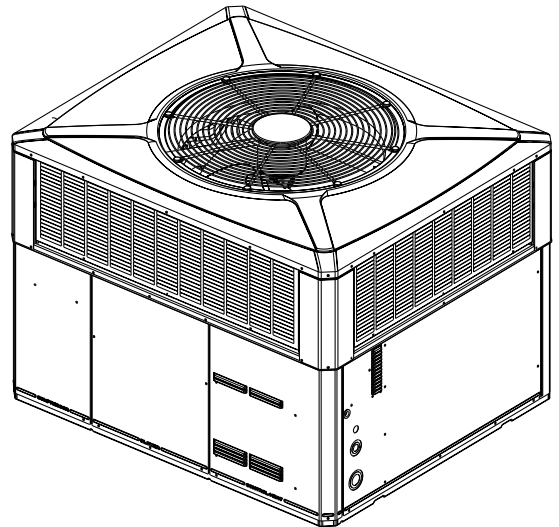


# Product Data

## Dual Fuel/Electric Cooling/NOx Limiting

4DCL4024A1060A  
4DCL4030A1070A  
4DCL4036A1070A  
4DCL4042A1090A  
4DCL4048A1090A  
4DCL4060A1115A

4DCL4036A3075A  
4DCL4048A3096A  
4DCL4060A3120A



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

# Introducing the New Single Packaged Dual Fuel, 14 SEER Convertible, NOx Limiting 2 — 5 Ton Units

**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 the “*approved*” dual fuel comfort control and air distribution ducts, you have a highly efficient total home comfort system.

## **TWO MODES OF OPERATION:**

The unit can be installed and configured to operate in one of two different heating modes: restricted and non-restricted. A brief explanation of each mode follows.

**RESTRICTED:** In the restricted mode of operation, an outdoor temperature sensor is used to cause the unit to operate in the heat pump mode above a selected outdoor temperature and to operate in the gas heating mode below the selected outdoor temperature.

*NOTE: The 4DCL units are equipped with an outdoor temperature switch to limit gas operation. For outdoor temperatures above 40 degrees, heating is provided by Heat Pump operation only.*

**NON-RESTRICTED:** This mode of operation only allows the unit to operate in the heat pump mode during the first call, or stage of heat commanded by the indoor thermostat. If the heat pump capacity is sufficient, gas heat will not be required. If the heat pump capacity is not enough to maintain the indoor temperature at the desired heating setpoint, the thermostat will call for the second stage of heat. At that point, the gas heat will begin to operate and the heat pump will be locked out.

*NOTE: The 4DCL units are equipped with an outdoor temperature switch to limit gas operation. For outdoor temperatures above 40 degrees, heating is provided by Heat Pump operation only.*

**Single Packaged Convertible Gas/Electric 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 Convertible Gas/Electric 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

Hinged Filter Access Door (4DCL4024-4036)	BAYCCDOR1A [ ]
Hinged Filter Access Door (4DCL5042-4060)	BAYCCDOR2A [ ]
Roof Curb Full Perimeter (4DCL4024-4036)	BAYCURB050A [ ]
Roof Curb Full Perimeter (4DCL4042-4060)	BAYCURB051A [ ]
Roof Curb Utility Extension Kit (BAYCURB050A)	BAYUTIL101B [ ]
Roof Curb Utility Extension Kit (BAYCURB051A)	BAYUTIL102B [ ]
0-25% Manual Fresh Air Damper (4DCL4024-4036) <sup>(a)</sup>	BAYOSAH001A [ ]
0-25% Manual Fresh Air Damper (4DCL4042-4060)	BAYOSAH002A [ ]
Motorized Fresh Air Damper (4DCL4024-4036)	BAYDMPR101A [ ]
Motorized Fresh Air Damper (4DCL4042-4060)	BAYDMPR102A [ ]
16" Round Duct Adapter (2 per box) (4DCL4024-4036) <sup>(b)</sup>	BAYSQRD001A [ ]
18" Round Duct Adapter (2 per box) (4DCL45024-4060)	BAYSQRD002A [ ]
0-100% Mod Economizer w/Baro. Relief (4DCL4024-4036) <sup>(c)</sup> <sup>(d)</sup>	BAYECON101B [ ]
0-100% Mod Economizer w/Baro. Relief (4DCL4042-4060)	BAYECON102B [ ]
0-100% Horizontal Economizer (4DCL4024-4036)	BAYECON200B [ ]
0-100% Horizontal Economizer (4DCL4042-4060)	BAYECON201B [ ]
Economizer Relay Kit (required with Economizer for Heat Pump applications)	BAYRLAY004A [ ]
Enthalpy Control for Economizer (ALL-BAYECON)	BAYENTH001A [ ]
Remote Potentiometer (ALL-BAYECON)	BAYSTAT023 [ ]
1"-2" Filter Frame (4DCL4024-4036) (18 x 25 filter not included)	BAYFLTR101C [ ]
1"-2" Filter Frame (4DCL4042-4060) (two 18 x 20 filters not included)	BAYFLTR201C [ ]
Head Pressure Control (Low Ambient Cool) (208/240v) Kit	BAYLOAM105A [ ]
Quick Start Kit (4DCL4-A1)	BAYQSTK300A [ ]
Crankcase Heater Reciprocating (4DCL4024) (230v)	BAYCCHT101A [ ]
Crankcase Heater Scroll (4DCL4036) (230v)	BAYCCHT103A [ ]
Crankcase Heater Scroll (4DCL4042-4060) (230v)	BAYCCHT102A [ ]
Adapter Curb (4DCL4024-4036A) to BAYCURB030,38	BAYADAP050A [ ]
Adapter Curb (4DCL4024-4036A) to BAYCURB033	BAYADAP051A [ ]
Adapter Curb (4DCL4042-4060A) to BAYCURB030,38	BAYADAP052A [ ]
Adapter Curb (4YCY5042-5060A) to BAYCURB033	BAYADAP053A [ ]
Adapter Curb (4DCL4042-4060A) to BAYCURB034	BAYADAP054A [ ]
12" Duct Shroud Covers Horizontal (4DCL024-4060A)	BAYCOVR112A [ ]
18" Duct Shroud Covers Horizontal (4DCL042-4060A)	BAYCOVR118A [ ]
Extreme Condition Mounting Kit — All BAYCURB & BAYADAP	BAYEXMK001A [ ]
Extreme Condition Mounting Kit — All BAYUTIL	BAYEXMK002B [ ]
Extreme Condition Mounting Kit — All Slab Mounts	BAYEXMK003B [ ]
Lifting Lug Kit	BAYLIFT002B [ ]
LP Conversion Kit (All 115K Models)	BAYLPKT100A [ ]
LP Conversion Kit (All 60K and 90K Models)	BAYLPKT101A [ ]
LP Conversion Kit (All 70K Models)	BAYLPKT102A [ ]

<sup>(a)</sup> Must use internal filter frame when economizer or fresh air kit is used.

<sup>(b)</sup> It is the responsibility of the installing dealer to properly size the ductwork for each specific application.

<sup>(c)</sup> Dry bulb control standard with economizer.

<sup>(d)</sup> Downflow only.

# Product Specifications

MODEL	4DCL4024A1060A	4DCL4030A1070A	4DCL4036A1070A
<b>RATED Volts/PH/Hz</b>	208-230/1/60	208-230/1/60	208-230/1/60
<b>PERFORMANCE COOLING BTUH</b> <sup>(a)</sup>	23600	30000	37000
Indoor Airflow (CFM)	785	985	1150
Power Input (KW)	2.162	2.15	3.11
EER/SEER (BTU/Watt-Hr.) <sup>(b)</sup>	12.0 / 14.0	12.0 / 14.25	12.0 / 14.0
Sound Power Rating [dB(A)] <sup>(c)</sup>	69.1	70	69
<b>HP HEATING PERFORMANCE</b>			
(High Temp.) BTUH — COP	22400 / 3.7	28000 / 3.9	33200 / 3.6
Power Input (KW)	1.77	2.15	2.7
(Low Temp.) BTUH — COP	11600 / 2.38	15400 / 2.48	22400 / 2.4
Power Input (KW)	1.24	1.81	2.5
HSPF (BTU / Watt-Hr.)	8.0	8.0	8.0
<b>GAS HEATING PERFORMANCE</b> <sup>(d)</sup>			
(High) Input BTUH	60000	70000	70000
Capacity BTUH	48600	56700	56700
Temp. Rise — Min/Max (°F)	40 / 70	30 / 60	30 / 60
(Low) Input BTUH	48000	56000	56000
Capacity BTUH	38880	45360	45360
AFUE	81	81	81
Type of Gas <sup>(e)</sup>	NATURAL / LP	NATURAL / LP	NATURAL / LP
Gas Pipe Size (in.)	1/2	1/2	1/2
<b>POWER CONN. (V/Ph/Hz)</b>	208-230/1/60	208-230/1/60	208-230/1/60
Min. Brch. Cir. Ampacity <sup>(f)</sup>	18.1	22.8	26.2
Fuse Size — Max. (amps)	25	35	40
Fuse Size — Recmd. (amps)	25	35	40
<b>COMPRESSOR</b>	SCROLL	SCROLL	SCROLL
Volts/Ph/Hz	208-230/1/60	200-230/1/60	208-230/1/60
R.L. Amps — L.R. Amps	10.3/62	14.1 / 73	16.7 / 79
<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.)	13.32	13.32	15.49
Tube Size (in.)	3/8	3/8	3/8
Refrigerant Control	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE
<b>INDOOR COIL — TYPE</b>	PLATE FIN	PLATE FIN	PLATE FIN
Rows/F.P.I	3 / 15	4 / 15	4 / 15
Face Area (sq. ft.)	3.54	3.54	3.54
Tube Size (in.)	3/8	3/8	3/8
Refrigeration Control	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE
Drain Conn. Size (in.)	3/4 FEMALE NPT	3/4 FEMALE NPT	3/4 FEMALE NPT
<b>OUTDOOR FAN — TYPE</b>	PROPELLER	PROPELLER	PROPELLER
Dia. (in)	23.4	23.4	23.4
Type Drive/No. Speeds	DIRECT / 1	DIRECT / 1	DIRECT / 1
CFM @ 0.0 in. w.g. <sup>(g)</sup>	3270	3250	3310
Motor — HP/RPM	1/6 / 830	1/6 / 830	1/5 / 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	1.0– 1.7	1.1– 1.9
<b>INDOOR FAN – TYPE</b>	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
Dia. x Width (in.)	10 X 10	10 X 10	10 X 10
Drive / No. Speeds	DIRECT / VARIABLE	DIRECT / VARIABLE	DIRECT / VARIABLE
CFM @ 0.0 in. w.g.	SEE FAN PERF TABLE	SEE FAN PERF TABLE	SEE FAN PERF TABLE
Motor – HP/R.P.M.	1/2 / VARIABLE	1/2 / VARIABLE	1/2 / VARIABLE
Volts/Ph/Hz	200-230/1/60	208-230/1/60	200-230/1/60
F.L. Amps / L.R. Amps	4.3 / 4.3	4.3 / 4.3	4.3 / 4.3
<b>COMBUSTION FAN – TYPE</b>	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
Drive/No. Speeds	DIRECT / 2	DIRECT / 2	DIRECT / 2
Motor – HP/R.P.M. (High/Low)	1/20 / 3350/2600	1/20 / 3350/2600	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.) <sup>(h)</sup>	4	4	4
<b>REFRIGERANT / CHARGE (lbs.)</b>	R-410 / 6.25	R-410 / 7.2	R-410 / 7.5
<b>DIMENSIONS</b>	H X D X W	H X D X W	H X D X W
Crated (in.)	45.86 / 44.5 / 52.03	45.86 / 44.5 / 52.03	47.86 / 44.5 / 52.03
<b>WEIGHT – SHIPPING/NET (lbs.)</b>	481 / 385	481 / 385	488 / 392

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

(b) Based on U.S. Government Standard Tests.

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

(d) All models are U L listed. Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

(e) Convertible to LPG.

(f) This value is approximate. For more precise value, see Unit Nameplate.

(g) Standard Air – Dry Coil – Outdoor.

(h) 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.

## Product Specifications

<b>MODEL</b>	4DCL4036A3075A	4DCL4042A1090A	4DCL4048A1090A
<b>RATED Volts/PH/Hz</b>	208-230/3/60	208-230/1/60	208-230/1/60
<b>PERFORMANCE COOLING BTUH</b> (a)	36000	42000	47500
Indoor Airflow (CFM)	1185	1380	1470
Power Input (KW)	3.28	3.50	3.96
EER/SEER (BTU/Watt-Hr.) (b)	11.4 / 14.0	12.0 / 14.0	12.0 / 14.0
Sound Power Rating [dB(A)] (c)	69	74	73
<b>HP HEATING PERFORMANCE</b>			
(High Temp.) BTUH — COP	32400 / 3.5	38000 / 3.45	45000 / 3.50
Power Input (KW)	2.7	3.23	3.77
(Low Temp.) BTUH — COP	20600 / 2.36	23400 / 2.32	28400 / 2.42
Power Input (KW)	2.6	2.96	3.44
HSPF (BTU / Watt-Hr.)	8.0	8.0	8.0
<b>GAS HEATING PERFORMANCE</b> (d)			
(High) Input BTUH	75000	90000	90000
Capacity BTUH	60500	72900	72900
Temp. Rise — Min/Max (°F)	30 / 60	30 / 60	30 / 60
(Low) Input BTUH	56250	72000	72000
Capacity BTUH	48400	58320	58320
AFUE	80	81	81
Type of Gas (e)	NATURAL / LP	NATURAL / LP	NATURAL / LP
Gas Pipe Size (in.)	1/2	1/2	1/2
<b>POWER CONN. (V/Ph/Hz)</b>	208-230/3/60	208-230/1/60	208-230/1/60
Min. Brch. Cir. Ampacity (f)	18.5	30.8	35.5
Fuse Size — Max. (amps)	25	45	50
Fuse Size — Recmd. (amps)	25	45	50
<b>COMPRESSOR</b>	SCROLL	SCROLL	SCROLL
Volts/Ph/Hz	208-230/3/60	208-230/1/60	208-230/1/60
R.L. Amps — L.R. Amps	10.4 / 73	17.9 / 112	21.8 / 117
<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	18.01	18.01
Tube Size (in.)	3/8	3/8	3/8
Refrigerant Control	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE
<b>INDOOR COIL — TYPE</b>	PLATE FIN	PLATE FIN	PLATE FIN
Rows/F.P.I	4 / 15	3 / 15	3 / 15
Face Area (sq. ft.)	3.54	5.0	5.0
Tube Size (in.)	3/8	3/8	3/8
Refrigeration Control	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE
Drain Conn. Size (in.)	3/4 FEMALE NPT	3/4 FEMALE NPT	3/4 FEMALE NPT
<b>OUTDOOR FAN — TYPE</b>	PROPELLER	PROPELLER	PROPELLER
Dia. (in)	23.4	28.2	28.2
Type Drive/No. Speeds	DIRECT / 1	DIRECT / 1	DIRECT / 1
CFM @ 0.0 in. w.g. (g)	3270	4440	4450
Motor — HP/RPM	1/5 / 830	1/4 / 825	1/4 / 825
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps/L.R Amps	1.1— 1.9	1.5— 3.4	1.4— 3.5
<b>INDOOR FAN — TYPE</b>	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
Dia. x Width (in.)	10 X 10	11 X 10	11 X 10

Drive / No. Speeds	DIRECT / VARIABLE	DIRECT / VARIABLE	DIRECT / VARIABLE
CFM @ 0.0 in. w.g.	SEE FAN PERF TABLE	SEE FAN PERF TABLE	SEE FAN PERF TABLE
Motor — HP/R.P.M.	1/2 / VARIABLE	3/4 / VARIABLE	3/4 / VARIABLE
Volts/Ph/Hz	200-230/1/60	208-230/1/60	200-230/1/60
F.L. Amps / L.R. Amps	4.3 / 4.3	6.8 / 6.8	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. (High/Low)	1/45 / 2800/1500	1/20 / 3350/2600	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.) <sup>(h)</sup>	4	5.3	5.3
<b>REFRIGERANT / CHARGE (lbs.)</b>	R-410 / 7.4	R-410 / 8.2	R-410 / 7.88
<b>DIMENSIONS</b>	H X D X W	H X D X W	H X D X W
Crated (in.)	47.86 / 44.5 / 52.03	47.86 / 47.4 / 61.75	47.86 / 47.4 / 61.75
<b>WEIGHT — SHIPPING/NET (lbs.)</b>	488 / 392	653 / 525	676 / 548

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

(b) Based on U.S. Government Standard Tests.

