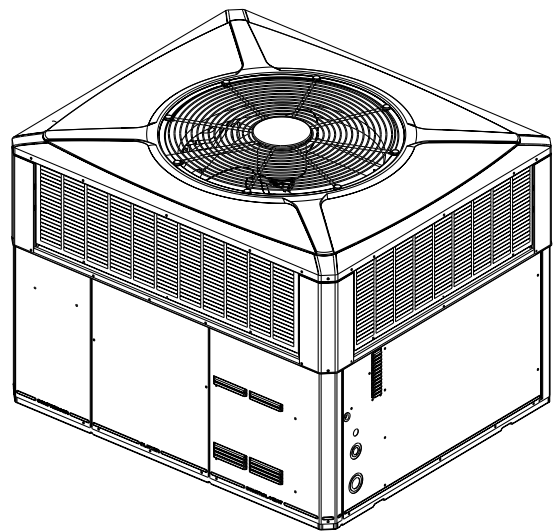


# Submittal

## Single Packaged Heat Pump 14 SEER Convertible

4WCC4060A1000A



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

# Product Specifications

<b>MODEL</b>	4WCC4060A1000A
RATED Volts/PH/Hz	208-230/1/60
Performance Cooling BTUH <sup>(a)</sup>	58000
Indoor Airflow (CFM)	1787
Power Input (KW)	4.6
EER/SEER (BTU/Watt-Hr.) <sup>(b)</sup>	12.00 / 14.00
Sound Power Rating [dB(A)] <sup>(c)</sup>	77.3
<b>PERFORMANCE HEATING</b>	
(High Temp.) BTUH	54000
Power Input (KW)	4.6
(Low Temp.) BTUH	34600
Power Input (KW)	2.80
HSPF (BTUH/Watt-Hr)	8.0
<b>POWER CONN. — V/Ph/Hz</b>	208-230/1/60
Min. Brch. Cir. Ampacity <sup>(d)</sup>	39.0
Fuse Size — Max. (amps)	60
Fuse Size — Recmd. (amps)	60
<b>COMPRESSOR</b>	SCROLL
VOLTS/PH/HZ	208-230/1/60
R.L. Amps — L.R. Amps	24.4/ 144.2
<b>OUTDOOR COIL — TYPE</b>	SPINE FIN
Rows/F.P.I	2 / 24
Face Area (sq. ft.)	22.99
Tube Size (in.)	3/8
Refrigerant Control	EXPANSION VALVE
<b>INDOOR COIL — TYPE</b>	PLATE FIN
Rows/F.P.I	4 / 15
Face Area (sq. ft.)	5.0
Tube Size (in.)	3/8
Refrigeration Control	EXPANSION VALVE
Drain Conn. Size (in.)	3/4 FEMALE NPT
<b>OUTDOOR FAN — TYPE</b>	SWEPT

DIA. (IN.)	28.3
DRIVE/NO. SPEEDS	DIRECT / 3
CFM @ 0.0 in. w.g. <sup>(e)</sup>	5500
Motor — HP/R.P.M	1/3 / 825
Volts/Ph/Hz	208-230/1/60
F.L. Amps/L.R Amps	1.7 / 3.5
<b>INDOOR FAN — TYPE</b>	CONSTANT TORQUE ECM
Dia. x Width (in.)	11.87 X 10.68
Drive/No. Speeds	DIRECT / 3
CFM @ 0.0 in. w.g. <sup>(f)</sup>	SEE FAN PERF TABLE
Motor — HP/R.P.M.	1 / 1050
Volts/Ph/Hz	208-230/1/60
F.L. Amps	6.9
<b>FILTER / FURNISHED</b>	NO
Type Recommended	THROWAWAY
Recmd. Face Area (sq. ft) <sup>(g)</sup>	5.3
<b>REFRIGERANT</b>	R-410
Charge (lbs.)	11.0
<b>CHARGING SPECIFICATIONS</b>	
Subcooling	6°
<b>DIMENSIONS</b>	H X D X W
Crated (in.)	52 X 47 X 62
<b>WEIGHT</b>	
Shipping (lbs.) / Net (lbs.)	594 / 490

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

<sup>(b)</sup> Rated in accordance with D.O.E. test procedure.

