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SUBMITTAL

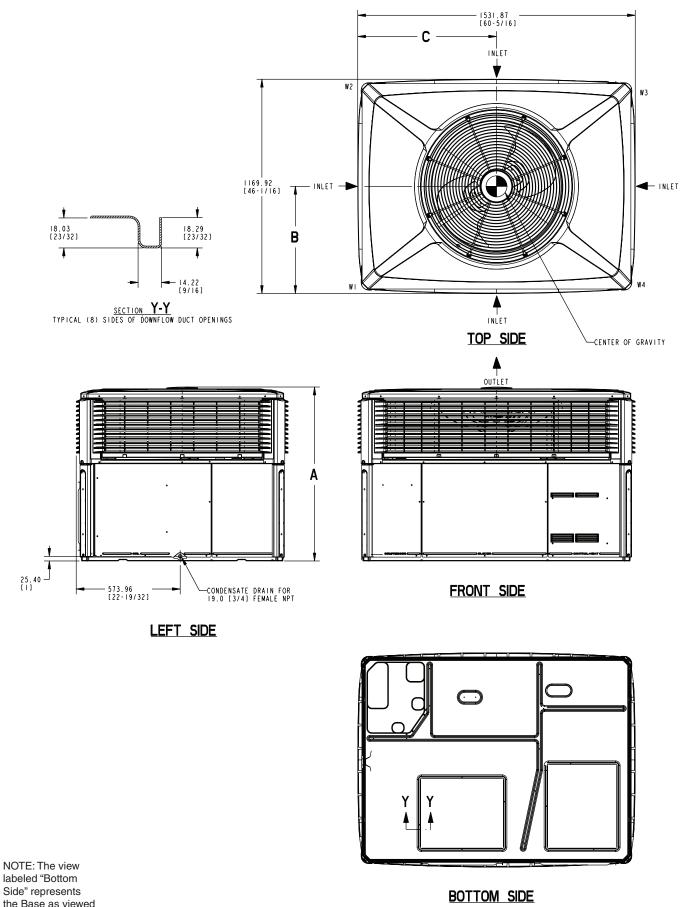
4 Ton Convertible Heat Pump Packaged Units 4WCY4048A3000C

PRODUCT SPECIFICATIONS

MODEL	4WCY4048A3000C
RATED Volts/PH/Hz	208-230/3/60
Performance Cooling BTUH	1 ① 47000
Indoor Airflow (CFM)	1400
Power Input (KW)	3.97
EER/SEER (BTU/Watt-Hr.) 6	11.75 / 14.0
Sound Power Rating [dB(A)](2)	73
Performance Heating ①	
(High Temp.)BTUH	42500
Power Input (KW)	3.56
(Low Temp.) BTUH	27200
Power Input (KW)	3.44
HSPF (BTU / Watt-Hr.) ⑥	8.0
POWER CONN.—V/Ph/Hz	208-230/3/60
Min. Brch. Cir. Ampacity®	25.3
Fuse Size — Max (amps)	35
Fuse Size — Max. (amps) Fuse Size — Recmd. (amps)	35
COMPRESSOR	SCROLL
Volts/Ph/Hz	208-230/3/60
R.L. Amps — L.R. Amps	13.7 / 83
OUTDOOR COIL — TYPE	SPINE-FIN
Rows/F.P.I.	2/24
Face Area (sq.ft.)	18.01
Tube Size (in.)	3/8
Refrigerant Control	EXPANSION VALVE
INDOOR COIL — TYPE	PLATE FIN
Rows/E.P.I.	3 / 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. @	4440
Motor — HP/R.P.M.	1/4 / 825
Volts/Ph/Hz	230/1/60
F.L. Amps/L.R. Amps	1.4 / 3.37
INDOOR FAN — TYPE	CENTRIFUGAL
Dia x Width (in.)	10 X 10
Drive/No. Speeds	DIRECT / VARIABLE
CFM @ 0.0 in. w.g. ⑤	SEE FAN PERFORMANCE TABLE
Motor — HP/R.P.M.	3/4 / VARIABLE
Volts/Ph/Hz	200-230/1/60
F.L. Amps/L.R. Amps	6.8 / 6.8
FILTER / FURNISHED	NO
Type Recommended Recmd. Face Area (sq. ft.)	THROWAWAY 5.3
REFRIGERANT	
	7.75
Charge (lbs.) DIMENSIONS	
	47.86 / 47.4 / 61.75
Crated (in.) WEIGHT	47.00/47.4/01.73
	607 / 479
Shipping (lbs.) / Net (lbs.)	007/479

- 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.
- Standard Air Wet Coil Indoor.
- ® 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.