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

(d) All models are U L listed. Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

(e) Convertible to LPG.

(f) This value is approximate. For more precise value, see Unit Nameplate.

(g) Standard Air — Dry Coil — Outdoor.

(h) 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.

## Product Specifications

<b>MODEL</b>	4DCL4048A3096A	4DCL4060A1115A	4DCL4060A3120A
<b>RATED Volts/PH/Hz</b>	208-230/3/60	208-230/1/60	208-230/3/60
<b>PERFORMANCE COOLING BTUH</b> (a)	47000	58000	57500
Indoor Airflow (CFM)	1470	1785	1745
Power Input (KW)	4.03	4.83	5.48
EER/SEER (BTU/Watt-Hr.) (b)	10.85/ 14.0	12.0 / 14.0	11.5 / 14.0
Sound Power Rating [dB(A)] (c)	73	76	76
<b>HP HEATING PERFORMANCE</b>			
(High Temp.) BTUH — COP	42500 / 3.50	55000 / 3.60	54500 / 3.5
Power Input (KW)	3.56	4.48	4.56
(Low Temp.) BTUH — COP	26800 / 2.3	35400 / 2.4	36400 / 2.48
Power Input (KW)	3.44	4.30	4.29
HSPF (BTU / Watt-Hr.)	8.0	8.0	8.0
<b>GAS HEATING PERFORMANCE</b> (d)			
(High) Input BTUH	96000	115000	120000
Capacity BTUH	77500	93150	96000
Temp. Rise — Min/Max (°F)	30 / 60	30 / 60	30 / 60
(Low) Input BTUH	72000	92000	90000
Capacity BTUH	62000	74520	77500
AFUE	80	81	80.0
Type of Gas (e)	NATURAL / LP	NATURAL / LP	NATURAL / LP
Gas Pipe Size (in.)	1/2	1/2	1/2
<b>POWER CONN. (V/Ph/Hz)</b>	208-230/3/60	208-230/1/60	208-230/3/60
Min. Brch. Cir. Ampacity (f)	25.3	39.9	28.6
Fuse Size — Max. (amps)	35	60	45
Fuse Size — Recmd. (amps)	35	60	45
<b>COMPRESSOR</b>	SCROLL	SCROLL	SCROLL
Volts/Ph/Hz	208-230/3/60	208-230/1/60	208-230/3/60
R.L. Amps — L.R. Amps	13.7 / 83.1	25 / 134	16.0 / 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.)	18.01	23.07	23.57
Tube Size (in.)	3/8	3/8	3/8
Refrigerant Control	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE
<b>INDOOR COIL — TYPE</b>	PLATE FIN	PLATE FIN	PLATE FIN
Rows/F.P.I	3 / 15	4 / 15	4 / 15
Face Area (sq. ft.)	5.0	5.0	5.0
Tube Size (in.)	3/8	3/8	3/8
Refrigeration Control	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE
Drain Conn. Size (in.)	3/4 FEMALE NPT	3/4 FEMALE NPT	3/4 FEMALE NPT
<b>OUTDOOR FAN — TYPE</b>	PROPELLER	PROPELLER	PROPELLER
Dia. (in)	28.2	28.2	28.2
Type Drive/No. Speeds	DIRECT / 1	DIRECT / 1	DIRECT / 1
CFM @ 0.0 in. w.g. (g)	4450	5710	5710
Motor — HP/RPM	1/4 / 825	1/3 / 830	1/3 / 830
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps/L.R Amps	1.4— 3.5	1.7— 3.5	1.7 / 3.5
<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.	SEE FAN PERF TABLE	SEE FAN PERF TABLE	SEE FAN PERF TABLE
Motor — HP/R.P.M.	3/4 / VARIABLE	1 / VARIABLE	1 / VARIABLE
Volts/Ph/Hz	200-230/1/60	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. (High/Low)	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.) <sup>(h)</sup>	5.3	6.7	6.7
<b>REFRIGERANT / CHARGE (lbs.)</b>	R-410 / 7.75	R-410 / 11.94	R-410 / 10.125
<b>DIMENSIONS</b>	H X D X W	H X D X W	H X D X W
Crated (in.)	47.86 / 47.4 / 61.75	51.86 / 47.4 / 61.75	51.86 / 47.4 / 61.75
<b>WEIGHT — SHIPPING/NET (lbs.)</b>	653 / 525	676 / 548	676 / 548

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

(b) Based on U.S. Government Standard Tests.

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

(d) All models are U L listed. Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

(e) Convertible to LPG.

(f) This value is approximate. For more precise value, see Unit Nameplate.

(g) Standard Air — Dry Coil — Outdoor.

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

# Indoor Fan Performance

**Table 1. HORIZONTAL DOWNFLOW**

4DCL4024	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
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	52	66	89	115	140	164	186	206	229	259	-
					CFM	706	716	727	733	731	719	700	679	662	659	-
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	72	94	120	148	177	207	233	254	267	290	-
					CFM	786	793	805	813	813	806	793	780	778	799	-
450 CFM/TON	Off	Off	On	Off	Watts	80	99	125	153	182	211	243	284	342	-	-
					CFM	860	862	877	892	903	904	897	884	869	-	-

<sup>(a)</sup> FACTORY SETTING

**Table 2. DOWN AIRFLOW**

4DCL4024	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
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	35	70	90	108	131	160	188	204	225	250	-
					CFM	695	729	734	728	721	715	705	679	680	685	-
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	79	87	105	129	155	180	206	232	264	306	-
					CFM	846	807	802	810	816	813	803	794	800	846	-
450 CFM/TON	Off	Off	On	Off	Watts	86	102	127	156	185	213	242	275	319	-	-
					CFM	884	870	882	899	909	907	895	886	898	-	-

<sup>(a)</sup> FACTORY SETTING

**Table 3. AIRFLOW WITH AUXILIARY HEAT (CFM) Horizontal or Downflow from .2 to .6" wg.**

4DCL4024					NOMINAL AIRFLOW	
SWITCH SETTINGS		SELECTION				
				LOW STAGE	HIGH STAGE	
7 – OFF	8 – OFF	A		600	850	
7 – ON	8 – OFF	B		625	900	
7 – OFF	8 – ON	C		650	925	
7 – ON	8 – ON	D		700	975	

**Table 4. HORIZONTAL DOWNFLOW**

4DCL4030	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
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	-	112	155	176	199	231	270	299	289	197	-
					CFM	-	867	905	904	899	904	914	907	840	650	-
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	-	157	192	222	249	276	306	343	389	448	-
					CFM	-	997	1011	1012	1009	1006	1006	1006	1001	982	-

**Table 4. HORIZONTAL DOWNFLOW (continued)**

450 CFM/TON	Off	Off	On	Off	Watts	-	213	252	285	317	351	382	401	396	-	-
					CFM	-	1125	1135	1132	1133	1138	1138	1110	1017	-	-

(a) FACTORY SETTING

**Table 5. DOWN AIRFLOW**

4DCL4030	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
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	-	126	152	182	211	237	263	292	333	397	497
					CFM	-	883	900	911	911	901	883	863	849	854	890
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	-	158	196	224	251	283	318	344	345	295	162
					CFM	-	987	1004	1006	1004	1001	994	977	936	851	697
450 CFM/TON	Off	Off	On	Off	Watts	-	218	254	288	321	354	390	431	480	-	-
					CFM	-	1118	1128	1132	1131	1127	1127	1142	1183	-	-

(a) FACTORY SETTING

**Table 6. AIRFLOW WITH AUXILIARY HEAT (CFM) Horizontal or Downflow from .2 to .6" wg.**

4DCL4030							NOMINAL AIRFLOW	
SWITCH SETTINGS		SELECTION			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	

**Table 7. HORIZONTAL DOWNFLOW**

4DCL4036	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
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	173	197	226	256	285	313	343	360	-	-
					CFM	1058	1062	1063	1063	1062	1060	1057	1053	1010	-	-
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	179	230	265	296	329	366	403	431	436	-	-
					CFM	1179	1196	1204	1206	1205	1203	1199	1194	1185	-	-
450 CFM/TON	Off	Off	On	Off	Watts	318	336	365	399	435	469	502	533	-	-	-
					CFM	1390	1376	1370	1366	1361	1354	1349	1351	-	-	-

(a) FACTORY SETTING

**Table 8. DOWN AIRFLOW**

4DCL4036	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
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	169	182	210	243	273	301	331	370	433	-	-
					CFM	1025	1062	1068	1063	1060	1061	1064	1055	1015	-	-

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**Table 8. DOWN AIRFLOW (continued)**

400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	225	253	283	315	348	381	414	449	484	-	-
					CFM	1187	1201	1203	1201	1198	1197	1194	1184	1157	-	-
450 CFM/TON	Off	Off	On	Off	Watts	339	357	390	424	455	483	516	571	-	-	-
					CFM	1391	1377	1377	1375	1366	1352	1344	1360	-	-	-

<sup>(a)</sup> FACTORY SETTING

**Table 9. AIRFLOW WITH AUXILIARY HEAT (CFM) Horizontal or Downflow from .2 to .6" wg.**

4DCL4036															
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			

**Table 10. HORIZONTAL DOWNFLOW**

4DCL4036	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
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	173	197	226	256	285	313	343	360	-	-
					CFM	1058	1062	1063	1063	1062	1060	1057	1053	1010	-	-
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	179	230	265	296	329	366	403	431	436	-	-
					CFM	1179	1196	1204	1206	1205	1203	1199	1194	1185	-	-
450 CFM/TON	Off	Off	On	Off	Watts	318	336	365	399	435	469	502	533	-	-	-
					CFM	1390	1376	1370	1366	1361	1354	1349	1351	-	-	-

<sup>(a)</sup> FACTORY SETTING

**Table 11. DOWN AIRFLOW**

4DCL4036	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
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	169	182	210	243	273	301	331	370	433	-	-
					CFM	1025	1062	1068	1063	1060	1061	1064	1055	1015	-	-
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	225	253	283	315	348	381	414	449	484	-	-
					CFM	1187	1201	1203	1201	1198	1197	1194	1184	1157	-	-
450 CFM/TON	Off	Off	On	Off	Watts	339	357	390	424	455	483	516	571	-	-	-
					CFM	1391	1377	1377	1375	1366	1352	1344	1360	-	-	-

<sup>(a)</sup> FACTORY SETTING

**Table 12. AIRFLOW WITH AUXILIARY HEAT (CFM) Horizontal or Downflow from .2 to .6" wg.**

4DCL4036															
SWITCH SETTINGS				SELECTION				NOMINAL AIRFLOW							
								LOW STAGE				HIGH STAGE			

**Table 12. AIRFLOW WITH AUXILIARY HEAT (CFM) Horizontal or Downflow from .2 to .6" wg. (continued)**

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

**Table 13. HORIZONTAL DOWNFLOW**

4DCL4042	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)												
	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	-	160	185	214	245	277	308	339	368	396	423	
					CFM	-	1206	1211	1213	1215	1215	1214	1212	1208	1201	1190	
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	-	231	261	292	325	359	394	431	467	503	536	
					CFM	-	1389	1398	1405	1409	1410	1408	1403	1399	1396	1399	
450 CFM/TON	Off	Off	On	Off	Watts	-	326	362	393	421	450	482	517	556	597	-	
					CFM	-	1582	1592	1593	1587	1577	1566	1557	1553	1556	-	

(a) FACTORY SETTING

**Table 14. DOWN AIRFLOW**

4DCL4042	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)												
	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	-	176	203	232	262	294	325	357	388	417	443	
					CFM	-	1207	1214	1217	1216	1213	1208	1201	1193	1185	1177	
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	-	253	290	323	355	386	420	455	491	526	558	
					CFM	-	1405	1411	1413	1412	1407	1399	1389	1377	1366	1357	
450 CFM/TON	Off	Off	On	Off	Watts	-	367	379	409	446	485	522	556	591	633	-	
					CFM	-	1599	1577	1570	1569	1566	1560	1550	1537	1528	-	

(a) FACTORY SETTING

**Table 15. AIRFLOW WITH AUXILIARY HEAT (CFM) Horizontal or Downflow from .2 to .6" wg.**

4DCL4042					NOMINAL AIRFLOW	
SWITCH SETTINGS		SELECTION			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

**Table 16. HORIZONTAL DOWNFLOW**

4DCL4048	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)												
	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

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**Table 16. HORIZONTAL DOWNFLOW (continued)**

350 CFM/TON	Off	Off	Off	On	Watts	187	232	264	291	318	347	379	413	446	472	-
					CFM	1355	1387	1396	1392	1382	1370	1360	1351	1341	1326	-
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	315	324	352	389	428	464	498	529	563	606	-
					CFM	1603	1581	1577	1580	1583	1583	1577	1567	1558	1556	-
450 CFM/TON	Off	Off	On	Off	Watts	301	431	507	552	584	615	651	694	739	779	-
					CFM	1752	1794	1812	1816	1812	1806	1800	1797	1793	1785	-

(a) FACTORY SETTING

**Table 17. DOWN AIRFLOW**

4DCL4048	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
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	208	254	284	312	343	379	414	437	460	490	-
					CFM	1337	1393	1398	1388	1383	1390	1399	1384	1380	1370	-
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	302	349	386	423	465	509	552	583	599	628	-
					CFM	1574	1580	1585	1589	1594	1598	1601	1597	1584	1556	-
450 CFM/TON	Off	Off	On	Off	Watts	501	523	555	592	631	672	714	760	800	845	-
					CFM	1847	1823	1817	1818	1820	1819	1817	1820	1815	1810	-

