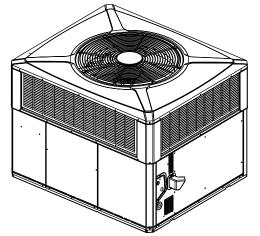
Submittal

Single Packaged Gas Heating / Electric Cooling

4YCC4030E1070A



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

Product Specifications

MODEL	4YCC4030E1070A					
RATED Volts/PH/Hz	208-230/1/60					
Performance Cooling BTUH (a)	28000					
Indoor Airflow (CFM)	880					
Power Input (KW)	2.21					
EER2/SEER2 (BTU/Watt-Hr.)	11.00 / 13.40					
Sound Power Rating [dB(A)] (b)	70.0					
PERFORMANCE HEATING(c)						
Input BTUH-1st Stage (Natural Gas) (d)	70000					
AFUE	81					
Temp. Rise — Min/Max (°F)	30 / 60					
Orifice Qty/Drill Sz. (Natural Gas)	2 / #33					
POWER CONN. — V/Ph/Hz	208-230/1/60					
Min. Brch. Cir. Ampacity (e)	20.8					
Fuse Size — Max. (amps)	30					
Fuse Size — Recmd. (amps)	30					
COMPRESSOR	SCROLL					
VOLTS/PH/HZ	208-230/1/60					
R.L. Amps — L.R. Amps	12.8 / 67.8					
OUTDOOR COIL — TYPE	SPINE-FIN					
Rows/F.P.I	2 / 24					
Face Area (sq. ft.)	13.32					
Tube Size (in.)	3/8					
INDOOR COIL — TYPE	MCHE					
Rows/F.P.I	2/16					
Face Area (sq. ft.)	2.7					
Tube Size Width (in.)	0.81					
Refrigeration Control	EXPANSION VALVE					
Drain Conn. Size (in.)	3/4 FEMALE NPT					
OUTDOOR FAN — TYPE	SWEPT					
DIA. (IN.)	23.4					
DRIVE/NO. SPEEDS	DIRECT / 1					
CFM @ 0.0 in. w.g. ^(f)	2800					
Motor — HP/R.P.M	1/6/ 825					
Volts/Ph/Hz	208-230/1/60					
F.L. Amps/L.R Amps	0.85 / 1.65					

MODEL	4YCC4030E1070A				
INDOOR FAN — TYPE	CONSTANT TORQUE ECM				
Dia. x Width (in.)	10.62 X 10.62				
Drive/No. Speeds	DIRECT / 4				
CFM @ 0.0 in. w.g. (9)	SEE FAN PERF TABLE				
Motor — HP/R.P.M.	1/2 / 1050				
Volts/Ph/Hz	208-230/1/60				
F.L. Amps	4.1				
COMBUSTION FAN — TYPE	CENTRIFUGAL				
Drive/No. Speeds	DIRECT / 1				
Motor — HP/R.P.M.	1/34 / 3290				
Volts/Ph/Hz	230/1/60				
FLA	0.20				
FILTER / FURNISHED	NO				
Type Recommended	THROWAWAY				
Recmd. Face Area (sq. ft) (h)	4.0				
REFRIGERANT	R-410A				
Charge (lbs.)	7.38				
CHARGING SPECIFICATIONS					
Subcooling	8°				
GAS PIPE SIZE (in.)	1/2				
DIMENSIONS	HXDXW				
Crated (in.)	48 X 45 X 52				
WEIGHT					
Shipping (lbs.) / Net (lbs.)	451 / 377				
(a) Data dia anno adam anno sitte AUDI Char	-dd-210/240 AUDI -tdd				

- (a) Rated in accordance with AHRI Standard 210/240. AHRI standard rating conditions are: 80 D.B.67 W.B. entering air to indoor coil. 95 D. B. entering air to outdoor coil.
- (b) Sound Power values are not adjusted for AHRI 270–95 tonal corrections.
- $^{\rm (c)}$ 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) Based on U.S. Government Standard Tests.
- (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.

