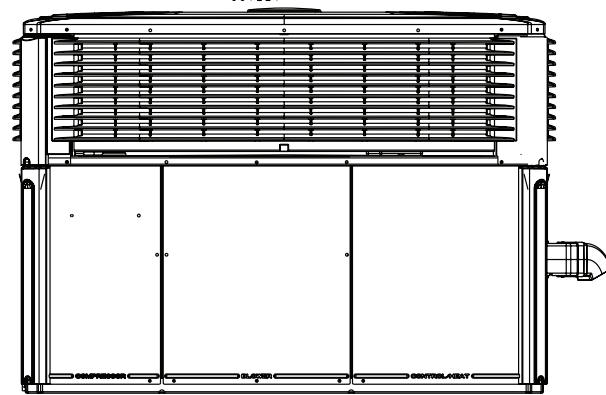


	Unit Application Models	A	B	C	D	E
BAYDMPR101A	4YC,WC3018-036	15 13/16"	11 13/16"	10 1/4"	11 1/2"	12 1/4"
	4TC3018-036					
	4W/T/Y/DCY4024-036					
	4W/Y/DCZ6036					
BAYDMPR102A	4YC,WC3042-060	18 3/16"	15 1/8"	10 1/4"	11 1/2"	12 1/4"
	4TC3042-060					
	4W/T/Y/DCY4042-060					
	4W/Y/DCZ6048-060					

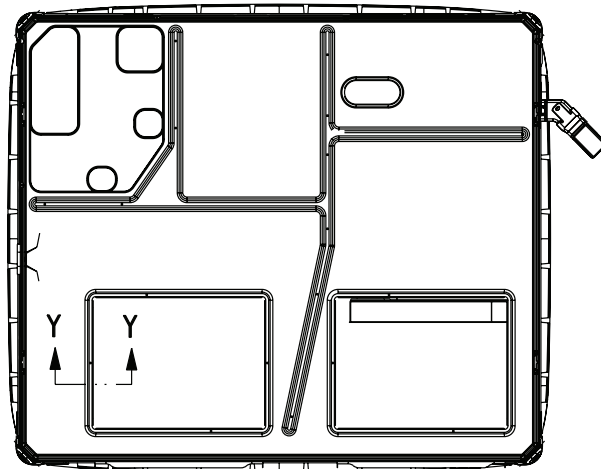
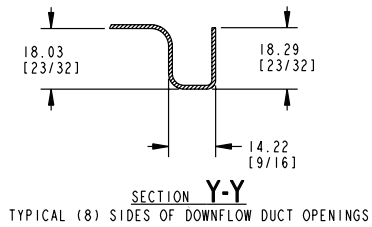
# Dimensional Data