(a) FACTORY SETTING

**Table 18. AIRFLOW WITH AUXILIARY HEAT (CFM) Horizontal or Downflow from .2 to .6" wg.**

4DCL4048					SELECTION		NOMINAL AIRFLOW	
SWITCH SETTINGS						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	

**Table 19. HORIZONTAL DOWNFLOW**

4DCL4048	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
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	187	232	264	291	318	347	379	413	446	472	-
					CFM	1355	1387	1396	1392	1382	1370	1360	1351	1341	1326	-
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	315	324	352	389	428	464	498	529	563	606	-
					CFM	1603	1581	1577	1580	1583	1583	1577	1567	1558	1556	-
450 CFM/TON	Off	Off	On	Off	Watts	301	431	507	552	584	615	651	694	739	779	-
					CFM	1752	1794	1812	1816	1812	1806	1800	1797	1793	1785	-

(a) FACTORY SETTING

**Table 20. DOWN AIRFLOW**

4DCL4048	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
	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
350 CFM/TON	Off	Off	Off	On	Watts	208	254	284	312	343	379	414	437	460	490	-
					CFM	1337	1393	1398	1388	1383	1390	1399	1384	1380	1370	-
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	302	349	386	423	465	509	552	583	599	628	-
					CFM	1574	1580	1585	1589	1594	1598	1601	1597	1584	1556	-
450 CFM/TON	Off	Off	On	Off	Watts	501	523	555	592	631	672	714	760	800	845	-
					CFM	1847	1823	1817	1818	1820	1819	1817	1820	1815	1810	-

<sup>(a)</sup> FACTORY SETTING

**Table 21. AIRFLOW WITH AUXILIARY HEAT (CFM) Horizontal or Downflow from .2 to .6" wg.**

4DCL4048					NOMINAL AIRFLOW	
SWITCH SETTINGS		SELECTION		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	

**Table 22. HORIZONTAL AIRFLOW**

4DCL4060	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
	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
350 CFM/TON	Off	Off	Off	On	Watts	394	427	464	504	548	591	633	668	-	-	-
					CFM	1673	1772	1799	1793	1779	1771	1767	1756	-	-	-
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	695	642	660	710	764	811	849	893	966	1108	-
					CFM	2054	2036	2031	2032	2033	2031	2023	2012	2002	2000	-

<sup>(a)</sup> FACTORY SETTING

**Table 23. DOWN AIRFLOW**

4DCL4060	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
	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
350 CFM/TON	Off	Off	Off	On	Watts	443	461	493	532	571	607	642	680	-	-	-
					CFM	1796	1741	1726	1725	1722	1712	1698	1692	-	-	-
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	740	697	715	763	819	866	892	894	872	835	-
					CFM	2012	1987	1979	1977	1976	1969	1950	1913	1852	1759	-

<sup>(a)</sup> FACTORY SETTING

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**Table 24. AIRFLOW WITH AUXILIARY HEAT (CFM) Horizontal or Downflow from .2 to .6" wg.**

4DCL4060					
SWITCH SETTINGS		SELECTION		NOMINAL AIRFLOW	
				LOW STAGE	HIGH STAGE
7 – OFF	8 – OFF	A		1375	1800
7 – ON	8 – OFF	B		1450	1900

**Table 25. HORIZONTAL DOWNFLOW**

4DCL4060	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
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	394	427	464	504	548	591	633	668	-	-	-
					CFM	1673	1772	1799	1793	1779	1771	1767	1756	-	-	-
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	695	642	660	710	764	811	849	893	966	1108	-
					CFM	2054	2036	2031	2032	2033	2031	2023	2012	2002	2000	-

(a) FACTORY SETTING

**Table 26. DOWN AIRFLOW**

4DCL4060	DIPSWITCH SETTINGS				EXTERNAL STATIC PRESSURE (IN. WG)											
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	443	461	493	532	571	607	642	680	-	-	-
					CFM	1796	1741	1726	1725	1722	1712	1698	1692	-	-	-
400 <sup>(a)</sup> CFM/TON	Off	Off	Off	Off	Watts	740	697	715	763	819	866	892	894	872	835	-
					CFM	2012	1987	1979	1977	1976	1969	1950	1913	1852	1759	-

(a) FACTORY SETTING

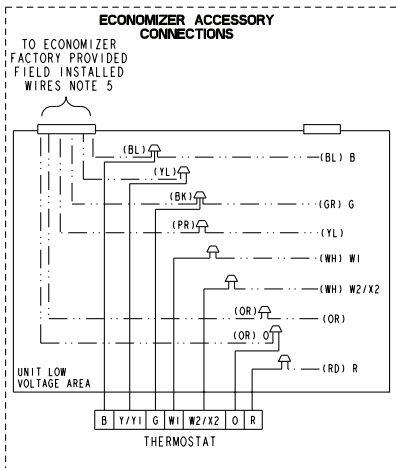
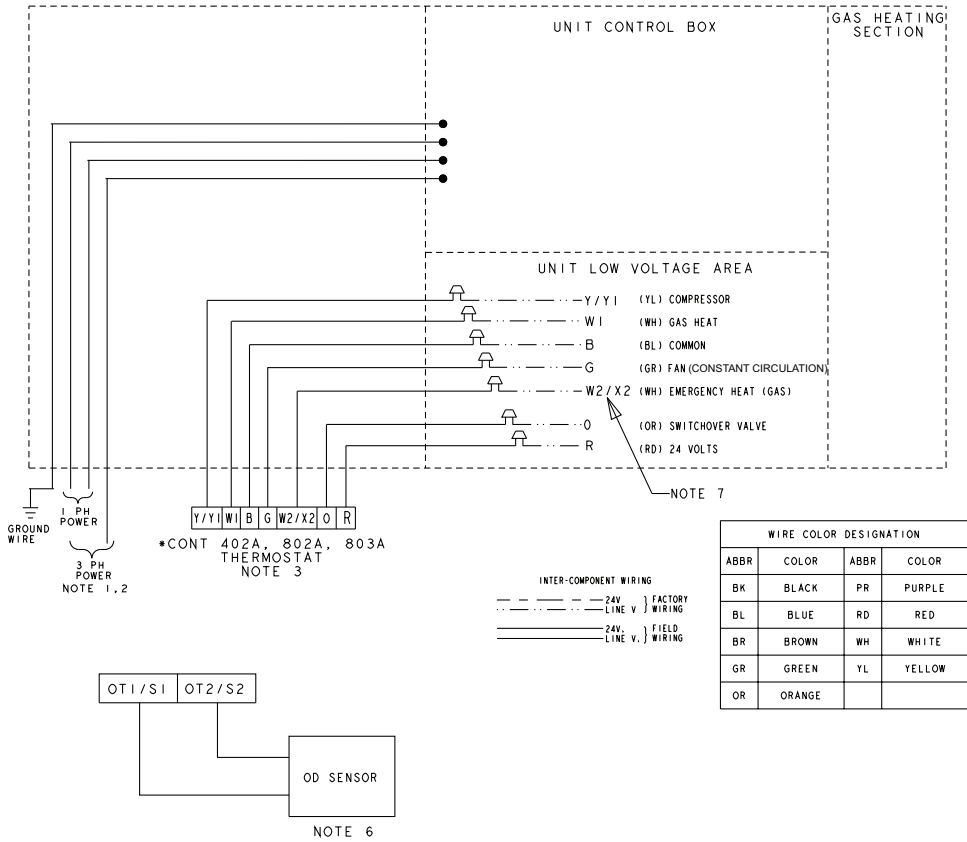
**Table 27. AIRFLOW WITH AUXILIARY HEAT (CFM) Horizontal or Downflow from .2 to .6" wg.**

4DCL4060					
SWITCH SETTINGS		SELECTION		NOMINAL AIRFLOW	
				LOW STAGE	HIGH STAGE
7 – OFF	8 – OFF	A		1375	1800
7 – ON	8 – OFF	B		1450	1900
7 – OFF	8 – ON	C		1525	1975
7 – ON	8 – ON	D		1575	2075



# Typical Field Wiring

## 4DCL4 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. WHEN THE BAYECON101A, 102A, 200A OR 201A ECONOMIZER IS INSTALLED, THE BAYRLAY004 RELAY ACCESSORY KIT IS REQUIRED TO INTERFACE THE ECONOMIZER TO THE HEAT PUMP FOR PROPER SYSTEM OPERATION.
6. THE OUTDOOR SENSOR SHOULD BE LOCATED IN AN AREA WHICH WILL PROVIDE A REPRESENTATIVE OUTDOOR TEMPERATURE.
7. 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.