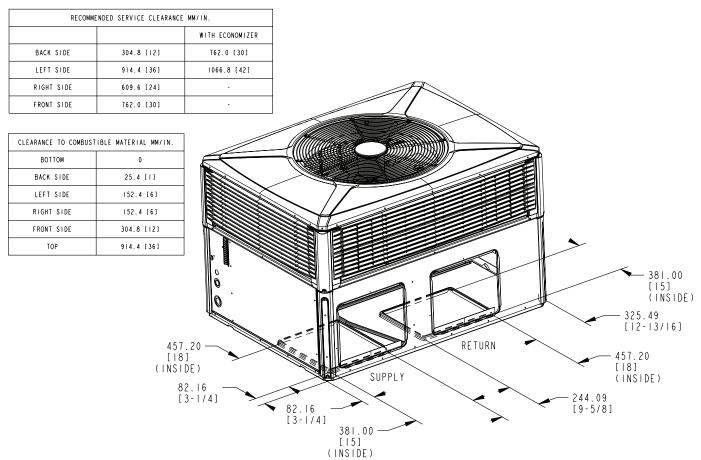
Dimensional Data and Weights



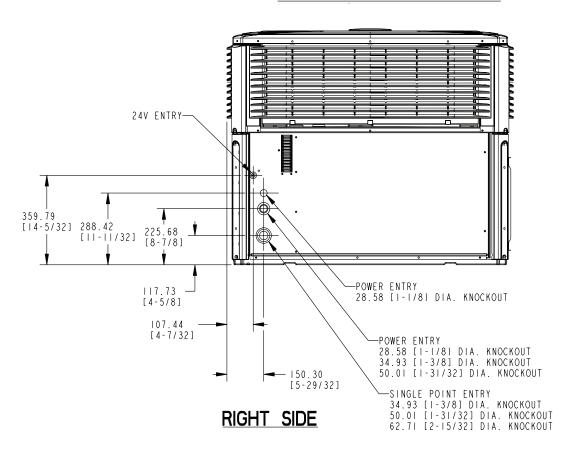
labeled "Bottom Side" represents the Base as viewed looking up from underneath the unit.

4WCY4042 through 4WCY4060 (1 of 3)

Dimensional Data and Weight

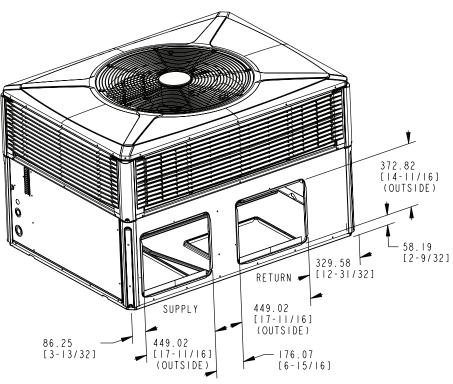


BOTTOM DUCT OPENINGS

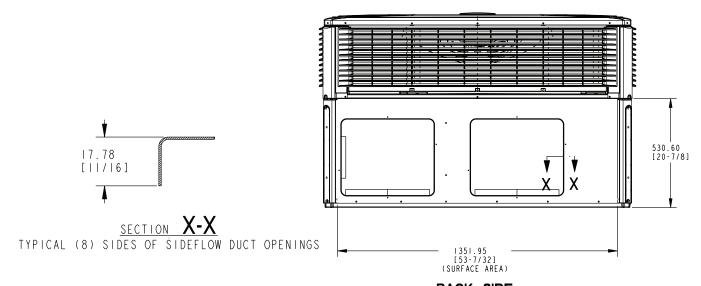


4WCY4042 through 4WCY4060 (2 of 3)