**LEFT SIDE**



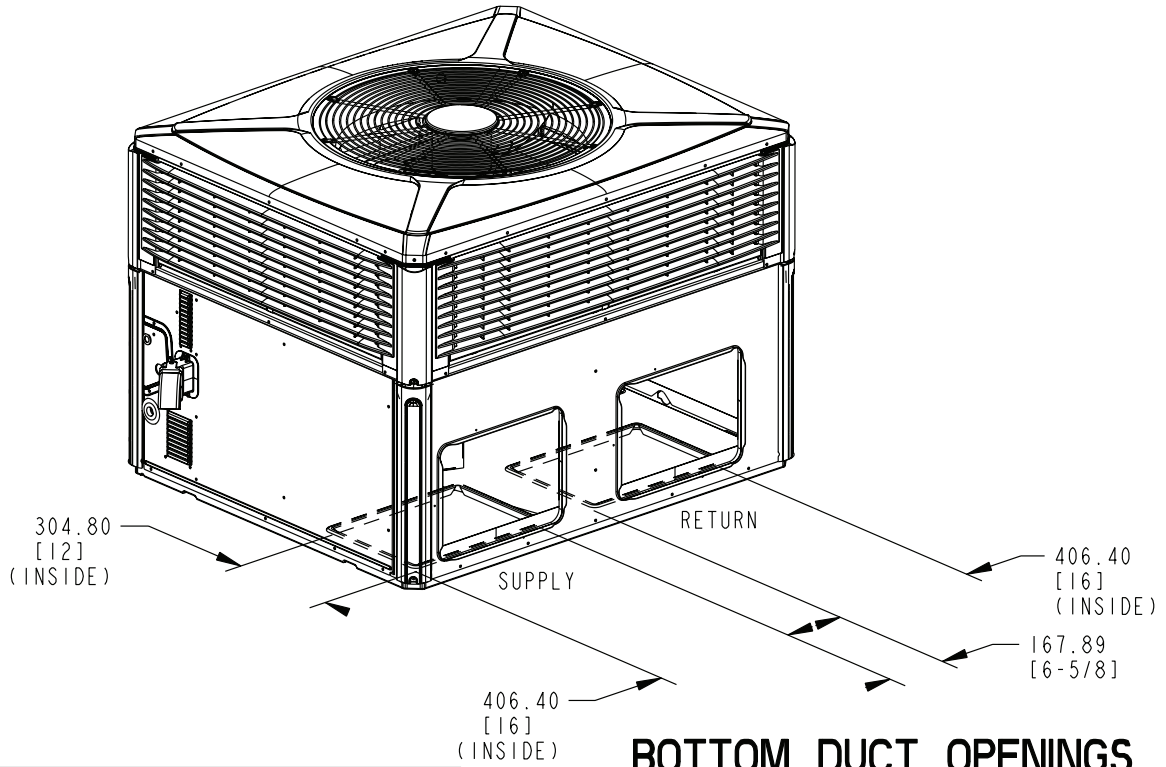
**FRONT SIDE**



**BOTTOM SIDE**

4DCZ6036 (1 of 3)

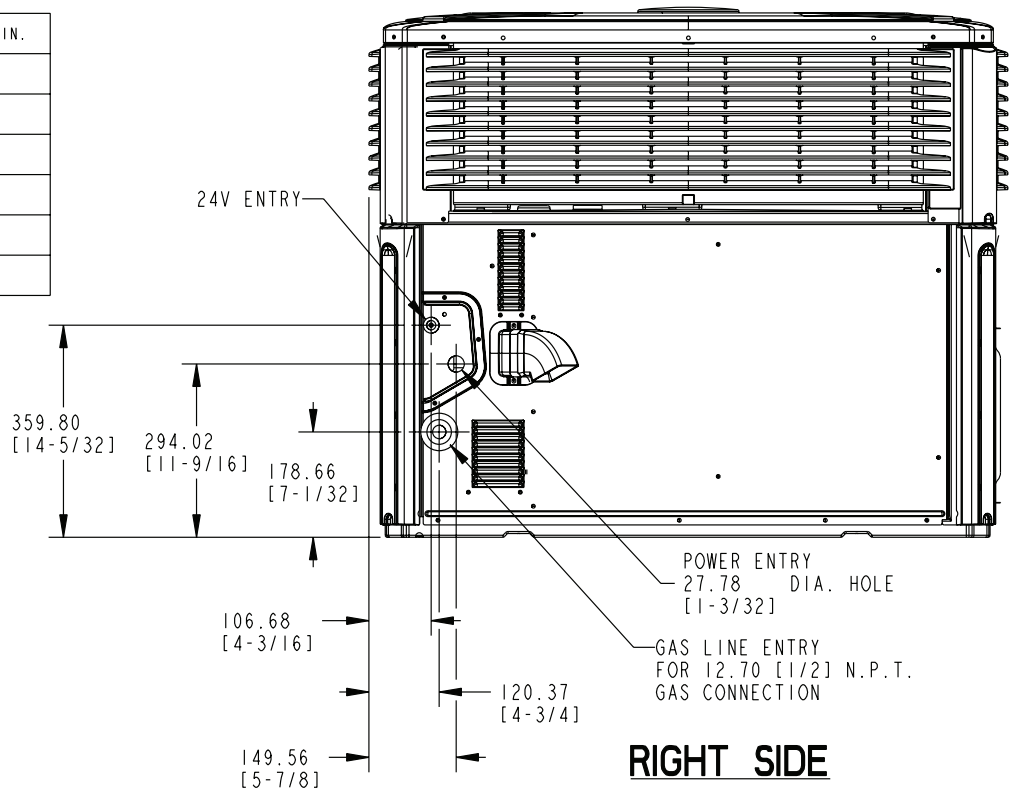
# Dimensional Data



## BOTTOM DUCT OPENINGS

RECOMMENDED SERVICE CLEARANCE MM/IN.		
		WITH ECONOMIZER
BACK SIDE	304.8 [12]	762.0 [30]
LEFT SIDE	762.0 [30]	914.4 [36]
RIGHT SIDE	914.4 [36]	-
FRONT SIDE	1066.8 [42]	-