Figure 2. 4DCL4024-4030

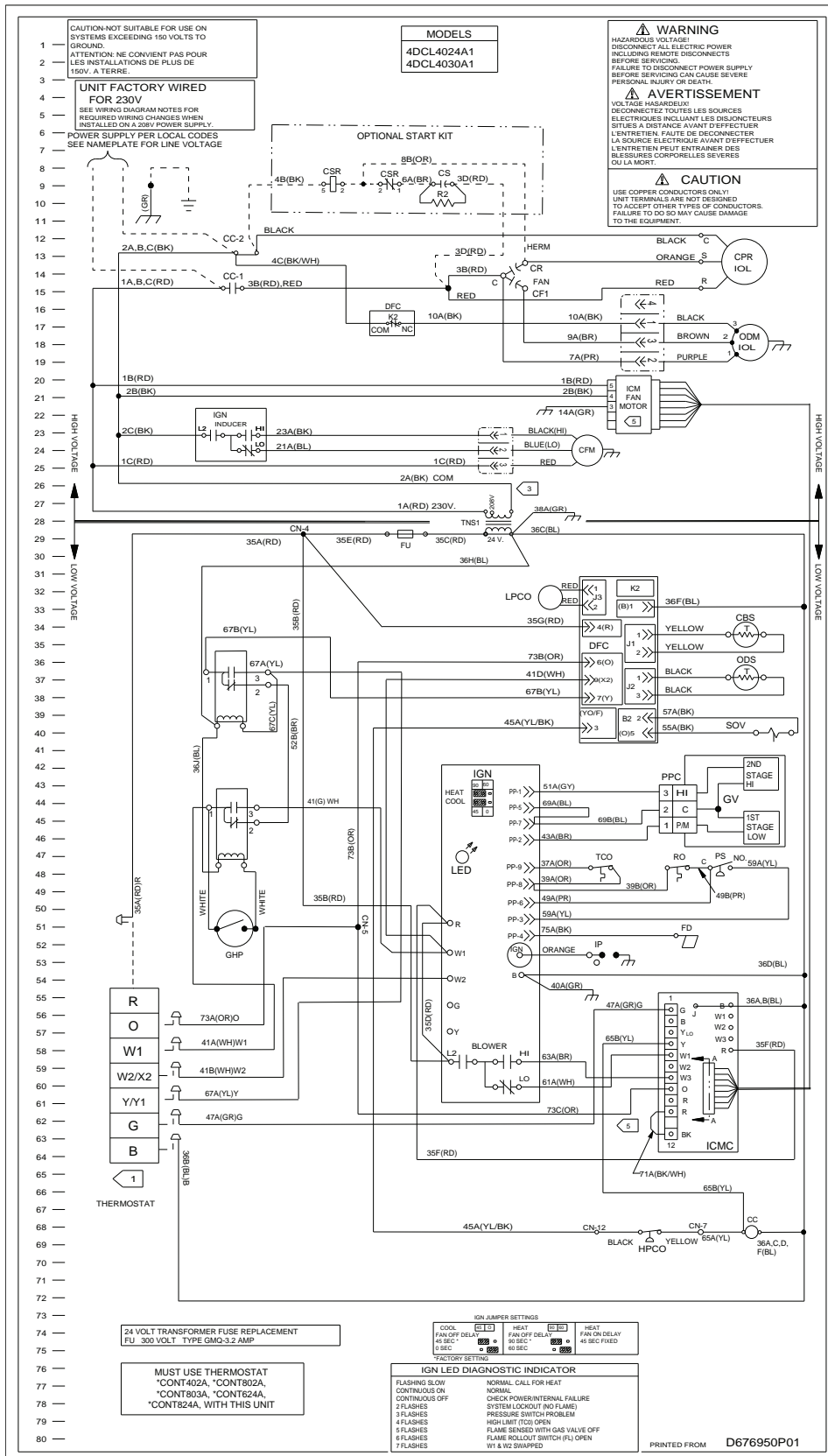


Figure 3. 4DCL4036-4042

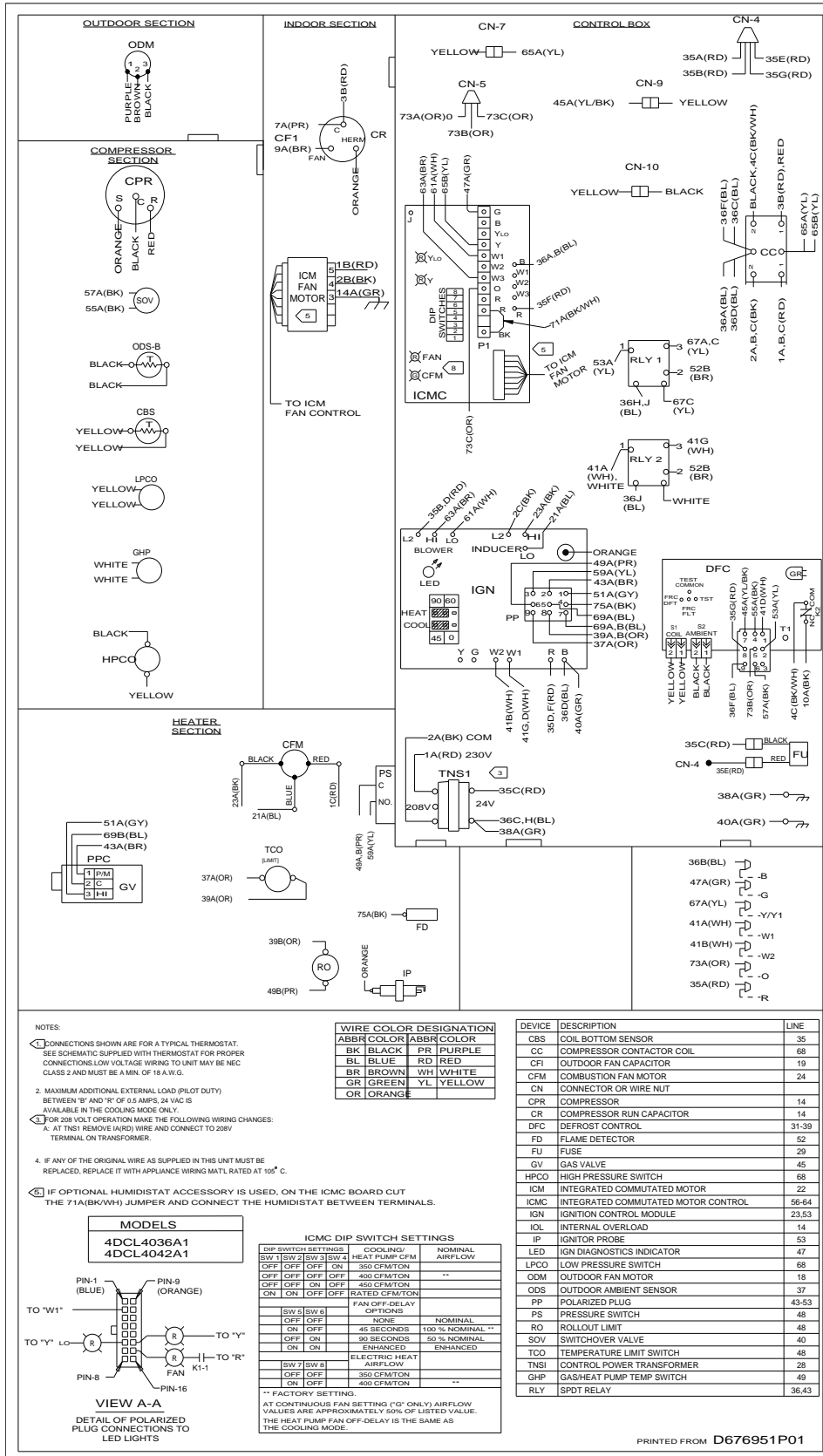


Figure 4. 4DCL4036-4042

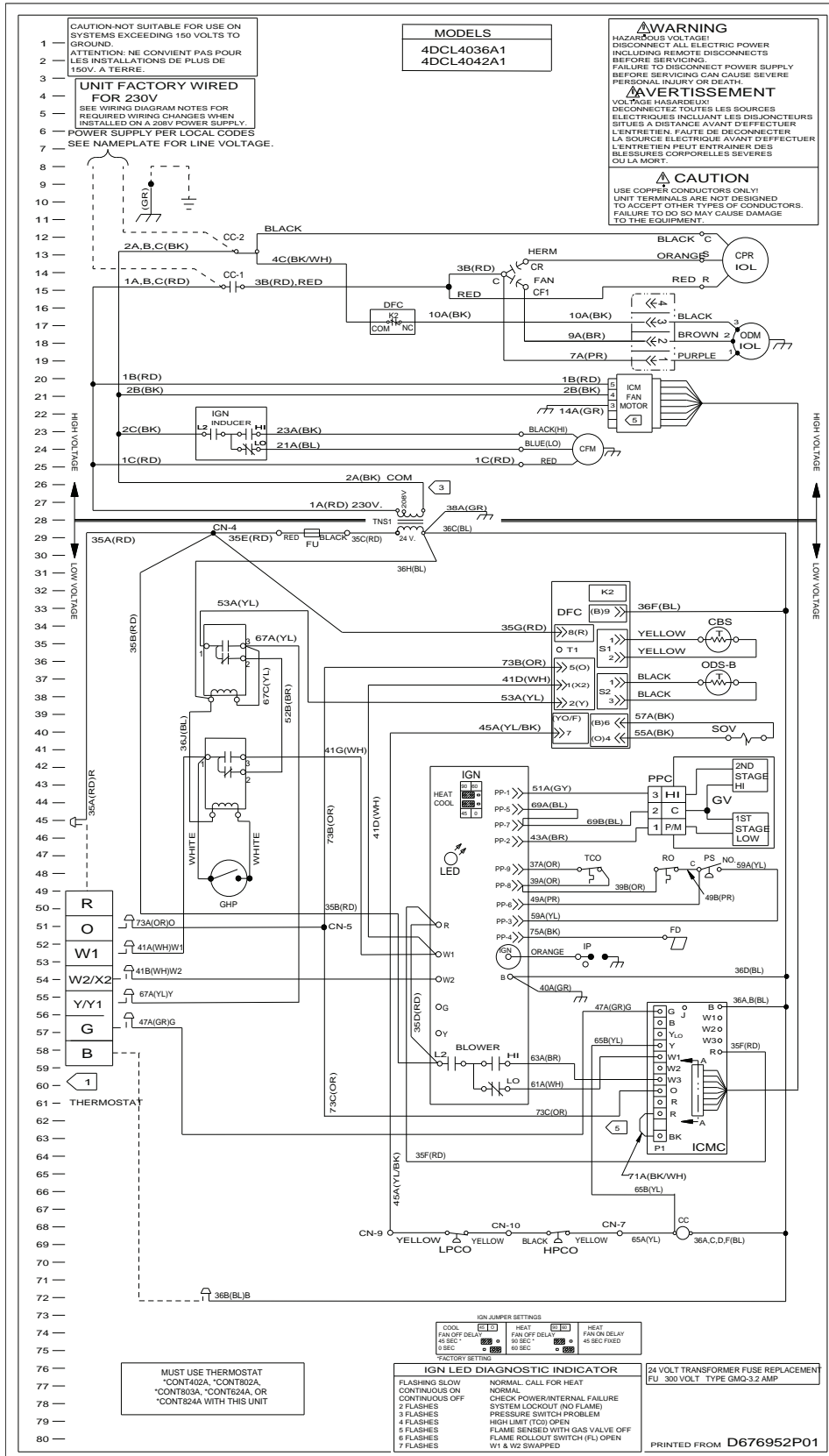


Figure 5. 4DCL4036 (3 Phase)

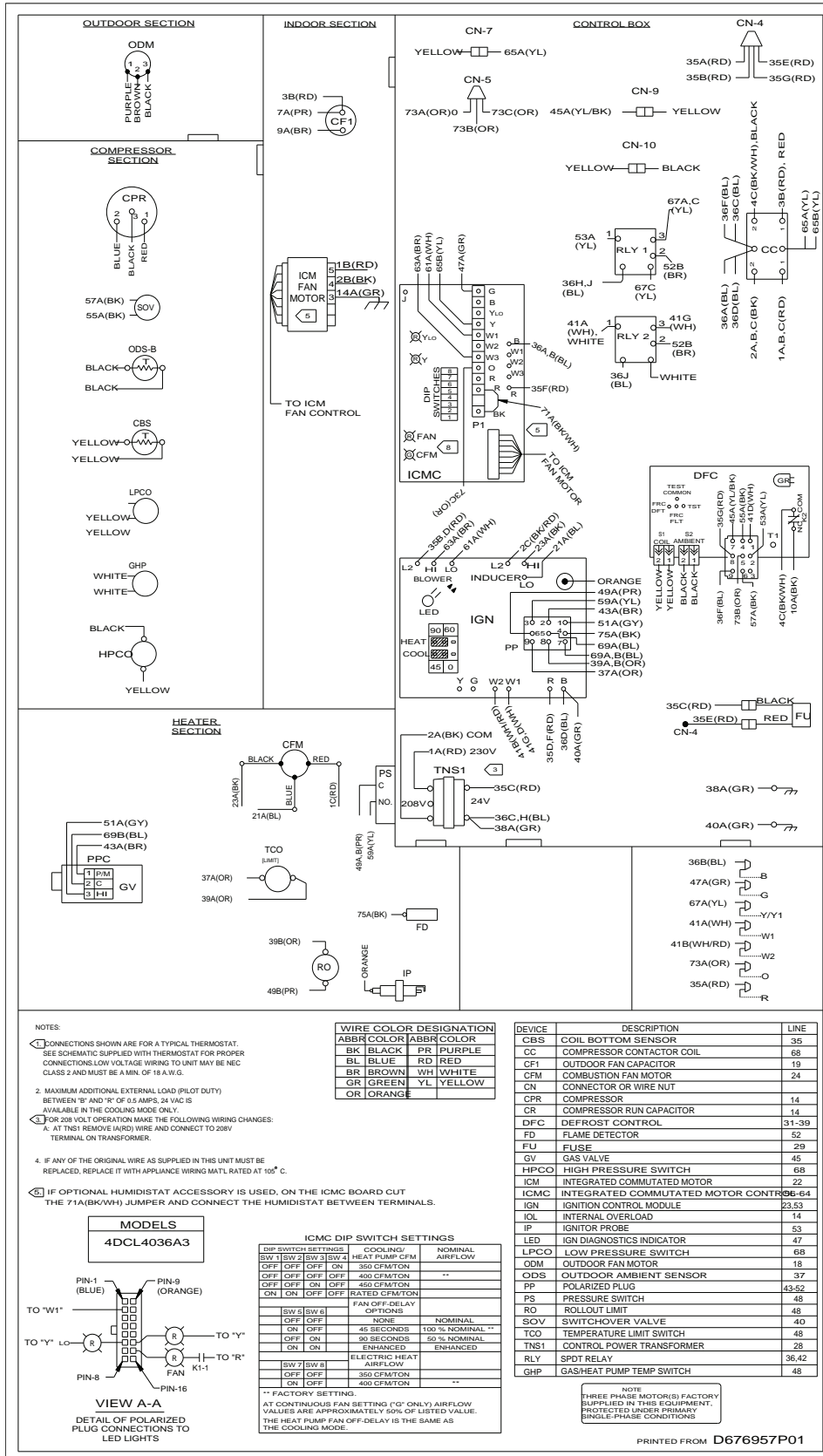


Figure 6. 4DCL4036 (3 Phase)

