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SPECIFICATIONS

SINGLE PACKAGED GAS HEATING ELECTRIC COOLING

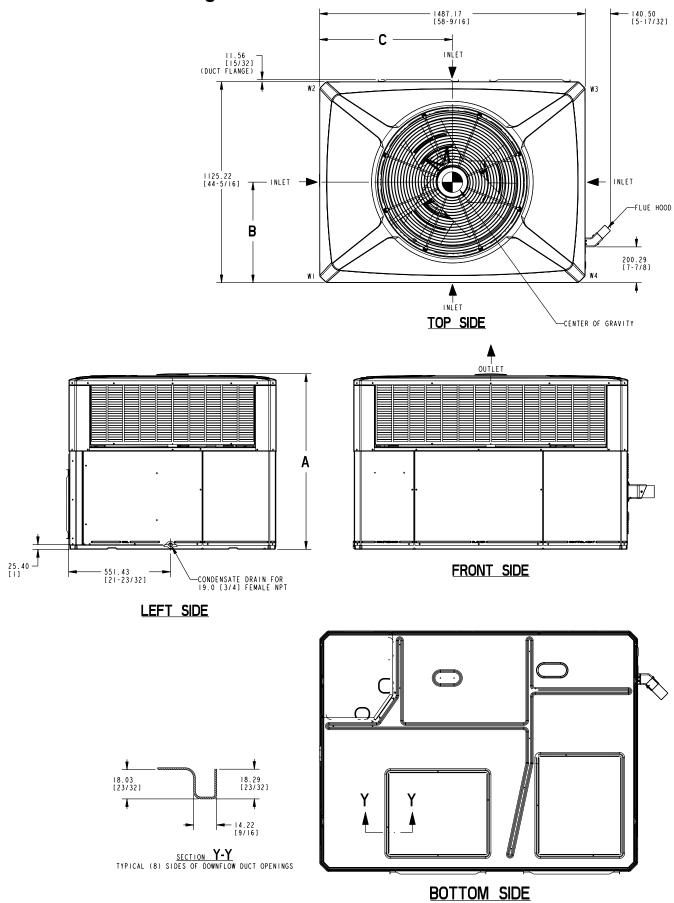
2/4YCC3048A1075/96/120A

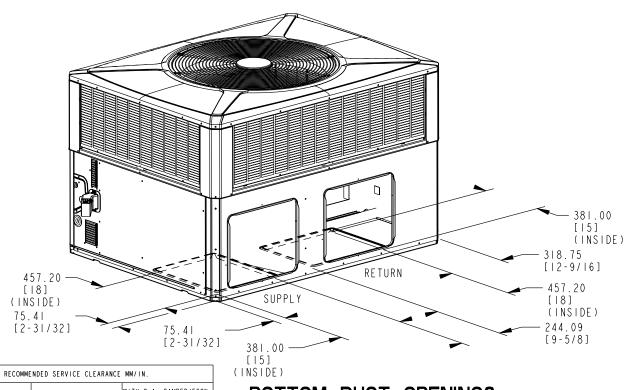
PRODUCT SPECIFICATIONS

MODEL	2YCC3048A1075A	2YCC3048A1096A	2YCC3048A1120A	4YCC3048A1075A	4YCC3048A1096A	4YCC3048A1120A
RATED Volts/PH/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Performance Cooling BTUH®	47000	47000	47000	46500	46500	46500
Indoor Airflow (CFM)	1650	1650	1650	1600	1600	1600
Power Input (KW)	4.272	4.272	4.272	4.252	4.252	4.252
EER/SEER (BTU/Watt-Hr.)	11.0 / 13.0	11.0 / 13.0	11.0 / 13.0	11.0 / 13.0	11.0 / 13.0	11.0 / 13.0
Sound Rating No.®	77	77	77	80	80	80
Performance Heating@						
Input BTUH (Natural Gas) 3	75000	96000	120000	75000	96000	120000
AFUE	80.0	80.0	80.0	80.0	80.0	80.0
Temp. Rise — Min/Max (°F)	20 / 50	30 / 60	40 / 70	20 / 50	30 / 60	40 / 70
Orifice Qty / Drill Size (Natural Gas)	2 / #33	3 / #37	3 / #32	2 / #33	3 / #37	3 / #32
POWER CONN.—V/PH/HZ	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Min. Brch. Cir. Ampacity	29.0	29.0	29.0	31.5	31.5	31.5
Fuse Size — Max. (amps)	45	45	45	50	50	50
Fuse Size — Recmd. (amps)	45	45	45	50	50	50
COMPRESSOR	RECIPROCATING	RECIPROCATING	RECIPROCATING	SCROLL	SCROLL	SCROLL
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
R.L. Amps — L.R. Amps	18.6 / 93.4	18.6 / 93.4	18.6 / 93.4	20.5 / 109	20.5 / 109	20.5 / 109
OUTDOOR COIL — TYPE	SPINE-FIN	SPINE-FIN	SPINE-FIN	SPINE-FIN	SPINE-FIN	SPINE-FIN
Rows/F.P.I.	2 / 24	2 / 24	2 / 24	2 / 24	2 / 24	2 / 24
Face Area (sq.ft.)	20.54	20.54	20.54	18.01	18.01	18.01
Tube Size (in.)	3/8	3/8	3/8	3/8	3/8	3/8
INDOOR COIL — TYPE	PLATE FIN					
Rows/F.P.I.	3 / 15	3 / 15	3 / 15	3 / 15	3 / 15	3 / 15
Face Area (sq.ft.)	5	5	5	5	5	5
