TAG: _____

SUBMITTAL

5 Ton Convertible Heat Pump Packaged Units
4WCZ6060B4000A

PRODUCT SPECIFICATIONS

MODEL		4WCZ6060B4000A
RATED Volts/PH/Hz		460/3/60
Performance Cooling		
BTUH (High)		57000
Indoor Airflow (CFM)		1780
Power Input (KW)		4.97
BTUH (Low)		44500
Indoor Airflow (CFM)		1250
Power Input (KW)		2.79
EER - HI / LOW / SEER		11.5 / 15.9 / 15.0
Sound Power Rating [dB(A)]②		74
Performance Heating①		
(High Temp.)BTUH / COP	(High)	53500 / 3.5
Power Input (KW)		4.45
(Low Temp.) BTUH / COP	(High)	34000 / 2.46
Power Input (KW)		3.99
(High Temp.)BTUH / COP	(Low)	37000 / 3.43
Power Input (KW)		3.19
(Low Temp.) BTUH / COP	(Low)	19000 / 1.81
Power Input (KW)		3.02
HSPF (BTU / Watt-Hr.)⑥		8.3
POWER CONN.—V/Ph/Hz		460/3/60
Min. Brch. Cir. Ampacity③		17
Fuse Size — Max. / Recmd. (amps)		20 / 20
COMPRESSOR		2-STAGE SCROLL
Volts/Ph/Hz		460/3/60
R.L. Amps — L.R. Amps		7.2 / 52
OUTDOOR COIL — TYPE		SPINE-FIN
Rows/F.P.I.		2 / 24
Face Area (sq.ft.)		23.57
Tube Size (in.)		3/8
Refrigerant Control		EXPANSION VALVE
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.④		4700
Motor — HP/R.P.M.		1/4 / 830
Volts/Ph/Hz		208-230/1/60
F.L. Amps/L.R. Amps		1.4 / 3.4
INDOOR FAN — TYPE		CENTRIFUGAL
Dia x Width (in.)		11 X 10
Drive/No. Speeds		DIRECT / VARIABLE
CFM @ 0.0 in. w.g.⑤		SEE FAN PERFORMANCE TABLE
Motor — HP/R.P.M.		1 / VARIABLE
Volts/Ph/Hz		208-230/1/60
F.L. Amps/L.R. Amps		6.9 / 6.9
FILTER / FURNISHED		NO
Type Recommended		THROWAWAY
Recmd. Face Area (sq. ft.)⑦		5.3
REFRIGERANT / Charge (lbs.)		R410A / 9.8
DIMENSIONS		H X W X L
Crated (in.)		52.0 / 47.0 / 62.0
WEIGHT / Shipping / Net (lbs.)		623 / 495

① Certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

② Sound Power values are not adjusted for AHRI 270-95 tonal corrections.

③ Calculated in accordance with currently prevailing Nat'l Electrical Code.

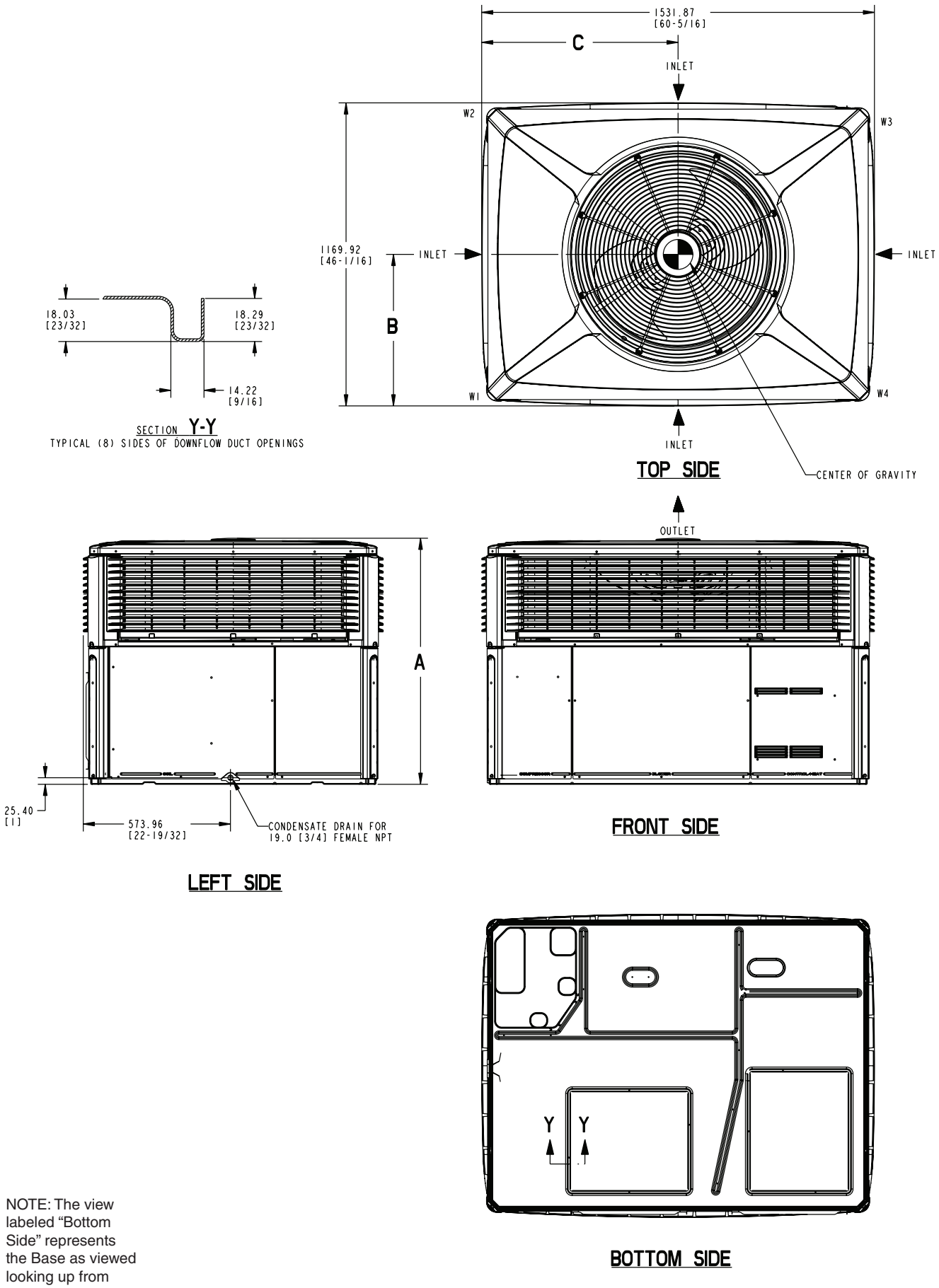
④ Standard Air — Dry Coil — Outdoor.