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

<sup>(d)</sup> Calculated in accordance with currently prevailing Nat'l Electrical Code.

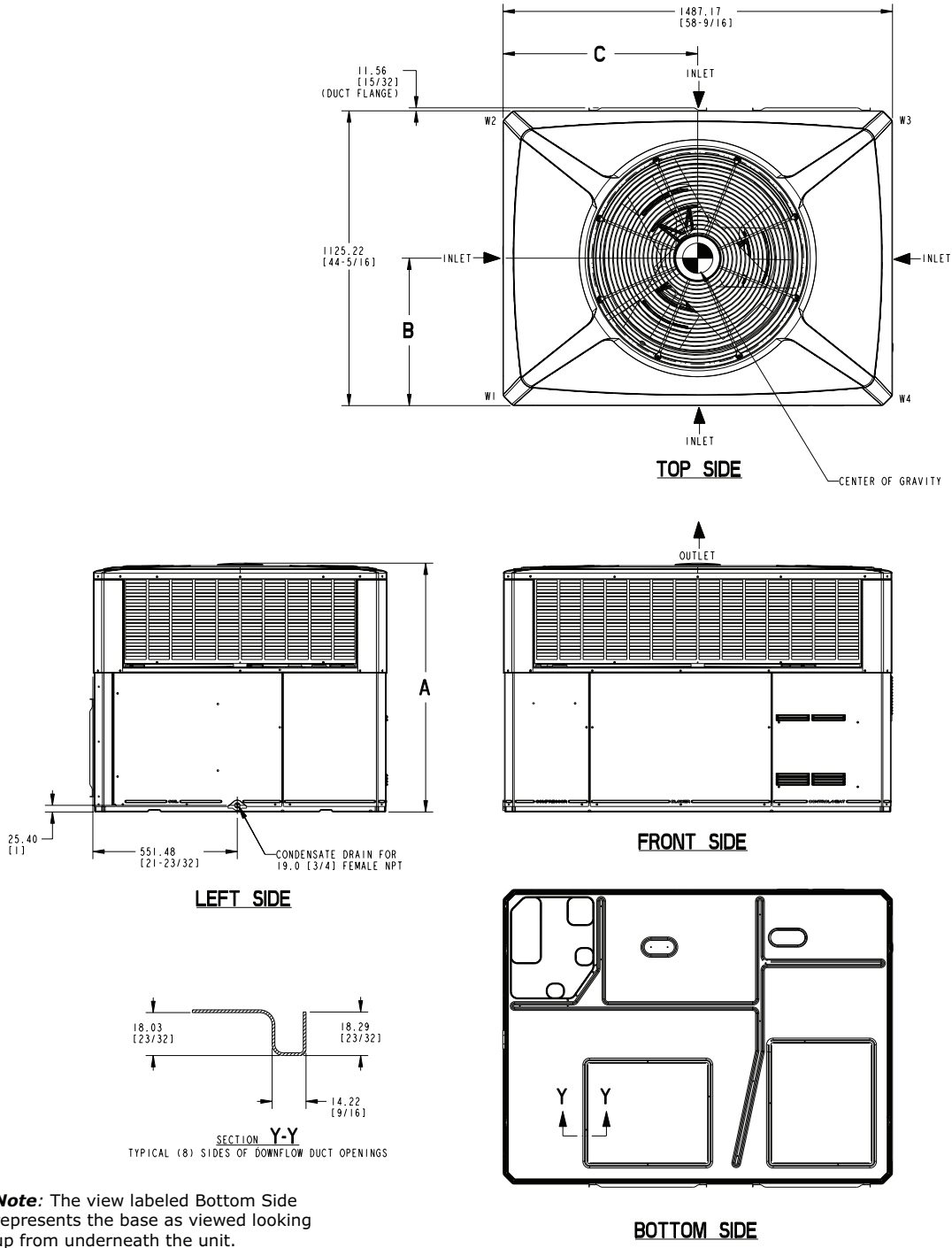
<sup>(e)</sup> Standard Air — Dry Coil — Outdoor.