Dimensional Data and Weights



BACK DUCT OPENINGS



BACK SIDE

HODEL	HEIGHT MM/IN.		APPROX. CORNER	WEIGHT - KG/LBS	i	SHIPPING	TOTAL UNIT	CENTER OF GRAVITY MM/IN.		
MODEL	A	WI	W2	W3	W 4	WEIGHT KG/LBS	WEIGHT KG/LBS	В	С	
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 [3]	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]	
4WC Y 40 48B	949.33 [37-3/8]	78.0 [172]	49.4 [109]	37.6 [83]	59.4 [3]	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]	

Unit Performance Data

Indoor Fan Performance 4WCY4048

Horizontal Airflow

4WCY4048-HOR	DIPS	WITCH	SETT	INGS		External Static Pressure (in. wg)												
AIRFLOW SETTING	1	2	3	4		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0		
250 CEM/TON	٥	FF OFF OFF		٥٢٢	ON	Watts	187	232	264	291	318	347	379	413	446	472	-	
350 CFM/TON	350 CFM/TON OFF OI		ON	CFM	1355	1387	1396	1392	1382	1370	1360	1351	1341	1326	-			
	٥	٥	٥٢٢	OFF	Watts	315	324	352	389	428	464	498	529	563	606	-		
400 CFIVI/TOIN	400 CFM/TON* OFF		OFF OFF	OFF	CFM	1603	1581	1577	1580	1583	1583	1577	1567	1558	1556	-		
450 05145014						055	Watts	301	431	507	552	584	615	651	694	739	779	-
450 CFM/TON	OFF OFF	ON	OFF	CFM	1752	1794	1812	1816	1812	1806	1800	1797	1793	1785	-			

Down Airflow

4WCY4048-DOWN	DIPS	WITCH	SETT	INGS		External Static Pressure (in. wg)														
AIRFLOW SETTING	1	2	3	4		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 OFF	055		ON	Watts	208	254	284	312	343	379	414	437	460	490	-					
350 CFM/TON	350 CFM/TON OFF	OFF OFF O	OFF	OFF ON	CFM	1337	1393	1398	1388	1383	1390	1399	1384	1380	1370	-				
400 CFM/TON*	055	055		055	٥٢٢	Watts	302	349	386	423	465	509	552	583	599	628	-			
400 CFIM/TON	OFF	OFF	OFF	OFF	CFM	1574	1580	1585	1589	1594	1598	1601	1597	1584	1556	-				
450 OFM/TON				055 055		055	ON		Watts	501	523	555	592	631	672	714	760	800	845	-
450 CFM/TON	OFF	OFF	ON	OFF	CFM	1847	1823	1817	1818	1820	1819	1817	1820	1815	1810	-				