⑤ Standard Air — Wet Coil — Indoor.

⑥ Rated in accordance with D.O.E. test procedure.

⑦ 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.

Dimensional Data and Weights



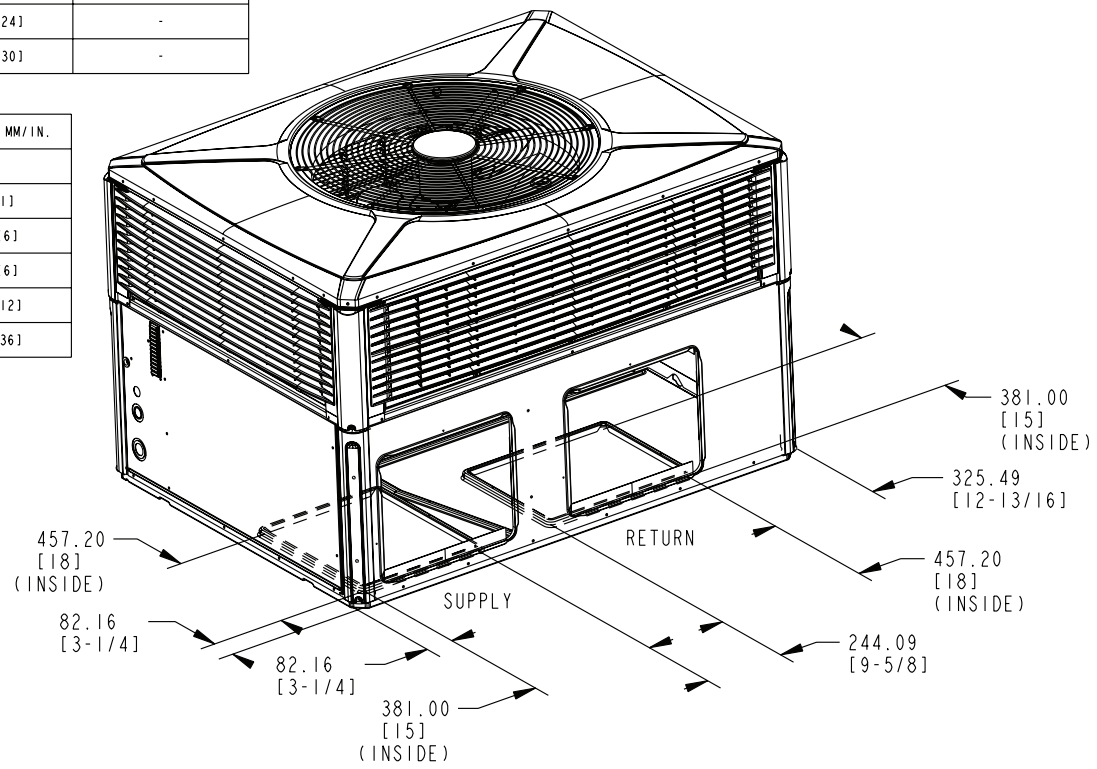
NOTE: The view labeled “Bottom Side” represents the Base as viewed looking up from underneath the unit.

Figure 1. WCZ6048 through WCZ6060 (1 of 3)