<sup>(f)</sup> Standard Air — Dry Coil — Indoor

<sup>(g)</sup> 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.

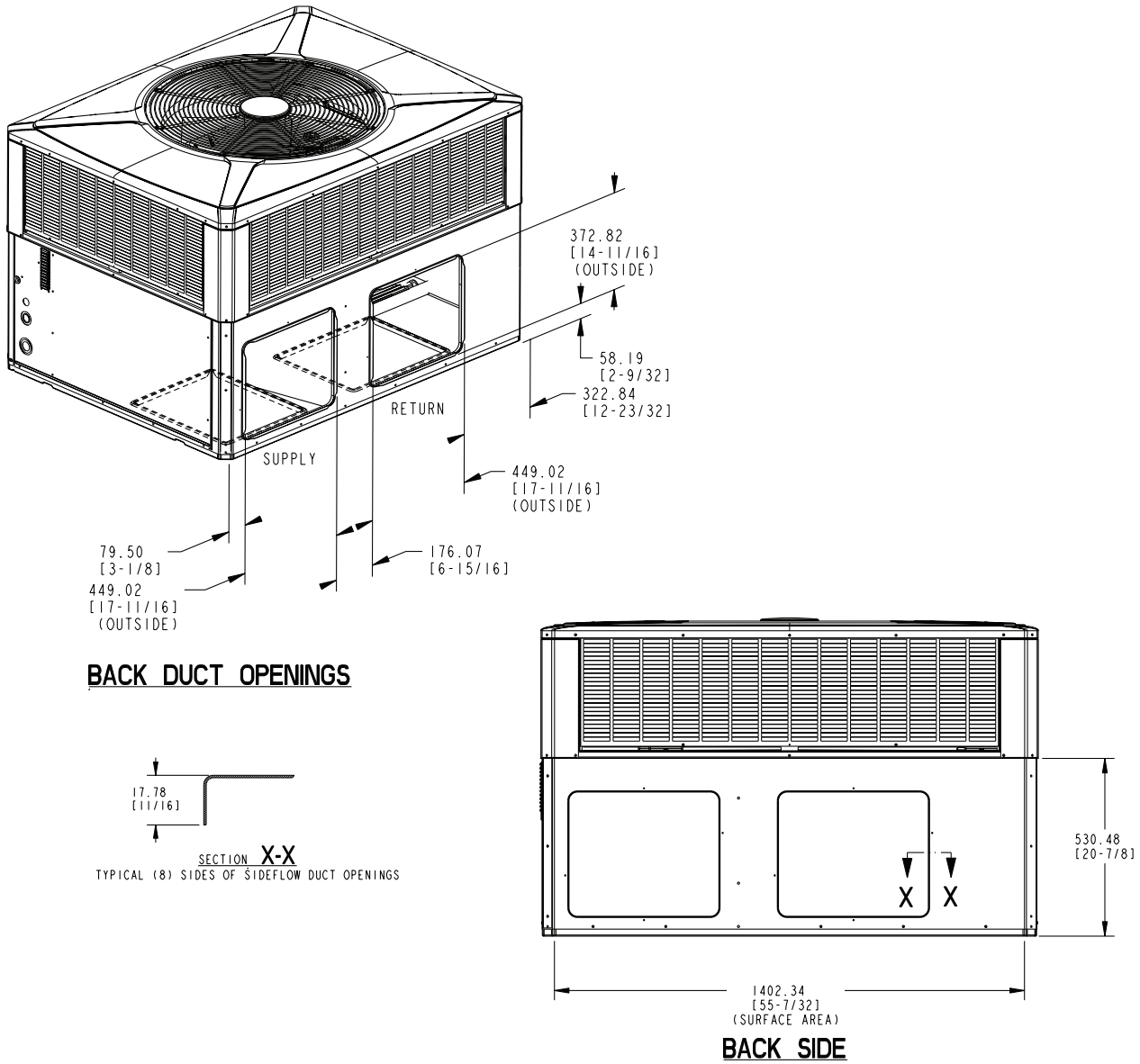
# Outline Drawings

Figure 1. 3.5 – 5 TON MODELS



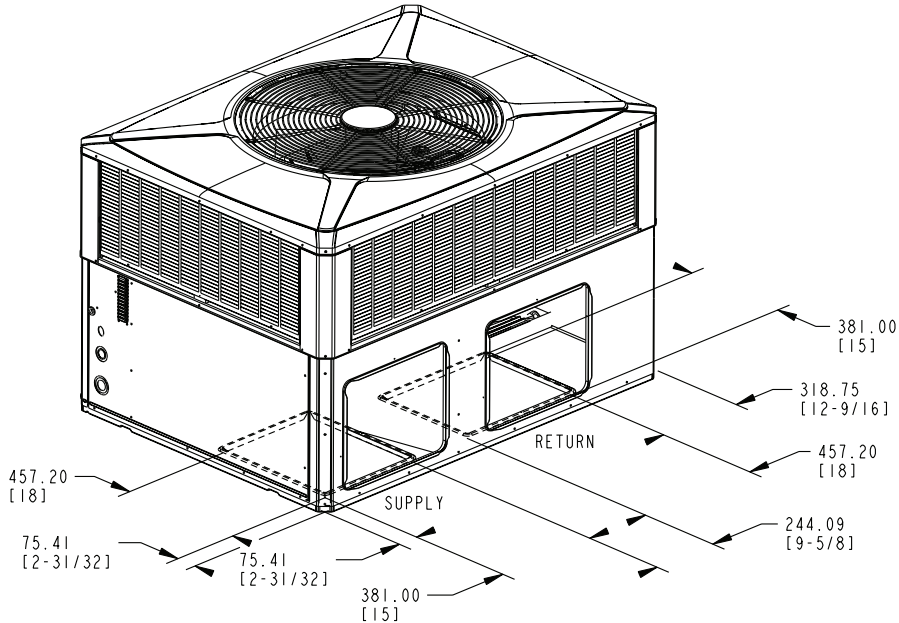
**Note:** The view labeled Bottom Side represents the base as viewed looking up from underneath the unit.

Figure 2. 3.5 – 5 TON MODELS



Model	Height MM/IN	APPROX. CORNER WEIGHT KG / LBS				SHIPPING WIGHT KG / LBS	TOTAL UNIT WEIGHT KG / LBS	CENTER OF GRAVITY MM/IN	
	A	W1	W2	W3	W4			B	C
4TCC4042	898.53 [35-3/8]	71.8 [158]	47.2 [104]	35.2 [78]	53.6 [118]	254.5 (561)	207.3 (457)	470.0 [18.5]	731.0 [28.8]
4TCC4048	1000.13 [39-3/8]	72.0 [159]	45.0 [99]	33.8 [75]	54.4 [120]	252.6 (557)	205.4 (453)	433.0 [17.0]	743.3 [29.3]
4TCC4060		78.0 [172]	46.3 [102]	34.9 [77]	59.0 [130]	265.8 (586)	218.6 (482)	414.0 [16.3]	635.0 [25.0]
4WCC4042		64.4 [142]	47.6 [105]	39.5 [87]	49.9 [110]	248.6 (547.9)	201.4 (444)	449.6 [17.7]	641.8 [25.3]
4WCC4048		68.9 [152]	40.8 [90]	30.8 [68]	52.2 [115]	240.0 (529)	192.8 (425)	414.0 [16.3]	635.0 [25.0]
4WCC4060	1050.93 [41-3/8]	79.4 [175]	47.2 [104]	35.8 [79]	59.9 [132]	269.5 (594)	222.3 (490)	414.0 [16.3]	635.0 [25.0]