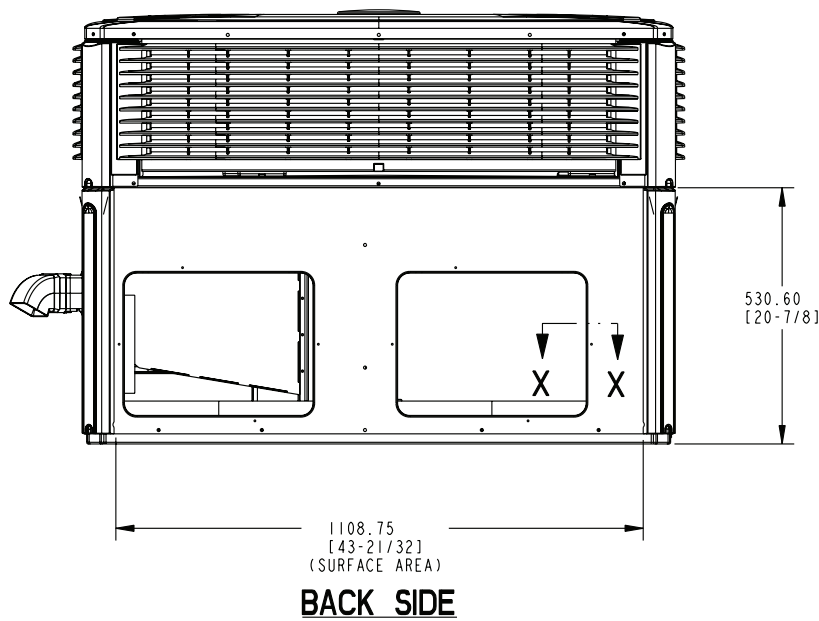
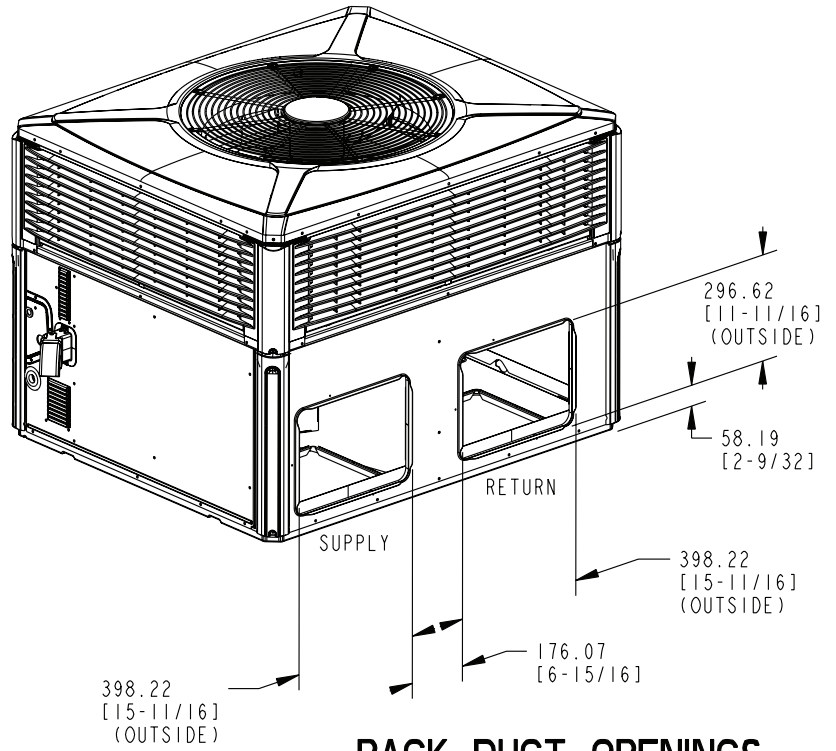
CLEARANCE TO COMBUSTIBLE MATERIAL MM/IN.	
BOTTOM	0
BACK SIDE	25.4 [1]
LEFT SIDE	152.4 [6]
RIGHT SIDE	304.8 [12]
FRONT SIDE	304.8 [12]
TOP	914.4 [36]



## RIGHT SIDE

4DCZ6036 (2 of 3)

