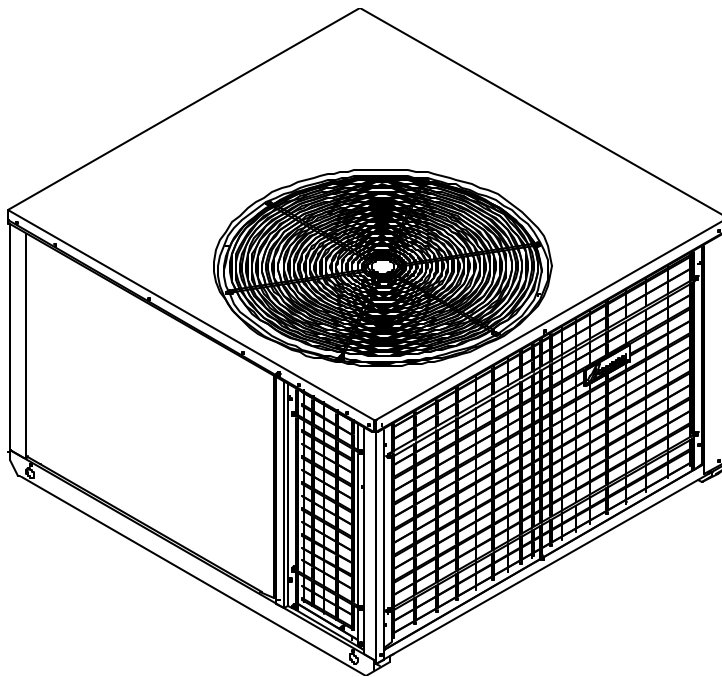


Models and manufacturing
numbers in this manual

PHB24CC2E1	P1239908C
PHB30CC2E1	P1239909C
PHB36CC2E1	P1239910C

Service Parts

PHB*E1 Package Heat Pump Units



This manual is to be used by qualified appliance technicians only. Amana does not assume any responsibility for property damage or personal injury for improper service procedures performed by an unqualified person.

Heating & Air Conditioning
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RP6331001
Revision 0
November 2002

Important Information

Amana is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Amana also recommends contacting an authorized technician and using authorized factory parts.

For assistance within the U.S.A. contact:

Consumer Affairs Department
Goodman Company, L.P.
1810 Wilson Parkway
Fayetteville, TN 37334
877-254-4729-Telephone
931-438-2922-Facsimile

For assistance outside the U.S.A. contact:

International Division
Goodman Company, L.P.
1810 Wilson Parkway
Fayetteville, TN 37334
931-438-3632-Telephone
931-438-2922-Facsimile

Index

Functional Parts List 5

Illustration and Parts 6 - 17

Views shown are for parts illustrations only, not servicing procedure

Text Codes:

- AR - As Required
- NA - Not Available
- NS - Not Shown
- 00000000 - See Note
- QTY - Quantity Example (QTY 3) (If Quantity not shown, Quantity = 1)
- M - Model Example (M1) (If M Code not shown, then part is used on all Models)

Expanded Model and Color Nomenclature:

Example	
M1 - Model#1	P_____
M2 - Model#2	P_____
M3 - Model#3	P_____

Functional Parts

Part

No: Description:

20243701	10KW/HEAT-ELEMENT
B1226008	BOARD-DEFROST
D6879747	CAPACITOR
D6789057	CAPACITOR-ROUND (M3)
D6789062	CAPACITOR-ROUND (M1, M2)
10481814	COMP-CR24K6-PFV230 (M1)
10481815	COMP-CR30K6-PFV230 (M2)
10481816	COMP-CR35K6-PFV230 (M3)
20336403	CONDENSER ASSY (M3)
20338902	CONDENSER ASSY (M2)
20338901	CONDENSER ASSY (M1)
C6170002	CONTACTOR-30A
10030914	CONTROL-DEF 30/60
20336302	EVAPORATOR ASSY (M1)
20336202	EVAPORATOR ASSY (M2, M3)
20001002	HARNESS-BLOWER
10685012	HARNESS-COIL
20001401	HARNESS-COMP
20425901	HARNESS-CONTROL
20013001	MOTOR-EVAP
11076302	ORIFICE (COND) .055 (M1)
11096302	ORIFICE (COND) .057 (M3)
11076305	ORIFICE (COND) .063 (M2)
11096218	ORIFICE (EVAP) .065 (M1)
11096208	ORIFICE (EVAP) .074 (M2, M3)
10135601	RELAY
M0385305	SWITCH
11120302	TRANSFORMER
D6723302	WHEEL-BLOWER