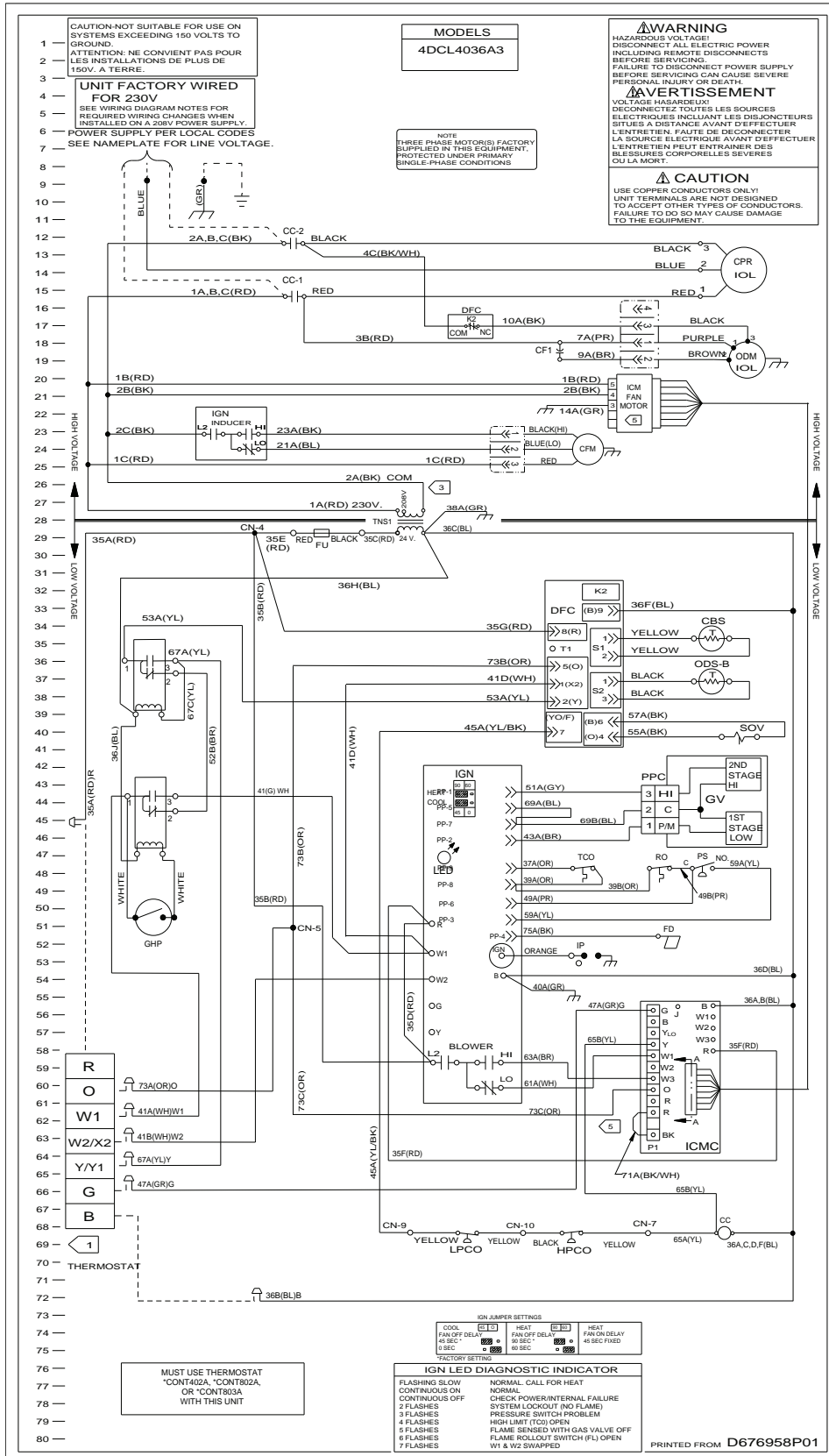


Figure 7. 4DCL4048

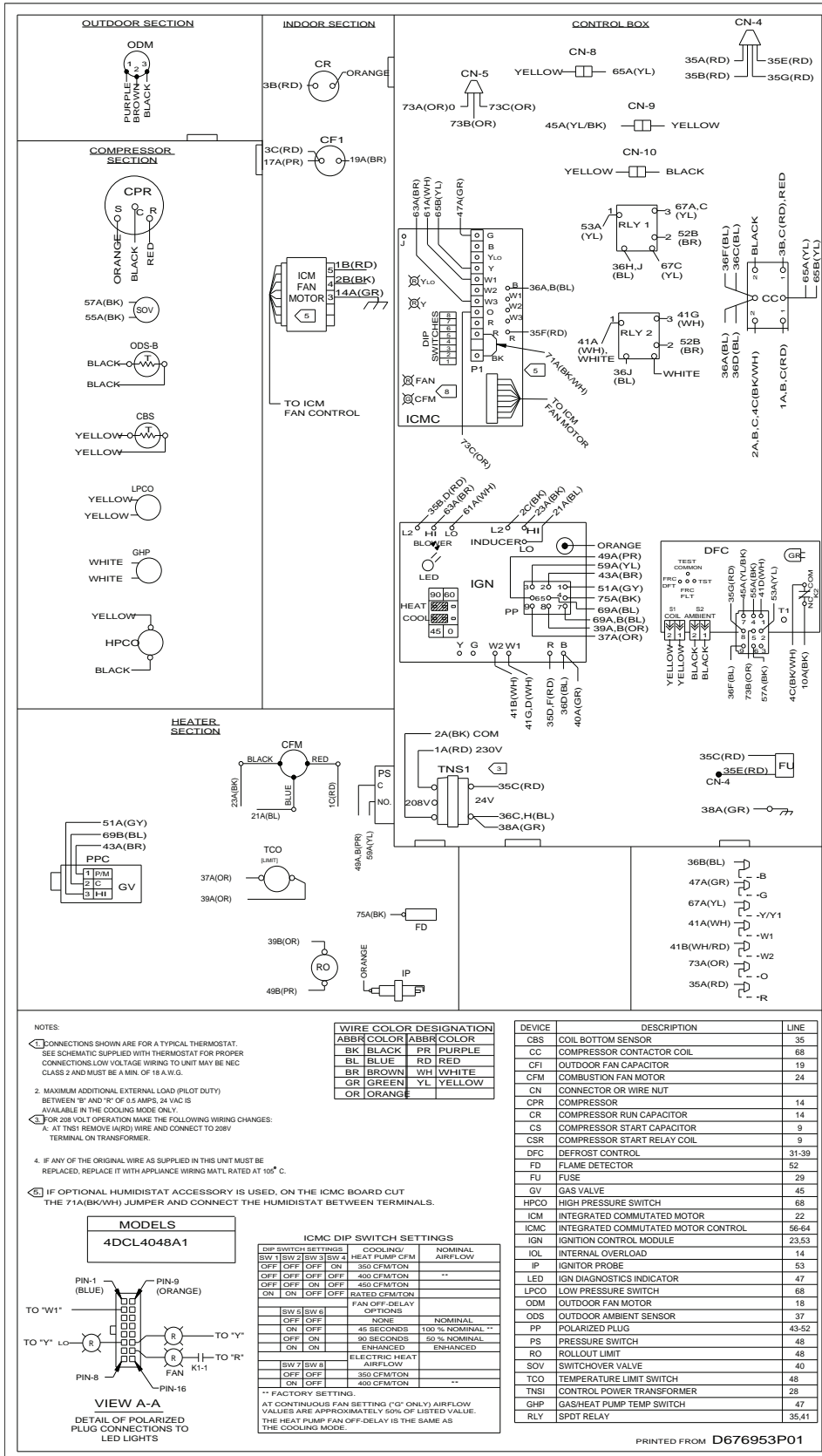




Figure 8. 4DCL4048

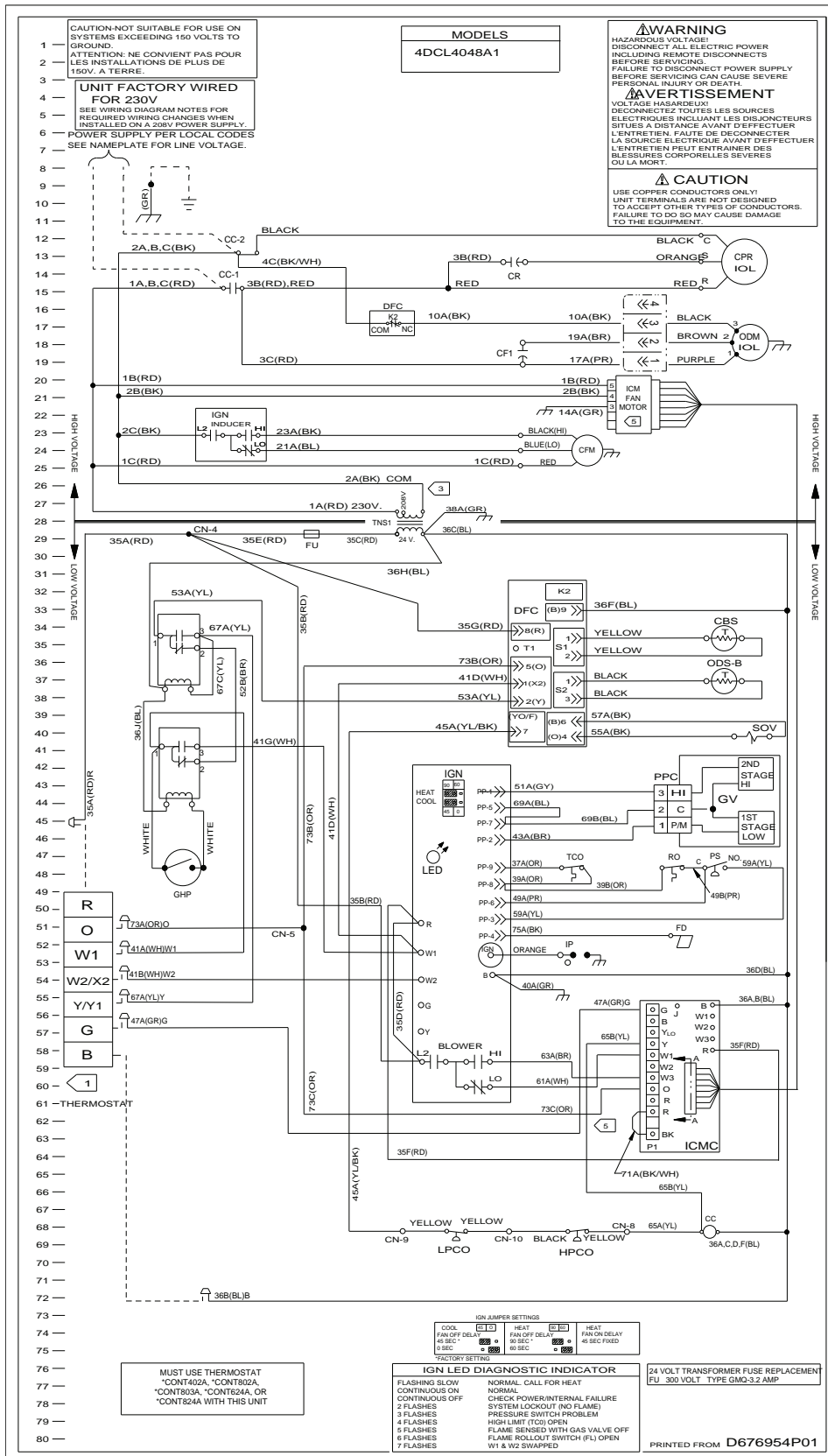




Figure 10. 4DCL4048-4060 (3 Phase)

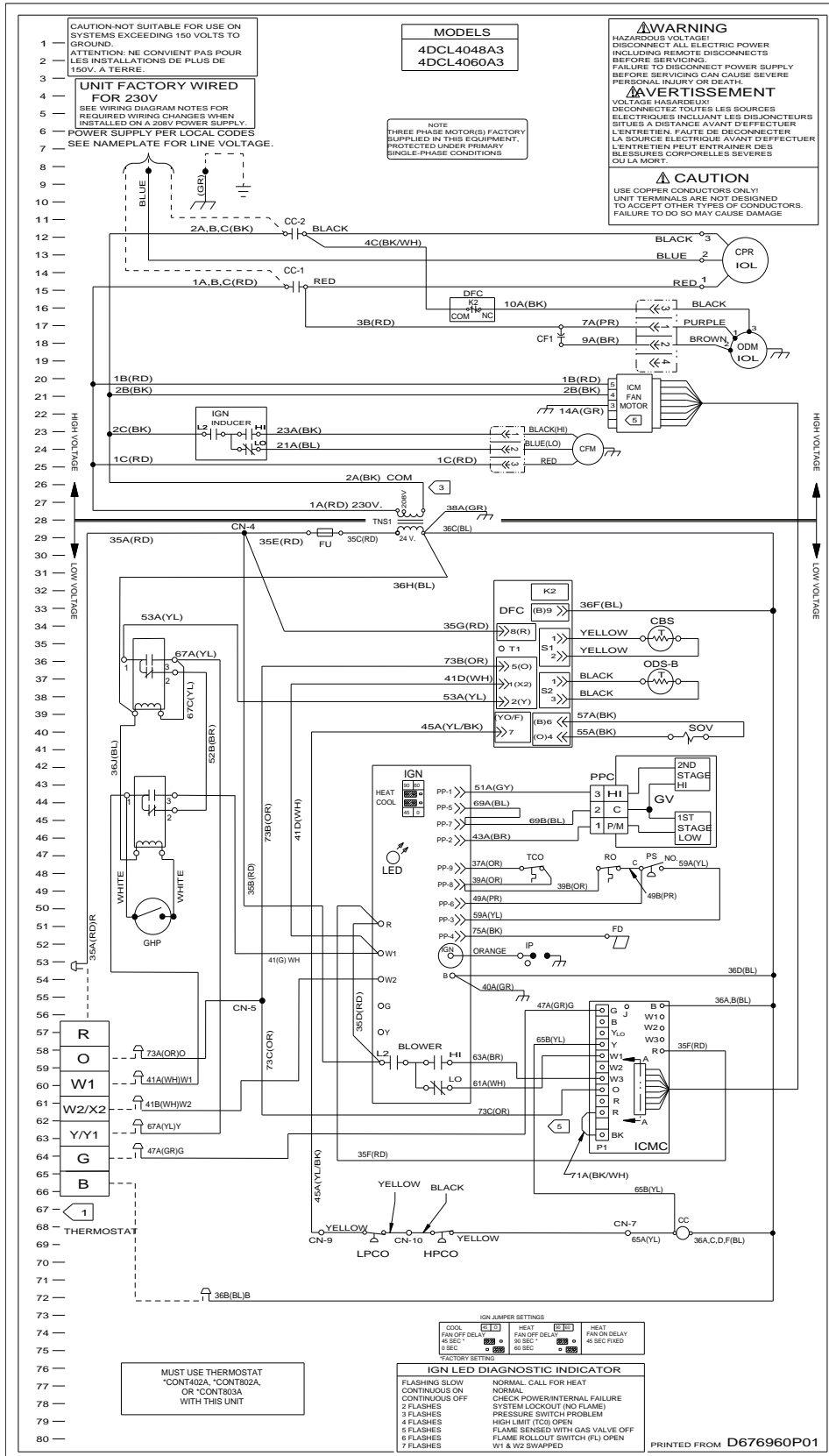


Figure 11. 4DCL4060

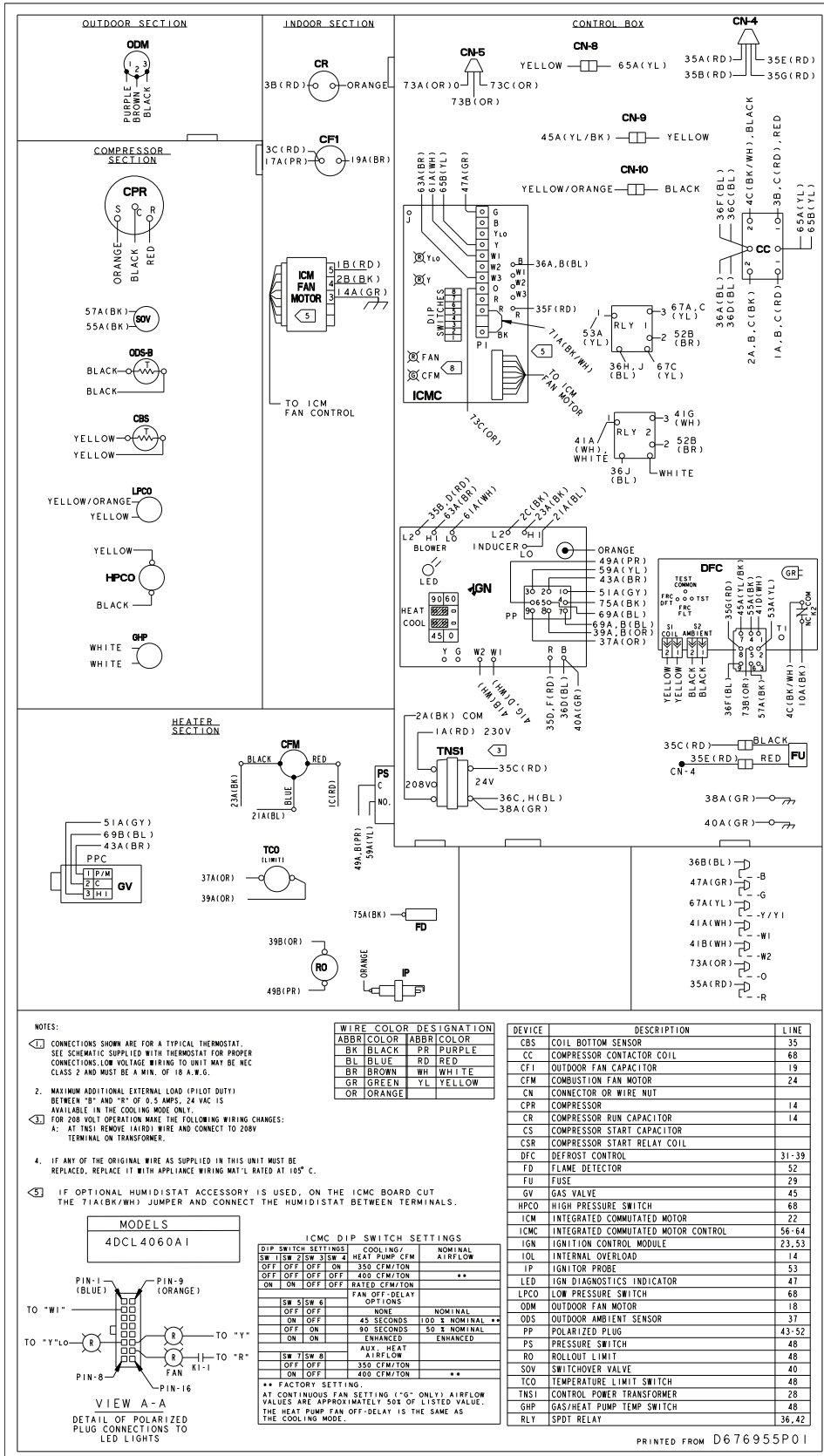
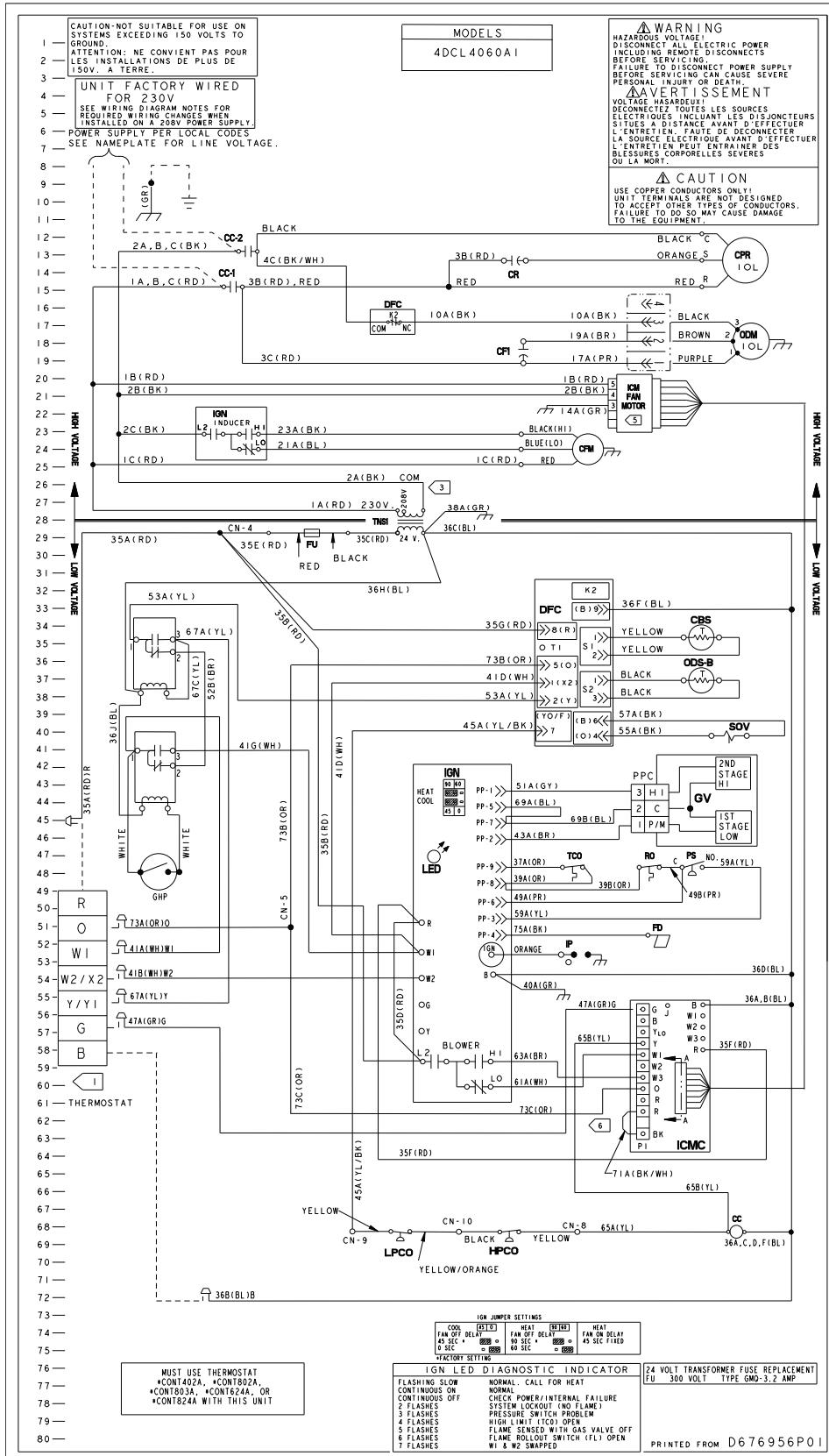