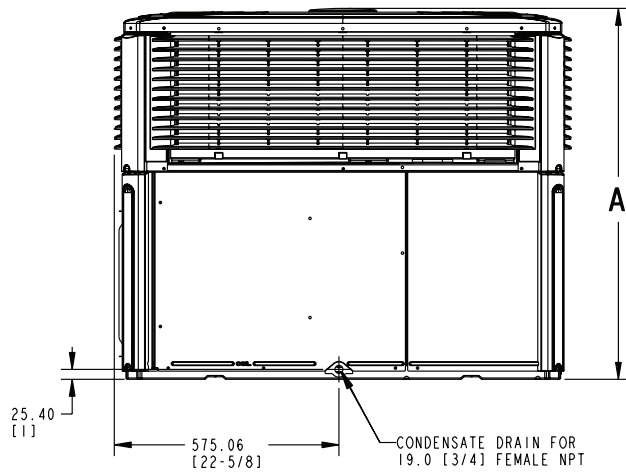
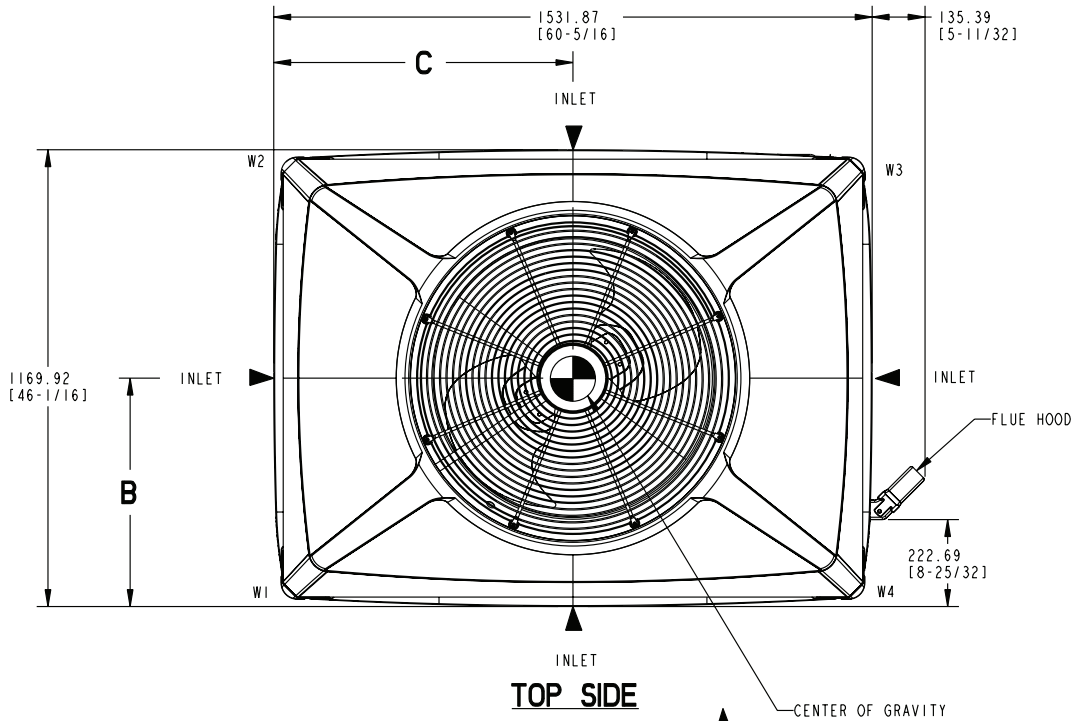
# Dimensional Data



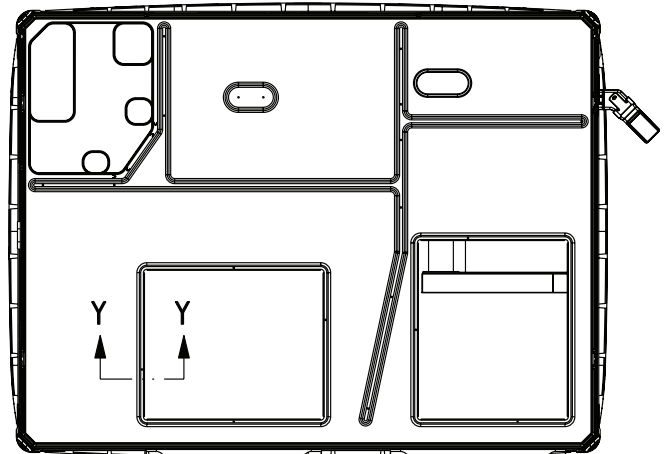
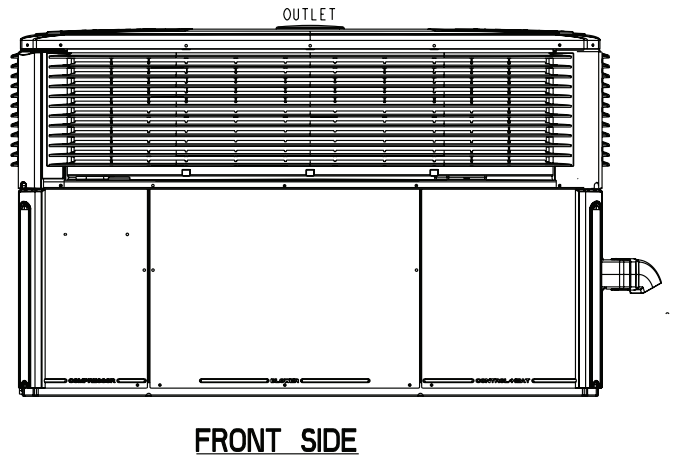
MODEL	HEIGHT MM/IN.	FLUE HOOD W/BRKT MM/IN.	APPROX. CORNER WEIGHT - KG/LBS				SHIPPING WEIGHT KG/LBS	TOTAL UNIT WEIGHT KG/LBS	CENTER OF GRAVITY MM/IN.	
	A		D	W1	W2	W3			W4	B
4CY4024 (060)	903.29 [35-9/16]	-	59.0 [130]	37.2 [82]	31.3 [69]	48.5 [107]	218.4 (481)	174.8 [385]	401.3 [15.8]	546.1 [21.5]
4CY4030 (070)										
4CY4036/4YC6036 (070)	949.99 [37-3/8]	117.86 [4-5/8]	60.3 [133]	36.3 [80]	30.4 [67]	50.3 [111]	221.6 (488)	178.0 [392]	388.6 [15.3]	558.8 [22.0]
4CY4036/4YC6036 (090)			61.2 [135]	36.7 [81]	30.8 [68]	51.3 [113]	223.8 (493)	180.1 [397]	388.6 [15.3]	558.8 [22.0]
4DCY4024 (060)	903.29 [35-9/16]	-	60.8 [134]	38.1 [84]	31.3 [69]	48.5 [107]	218.4 (481)	174.8 [385]	398.8 [15.7]	546.1 [21.5]
4DCY4030 (070)										
4DCY4036/4DC6036 (070)	949.99 [37-3/8]	117.86 [4-5/8]	62.1 [137]	37.2 [82]	30.4 [67]	50.3 [111]	221.6 (488)	178.0 [392]	386.1 [15.2]	558.8 [22.0]