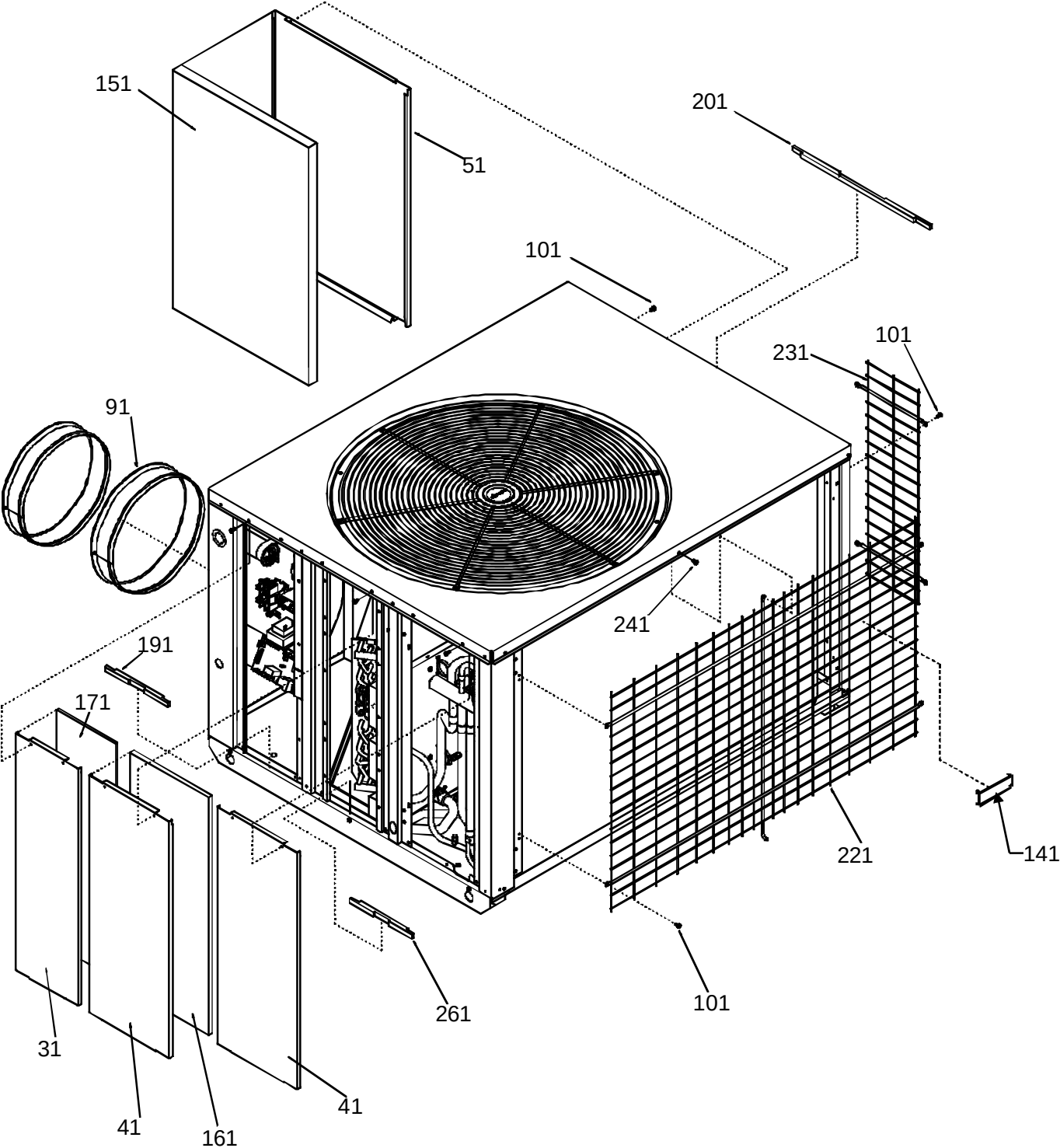
SPECIAL PARTS

10500218	MANUAL-USERS
RP6331001	PARTS MANUAL
RS6300003	SERVICE MANUAL
20313920	SPEC SHEET
RT6331001	TECHNICAL MANUAL
10017111	WARRANTY

Expanded Model and Color Nomenclature

M1 - PHB24CC2E1	P1239908C
M2 - PHB30CC2E1	P1239909C
M3 - PHB36CC2E1	P1239910C

Outer Cabinet



Outer Cabinet

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
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Image 1:

31	11099009	DOOR-CAB
41	11099010	DOOR-CAB (QTY 2)
51	11099011	DOOR-CAB
91	20014201	TRANSITION-DUCT (QTY 2)
101	M0221817	SCREW-SM (QTY AR)
141	20187902	NAMEPLATE-SIDE
151	11130116	INSULATION
161	11131110	INSUL-DOOR
171	20014701	INSULATION
191	20412002	GASKET-FOAM
201	20412001	GASKET-FOAM
221	20199701	GRILLE-FLAT
231	11184703	GRILLE-FLAT
241	M0229130	SCREW-SD
261	20412003	GASKET-FOAM
NS	20212901	FLANGE (QTY 2)

Expanded Model and Color Nomenclature

M1 - PHB24CC2E1	P1239908C
M2 - PHB30CC2E1	P1239909C
M3 - PHB36CC2E1	P1239910C

[illegible]

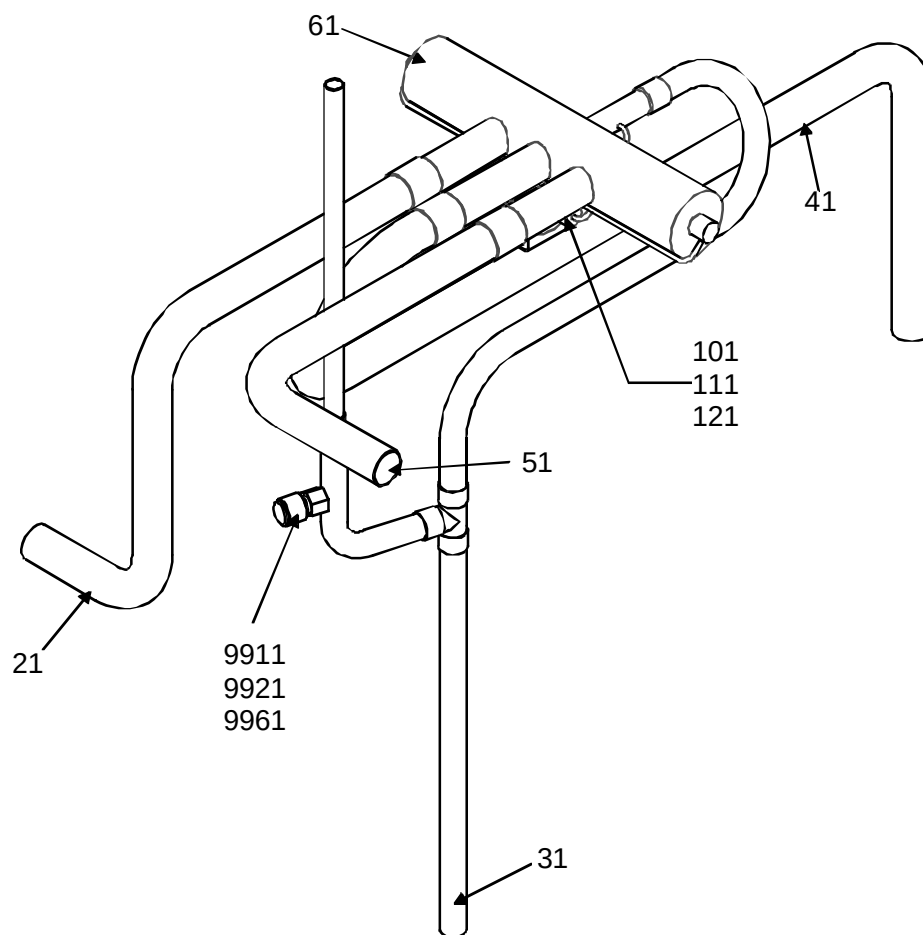
Internal Components

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 1:</i>			
21	20336403	CONDENSER ASSY (M3)	
21	20338901	CONDENSER ASSY (M1)	
21	20338902	CONDENSER ASSY (M2)	
31	20336202	EVAPORATOR ASSY (M2, M3)	
31	20336302	EVAPORATOR ASSY (M1)	
51	20001202	BASEPAN	
61	20000503	RAIL-BASEPAN (QTY 2)	
71	20001101	COVER-DUCT (QTY 2)	
81	20012902	INSUL-BASEPAN	
91	10481814	COMP-CR24K6-PFV230 (M1)	
91	10481815	COMP-CR30K6-PFV230 (M2)	
91	10481816	COMP-CR35K6-PFV230 (M3)	
101	20013507	PART-COND	
111	20013603	INSUL-COND PNL	
121	20000901	PLATE-COND PKG	
131	11130114	INSUL-PLATE	
151	20001804	POST-CORNER	
171	11098719	POST-SIDE PKG (QTY 2)	