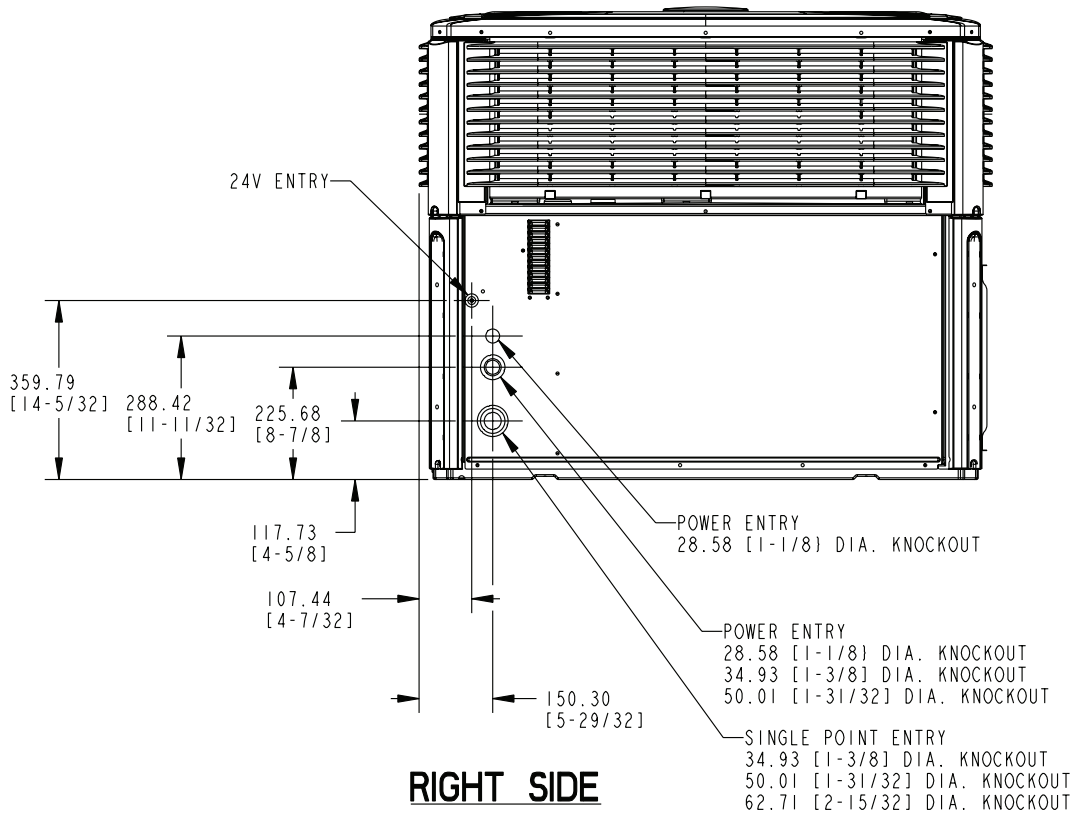
Dimensional Data and Weights

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]



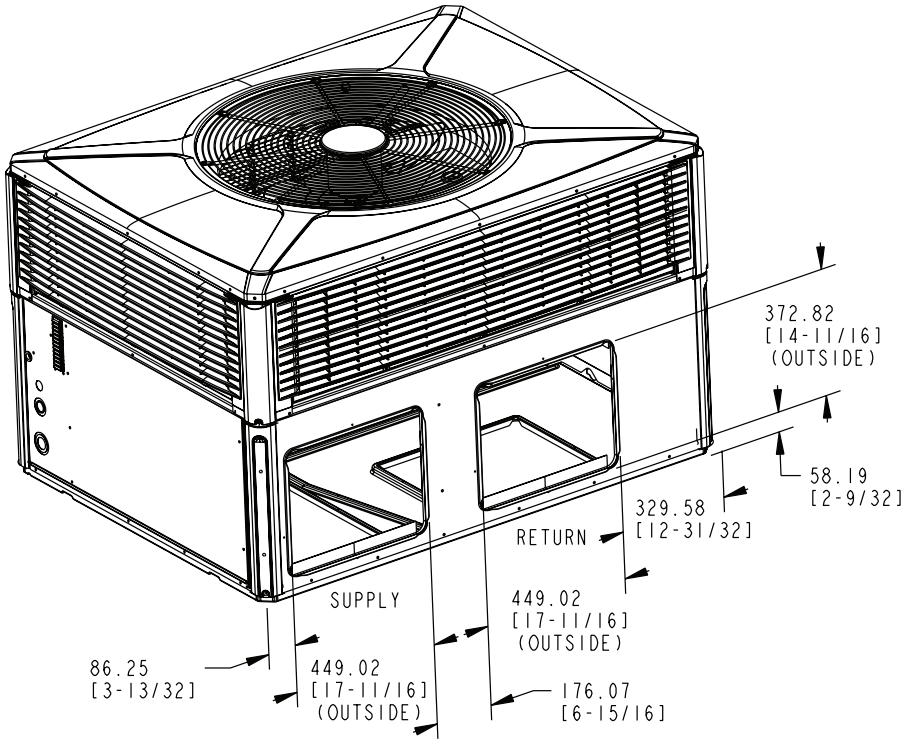
BOTTOM DUCT OPENINGS



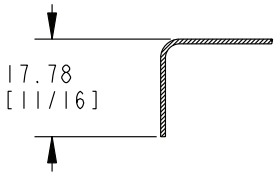
RIGHT SIDE

Figure 2. WCZ6048 through WCZ6060 (2 of 3)

