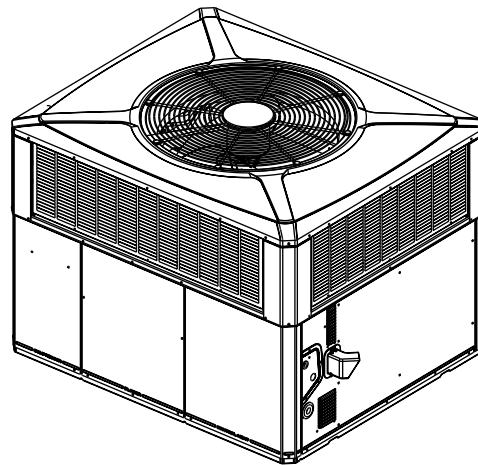


Submittal

Single Packaged Gas/Electric 14 SEER Convertible

4YCY4060



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

Product Specifications

MODEL	4YCY4060B3120B
RATED Volts/PH/Hz	208-230/3/60
Performance Cooling BTUH (a)	58500
Indoor Airflow (CFM)	1800
Power Input (KW)	5.478
EER/SEER (BTU/Watt-Hr.)(b)	12 / 14
Sound Power Rating [dB(A)]	76
Performance Heating (c)	
Input BTUH - 1st Stage (Natural Gas)	90000
Input BTUH - 2nd Stage (Natural Gas)	120000
AFUE	
Temp. Rise — Min/Max (°F)	30 / 60
Orifice Qty / Drill Size (Natural Gas)(d)	3 / #32
POWER CONN.—V/Ph/Hz	208-230/3/60
Min. Brch. Cir. Ampacity(e)	18.5
Fuse Size — Max. (amps)	25
Fuse Size — Recmd. (amps)	25
COMPRESSOR	SCROLL
Volts/Ph/Hz	208-230/3/60
R.L. Amps — L.R. Amps	10.4 / 73
OUTDOOR COIL — TYPE	SPINE-FIN
Rows/F.P.I.	2 / 24
Face Area (sq.ft.)	23.57
Tube Size (in.)	3/8
INDOOR COIL — TYPE	PLATE FIN
Rows/F.P.I.	4 / 15
Face Area (sq.ft.)	5.0
Tube Size (in.)	3 / 8
Refrigerant Control	EXPANSION VALVE
Drain Conn. Size (in.)	3/4 FEMALE NPT
OUTDOOR FAN — TYPE	PROPELLER
Dia. (in.)	28.2
Drive/No. Speeds	DIRECT / 1

CFM @ 0.0 in. w.g.(f)	5730
Motor — HP/R.P.M.	1/3 / 830
Volts/Ph/Hz	208-230/3/60
F.L. Amps/L.R. Amps	1.1 / 1.9
INDOOR FAN — TYPE	CENTRIFUGAL
Dia x Width (in.)	11 X 10
Drive/No. Speeds	DIRECT / VARIABLE
CFM @ 0.0 in. w.g.	SEE FAN PERFORMANCE TABLE
Motor — HP/R.P.M.	1 / VARIABLE
Volts/Ph/Hz	208-230/1/60
F.L. Amps/L.R. Amps	4.3 / 4.3
COMBUSTION FAN — TYPE	CENTRIFUGAL
Drive/No. Speeds	DIRECT / 2
Motor — HP/R.P.M.	1/45 / 2800/1500
Volts/Ph/Hz	208-230/1/60
FLA	0.34
FILTER / FURNISHED	NO
Type Recommended	THROWAWAY
Recmd. Face Area (sq. ft.)(g)	5.3
REFRIGERANT	R410A
Charge (lbs.)	7.80
GAS PIPE SIZE (in.)	1/2
DIMENSIONS	H X W X L
Crated (in.)	47.86 / 47.4 / 61.75
WEIGHT	
Shipping (lbs.) / Net (lbs.)	676 / 548

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

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

(c) 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.

(d) Convertible to LPG.

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

(f) Standard Air — Dry Coil — Outdoor.