191	20000601	PAN-DRIP	
251	11197101	PART-EVAP	
261	20014401	COIL-BAFFLE	
271	20013901	SUPPORT-MOTOR	
291	10030914	CONTROL-DEF 30/60	
331	A4568804	GROMMET-D	
341	M0118702	CLIP-GUIDE (QTY 2)	
351	20295401	DRAIN ASSY	
361	M0117605	CLAMP-TUBE (QTY 2)	
461	B1315401	GROMMET-COMP FOOT (QTY 4)	
471	M0221641	SCREW-SHOULDER TF (QTY 4)	
481	A4554820	BUSHING-SNAP	
571	M0221817	SCREW-SM (QTY AR)	
671	10839803	GASKET-.12X.50 (QTY 6)	
681	10839801	GASKET-.25X.50 (QTY AR)	
761	20155501	STRAP-ACCUM	
781	11190803	ACCUMULATOR	
821	20337201	LIQUID TUBE WELD	
831	20337504	SUCTION TUBE WELD (M3)	
831	20337505	SUCTION TUBE WELD (M2)	
831	20337506	SUCTION TUBE WELD (M1)	
851	20247105	FILLER-EVAP	
891	10839807	GASKET-.37X.75	
971	20254102	BLANKET-SOUND	
9991	11076302	ORIFICE (COND) .055 (M1)	
9991	11096302	ORIFICE (COND) .057 (M3)	
9991	11076305	ORIFICE (COND) .063 (M2)	
9991	11096218	ORIFICE (EVAP) .065 (M1)	
9991	11096208	ORIFICE (EVAP) .074 (M2, M3)	

Expanded Model and Color Nomenclature

M1 - PHB24CC2E1	P1239908C
M2 - PHB30CC2E1	P1239909C
M3 - PHB36CC2E1	P1239910C

Reversing Valve Weldment



Reversing Valve Weldment

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

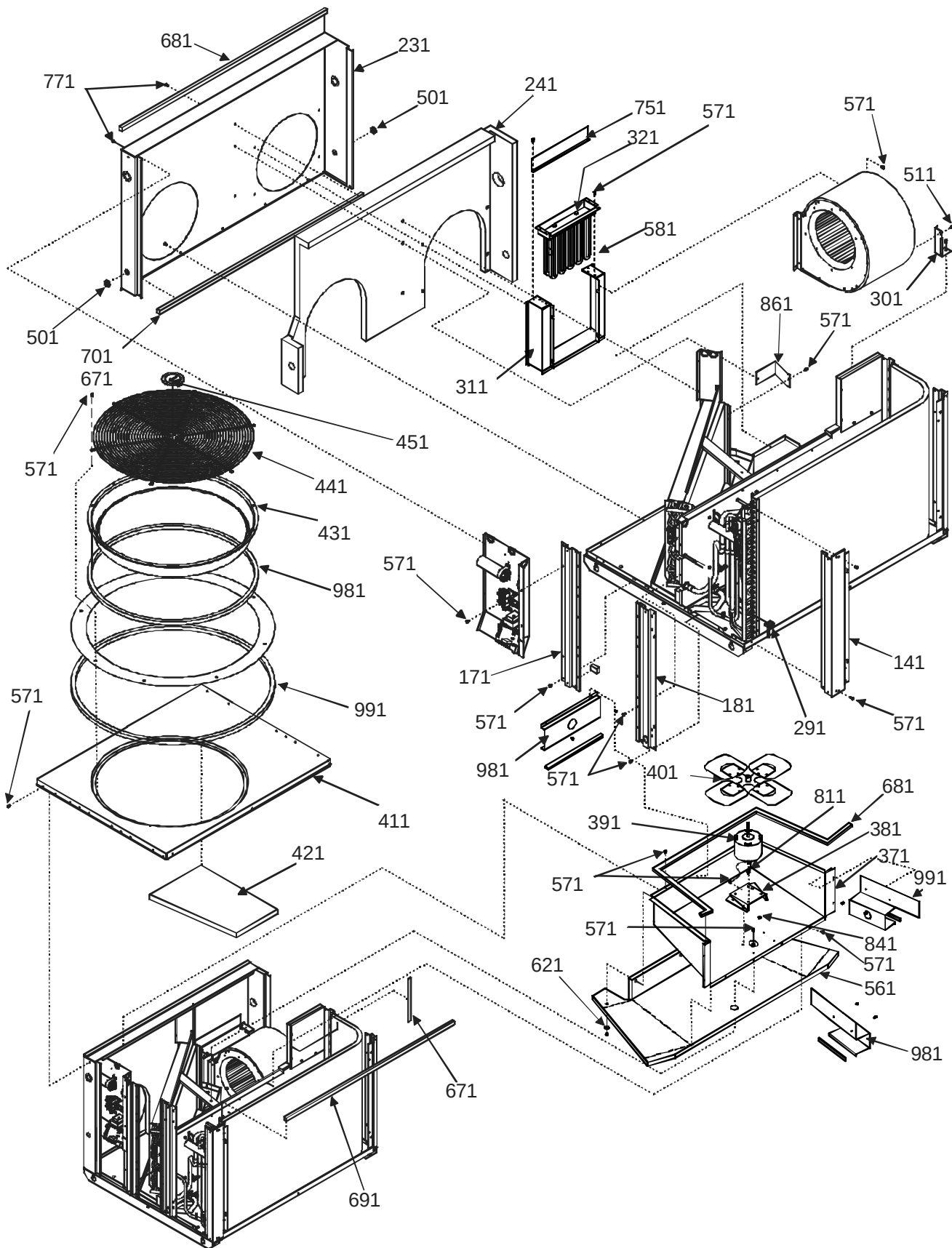
Image 1:

21	20333901	TUBE-EVAP/REV
31	20338301	TUBE WELD-DISCH (M2, M3)
31	20338302	TUBE WELD-DISCH (M1)
41	20334001	TUBE-ACCUM/REV
51	10004647	TUBE-COND/REV (M3)
51	20338601	TUBE-COND/REV (M1, M2)
51	20338601	TUBE-COND/REV (M1, M2)
61	10681001	VALVE-REVERSING
101	10702301S	COVER-COIL
111	10702401	LOCKNUT
121	10702201	COIL-REV VALVE
9911	A4692602	NUT-CAP
9921	A4692801	VALVE-CORE
9961	A4692702	VALVE-DILL

Expanded Model and Color Nomenclature

M1 - PHB24CC2E1	P1239908C
M2 - PHB30CC2E1	P1239909C
M3 - PHB36CC2E1	P1239910C

Internal Components



Internal Components

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 1:</i>			
141	20001703	POST-CORNER	
171	11098719	POST-SIDE (QTY 2)	
181	11098720	POST-SIDE	
231	20001304	PANEL-BACK	
241	20013801	INSUL-BACK	
291	10030914	CONTROL-DEF 30/60	
301	20013202	BRACKET-BLWR	
311	20020701	HEATER BOX	
321	20243701	10KW/HEAT-ELEMENT	
371	11098304	PART-FAN	
381	11099501	MOUNT-COND MTR	
391	11112805	MOTOR-COND	
401	11182906	FAN-CONDENSER CW	
411	20000704	COVER-TOP	
421	11182501	INSUL-TOP	
431	20171401	ORIFICE-COND	
441	11112001	GRILLE-FAN	
451	C6196704	PLATE-LOGO	
501	A4603801	GROMMET (QTY 2)	
511	M0250558	SCREW-TC	
561	11197402	INSUL-FAN PART	
571	M0221817	SCREW-SM (QTY AR)	
581	20244701	10KW CONT BOX (M1)	
581	20244702	10KW CONT BOX (M2)	
581	20244703	10KW CONT BOX (M3)	
621	11197701	WASHER-RETAINER (QTY 2)	
671	10839803	GASKET-.12X.50 (QTY 6)	
681	10839801	GASKET-.25X.50 (QTY AR)	
691	10839712	GASKET .62X.75 (QTY 3)	
701	10839810	GASKET-.18X.38 (QTY 4)	
751	20037201	HEATER BOX-BAF	
771	M0220819	SCREW-SM (QTY 9)	
811	20042802	GROMMET-ISLR (QTY 4)	
841	M0280801	NUT-HEX (QTY 4)	
861	20247001	BRACKET-EVAP	
981	20248501	BAFFLE-SOUND	
991	20248401	BAFFLE-SOUND (QTY 2)	
NS	10685012	HARNESS-COIL	