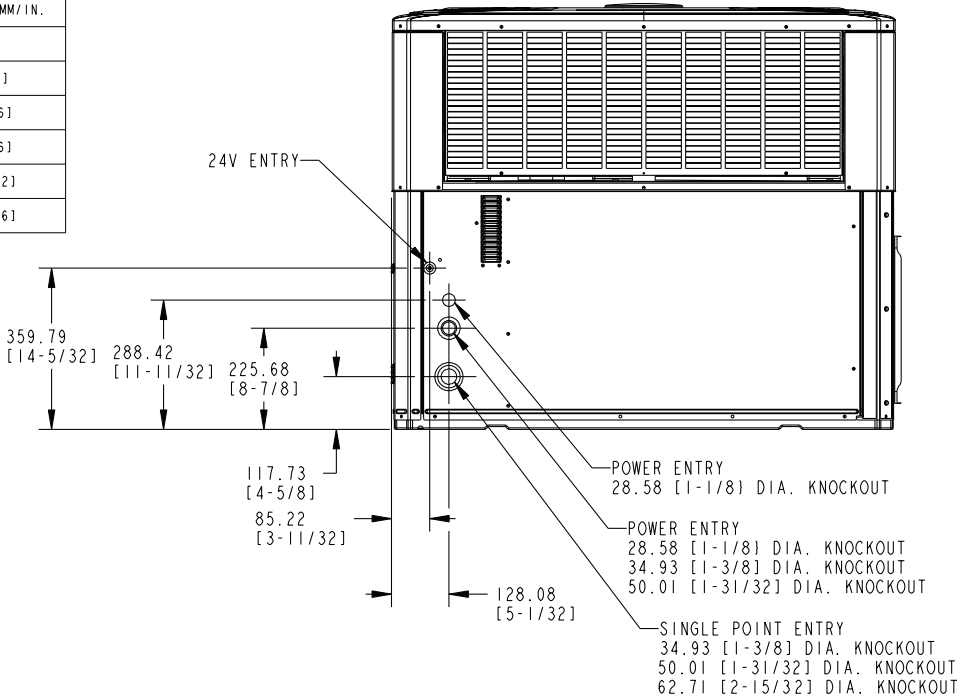
Figure 3. 3.5 — 5 TON MODELS



**BOTTOM DUCT OPENINGS**

RECOMMENDED SERVICE CLEARANCE MM/IN.		
		WITH ECONOMIZER
BACK SIDE	304.8 [12]	762.0 [30]
LEFT SIDE	914.4 [36]	1066.8 [42]
RIGHT SIDE	609.6 [24]	-
FRONT SIDE	762.0 [30]	-

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



**RIGHT SIDE**

# Indoor Fan Performance (230v)

**Table 1. Horizontal Airflow**

4WCC4060A1		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	515	523	533	544	554	569	582	595	608	621	-
	CFM	1857	1831	1800	1766	1737	1692	1655	1617	1578	1538	-
MEDIUM	WATTS	749	759	769	779	788	803	816	830	845	860	874
	CFM	2083	2058	2032	2003	1974	1943	1911	1877	1843	1807	1771
HIGH	WATTS		910	921	932	941	956	969	983	997	1010	1021
	CFM		2177	2152	2127	2105	2071	2041	2009	1975	1940	1903