Outline Drawings

TOP

ВВ

475.23 [18-23/32]

2 - 3 TON

Figure 1. 2 - 5 Ton Models EE D H CC-INLET | 11.56 | [15/32] (DUCT FLANGE) 97.96 17.78 [11/16] SECTION X-X

TYPICAL (8) SIDES OF SIDEFLOW DUCT OPENINGS DD 1 18.03 [23/32] 18.29 [23/32] BB 7 201.63 [7-15/16] SECTION Y-Y
TYPICAL (8) SIDES OF DOWNFLOW DUCT OPENINGS TOP SIDE -CENTER OF GRAVITY OUTLET FRONT SIDE CONDENSATE DRAIN FOR 19.0 [3/4] FEMALE NPT LEFT SIDE 2 - 3 TON Units 3.5 - 5 TON Units RECOMMENDED SERVICE CLEARANCE mm [Inches] W/ ECONOMIZER W/ ECONOMIZER BACK SIDE | 305 [12] 305 [12] 762 [30] 762 [30] LEFT SIDE 762 [30] 914 [36] 914 [36] 1067 [42] RIGHT SIDE 610 [24] 610 [24] FRONT SIDE | 1067 [42] 762 [30] CLEARANCE TO COMBUSTIBLE MATERIAL mm [Inches] воттом 25 [1] BACK SIDE 25 [1] LEFT SIDE 152 [6] 152 [6] RIGHT SIDE 152 [6] 152 [6] FRONT SIDE 305 [12] 305 [12] 914 [36] 914 [36] DIMENSIONS mm [Inches] HEIGHT OF UNIT - TABLE NEXT PAGE CENTER OF GRAVITY - TABLE NEXT PAGE **BOTTOM SIDE** CENTER OF GRAVITY - TABLE NEXT PAGE DD -Depth 1049.02 [41-5/16] 1125.22 [44-5/16] 1487.17 [58-9/16] Note: The view labeled "Bottom side" EE -Width 1240.28 [48.27-27/32]

4YCC4030E-SUB-1A-EN 3

represents the base as viewed looking

up from underneath the unit.

551.43 [21-23/32]

3.5 - 5 TON

BOTTOM DUCT OPENINGS

Figure 2. 2 - 5 Ton Models

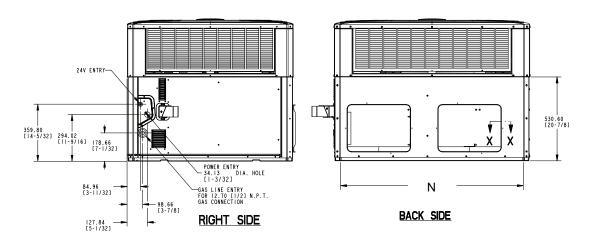
RETURN

M

SUPPLY

RETURN

BACK DUCT OPENINGS



			PHYSICAL DIMENSIONS mm[in]											
	HEIGHT-A mm[inch]	В	С	D	E	F	G	Н	ı	J	K	L	M	N
4YCC4024	898.53 [35-3/8]	304.80	75.41	75.41	406.40	167.89	173.46	304 80	79.50	398.22	176.07	177.55	296.62	1155.45
4YCC4030	949.33 [37-3/8]	[12]	[2.93]	[2.93]	[16]		[6-27/32]		[3.13]	[15.68]	[6.93]	[6.99]	[11.68]	[45.49]
4YCC4036	0 10.00 [07 0/0]	[12]	[2.93]	93] [2.93]] [10]	[0.01]	[0-21/02]	[12]	[3.13]	[15.00]	[0.93]	[6.99]	[11.00]	[45.49]
4YCC4042	898.53 [35-3/8]	457.20	75.41	75.41	381.00	244.09	318.75	381.00	79.50	449.02	176.07	322.84	372.82	1402.34
4YCC4048	1000.13 [35-3/8]	[18]	[2.97]	[2.97]	[15]	[9.61]	[12.55]	[15]	[3.13]	[17.68]	[6.93]	[12.71]	[14.68]	[55.21]
4YCC4060	- 1000.13 [33-3/0]	[10]	[2.97]	[2.97]	[15]	[9.61]	[12.55]	[IO]	[3.13]	[17.00]	[6.93]	[12.71]	[14.00]	[55.21]