Expanded Model and Color Nomenclature

M1 - PHB24CC2E1	P1239908C
M2 - PHB30CC2E1	P1239909C
M3 - PHB36CC2E1	P1239910C

Blower/Control Panel

Image 1

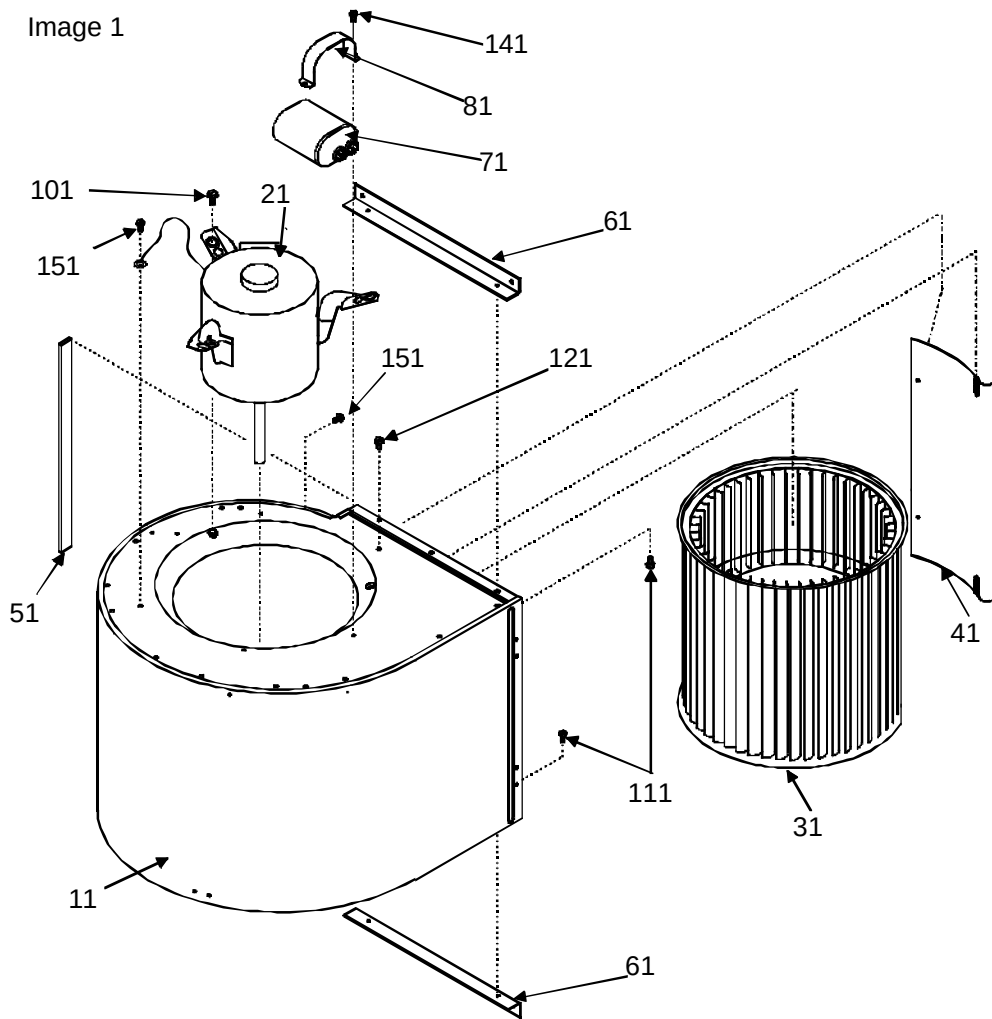
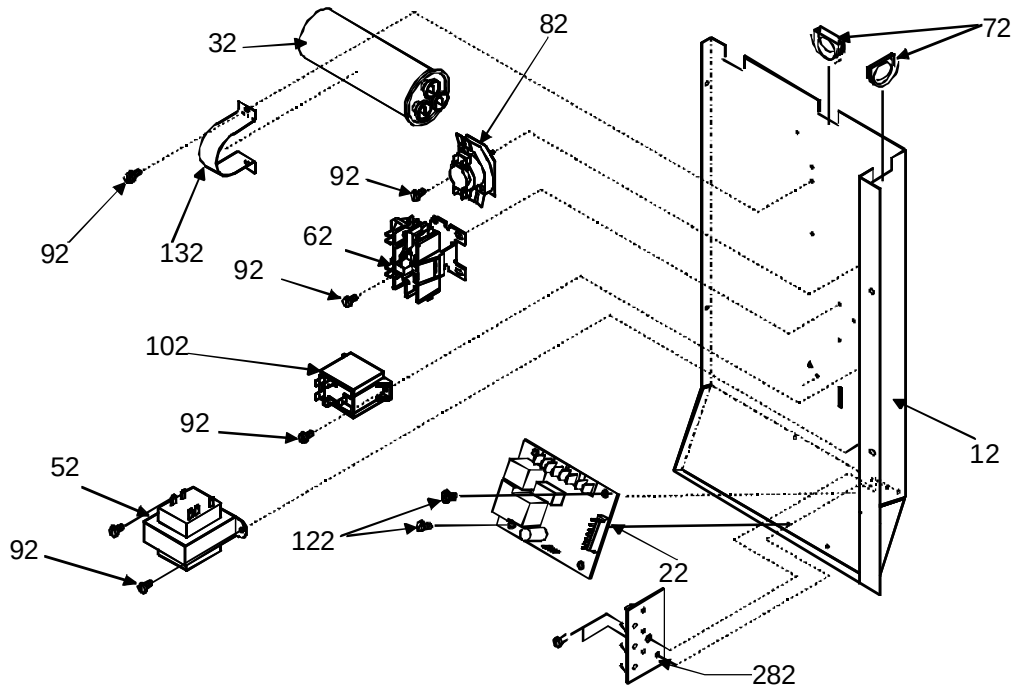