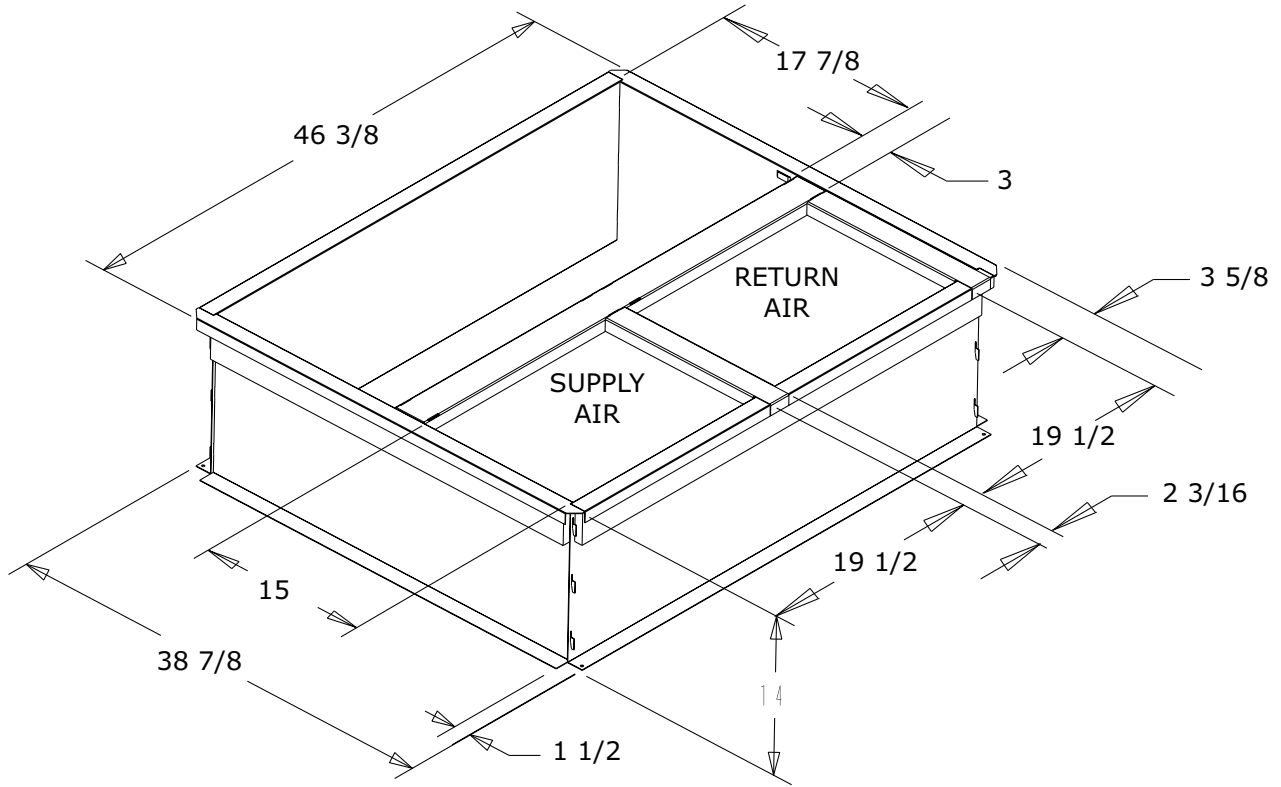
Figure 12. 4DCL4060



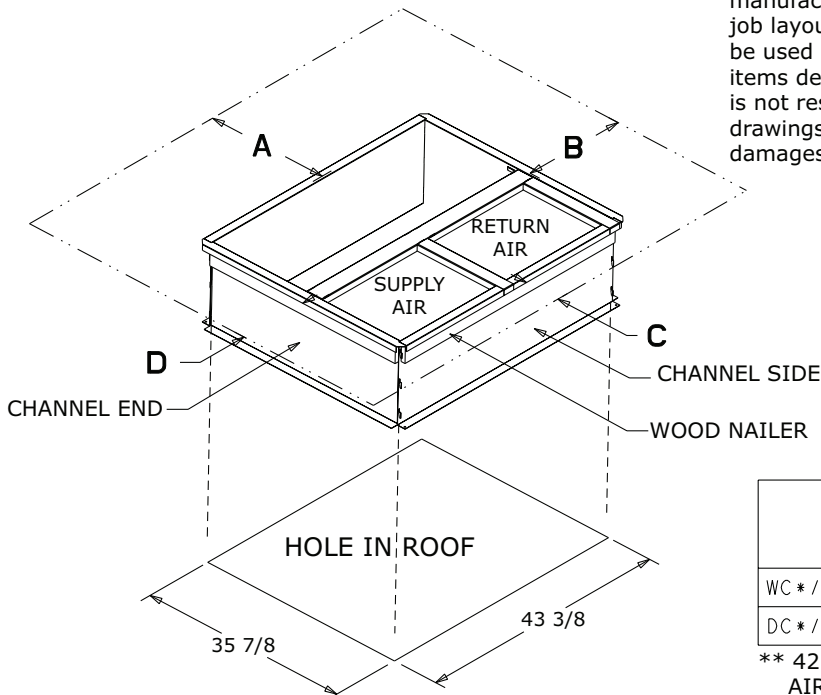
# Full Perimeter Roof Mounting Curb

Figure 13. 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.

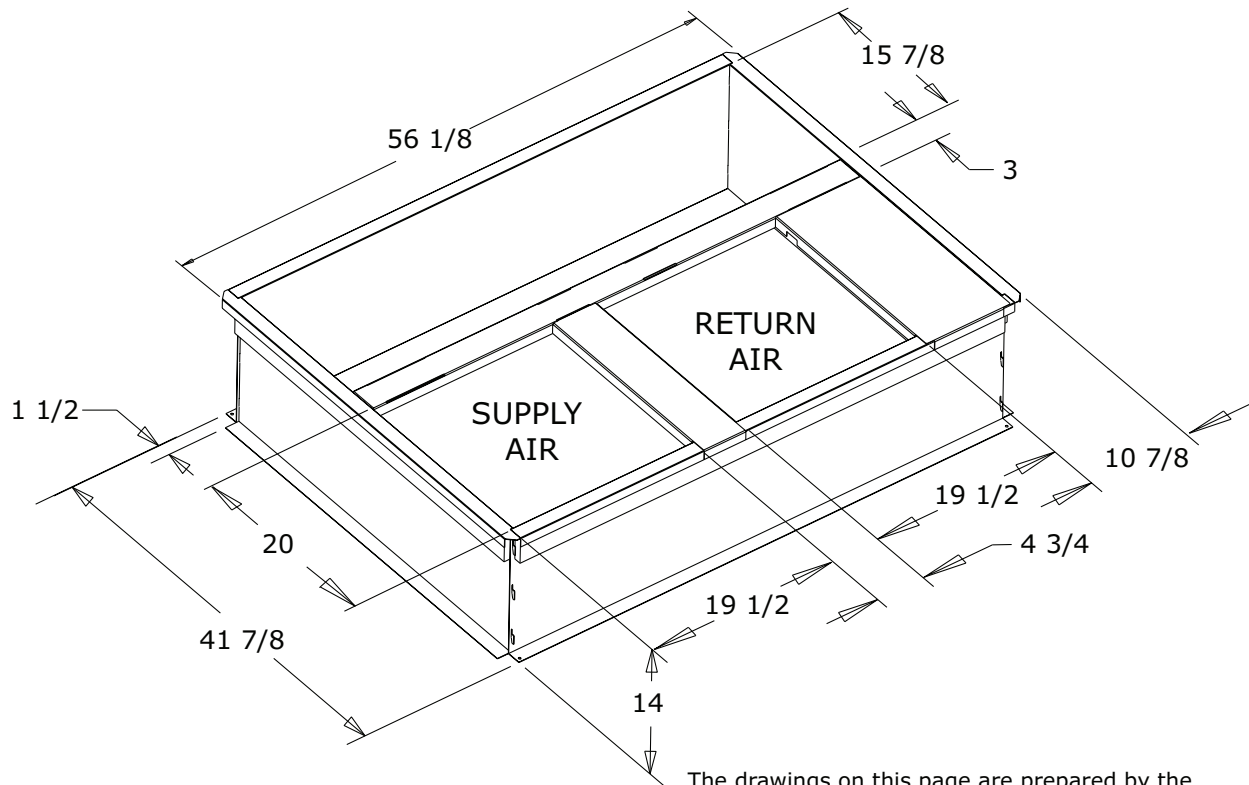


	SERVICE CLEARANCE DIMENSIONS			
	A	B	C	D
WC*/TC*	42.00	36.00	12.00**	24.00
DC*/YC*	42.00	36.00	12.00**	36.00

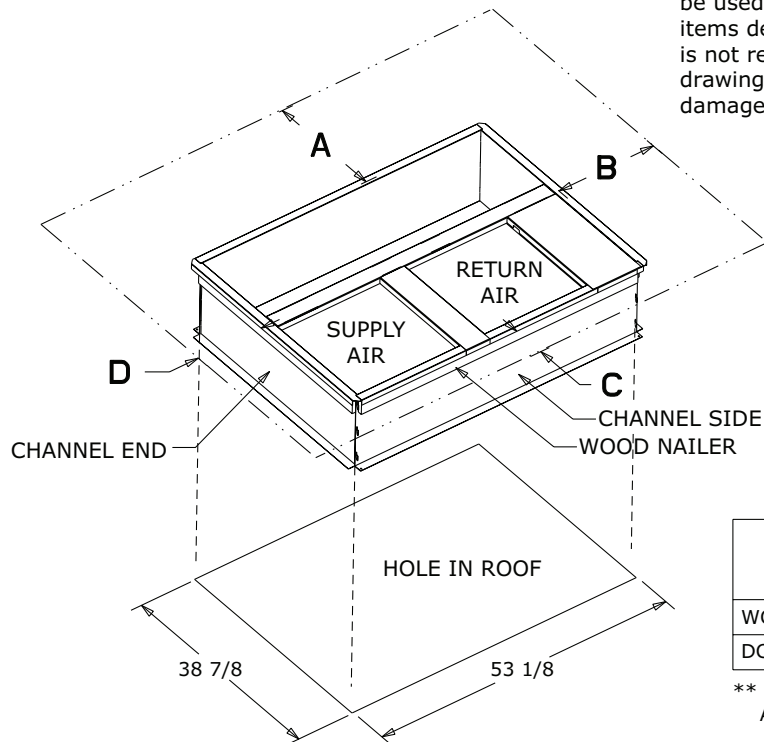
\*\* 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

Figure 14. 3.5 – 5.0 Ton Models

**BAYCURB051A 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.

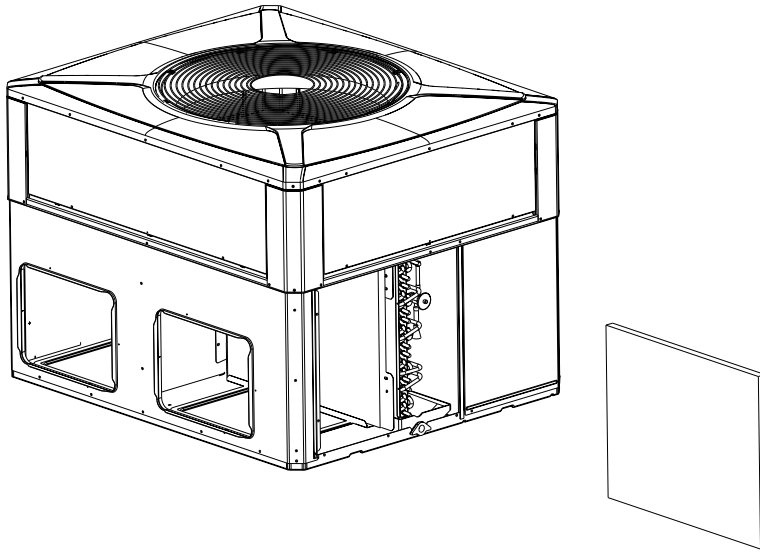


	SERVICE CLEARANCE DIMENSIONS			
	A	B	C	D
WC*/TC*	42.00	36.00	12.00**	24.00
DC*/YC*	42.00	36.00	12.00**	36.00

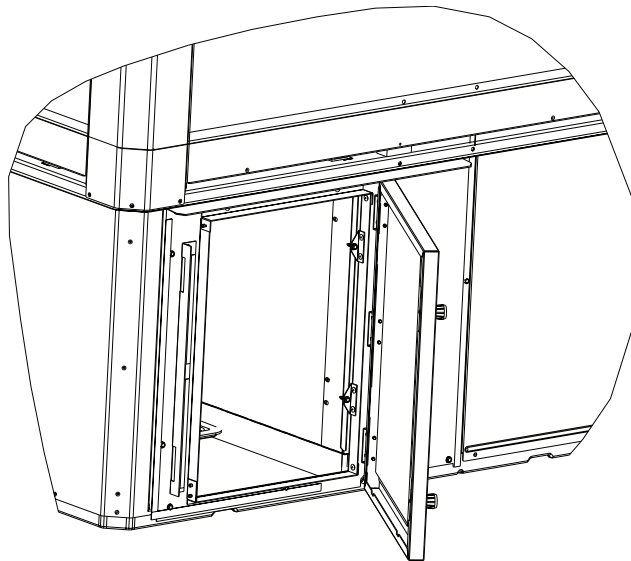
\*\* 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

# Optional Equipment – Filter Rack

**Figure 15. BAYFLTR101 Filter Rack (2.0 – 3.0 Ton Models)  
BAYFLTR201 (3.5 – 5.0 Ton Models)  
(Mounts in Filter/Coil Section)**



**Figure 16. BAYACCDOR1A Hinged Filter Access Door (2.0 – 3.0 Ton Models)  
BAYACCDOR2A (3.5 – 5.0 Ton Models)  
Replaces Filter/Coil Access Panel**