		Corner Wei	ghts KG/LBS		SHIPPING	UNIT	Center Of Gra	avity mm[inch]
	W1	W2	W3	W4	WEIGHT WEIGHT KG/LBS KG/LBS		BB	CC
4YCC4024* (060)	58 [129]	37 [81]	26 [58]	41 [90]	196 [432]	162 [358]	480 [19]	528 [21]
4YCC4030* (070)	61 [135]	39 [85]	28 [61]	43 [95]	205 [451]	171 [377]	407 [16]	594 [23]
4YCC4036* (070)	61 [134]	39 [84]	28 [60]	43 [95]	205 [438]	171 [374]	407 [16]	594 [28]
4YCC4036* (090)	61 [136]	39 [86]	28 [61]	43 [96]	205 [453]	171 [379]	407 [16]	594 [28]
4YCC4042*(060)	71 [157]	47 [103]	35 [76]	53 [117]	252 [555]	202 [202]	470 [19]	731 [29]
4YCC4042*(090)	72 [158]	47 [104]	35 [78]	54 [118]	255 [561]	207 [202]	470 [19]	731 [29]
4YCC4048*(070)	71 [157]	45 [98]	33 [73]	54 [119]	250 [552]	202 [448]	433 [17]	743 [29]
4YCC4048*(090)	72 [159]	45 [99]	34 [75]	55 [120]	253 [557]	205 [453]	433 [17]	743 [29]
4YCC4060*(090)	77 [170]	46 [101]	35 [76]	58 [128]	263 [580]	216 [476]	433 [17]	743 [29]
4YCC4060*(115)	78 [172]	46 [102]	35 [77]	59 [130]	266 [586]	219 [482]	414 [16]	635 [25]

Indoor Fan Performance

Table 1. Airflow Tables - 2.5 Tons

4YCC4030E1	.070	EXTERNAL STATIC PRESSURE (IN.WG) 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		
Constant	CFM		APPROXIMATELY 40-50% COOLING OR HEATING AIRFLOW											
Circulation	WATTS													
	CFM	1051 (1041)	994 (984)	939 (930)	889 (880)	840 (831)	-	-	-	-	-	-		
Cooling - Low	WATTS	126 (126)	134 (135)	142 (143)	150 (150)	158 (158)	-	-	-	-	-	-		
Cooling - Med	CFM	-	-	1108 (1097)	1070 (1059)	1027 (1017)	975 (965)	920 (911)	875 (866)	-	-	-		
Cooling - Med	WATTS	-	-	239 (240)	247 (248)	256 (258)	267 (269)	274 (276)	282 (284)	-	-	-		
Cooling - High	CFM	-	-	-	-	1099 (1088)	1059 (1048)	1017 (1007)	968 (959)	-	-	-		
Cooling - High	WATTS	-	-	-	-	259 (260)	268 (270)	278 (279)	289 (290)	-	-	-		
Heating Law	CFM	1148 (1136)	1103 (1091)	1061 (1050)	1022 (1012)	982 (972)	932 (922)	-	-	-	-	-		
Heating - Low	WATTS	199 (197)	208 (205)	216 (214)	224 (222)	233 (230)	243 (241)	-	-	-	-	-		
Hoating High	CFM	-	-	-	1158 (1147)	1122 (1111)	1084 (1073)	1039 (1028)	988 (978)	-	-	-		
Heating - High	WATTS	-	-	-	301 (298)	310 (307)	320 (317)	331 (328)	343 (339)	-	-	-		

Note: Cooling airflow must not exceed 1125 CFM due to condensate blowoff.

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

Table 2. Motor Wiring: 4YCC4024 - 42, 4YCC4060

MOTOR WIRING			MOTOR TAP						
MODE/SPEED	1	2	3	4	5				
CONSTANT CIRCULATION	G (GR)								
COOLING-LOW & HEATING-LOW	G (GR)	Y (YL)		W (PR)					
COOLING-LOW & HEATING-HIGH	G (GR)	Y (YL)			W (PR)				
COOLING-MED & HEATING-LOW	G (GR)		Y (YL)	W (PR)					
COOLING-MED & HEATING-HIGH	G (GR)		Y (YL)		W (PR)				
COOLING-HIGH & HEATING-LOW	G (GR)			W (PR)	Y (YL)				
COOLING-HIGH & HEATING-HIGH	G (GR)			Y (YL)	W (PR)				
G signal (GR - green wire), Y signal (YL - yellow wire), W signal (PR - purple wire)									