^{*}Factory Default Setting

4WCY4048 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

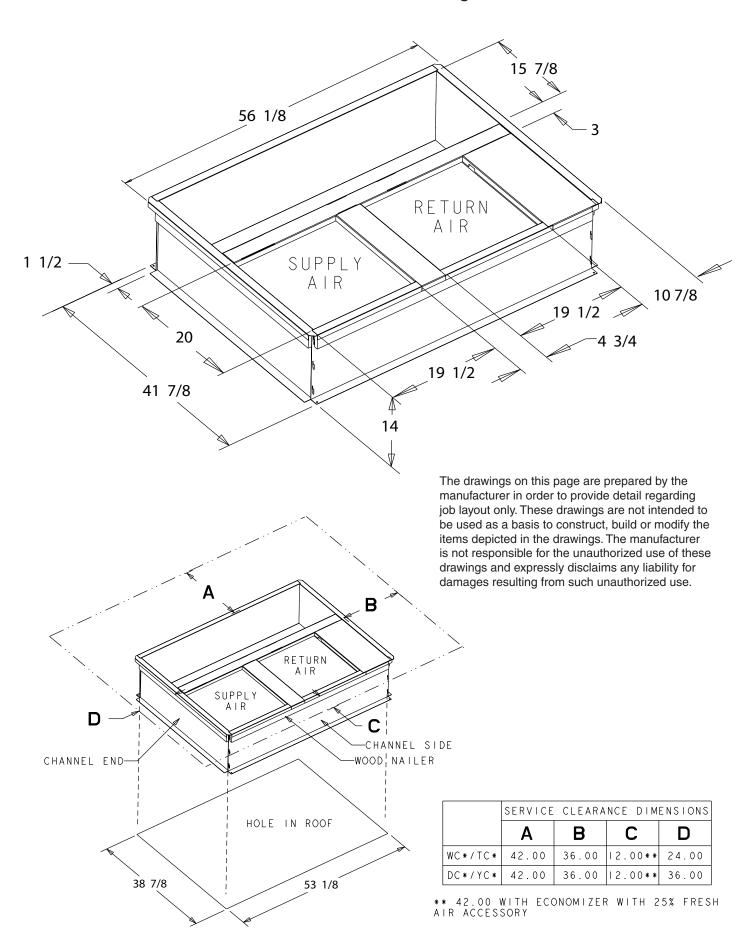
BAYHTRV305, 308, 310, 315, 320, 325E Supplementary Electric Heater

	ELECTRIC	RATED			HEATER	CAPACITY	NO. OF	KW/ST	AGE			-	
UNIT MODEL	HEATER MODEL	VOLTAGE	PHASE	AMPS	KW	втин	STAGES	1	2	MCA	HACR CKT BKR SIZE (4)	MAX. CKT BKR SIZE (5)	
^W/TCY4036-060A3	BAYHTRV305E	208/240	3	10/12	3.76/5.0	12800/17100	1	3.76/5.0		13/15	15/15	15/15	
^W/TCY4036-060A3	BAYHTRV308E	208/240	3	17/19	6.0/8.0	20500/27300	1	6.0/8.0		21/24	25/25	25/25	
^W/TCY4036-060A3	BAYHTRV310E	208/240	3	21/24	7.5/10.0	25600/34100	1	7.5/10.0		26/30	30/30	30/30	
^W/TCY4036-060A3	BAYHTRV315E	208/240	3	31/36	11.27/15.0	38500/51200	2	7.5/10.0	3.76/5.0	39/45	40/45	40/45	
^W/TCY4048-060A3	BAYHTRV320E	208/240	3	42/48	15.0/20.0	51200/68300	2	7.5/10.0	7.5/10.0	52/60	60/60	60/60	
^W/TCY4048-060A3	BAYHTRV325E#	208/240	3	52/60	18.78/25.0	64100/85300	2	11.26/15.0	7.5/10.0	65/75	70/80	70/80	

BAYSPEK61, 64E Single Power Entry Kit

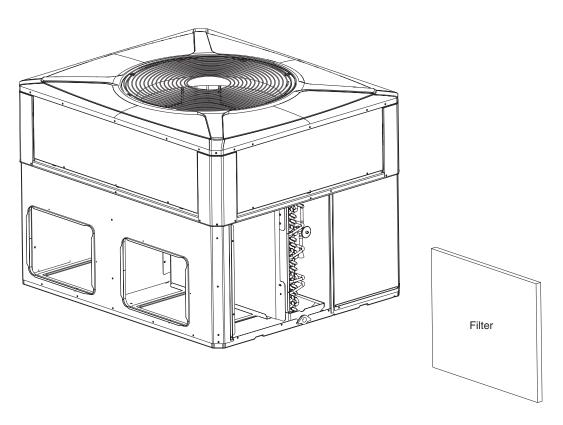
SINGLE POWER ENTRY KIT	HEATER MODEL	UNIT MODEL
	BAYHTRV305E	4WCY4036-060A3
BAYSPEK061E	BAYHTRV308E	4WCY4036-060A3
	BAYHTRV310E	4WCY4036-048A3
BAYSPEK064E	BAYHTRV315E	4WCY4036-060A3
DATOF ER004E	BAYHTRV320E	4WCY4048A-060A3