**Note:** 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.

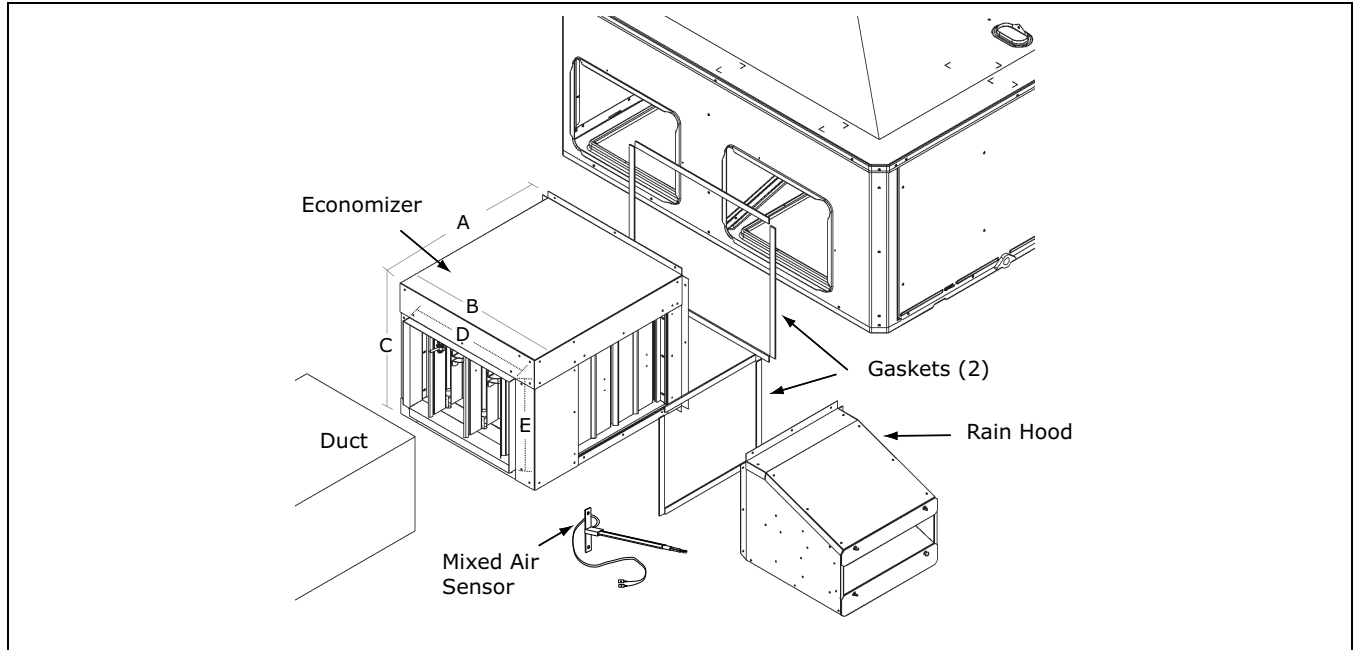


# Optional Equipment – Economizer

**Table 28. BAYECON101,102A Down Discharge Economizer and Rain Hood (Mounts Over Horizontal Return Air Opening)**

	<b>Economizer</b>	<b>Unit Application Models</b>
	BAYECON101A	2.0 – 3.0 Ton Models
	BAYECON102A	3.5 – 5.0 Ton Models

**Table 29. BAYCON200, 201A Horizontal Economizer and Rain Hood**

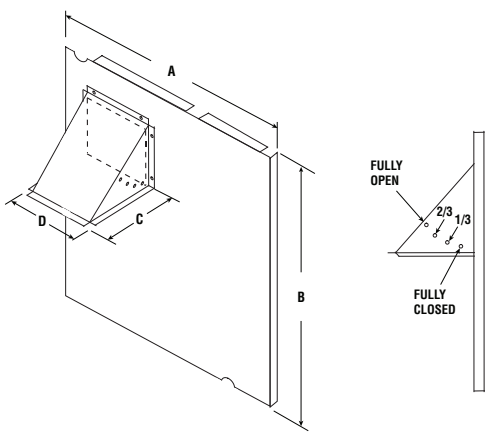


Economizer	Models	A	B	C	D	E	F
BAYECON200A	2.0 – 3.0 Ton	22"	20"	16-7/8"	15-11/16"	11-11/16"	15"
BAYECON201A	3.5 – 5.0 Ton	26"	22-21/32"	19"	17-11/16"	14-11/16"	21-3/8"

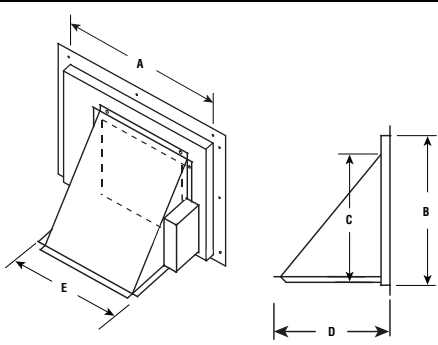
**Note:** The drawings on this page are prepared by the manufacturer in order to provide detail regarding job layout only. These drawings are not intended to be used as a basis to construct, build or modify the items depicted in the drawings. The manufacturer is not responsible for the unauthorized use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

# Optional Equipment – Outside Air Damper

**Table 30. BAYOSAH001 and 002A**

	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 31. BAYDMPR101 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"	

**Note:** 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.

# Outline Drawing

Figure 17. 4DCL4024-4036

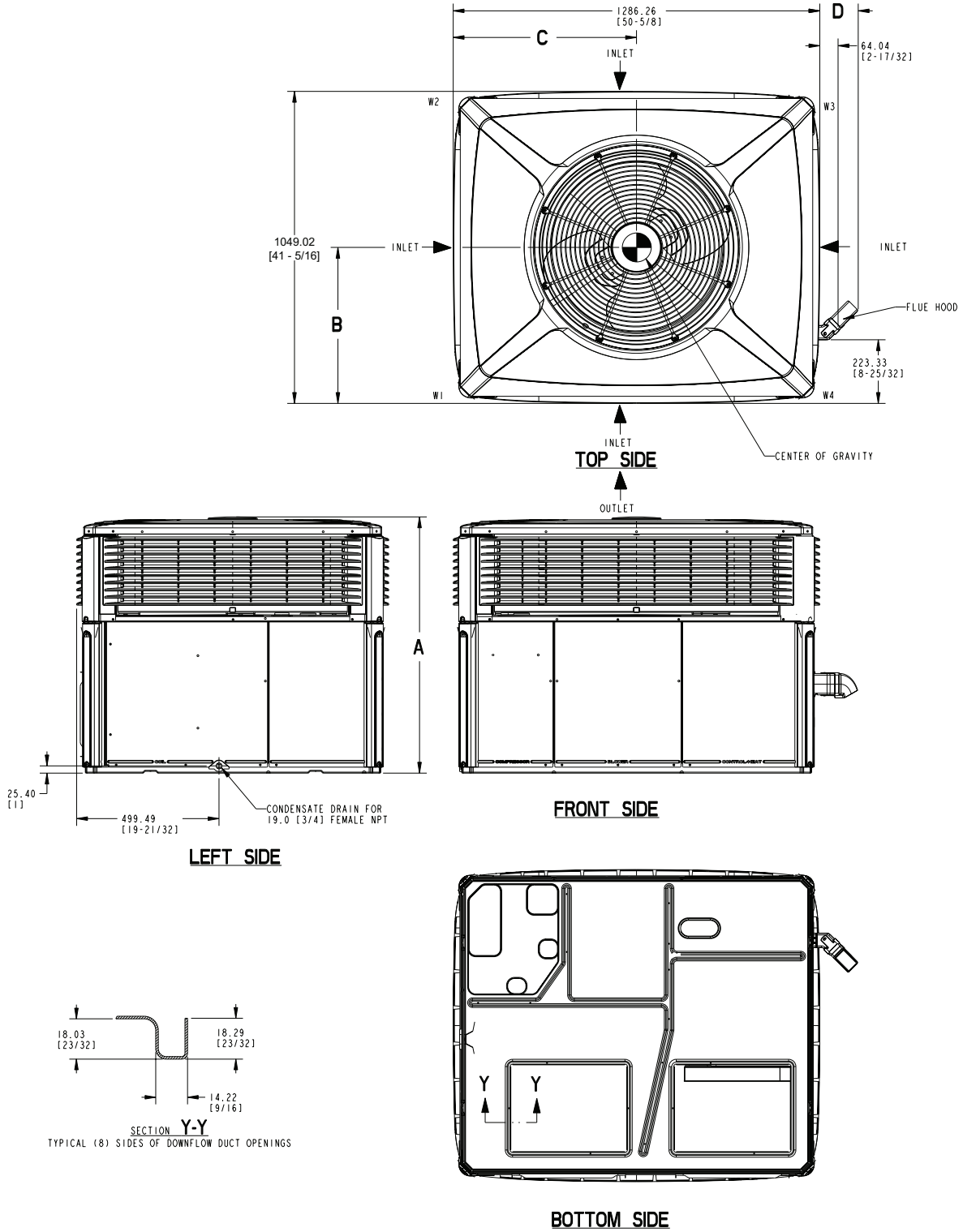
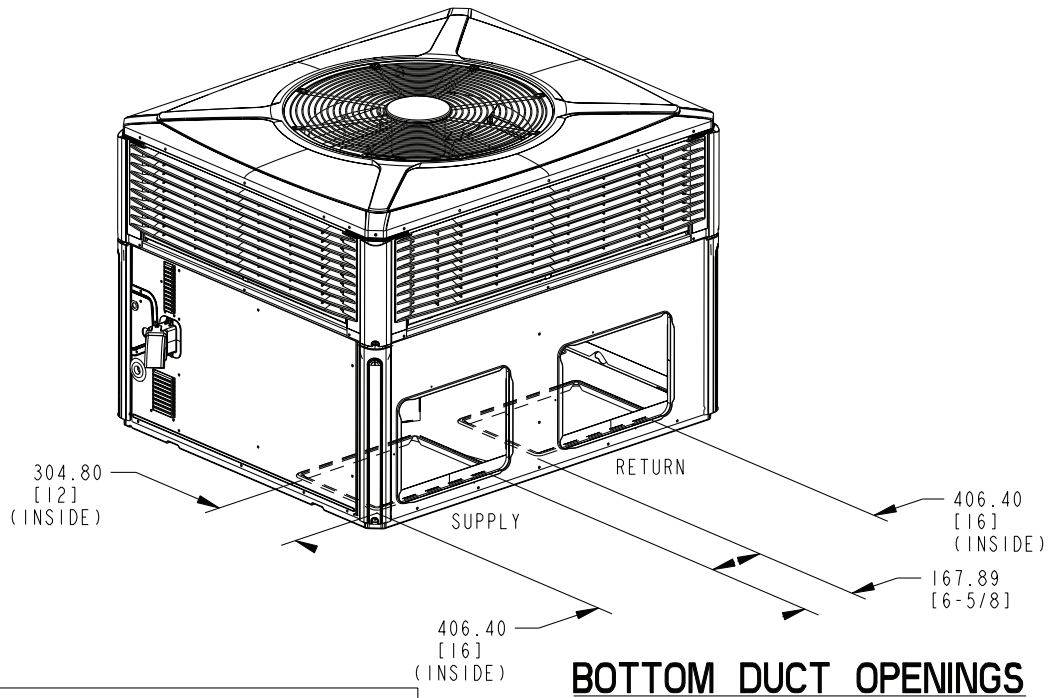