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

Determine Unit Clearances

Figure 1. Space on Sides Requirements

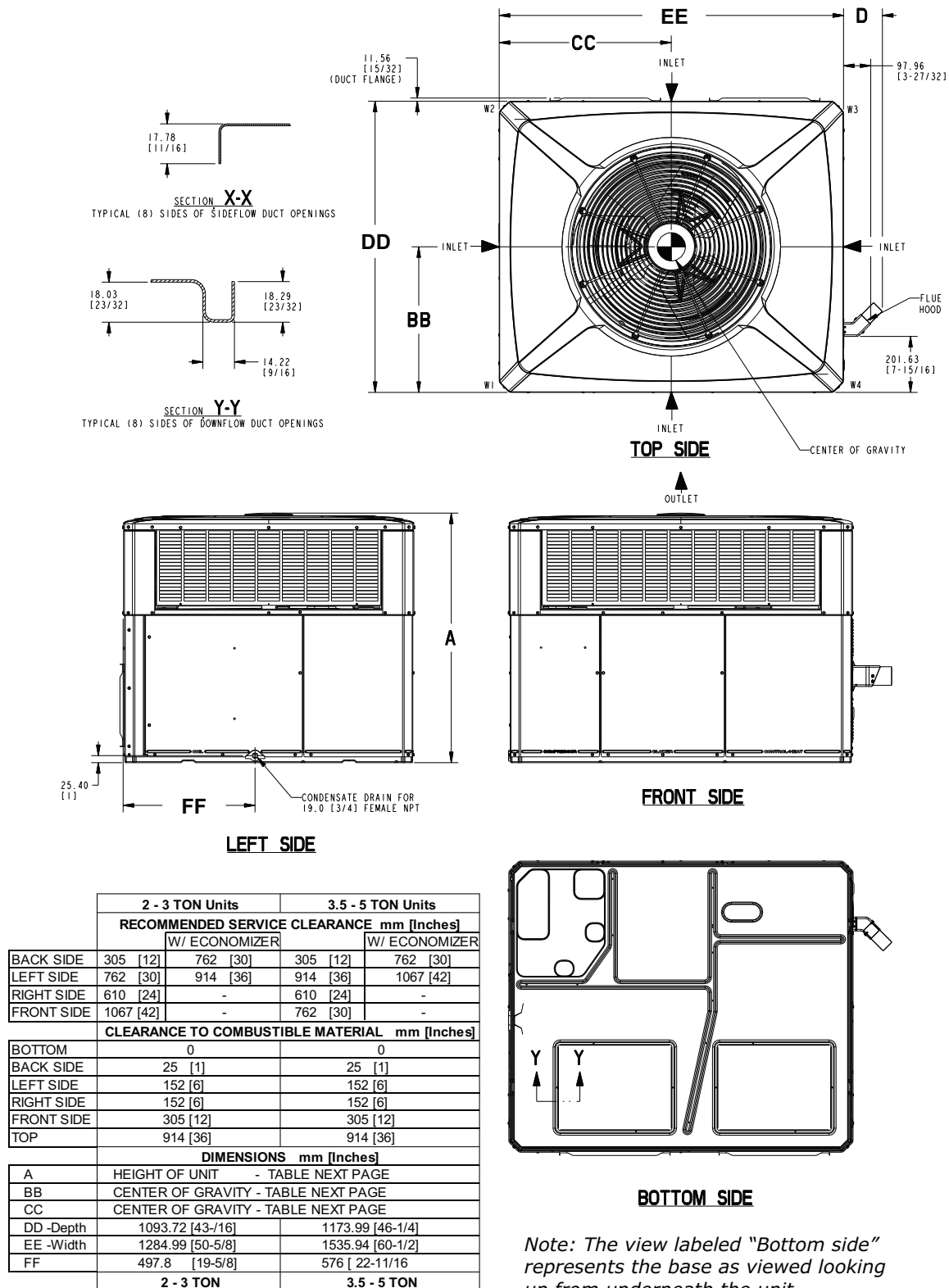
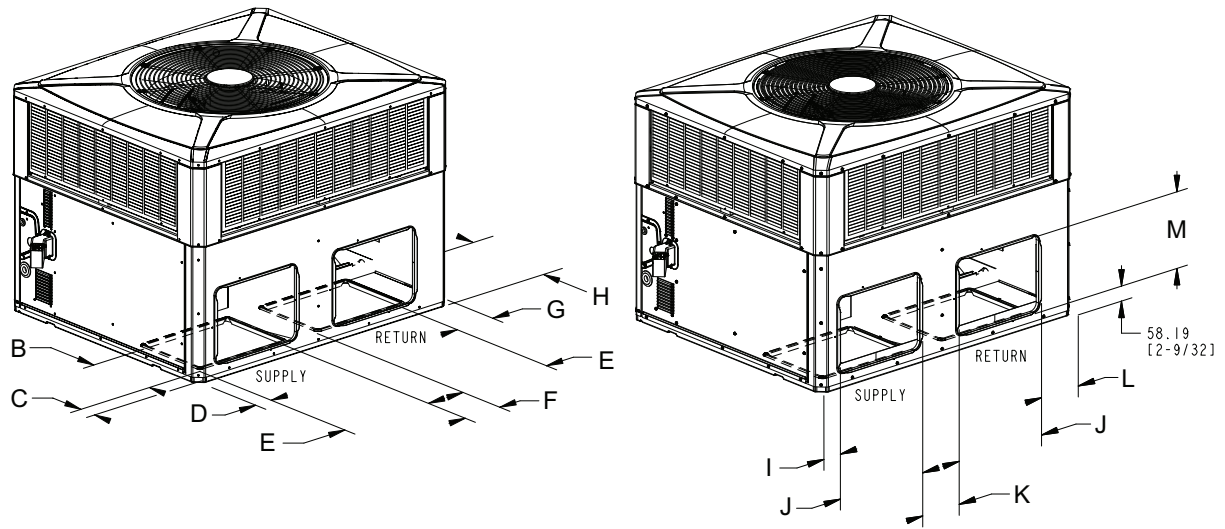
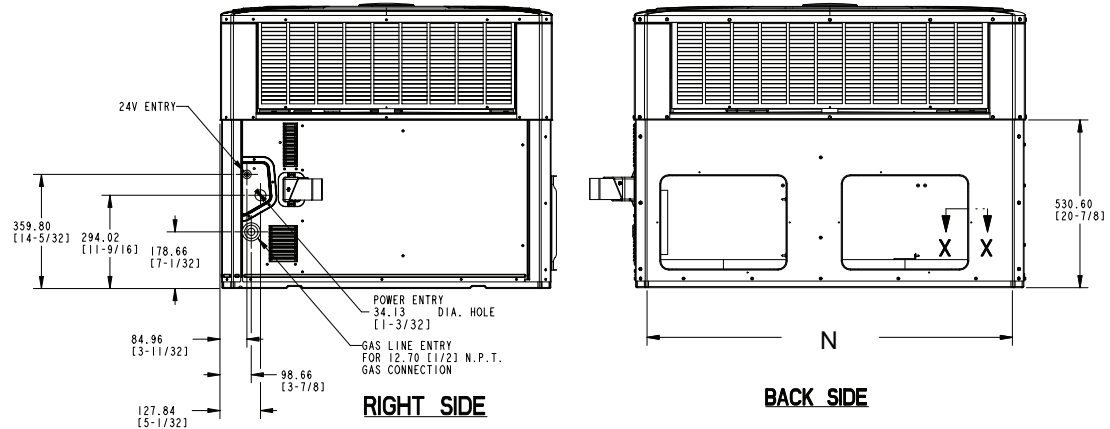