Dimensional Data and Weights

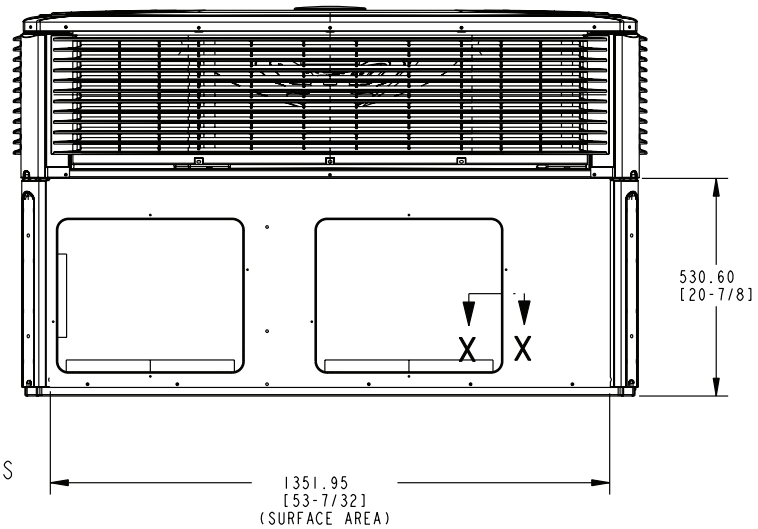


BACK DUCT OPENINGS



SECTION X-X

TYPICAL (8) SIDES OF SIDEFLOW DUCT OPENINGS



BACK SIDE

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
4TCY4042/048A	949.33 [37-3/8]	76.2 [168]	47.6 [105]	35.8 [79]	57.6 [127]	275.6 (607)	217.3 [479]	426.7 [16.8]	635.0 [25.0]
4TCY4048B	949.33 [37-3/8]	78.0 [172]	49.4 [109]	37.6 [83]	59.4 [131]	282.5 [623]	224.4 [495]	426.7 [16.8]	635.0 [25.0]
4TCY4060	1050.93 [41-3/8]	78.9 [174]	46.7 [103]	34.9 [77]	59.1 [130]	277.8 (612)	219.5 [484]	414.0 [16.3]	635.0 [25.0]
4WCY4042/048A	949.33 [37-3/8]	68.9 [152]	40.8 [90]	30.8 [68]	52.2 [115]	275.6 (607)	217.5 [479]	414.0 [16.3]	635.0 [25.0]
4WCY4048B	949.33 [37-3/8]	78.0 [172]	49.4 [109]	37.6 [83]	59.4 [131]	282.5 [623]	224.4 [495]	414.0 [16.3]	635.0 [25.0]
4WCY4060	1050.93 [41-3/8]	80.3 [177]	47.6 [105]	35.8 [79]	60.8 [134]	282.8 (623)	224.5 [495]	414.0 [16.3]	635.0 [25.0]
4WCZ6048	1050.93 [41-3/8]	68.9 [152]	40.8 [90]	30.8 [68]	52.2 [115]	275.6 (607)	217.5 [479]	414.0 [16.3]	635.0 [25.0]
4WCZ6060	1050.93 [41-3/8]	80.3 [177]	47.6 [105]	35.8 [79]	60.8 [134]	282.8 (623)	224.5 [495]	414.0 [16.3]	635.0 [25.0]

Figure 3. WCZ6048 through WCZ6060 (3 of 3)

Indoor Blower Performance

Indoor Fan Performance 4WCZ6060B

Horizontal		External Static Pressure (in. wg)										
		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 Setting	Low		1163	1236	1259	1256	1246	1240	1237	1230		
	High	-	1662	1766	1799	1794	1780	1771	1767	1757	-	-
400 CFM/Ton Setting	Low		1443	1427	1422	1422	1423	1422	1416	1410		
	High	-	2062	2036	2031	2032	2034	2032	2025	2015	-	-

Down Flow		External Static Pressure (in. wg)										
		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 Setting	Low	-	1259	1219	1206	1207	1206	1199	1186	1185	-	-
	High	-	1799	1742	1726	1725	1723	1712	1696	1692	-	-
400 CFM/Ton Setting	Low	-	1410	1393	1386	1384	1383	1380	1368	1344	-	-
	High	-	2015	1990	1980	1977	1976	1971	1955	1920	-	-

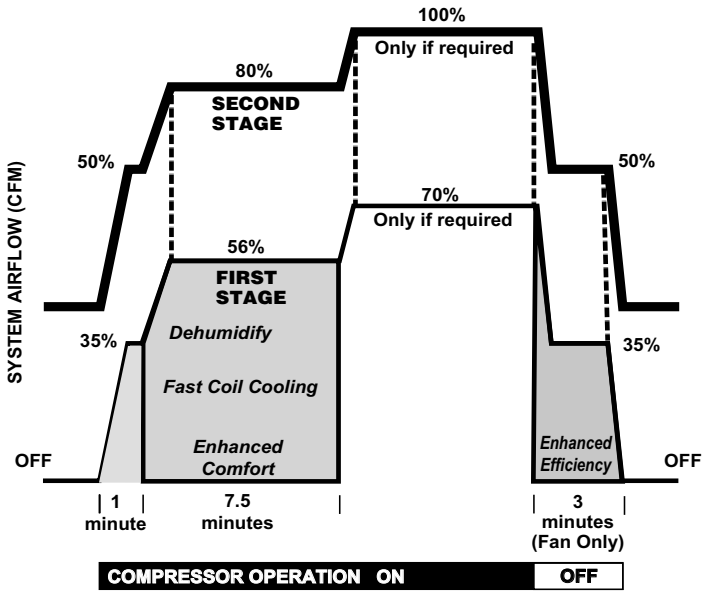
4WCZ6060B AIRFLOW WITH AUXILIARY HEAT (CFM)

SWITCH SETTINGS		SELECTION	NOMINAL AIRFLOW
7-OFF	8-OFF	LOW	1400 CFM
7-ON	8-OFF	HIGH	1600 CFM
7-OFF	8-ON	HIGH	1600 CFM
7-ON	8-ON	HIGH	1600 CFM

COOLING FAN DELAY OPTIONS

SWITCH SETTINGS		DELAY	NOMINAL AIRFLOW
5-OFF	6-OFF	NONE	100%
5-ON	6-OFF	45 SEC	100%
5-OFF	6-ON	90 SEC	50%
5-ON	6-ON	**	50-100%

** This ENHANCED MODE selection provides a ramping up and ramping down of the indoor blower speed to provide improved comfort, quietness, and potential energy savings. The Graph below shows the ramping process