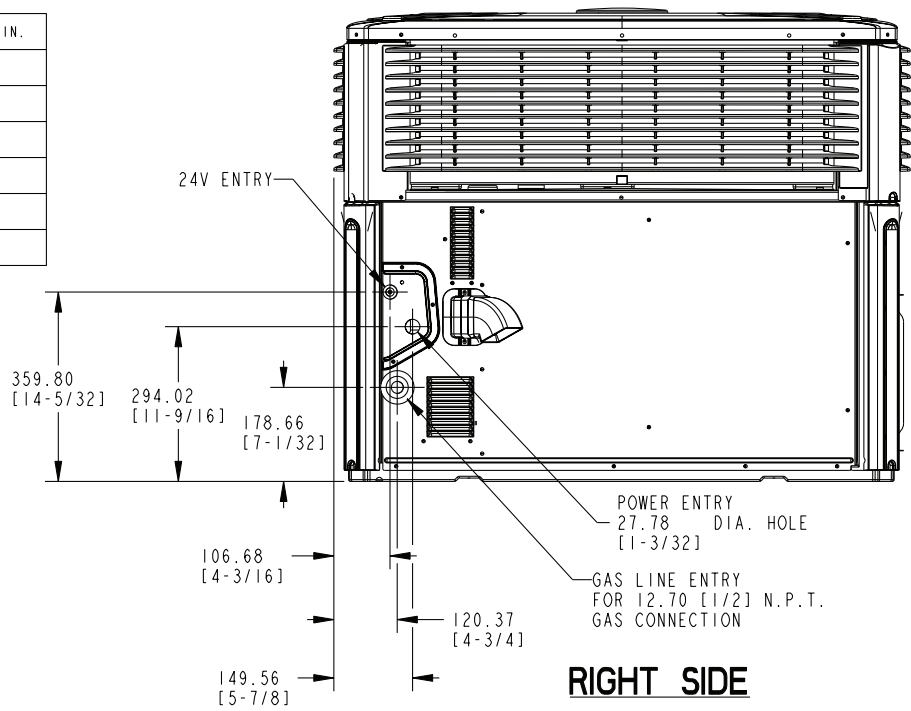
Figure 18. 4DCL4024-4036



**BOTTOM DUCT OPENINGS**

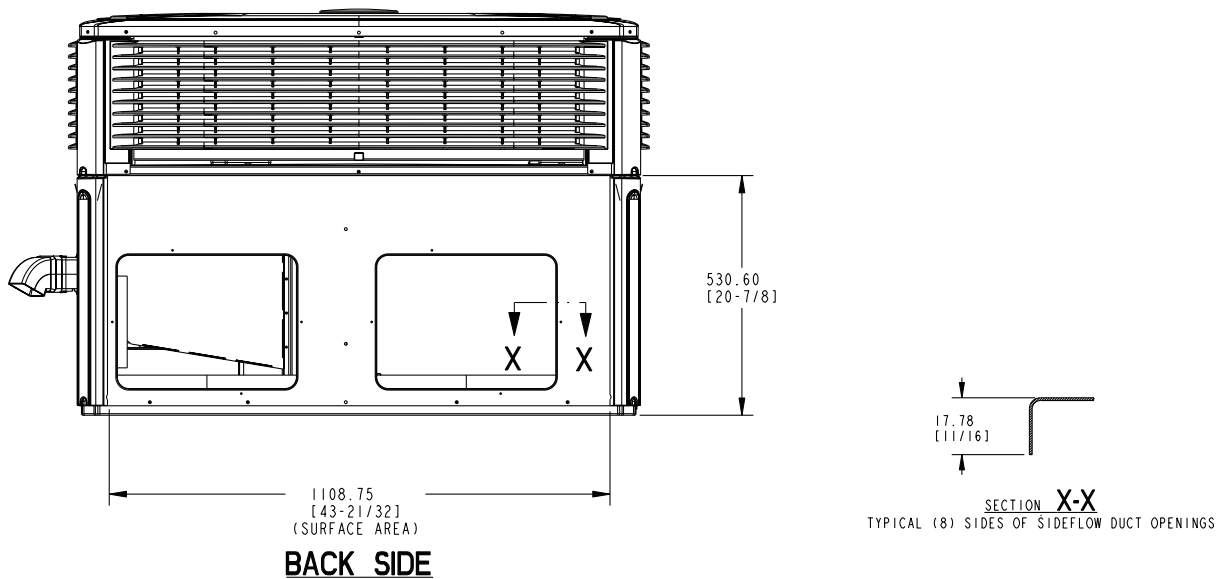
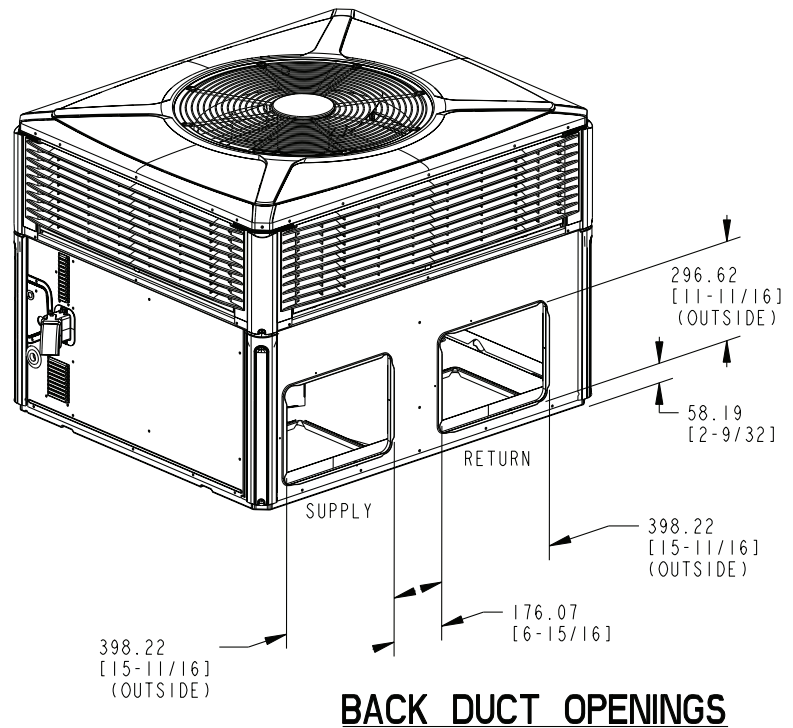
RECOMMENDED SERVICE CLEARANCE MM/IN.		
		WITH ECONOMIZER
BACK SIDE	304.8 [12]	762.0 [30]
LEFT SIDE	762.0 [30]	914.4 [36]
RIGHT SIDE	914.4 [36]	-
FRONT SIDE	1066.8 [42]	-

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**

Figure 19. 4DCL4024-4036



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
4DCL4024 (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]
4DCL4030 (070)		117.86 [4-5/8]								
4DCL4036/4DCL6036 (070)	949.99 [37-3/8]		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]

Figure 20. 4DCL4042-4060

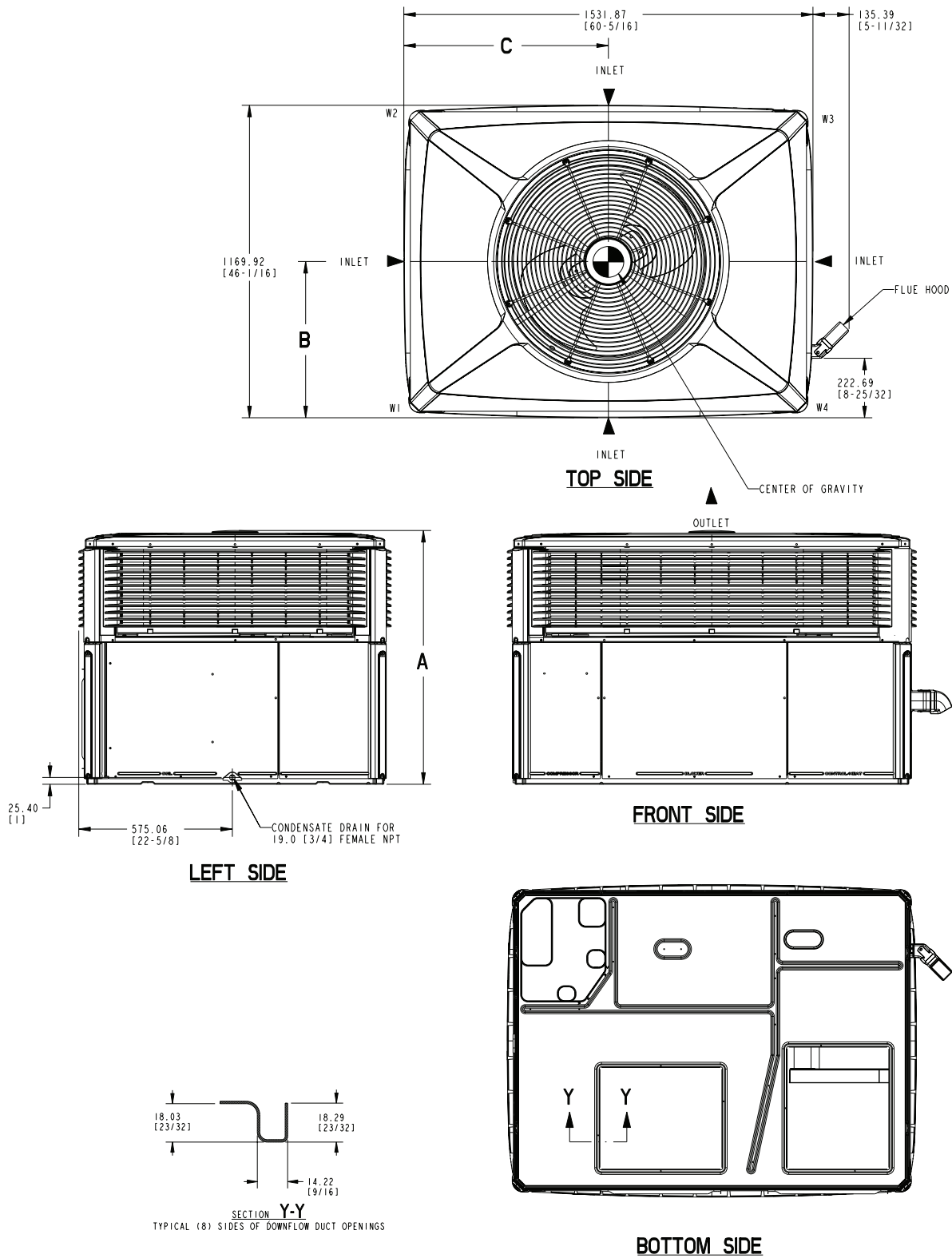
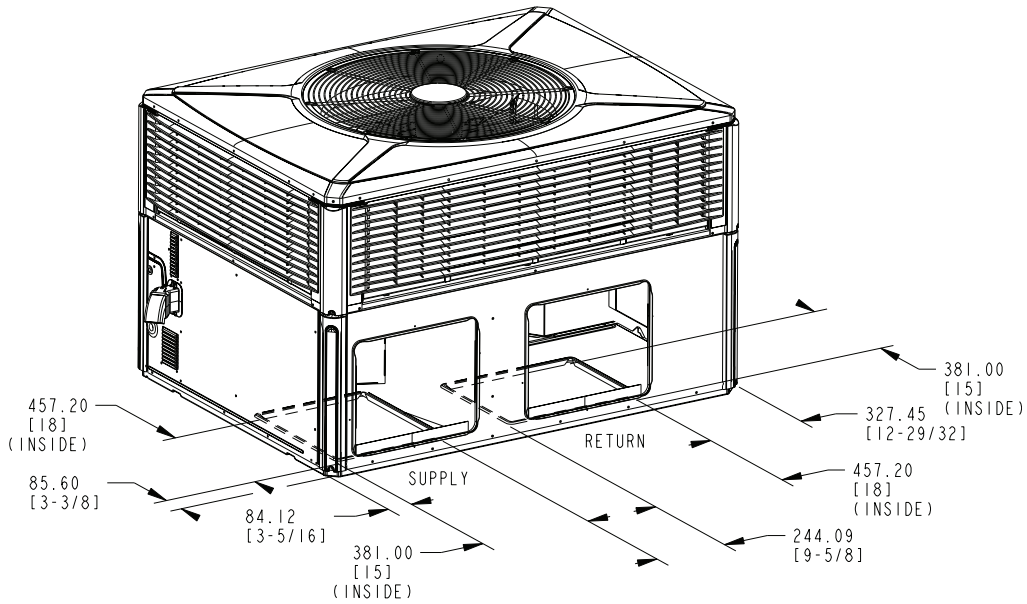


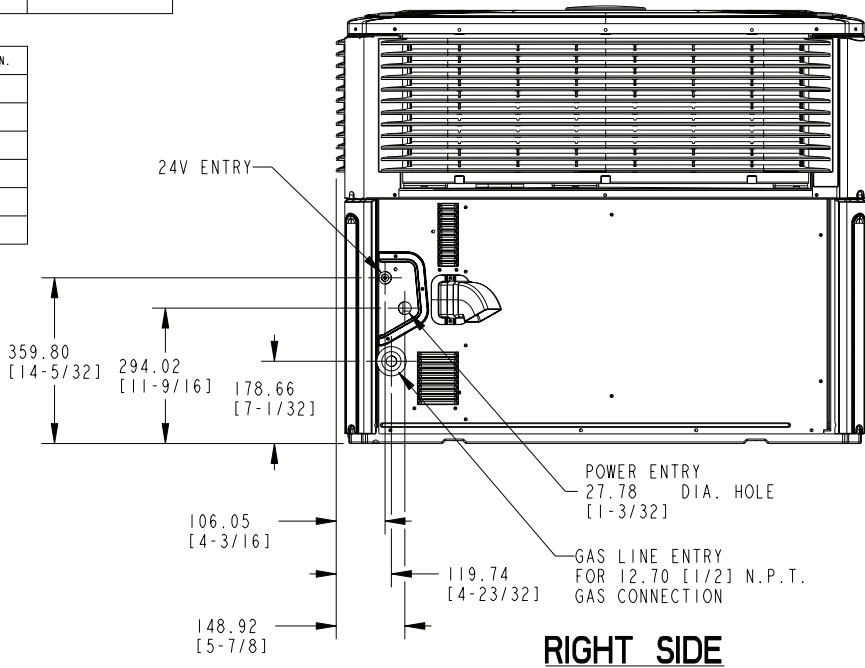
Figure 21. 4DCL4042-4060



**BOTTOM DUCT OPENINGS**

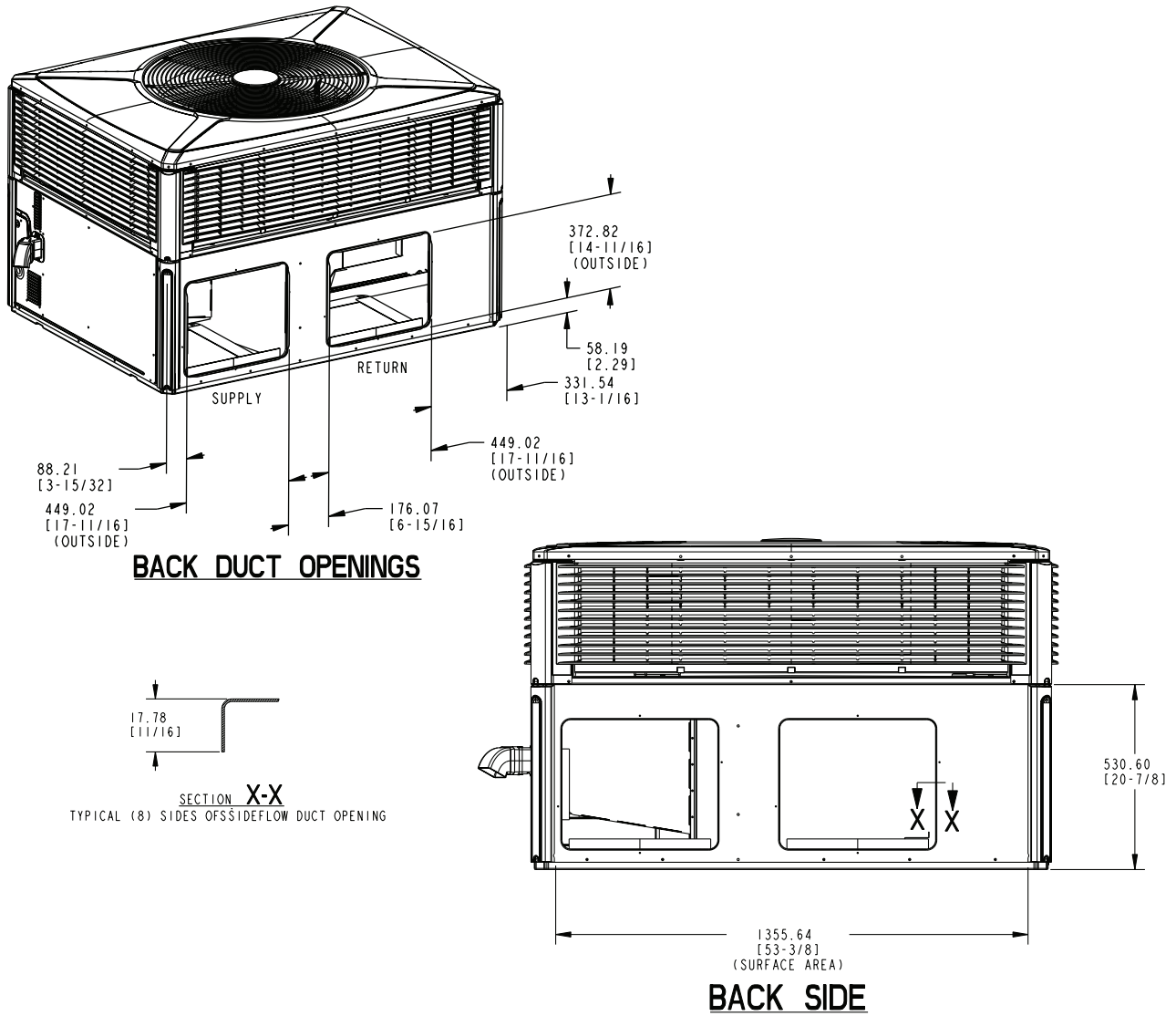
RECOMMENDED SERVICE CLEARANCE MM/IN.		
		WITH O.A. DAMPER/ECON.
BACK SIDE	304.8 [12]	762.0 [30]
LEFT SIDE	914.4 [36]	1066.8 [42]
RIGHT SIDE	914.4 [36]	-
FRONT SIDE	1066.8 [42]	-

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]



**RIGHT SIDE**

Figure 22. 4DCL4042-4060



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
4DCL4042 (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]
4DCL4048 (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]
4DCL4060 (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]



# 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 4DCY4 heating/cooling unit design is UL certified to UL Standards 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 and evaporator sections. 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 compressor features internal over temperature and pressure protector, total dipped hermetic motor. Other features include: centrifugal oil pump, 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. 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.



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