Tube Size (in.)	3/8	3/8	3/8	3/8	3/8	3/8
Refrigerant Control	EXPANSION VALVE					
Drain Conn. Size (in.)	3/4 FEMALE NPT					
OUTDOOR FAN — TYPE	PROPELLER	PROPELLER	PROPELLER	PROPELLER	PROPELLER	PROPELLER
	27.6	27.6	27.6	27.6	27.6	27.6
Dia. (in.)						
Drive/No. Speeds	DIRECT / 1					
Motor — HP/R.P.M.	1/4 / 825	1/4 / 825	1/4 / 825	1/4 / 825	1/4 / 825	1/4 / 825
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps/L.R. Amps	1.4 / 3.5	1.4 / 3.5	1.4 / 3.5	1.4 / 3.5	1.4 / 3.5	1.4 / 3.5
INDOOR FAN — TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
Dia x Width (in.)	10 X 10					
Drive/No. Speeds	DIRECT / 2					
CFM @ 0.0 in. w.g. \$	SEE FAN PERF TABLE					
Motor — HP/R.P.M.	3/4 / 1075	3/4 / 1075	3/4 / 1075	3/4 / 1075	3/4 / 1075	3/4 / 1075
Volts/Ph/Hz	200-230/1/60	200-230/1/60	200-230/1/60	200-230/1/60	200-230/1/60	200-230/1/60
F.L. Amps/L.R. Amps	4.4 / 8.8	4.4 / 8.8	4.4 / 8.8	4.4 / 8.8	4.4 / 8.8	4.4 / 8.8
COMBUSTION FAN — TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
Drive/No. Speeds	DIRECT / 1					
Motor — HP/R.P.M.	1/35 / 3480	1/35 / 3480	1/35 / 3480	1/35 / 3480	1/35 / 3480	1/35 / 3480
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
FLA	0.53	0.53	0.53	0.53	0.53	0.53
FILTER / FURNISHED	NO	NO	NO	NO	NO	NO
Type Recommended	THROWAWAY	THROWAWAY	THROWAWAY	THROWAWAY	THROWAWAY	THROWAWAY
Recmd. Face Area (sq. ft.) ®	5.3	5.3	5.3	5.3	5.3	5.3
REFRIGERANT	R22	R22	R22	R410A	R410A	R410A
Charge (lbs.) @	9	9	9	8.2	8.2	8.2
GAS PIPE SIZE (in.)	1/2	1/2	1/2	1/2	1/2	1/2
DIMENSIONS	HXWXL	HXWXL	HXWXL	HXWXL	HXWXL	HXWXL
Crated (in.)	49.86 / 47.4 / 61.75	49.86 / 47.4 / 61.75	49.86 / 47.4 / 61.75	47.86 / 47.4 / 61.75	47.86 / 47.4 / 61.75	47.86 / 47.4 / 61.75
WEIGHT			-		-	
Shipping (lbs.) / Net (lbs.)	656 / 528	653 / 535	659 / 541	645 / 517	653 / 525	659 / 531