Supplementary Electric Heaters

BAYHTRV405, 408, 410, 415, 420, 425E

UNIT MODEL	ELECTRIC HEATER MODEL	RATED VOLTAGE	PHASE	AMPS	HEATER CAPACITY		NO. OF STAGES	KW/STAGE		MCA	MAX FUSE OR HACR CKT BKR SIZE (4)	CANADA ONLY MAX. CKT BKR SIZE (5)
					KW	BTUH		1	2			
^WCZ6036-060‡4	BAYHTRV405E	480	3	6	5.0	17100	1	5.0		8	15	15
^WCZ6036-060‡4	BAYHTRV408E	480	3	10	8.0	27300	1	8.0		13	15	15
^WCZ6036-060‡4	BAYHTRV410E	480	3	12	10.0	34100	1	10.0		15	15	15
^WCZ6036-060‡4	BAYHTRV415E	480	3	18	15.0	51200	2	10.0	5.0	23	25	25
^WCZ6048-060‡4	BAYHTRV420E	480		24	20.0	68300	2	10.0	10.0	30	30	30
^WCZ6048-060‡4	BAYHTRV425E	480	3	30	25.0	85300	2	15.0	10.0	38	40	40

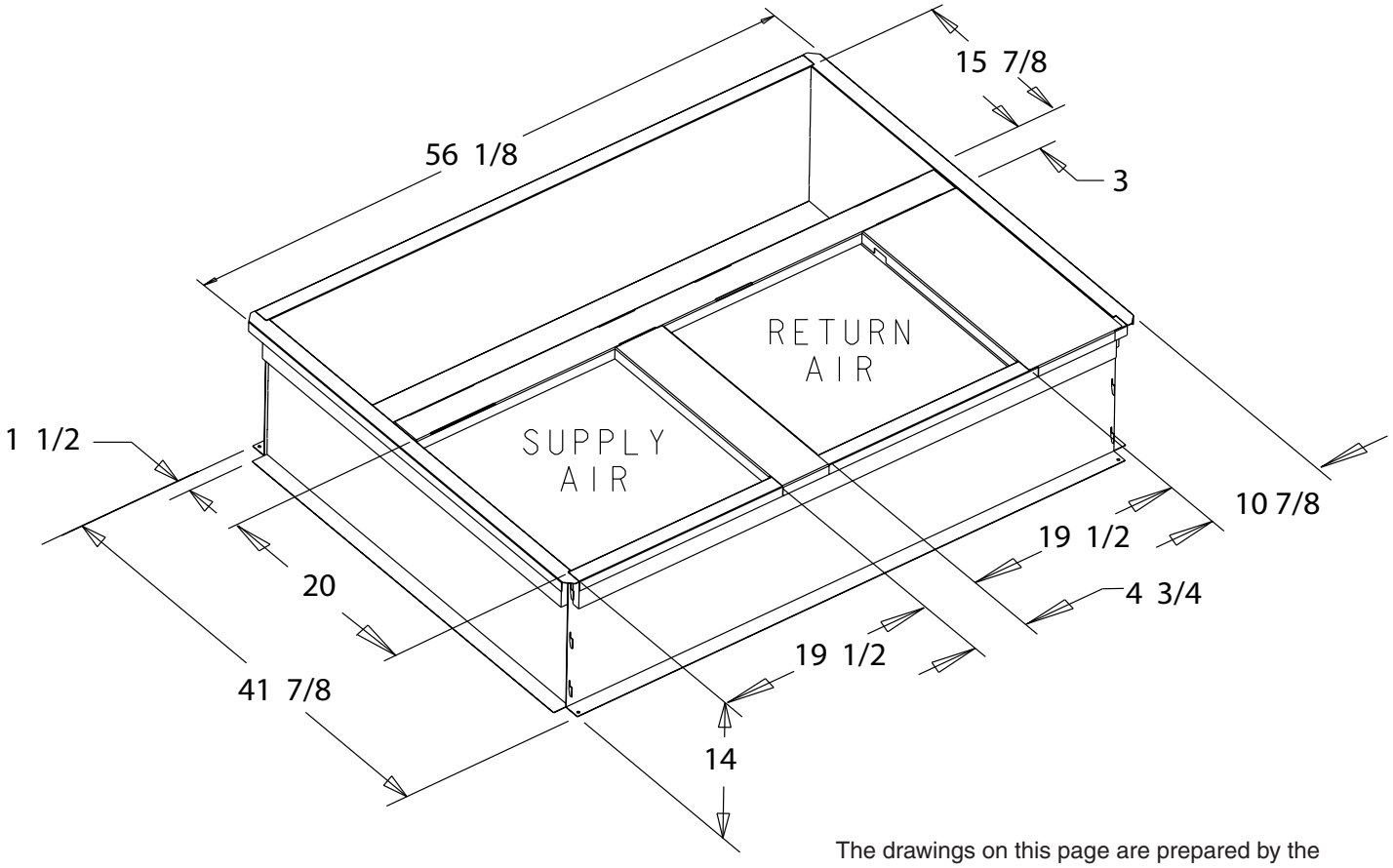
Single Power Entry Kit

BAYSPEK61E

SINGLE POWER ENTRY KIT	HEATER MODEL	UNIT MODEL	MIN CKT. AMP.	MAX OVER CUR–RENT PROTECT DEVICE
BAYSPEK061E	BAYHTRV405E	4WCZ6060B4	27	30
	BAYHTRV408E	4WCZ6060B4	31	35
	BAYHTRV410E	4WCZ6060B4	34	40
	BAYHTRV415E	4WCZ6060B4	42	45
	BAYHTRV420E	4WCZ6060B4	49	50