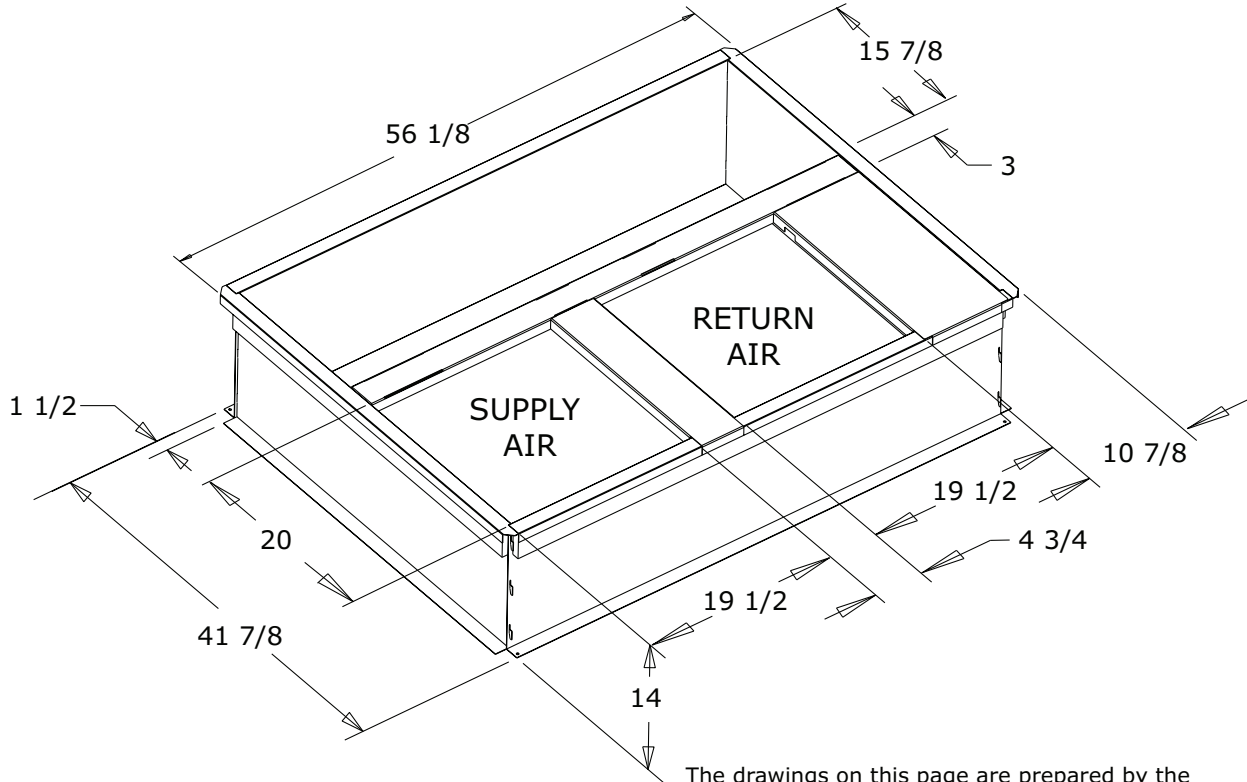
**Table 2. Down Airflow**

4WCC4060A1		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
COOLING — LOW	WATTS	511	521	533	546	558	570	579	593	606	619	
	CFM	1875	1841	1805	1766	1730	1696	1668	1628	1568	1527	
COOLING — MED	WATTS	745	758	771	786	801	815	829	839	849	858	872
	CFM	2104	2063	2034	1999	1965	1931	1894	1869	1846	1795	1759
COOLING — HIGH	WATTS		908	919	930	942	960	971	988	997	1001	1018
	CFM		2184	2150	2104	2073	2027	1998	1961	1937	1905	1890