4DCZ6036 (3 of 3)

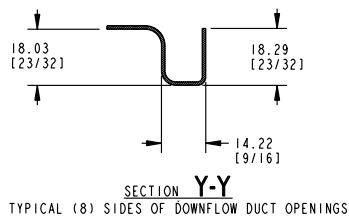
# Dimensional Data



LEFT SIDE



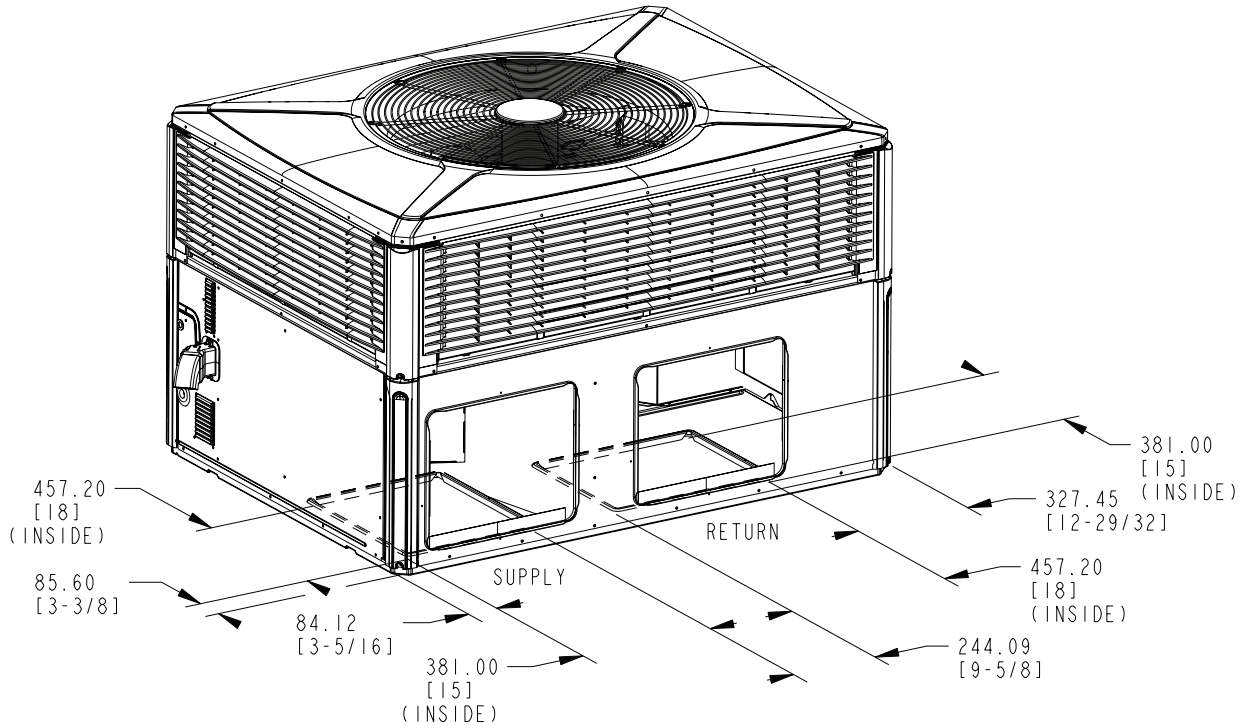
BOTTOM SIDE



4DCZ6048A through 4DCZ6060B (1 of 3)