Product specification notes are on page 9.

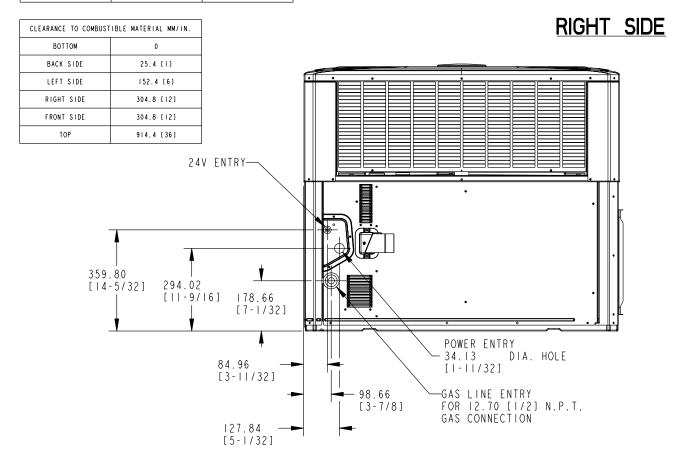
Unit Clearance and Weight Information

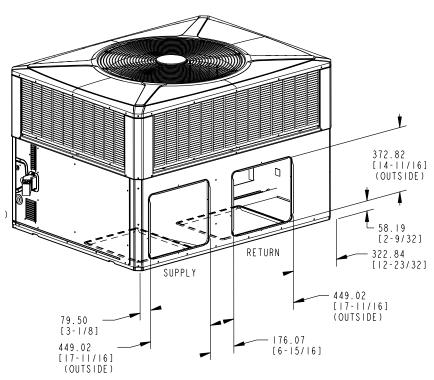




RECOMME	NDED SERVICE CLEARANCE	MM/IN.
		WITH O.A. DAMPER/ECON.
BACK SIDE	304.8 [12]	762.0 [30]
LEFT SIDE	914.4 [36]	1066.8 [42]
RIGHT SIDE	914.4 [36]	-
FRONT SIDE	1066.8 [42]	-