Figure 2. Bottom and Back Duct Openings



BOTTOM DUCT OPENINGS

BACK DUCT OPENINGS



PHYSICAL DIMENSIONS mm[In]												
	B	C	D	E	F	G	H	I	J	K	L	M
4YCY4036	304.80 [12]	75.41 [2.93]	75.41 [2.93]	406.40 [16]	167.89 [6.61]	406.40 [16]	173.46 [6.8]	79.50 [3.13]	398.22 [15.68]	176.07 [6.93]	177.55 [6.99]	296.62 [11.68]
4YCY4048	457.20 [18]	85.60 [3.37]	84.12 [3.31]	381.00 [15]	244.09 [9.61]	318.75 [12.55]	327.45 [12.89]	88.21 [3.47]	449.02 [17.68]	176.07 [6.93]	331.54 [13.05]	372.82 [14.68]
4YCY4060												1355.64 [53.37]

	HEIGHT-A mm[inch]	Corner Weights KG/LBS				SHIPPING WEIGHT KG/LBS	UNIT WEIGHT KG/LBS	Center Of Gravity mm[inch]	
		W1	W2	W3	W4			BB	CC
4YCY4036* (070)	949.33 [37-3/8]	60 [133]	36 [80]	30 [67]	50 [111]	222 [488]	178 [392]	389 [15]	559 [22]
4YCY4036* (090)	949.33 [37-3/8]	61 [135]	37 [81]	31 [68]	51 [113]	224 [493]	180 [397]	389 [15]	559 [22]
4YCY4048* *	949.33 [37-3/8]	77 [170]	52 [115]	47 [104]	69 [153]	303 [669]	245 [541]	445 [18]	699 [28]
4YCY4060* *	1050.93 [41-3/8]	82 [181]	46 [102]	43 [95]	77 [169]	307 [676]	249 [548]	401 [16]	711 [28]

Indoor Fan Performance

To set indoor motor for the desired speed options, connect the motor leads in the taps as shown below:

INDOOR FAN PERFORMANCE					EXTERNAL STATIC PRESSURE (IN.WG)							
4YCY4060 ^(a)		Horizontal Airflow [Down Airflow]										
Motor Speed		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
LOW	WATTS	394 [443]	427 [461]	464 [493]	504 [532]	548 [571]	591 [607]	633 [642]	668 [680]	—	—	—
	CFM	1673 [1796]	1772 [1741]	1799 [1726]	1793 [1725]	1779 [1722]	1771 [1712]	1767 [1698]	1756 [1692]	—	—	—
MED	WATTS	695 [740]	642 [697]	660 [715]	710 [763]	764 [819]	811 [866]	849 [892]	893 [894]	966 [872]	1108 [835]	—
	CFM	2054 [2010]	2036 [1987]	2031 [1979]	2032 [1977]	2033 [1976]	2031 [1969]	2023 [1950]	2012 [1913]	2002 [1852]	2000 [1759]	—