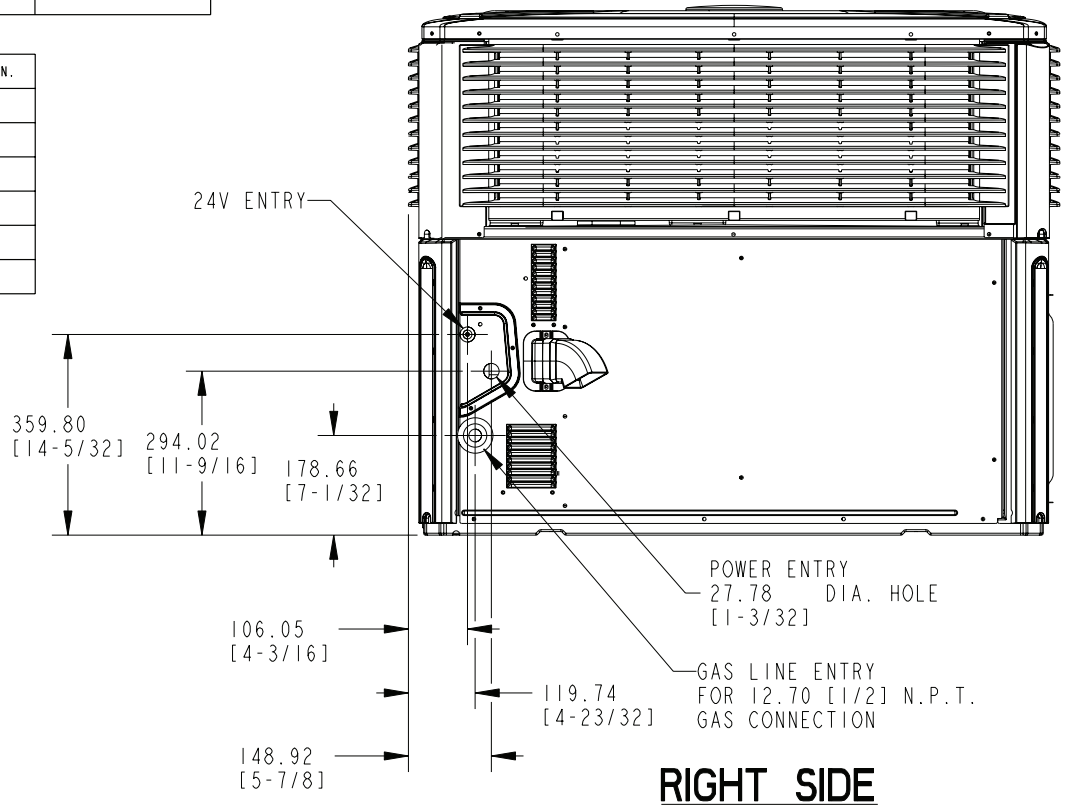
# Dimensional Data



## BOTTOM DUCT OPENINGS

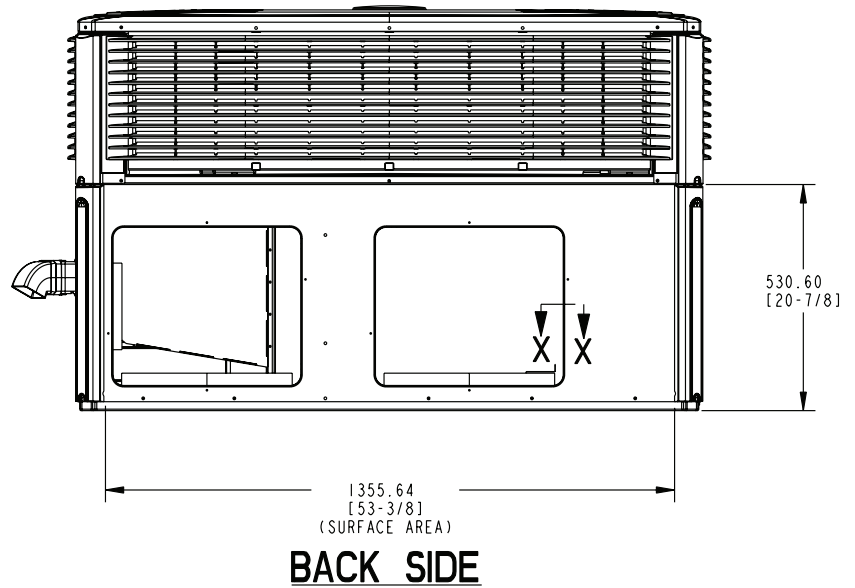
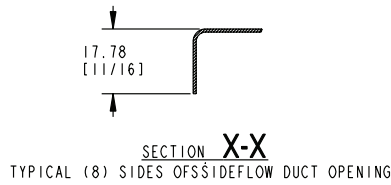
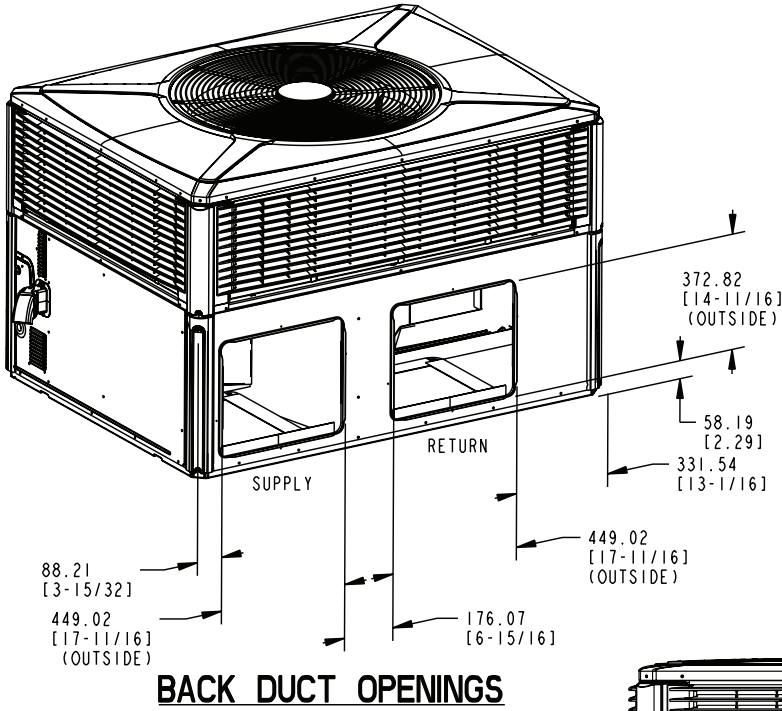
RECOMMENDED SERVICE CLEARANCE MM/IN.		
		WITH O.A. DAMPER/ECON.
BACK SIDE	304.8 [12]	762.0 [30]
LEFT SIDE	914.4 [36]	1066.8 [42]
RIGHT SIDE	914.4 [36]	-
FRONT SIDE	1066.8 [42]	-

CLEARANCE TO COMBUSTIBLE MATERIAL MM/IN.	
BOTTOM	0
BACK SIDE	25.4 [1]
LEFT SIDE	152.4 [6]
RIGHT SIDE	304.8 [12]
FRONT SIDE	304.8 [12]
TOP	914.4 [36]



4DCZ6048A through 4DCZ6060B (2 of 3)

# Dimensional Data



MODEL	HEIGHT MM/IN.	APPROX. CORNER WEIGHT - KG/LBS				SHIPPING WEIGHT KG/LBS	TOTAL UNIT WEIGHT KG/LBS	CENTER OF GRAVITY MM/IN.	
	A	W1	W2	W3	W4			B	C
4YCY4042C (090)	949.33 [37-3/8]	75.3 [166]	50.3 [111]	45.4 [100]	67.6 [149]	296.5 [653]	238.1 [525]	444.5 [17.5]	698.5 [27.5]
4YCY4048C (090)	949.33 [37-3/8]	77.1 [170]	52.2 [115]	47.2 [104]	69.4 [153]	303.4 [669]	245.9 [541]	444.5 [17.5]	698.5 [27.5]
4YCY4048C (115)	949.33 [37-3/8]	77.1 [170]	52.2 [115]	47.2 [104]	69.4 [153]	303.4 [669]	245.9 [541]	444.5 [17.5]	698.5 [27.5]