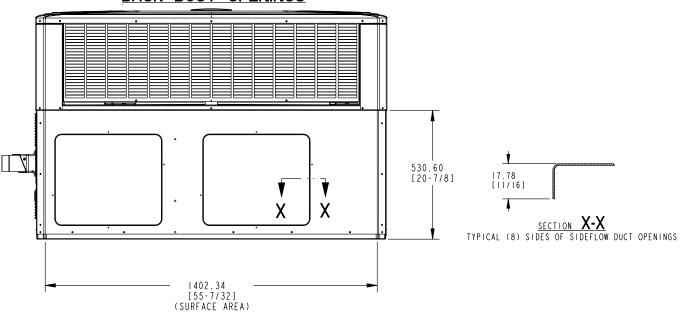
BOTTOM DUCT OPENINGS





BACK SIDE

BACK DUCT OPENINGS



NODEL	HEIGHT MM/IN.		APPROX. CORNER	WEIGHT - KG/LBS		TOTAL UNIT	CENTER OF GR	AVITY MM/IN,
MODEL	A	WI	W2	W3	W4	KG/LBS	В	С
2YCC042 (064/075)		67.6 [149]	44.9 [99]	40.4 [89]	60.8 [134]	213.6 [471]	444.5 [17.5]	698.5 [27.5]
2YCC042 (096)	949.33 (37-3/8)	68.5 [151]	45.8 [101]	41.3 [91]	61.7 [136]	217.3 [479]	444.5 [17.5]	698.5 [27.5]
2YCC048 (075)		75.7 [167]	50.3 [111]	45.4 [100]	68.0 [150]	239.5 [528]	444.5 [17.5]	698.5 [27.5]
2YCC048 (096)		76.7 [169]	51.3 [113]	46.3 [102]	68.9 [152]	242.7 [535]	444.5 [17.5]	698.5 [27.5]
2YCC048 (120)		77.6 [171]	51.7 [114]	46.7 [103]	69.9 [154]	245.4 [541]	444.5 [17.5]	698.5 [27.5]
4YCC048 (075)		73.9 [163]	49.4 [109]	44.5 [98]	66.7 [147]	234.5 [517]	444.5 [17.5]	698.5 [27.5]
4YCC048 (096)		75.3 [166]	50.3 [111]	45.4 [100]	67.6 [149]	238. [525]	444.5 [17.5]	698.5 [27.5]
4YCC048 (120)		75.7 [167]	50.8 [112]	45.8 [101]	68.5 [151]	240.9 [531]	444.5 [17.5]	698.5 [27.5]
2YCC060 (096)	1050 02 541 2703	82.6 [182]	46.7 [103]	43.5 [96]	77.1 [170]	249.5 [550]	401.3 [15.8]	711.2 [28.0]
2YCC060 (120)	1050.93 [41-3/8]	83.5 [184]	47.2 [104]	44.0 [97]	77.6 [171]	252.2 [556]	401.3 [15.8]	711.2 [28.0]
4YCC060A1/A3 (096)		81.2 [179]	45.8 [101]	42.6 [94]	75.7 [167]	245.8 [542]	401.3 [15.8]	711.2 [28.0]
4YCC060A1/A3 (120)		82.1 [181]	46.3 [102]	43.1 [95]	76.7 [169]	248.6 [548]	401.3 [15.8]	711.2 [28.0]
4YCC060A4 (096)	1000.13 [39-3/8]	82.6 [182]	46.7 [103]	43.5 [96]	77.1 [170]	249.5 [550]	401.3 [15.8]	711.2 [28.0]
4YCC060A4 (120)		83.5 [184]	47.2 [104]	44.0 [97]	77.6 [171]	252.2 [556]	401.3 [15.8]	711.2 [28.0]

Unit Performance Data

Performance Data Cooling

2YCC3048A AT 1600 CFM (CAPACITIES ARE NET IN BTUH/1000-INDOOR FAN HEAT DEDUCTED)

0.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. 72	CAP. AT EN 75	Tering D.B. 78	TEMP. 80	COMPR. KW	CORRECTION FACTORS FOR OTHER AIRFLOWS (MULTIPLY DATA BY FACTOR)					
0.5	59	45.5	30.6	36.8	42.9	45.5	3.84	AIRFLOW TOTAL CAPACITY SENSIBLE CAPACITY					
85	63 67 71	47.4 51.1 55.2	28.1 24.2 20.1	33.8 29.1 24.2	39.3 34.0 28.2	43.0 37.1 30.8	3.87 3.93 3.97	LOW 1400 0.98 0.97 HIGH 1800 1.02 1.03					
95	59 63 67 71	41.7 43.5 46.9 50.6	29.3 26.9 23.2 19.2	35.2 32.3 27.9 23.1	41.0 37.6 32.5 26.9	41.7 41.1 35.5 29.4	4.15 4.18 4.25 4.29	VALUES AT ARI RATING CONDITIONS TOTAL NET CAPACITY = 47000 BTUH AIRFLOW = 1650 CFM					
105	59 63 67 71	38 39.6 42.7 46.1	27.7 25.4 21.9 18.2	33.3 30.6 26.4 21.9	38.0 35.6 30.7 25.5	38.0 38.9 33.6 27.9	4.46 4.49 4.57 4.61	COMPRESSOR POWER = 3387 WATTS I.D. FAN POWER = 589 WATTS O.D. FAN POWER = 297 WATTS S.E.E.R. = 13.00 BTUH/WATT					
115	59 63 67 71	34.2 35.7 38.4 41.5	25.9 23.8 20.5 17.0	31.2 28.6 24.7 20.5	34.2 33.3 28.8 23.9	34.2 35.7 31.4 26.1	4.77 4.80 4.88 4.93	E.E.R = 11.00 BTUH/WATT ALL TEMPERATURES IN DEGREES F.					