Optional Equipment

BAYCURB051A Full Perimeter Roof Mounting Curb for 4WCZ6048–060



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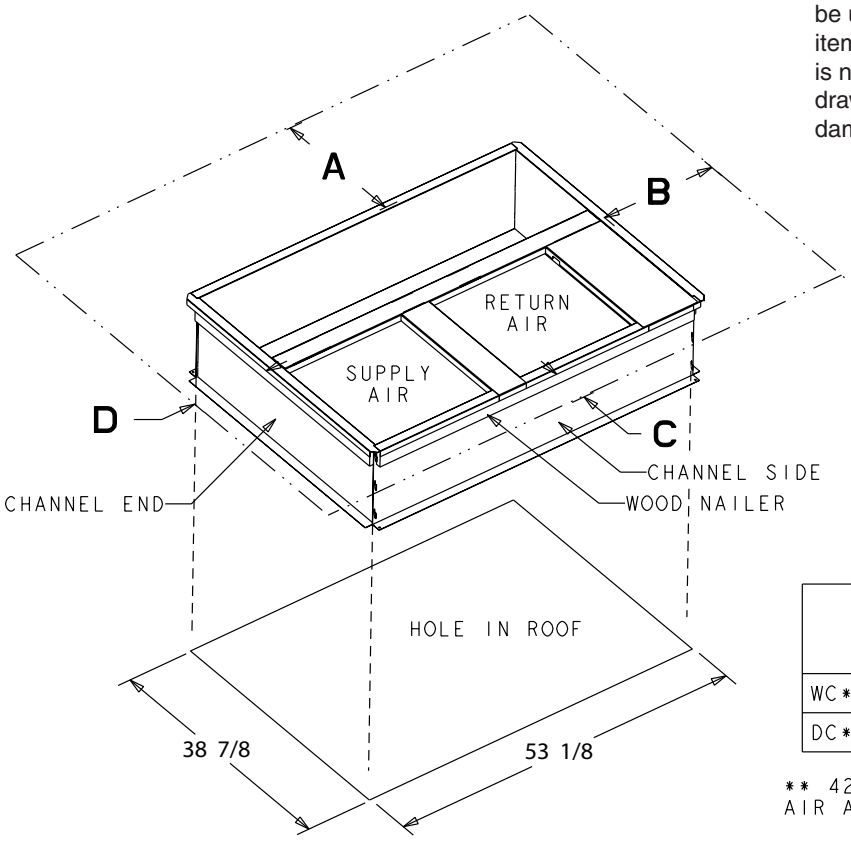
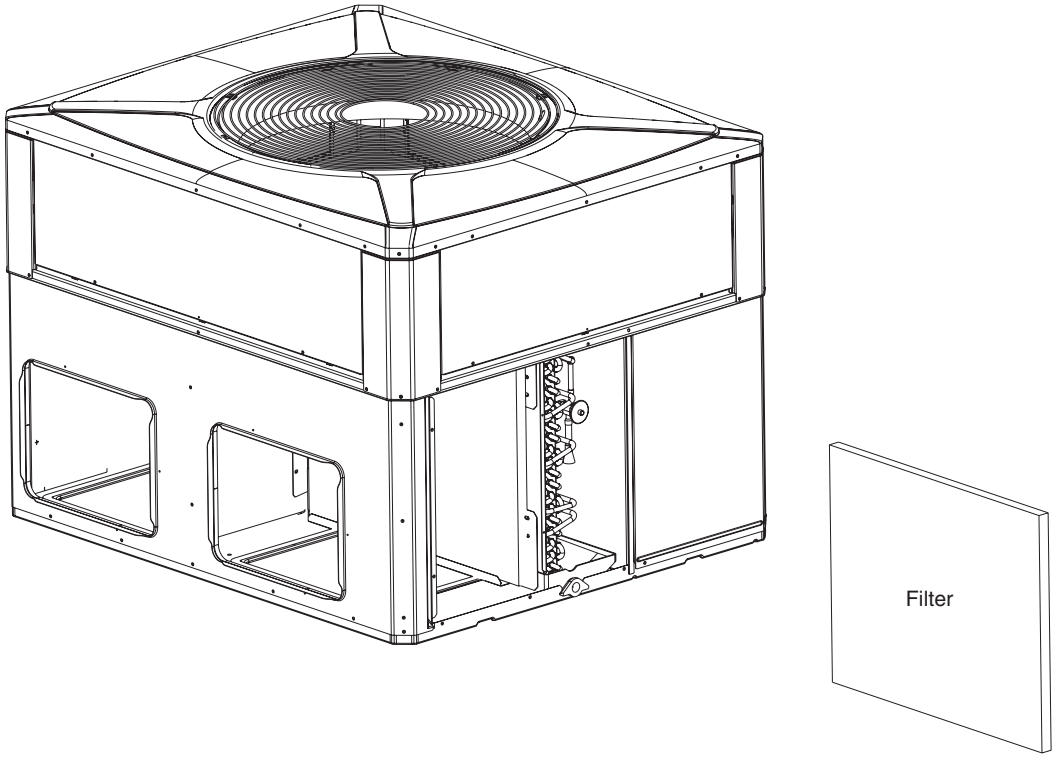