4YCY4060C (115)	1050.93 [41-3/8]	82.1 [181]	46.3 [102]	43.1 [95]	76.7 [169]	306.9 [676]	248.6 [548]	401.3 [15.8]	711.2 [28.0]
4DCY4042C (090)	949.33 [37-3/8]	77.1 [170]	51.3 [113]	45.4 [100]	67.6 [149]	296.5 [653]	238.4 [525]	442.0 [17.4]	698.5 [27.5]
4DCY4048C (090)	949.33 [37-3/8]	78.9 [174]	53.0 [117]	47.2 [104]	69.4 [153]	306.6 [676]	248.5 [548]	442.0 [17.4]	698.5 [27.5]
4DCY4060C (115)	1050.93 [41-3/8]	83.9 [185]	47.2 [104]	43.1 [95]	76.7 [169]	306.9 [676]	248.8 [548]	398.8 [15.7]	711.2 [28.0]
4YCY6048C (090)	1050.93 [41-3/8]	75.7 [167]	50.8 [112]	45.8 [101]	68.5 [151]	299.2 [659]	240.9 [531]	444.5 [17.5]	698.5 [27.5]
4YCY6048C (115)		81.6 [180]	46.3 [102]	42.2 [93]	73.5 [162]	301.6 [665]	243.6 [537]	419.1 [16.5]	706.1 [27.8]
4YCY6060C (115)	1050.93 [41-3/8]	82.1 [181]	46.3 [102]	43.1 [95]	76.7 [169]	306.9 [676]	248.6 [548]	401.3 [15.8]	711.2 [28.0]
4DCY6048C (090)	1050.93 [41-3/8]	81.6 [180]	46.3 [102]	42.2 [93]	73.5 [162]	301.6 [665]	243.6 [537]	419.1 [16.5]	706.1 [27.8]
4DCY6060C (115)	1050.93 [41-3/8]	83.9 [185]	47.2 [104]	43.1 [95]	75.7 [169]	306.9 [676]	248.8 [548]	398.8 [15.7]	711.2 [28.0]