4YCC3048A AT 1600 CFM (CAPACITIES ARE NET IN BTUH/1000-INDOOR FAN HEAT DEDUCTED)

O.D. D.B.	I.D. W.B.	TOTAL Cap.	SENS. 72	CAP. AT EN 75	Tering D.B. 78	TEMP. 80	COMPR. KW	CORRECTIO	IN FACTORS FOR	OTHER AIRFLOWS (MU	LTIPLY DATA BY FACTOR)		
0.5	59	43.8	29.8	35.8	41.7	43.8	3.74		AIRFLOW	TOTAL CAPACITY	SENSIBLE CAPACITY		
85	63 67 71	45.6 49.2 53.1	27.3 23.6 19.6	32.9 28.4 23.5	38.3 33.1 27.4	41.9 36.1 30.0	3.77 3.83 3.87	LOW HIGH	1400 1800	0.98 1.02	0.97 1.03		
95	59 63 67 71	41.4 43.2 46.5 50.2	28.8 26.4 22.8 18.9	34.6 31.7 27.4 22.7	40.3 37.0 31.9 26.5	41.4 40.4 34.9 28.9	4.13 4.16 4.23 4.27	-	VALUES CAPACITY = 465 1599 CFM	AT ARI RATING CONDIT	TIONS		
105	59 63 67 71	39.0 40.7 43.8 47.3	27.7 25.4 21.9 18.2	33.3 30.5 26.3 21.9	38.8 35.6 30.7 25.5	39.0 38.9 33.6 27.8	4.52 4.55 4.63 4.67	COMPRESSOR POWER = 3322 WATTS I.D. FAN POWER = 592 WATTS O.D. FAN POWER = 313 WATTS S.E.E.R. = 13.00 BTUH/WATT					
115	59 63 67 71	36.6 38.2 41.2 44.4	26.5 24.3 21.0 17.4	31.9 29.2 25.2 20.9	36.6 34.1 29.4 24.4	36.6 37.2 32.1 26.7	4.91 4.94 5.02 5.07		00 BTUH/WATT ERATURES IN DE	GREES F.			