	SERVICE CLEARANCE DIMENSIONS			
	A	B	C	D
WC*/TC*	42.00	36.00	12.00**	24.00
DC*/YC*	42.00	36.00	12.00**	36.00

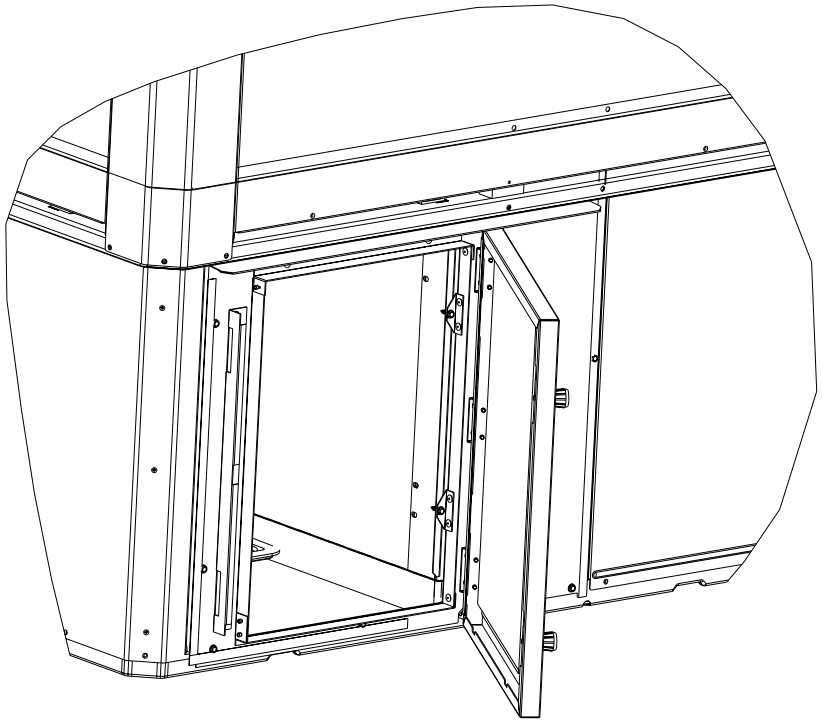
** 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

Optional Equipment

BAYFLTR101, 201B, 1" – 2" Filter Rack
(Mounts in Filter/Coil Section)



BAYACCDOR1A & BAYACCDOR2A Hinged Filter Access Door
Replaces Filter/Coil Access Panel



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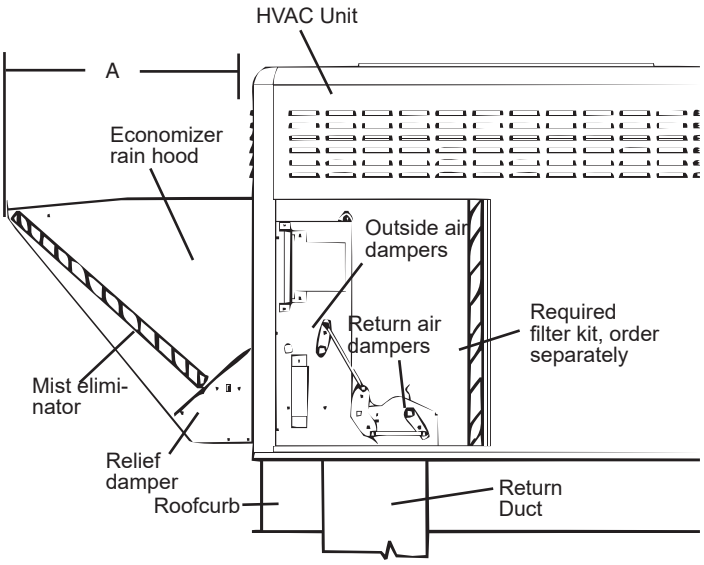
Optional Equipment

BAYECON103,104A Down Discharge Economizer and Rain Hood (Mounts Over Horizontal Return Air Opening)



Economizer	Models	A
BAYECON103A	4WCZ6036A 4DCZ6036A 4YCZ6036A	20 1/8"
BAYECON104A	4WCZ6048-060A 4DCZ6048-060A 4YCZ6048-060A	24 3/8"

BAYCON203,204A Horizontal Economizer and Rain Hood

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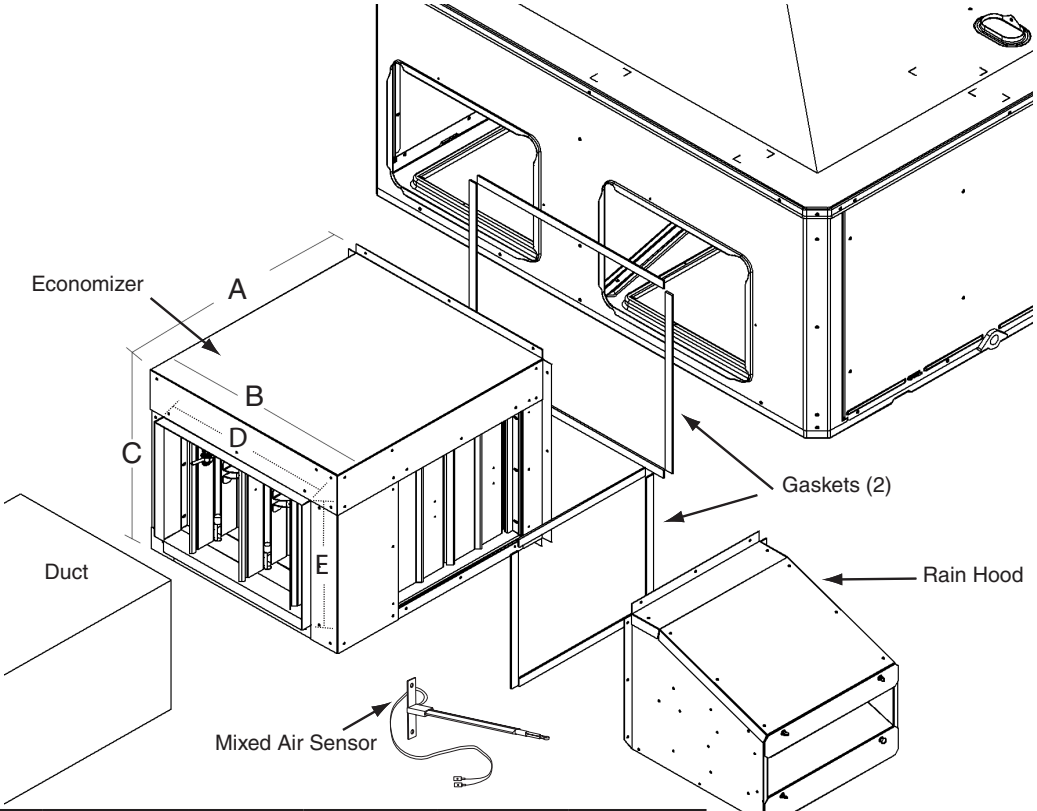