# Mechanical Specifications

## General

All units shall be factory assembled, piped, internally wired and fully charged with refrigerant. All units shall be designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities shall be rated in accordance with A.H.R.I. standards. The unit design is certified to UL Standard 1995 and ANSI 221.47/CSA 2.3, specifically for outdoor applications using natural gas or propane. All units shall be designed for outdoor rooftop or ground level installation. Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint.

**Shipped for horizontal application, convertible to downflow.**

## Casings

All panels shall be heavy gauge steel, gasketed and insulated. Foil-faced insulation shall be in the heat exchanger section. Foil-faced insulation shall be in the evaporator section. Base pan shall be heavy gauge steel. **WEATHERGUARD™** exterior corrosion resistant screws shall be used for added resistance to rust and corrosion.

## Controls

Refrigeration cycle controls shall include condenser fan, evaporator fan and compressor contactors. Compressors shall be equipped with a combination internal winding thermostat/current overload. Internal high pressure relief shall also be provided.

## Refrigeration System

### Compressors —

The Climatuff® compressor features internal over temperature and pressure protector, total dipped hermetic motor. Other features include: centrifugal oil pump, and low vibration and noise.

**Evaporator Coil —** Internally enhanced 3/8-inch OD seamless copper tubing mechanically bonded to aluminum fins, factory pressure and leak tested at 250 to 300 psig. All units have TXV to control refrigeration 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 OD 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 through propeller type. Weather-proofed permanent split capacitor fan motor shall have built-in thermal overload and permanently lubricated motor bearings.

**Low Ambient —** Standard refrigerant system operation down to 55°F. Low ambient accessory required for operation to 0°F ambient condition.

**Gas-Fired Heating System —** Models shall provide completely assembled, wired and piped gas fired heating systems within unit. Design certified by UL, specifically for outdoor application. Threaded gas connection on the unit.

**Electronic Ignition System —** Main burner is lit each time thermostat calls for gas heat. Flame sensor proves flame and keeps the main burners on. Should a loss of flame occur, the main valve closes and the spark recurs within 0.8 second. When thermostat is satisfied, main burner is extinguished.

**Forced Combustion Blower —** Insures flame stability under varying wind conditions. Gives higher combustion efficiency and location flexibility.

**Heat Exchanger —** stainless steel tubes. Free floating design.

**Burners —** Stainless steel. Multi-port inshot.

### Accessories (U.S. Domestic Models)

**Roof Curb —** The roof curb shall be designed to mate with the unit and provide support and complete weather-tight installation when properly installed. Curb shall ship knocked down for field assembly, and include wood nailer strips.

**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 polarized 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.

### Manual Fresh Air Hood

Manual outside air provides a fixed outside air quantity from 0 to 25 percent. Includes hood and birdscreen.

### Low Ambient Control

Control allows cycling of compressor under low ambient cooling conditions. Required for cooling operation to 0°F.

### Propane Gas

**Conversion Kit —** For conversion from natural gas to LP gas.



Trane - by Trane Technologies (NYSE: TT), a global climate innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit [trane.com](http://trane.com) or [tranetechnologies.com](http://tranetechnologies.com).

---



The AHRI Certified mark indicates Trane U.S. Inc. participation in the AHRI Certification program. For verification of individual certified products, go to [ahridirectory.org](http://ahridirectory.org).

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.