Indoor Fan Performance 2/4YCC3048A1

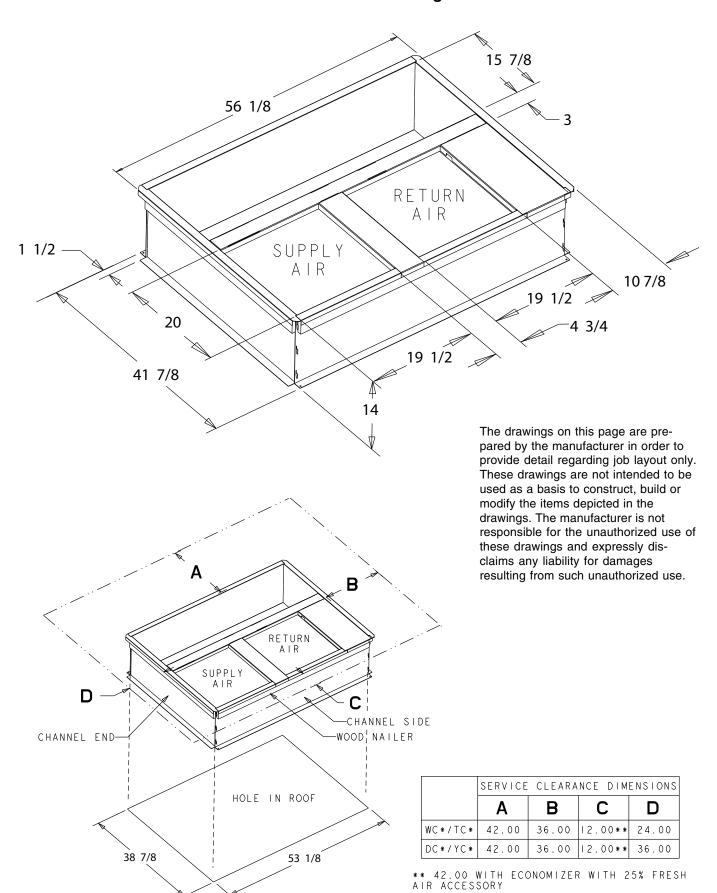
Horizontal Airflow

2/4YC*3048A		EXTERNAL STATIC PRESSURE (IN. WG)										
MOTOR SPEED		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
LOW	WATTS	687	668	649	628	606	581	551	516	-	-	-
LOW	CFM	1863	1810	1760	1708	1648	1577	1493	1391	-	-	-
HIGH	WATTS	-	935	921	886	851	825	803	773	708	-	-
	CFM	-	2159	2110	2017	1919	1833	1753	1652	1482	-	-

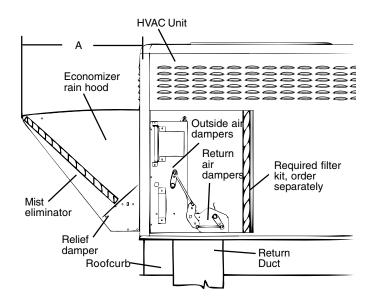
Down Airflow

2/4YC*3048A1		EXTERNAL STATIC PRESSURE (IN. WG)										
MOTOR SPEED		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	8.0	0.9	1.0
1.014	WATTS	671	650	632	614	594	571	543	512	-	-	-
LOW	CFM	1839	1795	1741	1682	1622	1554	1472	1362	-	-	-
HIGH	WATTS	-	901	879	857	835	813	787	754	708	-	-
	CFM	ı	2080	2013	1943	1872	1797	1709	1590	1418	-	-

BAYCURB051A Full Perimeter Roof Mounting Curb for *****042-060A

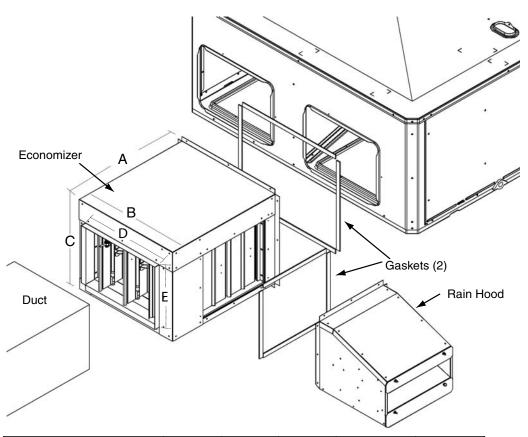


BAYECON102A Down Discharge Economizer and Rain Hood (Mounts Over Horizontal Return Air Opening)



Economizer	Unit ApplicationM odels	Α	
BAYECON101A	2/4YC,WC3018-036A 4TC*3018-036A	20.125"	
BAYECON102A	2/4YC,WC3042-060A 4TC*3042-060A	24.375"	

BAYCON201A Horizontal Economizer and Rain Hood

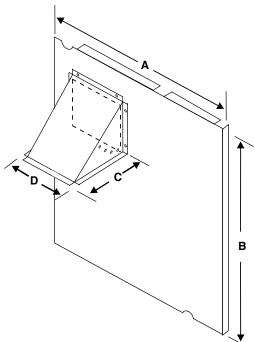


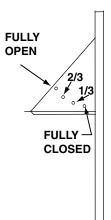
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Economizer	A	В	С	D	E
BAYECON200AA	22.00"	20.00"	16.87"	15 11/16	11 11/16
BAYECON201AA	24.00"	22.65"	19.00"	17 11/16	14 11/16