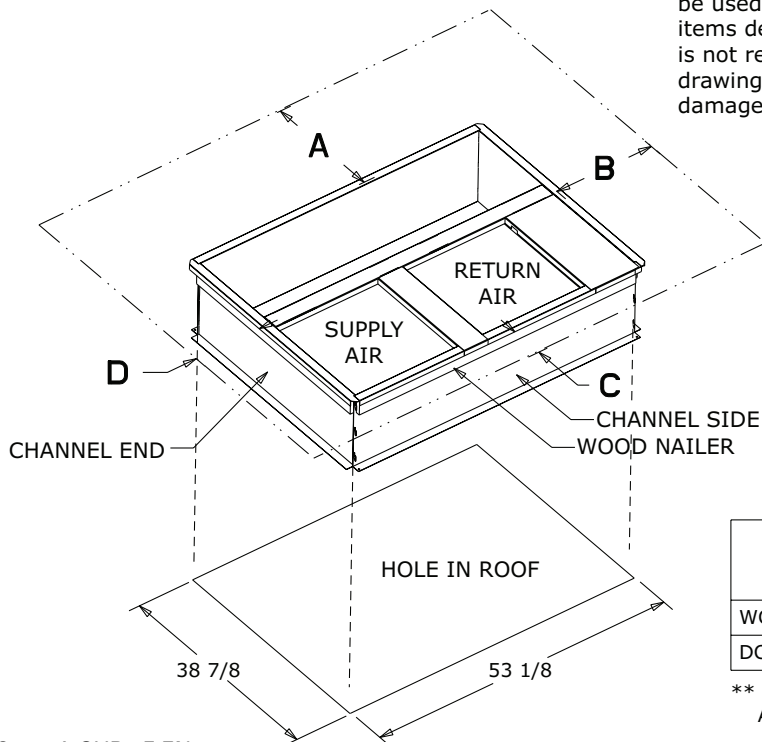
# Full Perimeter Roof Mounting Curb

Figure 4. 3.5 – 5.0 Ton Models

## BAYCURB051A Full Perimeter Roof Mounting Curb



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	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

# Supplementary Electric Heater

**Table 3. BAYHTRV – Supplementary Electric Heaters**

UNIT MODEL	ELECTRIC HEATER MODEL	RATED VOLT-AGE	PHASE	AMPS	HEATER CAPACITY		NO. OF STAGES	KW/STAGE		MCA	MAX. FUSE OR HACR CKT BKR SIZE	CANADA ONLY MAX. CKT BKR SIZE
					KW	BTUH		1	2			
4024-4060	BAYHTRV105	208/240	1	18/21	3.76/5.0	12800/17100	1	3.76/5.0	—	23/26	25/30	25/30
4024-4060	BAYHTRV108	208/240	1	29/33	6.0/8.0	20500/27300	1	6.0/8.0	—	36/41	40/45	40/45
4024-4060	BAYHTRV110	208/240	1	36/42	7.5/10.0	25600/34100	1	7.5/10.0	—	45/52	45/60	45/60
4030-4060	BAYHTRV115	208/240	1	54/63	11.27/15.0	38500/51200	2	7.5/10.0	3.76/5.0	68/78	70/80	70/80
4048-4060	BAYHTRV120	208/240	1	72/83	15.0/20.0	51200/68300	2	7.5/10.0	7.5/10.0	90/104	90/110	90/110
4060	BAYHTRV125	208/240	1	90/104	18.78/25.0	64100/85300	2	11.26/15.0	7.5/10.0	113/130	125/150	125/150

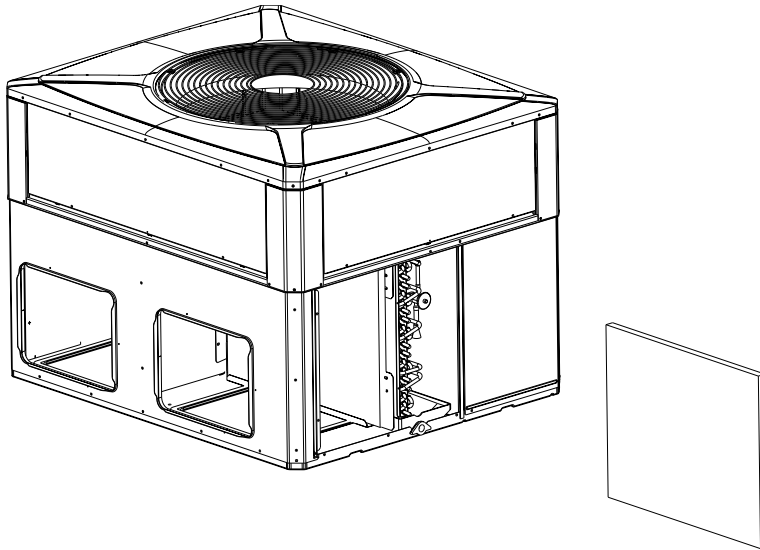
**Table 4. BAYSPEK – Single Power Entry Kit**

SINGLE CIRCUIT POWER AMPACITY AND OVER CURRENT PROTECTION				
UNIT MODEL	SINGLE POWER ENTRY KIT	HEATER MODEL	MIN CKT AMP	MAX OVER-CURRENT DEVICE
4WCC4060A	BAYSPEK62	BAYHTRV105	65	80
		BAYHTRV108	80	90
		BAYHTRV110	91	100
	BAYSPEK63	BAYHTRV115	117	125
		BAYHTRV120	143	150