Economizer	A	B	C	D	E	F
BAYECON203AA	22"	20"	16 7/8"	15 11/16"	11 11/16"	15"
BAYECON204AA	26"	22 21/32"	19"	17 11/16"	14 11/16"	21-3/8"

Optional Equipment

BAYOSAH001,002A, 25% Outside Air Damper (Replaces Filter/Coil Access Panel)

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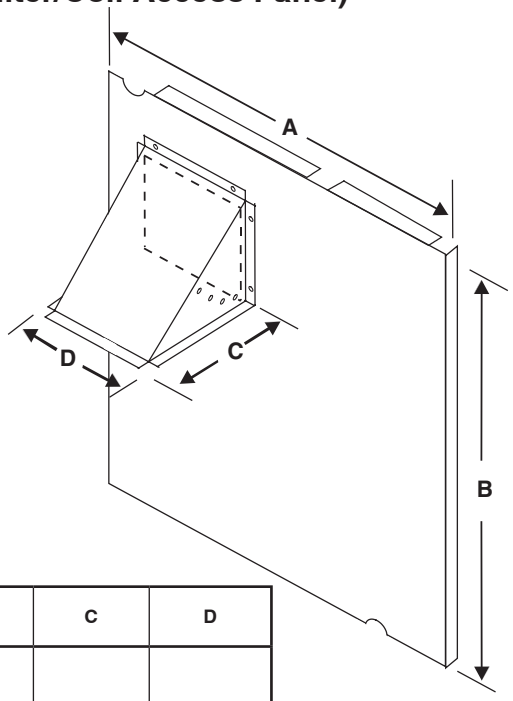
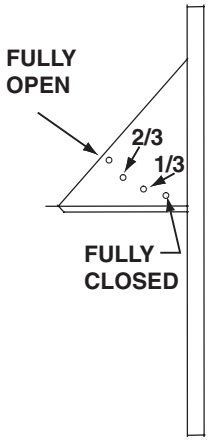
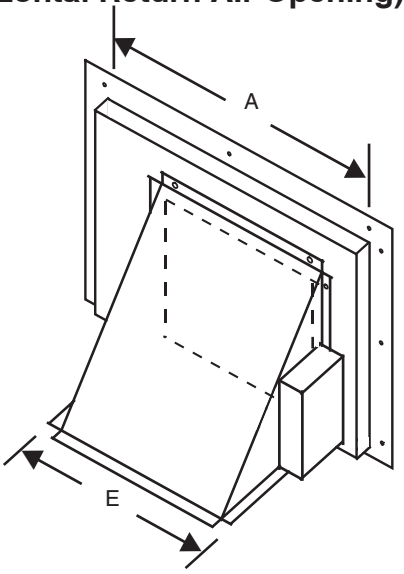
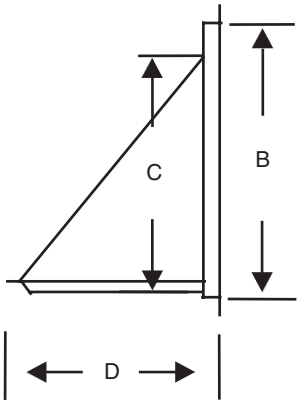




Manual Fresh Air Model	Unit Application Models	A	B	C	D
BAYOSAH001	4YC,WC3018-036 4TC*3018-036 4W/T/Y/DCY4024-036 4W/Y/DCZ6036	22 7/16"	20 11/16"	12 3/8"	9 3/16"
BAYOSAH002	4YC,WC3042-060 4TC*3042-060 4W/T/Y/DCY4042-060 4W/Y/DCZ6048-060	25 3/16"	20 11/16"	12 3/8"	9 3/16"

BAYDMPR101,102A, 25% Motorized Outside Air Damper (Mounts Over Horizontal Return AIr Opening)





	Unit Application Models	A	B	C	D	E
BAYDMPR101A	4YC,WC3018-036 4TC3018-036 4W/T/Y/DCY4024-036 4W/Y/DCZ6036	15 13/16"	11 13/16"	10 1/4"	11 1/2"	12 1/4"
BAYDMPR102A	4YC,WC3042-060 4TC3042-060 4W/T/Y/DCY4042-060 4W/Y/DCZ6048-060	18 3/16"	15 1/8"	10 1/4"	11 1/2"	12 1/4"

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 A.H.R.I. 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 glass 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 Climatuff® two-stage compressors. Internal overcurrent and over temperature protection, internal pressure relief shall be standard.

Refrigeration System

All units shall have TXV in cooling and TXV in heating. Service pressure tap ports, and a refrigerant line filter dryer shall be standard.

Indoor Coil

Coils shall be internally finned or smooth bore 3/8" copper tubes mechanically bonded to configured aluminum plate fin as standard. Evaporator coil leak and pressure tested to 200 psig; condenser coil tested to 450 psig.

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.

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 unit 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 wiring 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. 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 Setback 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

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 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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4WCZ6060B-SUB-4A-EN 28 May 2020
Supersedes 4WCZ6060B-SUB-4 (May 2014)