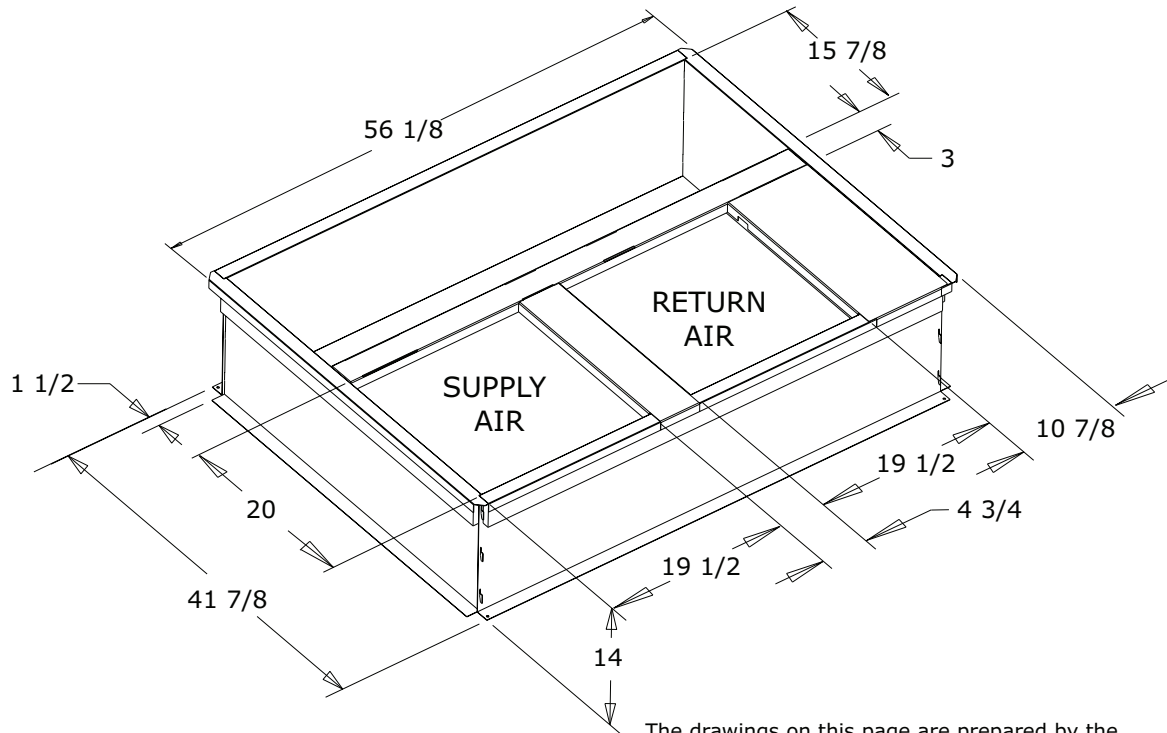
^(a) Factory Default Setting

Table 1. 4YCY* Heating Airflow, horizontal or downflow from .2 to .6" wg**

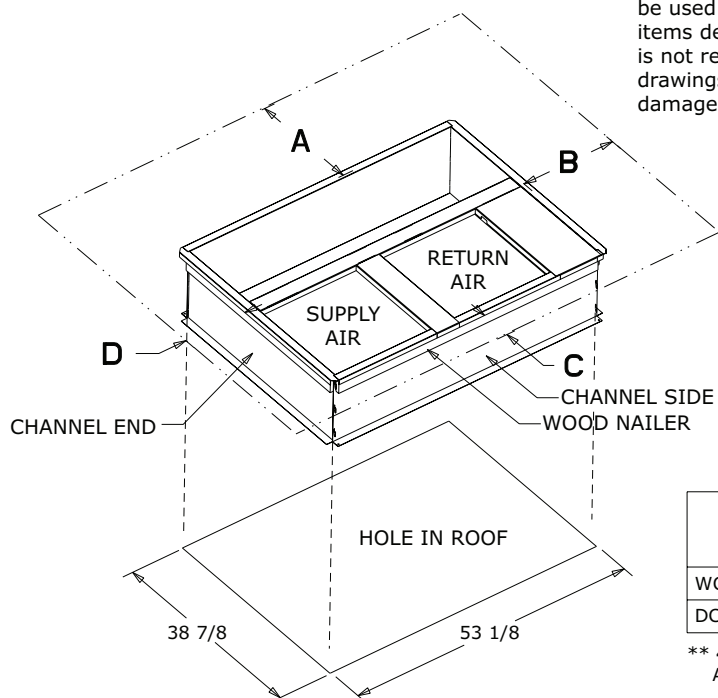
4YCY4060				
Switch Setting		Selection	Nominal Airflow	
			Low Stage	High Stage
7-OFF	8-OFF	A	1375	1800
7-ON	8-OFF	B	1450	1900
7-OFF	8-ON	C	1525	1975
7-ON	8-ON	D	1575	2075
* Can be 1 or 3				

Full Perimeter Roof Mounting Curb

Figure 3. 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.