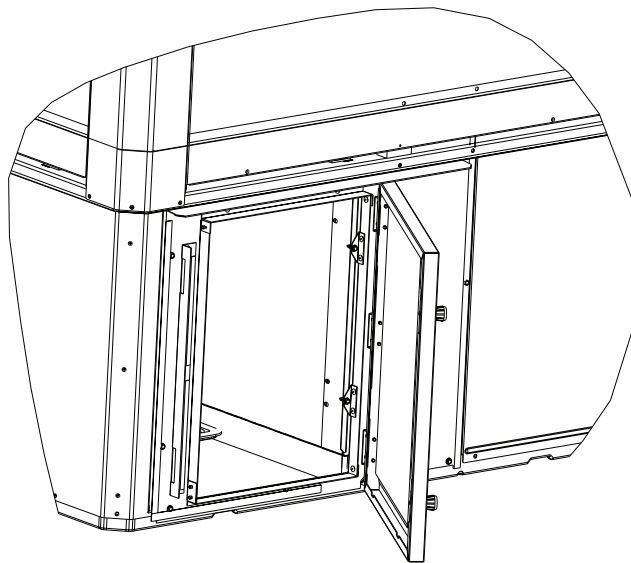


# Optional Equipment – Filter Rack

**Figure 5. BAYFLTR101 Filter Rack (2.0 – 3.0 Ton Models)  
BAYFLTR201 (3.5 – 5.0 Ton Models)  
(Mounts in Filter/Coil Section)**



**Figure 6. 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 5. 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 6. BAYCON200, 201A Horizontal Economizer and Rain Hood**

<b>Economizer</b>	<b>Models</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
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 7. BAYOSAH001 and 002A

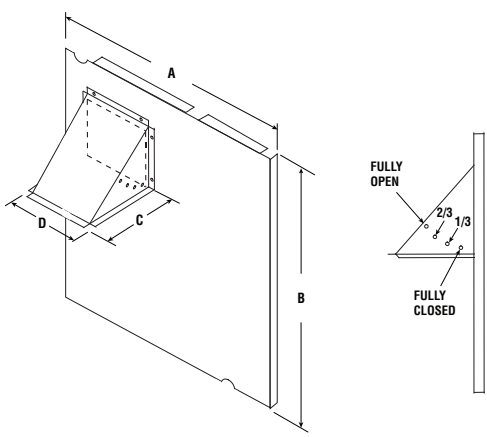
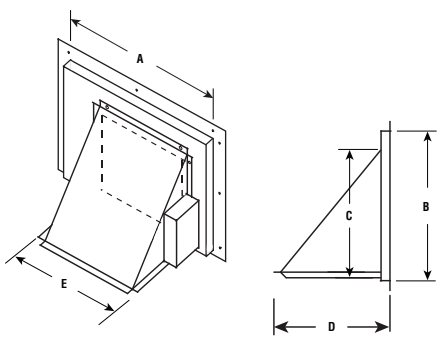
	Manual Fresh Air Model	Unit Application Models	A	B	C	D
	BAYOSAH001A	2.0 – 3.0 Ton	22-7/16"	20-11/16"	12-3/8"	9-3/16"
BAYOSAH002A	3.5 – 5.0 Ton	25-3/16"	20-11/16"	12-3/8"	9-3/16"	

Table 8. BAYDM-PR101 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

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. All units shall be factory run tested to check cooling operation, fan and blower rotation and control or TXV sequence. Units shall be designed to operate at ambient temperatures between 115°F and 55°F in cooling as manufactured. Cooling performance shall be rated in accordance with AHRI standards.

## Unit Casing

All components shall be mounted in a weather-resistant 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** Internally enhanced 3/8" OD seamless copper tubing mechanically bonded to aluminum fins, 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 Torque, 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.

## Electric Heaters

Each heater assembly shall include power supply fusing if over 48 amps, automatic resetting limit switches and heat limiters for thermal protection. Heaters shall be provided with polarized plugs for quick connection to unit low voltage wiring. Electric heat modules shall be UL listed.

## 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.

## About Trane and American Standard Heating and Air Conditioning

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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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