Full Perimeter Roof Mounting Curb

Figure 3. 2.0 - 3.0 Ton Models **BAYCURB050A Full Perimeter Roof Mounting Curb** 17 7/8 46 3/8 RETURN 3 5/8 **AIR** SUPPLY AIR 19 1/2 2 3/16 19 1/2 15 38 7/8 1 1/2 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. RETURN SUPPLY **CHANNEL SIDE CHANNEL END** -WOOD NAILER SERVICE CLEARANCE DIMENSIONS HOLE IN ROOF WC * / TC * 42.00 36.00 | 12.00** 24.00

6 4YCC4030E-SUB-1A-EN

DC*/YC* 42.00

AIR ACCESSORY

36.00 | 12.00**

** 42.00 WITH ECONOMIZER WITH 25% FRESH

43 3/8

35 7/8

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)

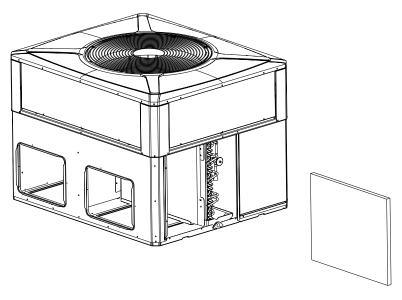
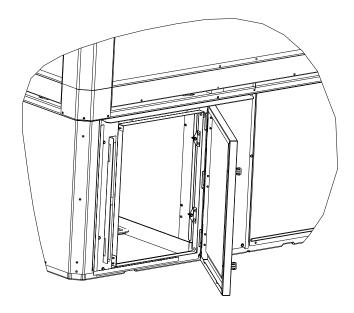


Figure 5. BAYACCDOR1A Hinged Filter Access Door (2.0 – 3.0 Ton Models)

BAYACCDOR2A (3.5 – 5.0 Ton Models)

Replaces Filter/Coil Access Panel



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Optional Equipment — Economizer

Table 3. BAYECON101,102A Down Discharge Economizer and Rain Hood (Mounts Over Horizontal Return Air Opening)

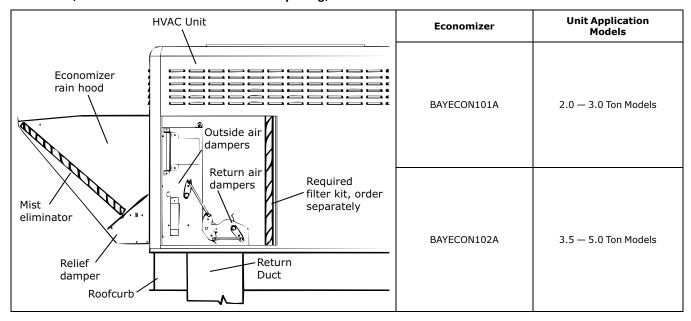
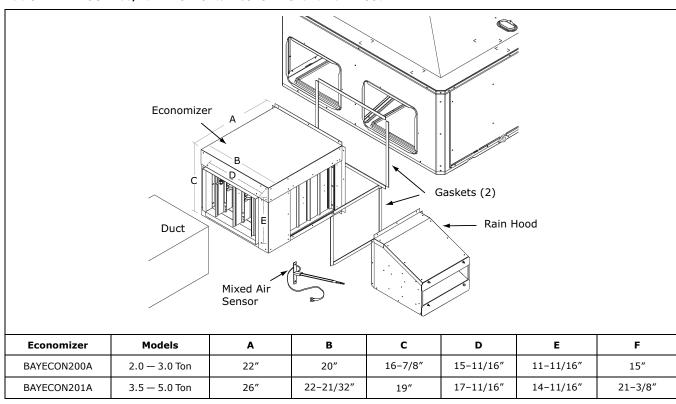


Table 4. BAYCON200, 201A Horizontal Economizer and Rain Hood



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Optional Equipment — Outside Air Damper

Table 5. BAYOSAH001 and 002A Outside Air Damper (Replaces Filter/Coil Access Panel

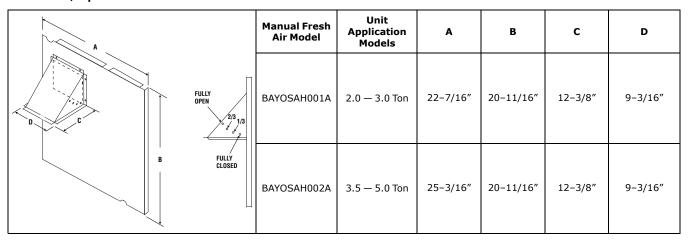


Table 6. BAYDMPR101 and 102A, 25% Motorized Outside Air Damper (Mounts Over Horizontal Return Air Opening)

; A		Manual Fresh Air Model	Unit Application Models	A	В	С	D	E
	c B	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

The units shall be horizontal airflow as shipped and convertible to downflow.