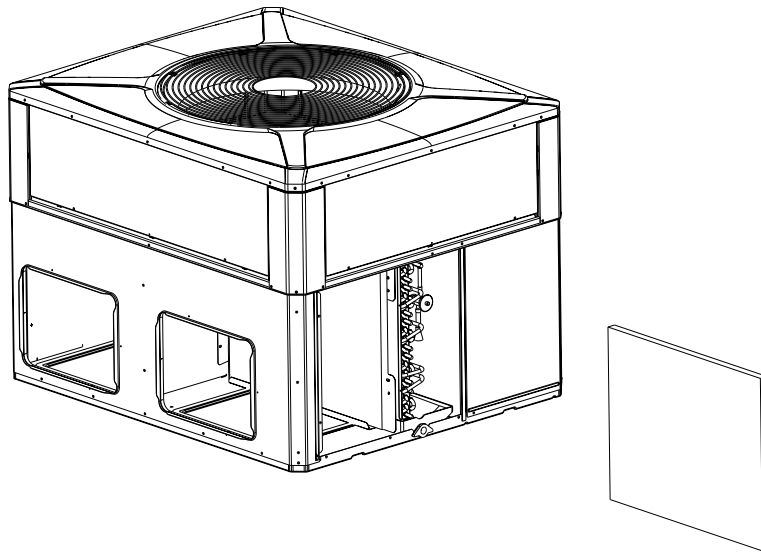


	SERVICE CLEARANCE DIMENSIONS			
	A	B	C	D
WC*/TC*	42.00	36.00	12.00**	24.00
DC*/YC*	42.00	36.00	12.00**	36.00

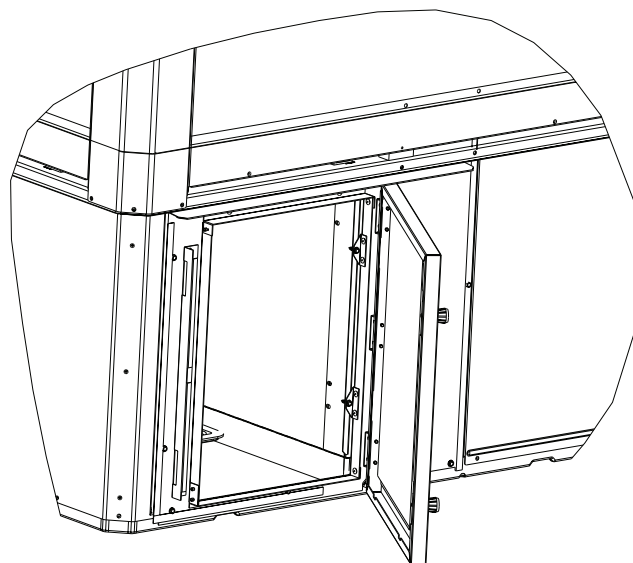
** 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

Optional Equipment — Filter Rack

**Figure 4. BAYFLTR101 Filter Rack (2.0 – 3.0 Ton Models)
BAYFLTR201 (3.5 – 5.0 Ton Models)
(Mounts in Filter/Coil Section)**



**Figure 5. BAYACCDOR1A Hinged Filter Access Door (2.0 – 3.0 Ton Models)
BAYACCDOR2A (3.5 – 5.0 Ton Models)
Replaces Filter/Coil Access Panel**



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Optional Equipment — Economizer

**Table 2. BAYECON101,102A Down Discharge Economizer and Rain Hood
(Mounts Over Horizontal Return Air Opening)**

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

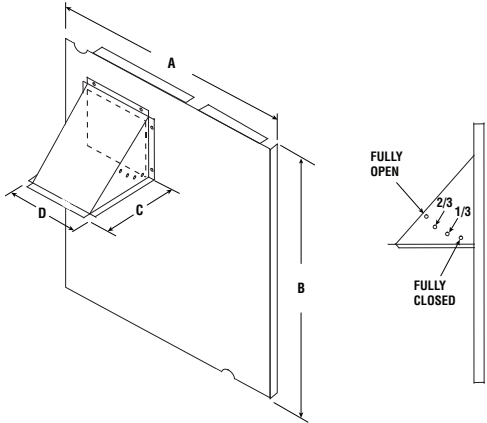
Table 3. BAYCON200, 201A Horizontal Economizer and Rain Hood

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

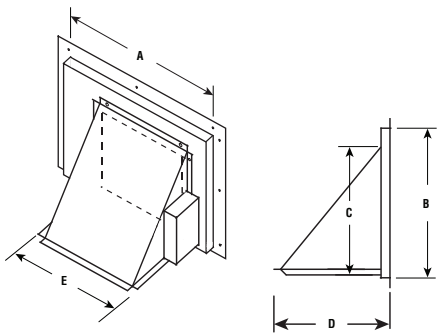
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Optional Equipment — Outside Air Damper

**Table 4. BAYOSAH001 and 002A Outside Air Damper
(Replaces Filter/Coil Access Panel)**

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

**Table 5. 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"

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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 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 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.

Compressors

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

Refrigeration System

All units shall have refrigerant control. Service pressure tap ports and a refrigerant line filter shall be standard.

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

Condenser Coil

The **Spine Fin™** condenser coil shall be continuously wrapped, corrosion resistant all aluminum with minimum brazed joints. This coil is 3/8 inch 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.

About Trane and American Standard Heating and Air Conditioning

Trane and American Standard create comfortable, energy efficient indoor environments for residential applications. For more information, please visit www.trane.com or www.americanstandardair.com.



The AHRI Certified mark indicates company participation in the AHRI Certification program. For verification of individual certified products, go to ahridirectory.org.

The manufacturer 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.

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Supersedes 4YCY4060A-SUB-3G-EN (July 2020)

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