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

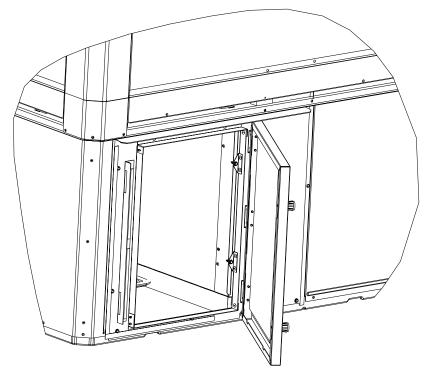


Optional Equipment

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



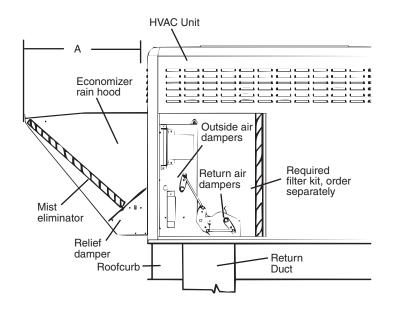
BAYACCDOR1A & BAYACCDOR2A Hinged Filter Access Door Replaces Filter/Coil Access Panel



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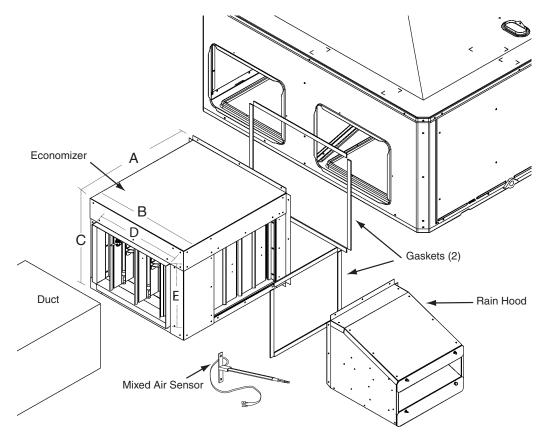
Optional Equipment

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



Economizer	Unit Application Models	Α
BAYECON101A	4TC*,WC*,YC*,DC* *018-036	20.125"
BAYECON102A	4TC*,WC*,YC*, DC* *042-060	24.375"

BAYCON200,201A Horizontal Economizer and Rain Hood



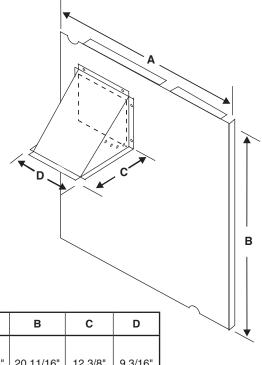
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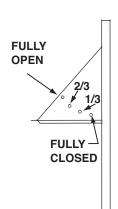
Economizer	mizer A		С	D	E	F
BAYECON200AA	22"	20"	16 7/8"	15 11/16	11 11/16	15
BAYECON201AA	26"	22 21/32"	19"	17 11/16	14 11/16	21-3/8

Optional Equipment

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

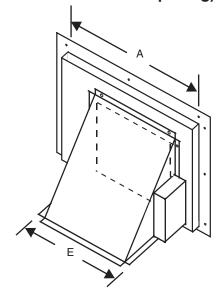
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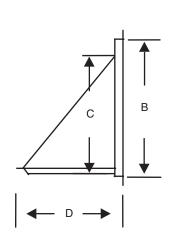




Manual Fresh Air Model	Unit Application Models	Α	В	С	D
BAYOSAH001	4YC,WC3018-036 4TC*3018-036 4W/T/Y/DCY4024-036 4W/Y/DCZ6036	22 7/16"	20 11/16"	12 3/8"	9 3/16"
BAYOSAH002	4YC,WC3042-060 4TC*3042-060 4W/T/Y/DCY4042-060 4W/Y/DCZ6048-060	25 3/16"	20 11/16"	12 3/8"	9 3/16"

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





	Unit Application Models	Α	В	С	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. 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® 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, forwardcurved, 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.

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