All units shall be factory assembled, piped, internally wired and fully charged with refrigerant. Units shall be certified to UL Standard 1995. Units shall be designed to operate at ambient temperatures as high as 115°F. Cooling performance shall be rated in accordance with AHRI standards. The YC heating/cooling unit design is certified to 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

All components shall be mounted in a weatherresistant steel cabinet with an enamel finish. Access panels shall be provided for unit controls and indoor coil and fans. Indoor air section compartment shall be completely insulated with fireproof, permanent, odorless fiber material. Knockouts shall be provided for utility and control connections. Drain connections shall be provided to accommodate indoor water runoff.

Compressor

The compressor shall be hermetically sealed, high efficiency scroll compressors. Internal overcurrent and over temperature protection, internal pressure relief shall be standard. 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 (2—4 Ton Models) All aluminum micro channel, extruded tubes, mechanically bonded to aluminum fins, and factory pressure and leak tested at 480—650 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″ 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

Constant Torgue, forward-curved, centrifugal wheel in a Composite Vortica ® Blower housing. Motor shall have thermal overload protection and permanently lubricated motor bearings. Motor/blower assembly isolated from unit with rubber mounts.

Outdoor Fan

One direct-drive, statically and dynamically balanced propeller fan shall be used in a draw-through vertical discharge configuration. Permanently lubricated weather proof motor shall have built-in thermal overload protection.

System Controls

System controls include condenser fan, evaporator fan and compressor contactors.

Accessories Roof Curb

The roof curb shall be designed to mate with the unit and provide support and complete weathertight installation when properly installed. Adhesive back polyurethane sealing strips shall be provided to ensure an airtight seal between supply and return openings of the curb and unit. The roof curb design allows field fabricated ductwork to be connected directly to the curb. Curb ships knocked down for field assembly, and includes factory installed wood nailer strips.

Heating System Gas-Fired Heating Section

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.

Electric Ignition System

Main burner is lit each time thermostat calls for heat. Flame sensor proves flame and keeps the main burner on. Should a loss of flame occur, the main valve closes and the spark recurs within 0.8 seconds. 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.

Single Source Power Entry

This accessory when used with electric heat accessory shall allow single source power connection to unit and heater combination. Single source power entry kits shall have specific matching heater(s). Kit shall include high voltage terminal blocks, fuse blocks and fuses, cut-to-length interconnecting wiring, and junction box (if required) to provide power sources with fuse protection as required for both the unit and accessory heater. Kit components shall install within the heater cabinet in the heater access section. Single source branch power circuit shall be protected and wired in accordance with local codes.

Fully Modulating Economizer

This accessory shall be field installed and be composed of the following items: 0–100 % fresh air damper, damper drive motor, fixed dry bulb enthalpy control, and low voltage pigtails for electrical connections. Solid state enthalpy or differential enthalpy control is optional. Economizer operations shall be controlled by the preset position of the enthalpy control. A barometric relief damper shall be standard with the economizer and provide a pressure operated damper

that shall be gravity closing and prohibit entrance of outside air on equipment "off" cycle. Economizer requires BAYRLAY004A relay kit to interface the economizer to the heat pump.

Manual Outside Air Dampers

Rain hood and screen shall be field installed. Suitable for up to 25% outside air.

Start Kit

Extra compressor starting capacity for single phase equipment.

Control Options Standard Indoor Thermostats

Two stage heating/cooling or one stage heating/cooling thermostats shall be available in either manual or automatic changeover.

Programmable Electronic Night Setting Thermostat

Programmable electronic thermostat shall provide heating setback and cooling setup with 7–day programming capability. 1H/1C or 2H/2C models available.

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