BAYOSAH002, 25% Outside Air Damper (Replaces Filter/Coil Access Panel)

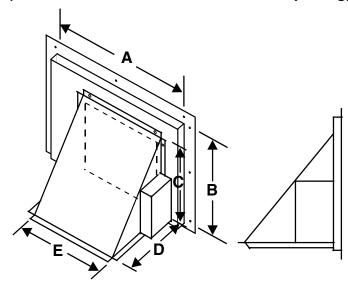
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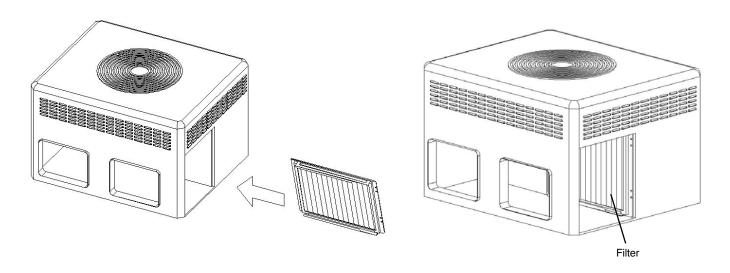
Manual Fresh Air Model	Unit Application Models	Α	В	С	D	
BAYOSAH001	2/4YC,WC3018-036A 4TC*3018-036A	22 7/16"	20 11/16"	12 3/8"	9 3/16"	
BAYOSAH002	2/4YC,WC3042-060A 4TC*3042-060A	25 3/16"	20 11/16"	12 3/8"	9 3/16"	

BAYDMPR102A, 25% Motorized Outside Air Damper (Mounts Over Horizontal Return Alr Opening)



	Unit Application Models	Α	В	С	D	E
BAYDMPR101A	2/4YC,WC3018-036A 4TC3018-036A	15 13/16"	11 13/16"	10 1/4"	11 1/2"	12 1/4"
BAYDMPR102A	2/4YC,WC3042-060A 4TC3042-060A	18 3/16"	15 1/8"	10 1/4"	11 1/2"	12 1/4"

BAYFLTR201A, 1" - 2" Filter Rack (Mounts in Filter/Coil Section)



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①Rated in accordance with A.R.I. Standard 210/240. Sound rated in accordance with A.R.I. Standard 270. A.R.I. standard rating conditions are: 80 D.B. 67 W.B. entering air to indoor coil. 95 D.B. entering air to outdoor coil.

② 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.

③ Convertible to LPG.

 $[\]ensuremath{\mathfrak{O}}$ This value is approximate. For more precise value, see Unit Nameplate.

⁵ Based on U.S. Government Standard Tests.

Tilters 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.

Mechanical Specification Options

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.R.I. standards. The YC heating/cooling unit design is UL listed, 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 fiber 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**TM 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 Duration™ compressor features internal over temperature and pressure protector, total dipped hermetic motor. Other features include: roto lock suction and discharge refrigeration connections, 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.

American Standard Inc. 6200 Troup Highway Tyler, TX 75707

Condenser Coil —

The Spine Fin™condenser coil shall be continuously wrapped, corrosion resistant all aluminum with minimum brazed joints. This coil is 3/8 inch O.D. seamless aluminum tubing glued to a continuous aluminum fin. Coils are lab tested to withstand 2,000 pounds of pressure per square inch. The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Indoor Air Fan — Direct-drive, forward-curved, centrifugal wheel in a Composite Vortica® Blower housing. Motor shall have thermal overload protection.

Permanently lubricated motor bearings.

Motor/blower assembly isolated from unit with rubber mounts.

Condenser Fan — Direct-drive, draw thru propeller type. Weather-proofed permanent split capacitor fan motor shall have built-in thermal overload and permanently lubricated motor bearings.

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

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.

Electronic Ignition System — Main burner is lit each time thermostat calls for 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.

Downflow 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.

Economizer

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 barometic 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.