Image 2



Blower/Control Panel

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
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Image 1:

11	20162503	BLOWER HSG WELD
21	20013001	MOTOR-EVAP
31	D6723302	WHEEL-BLOWER
41	C6121810	CUTOFF
51	10839803	GASKET-.12X.50
61	20021101	RAIL-BLOWER (QTY 2)
71	D6879747	CAPACITOR
81	A4055402	STRAP-CAPACITOR
101	M0250558	SCREW-TC (QTY 3)
111	M0221817	SCREW-SM (QTY 4)
121	M0211020	SCREW-SM #8-7/8 (QTY 2)
141	M0233716	SCREW-SD (QTY 2)
151	M0211017	SCREW-SM #8-1/2LG (QTY 3)

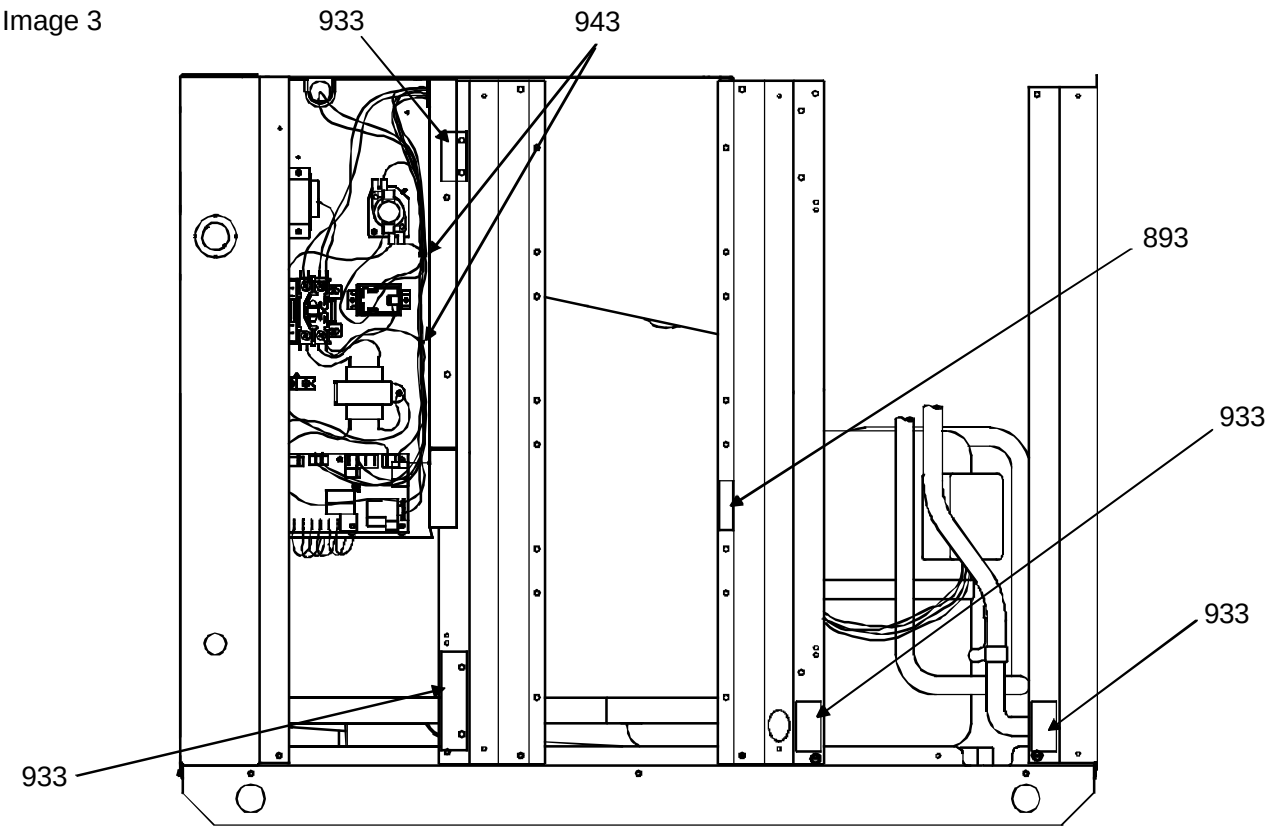
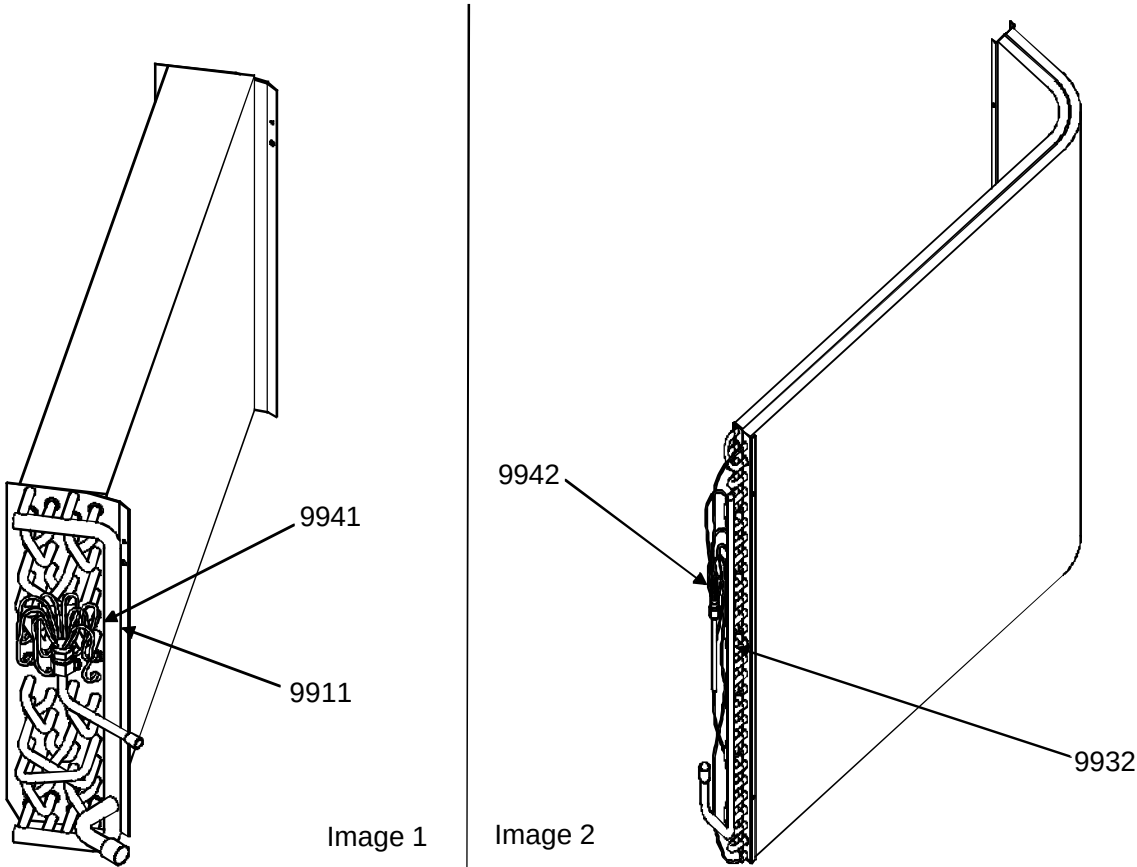
Image 2:

12	20014104	CONTROL BOX
22	B1226008	BOARD-DEFROST
32	D6789057	CAPACITOR-ROUND (M3)
32	D6789062	CAPACITOR-ROUND (M1, M2)
52	11120302	TRANSFORMER
62	C6170002	CONTACTOR-30A
72	A4554820	BUSHING-SNAP (QTY 2)
82	M0385305	SWITCH
92	M0211016	SCREW-SM #8-3/8LG (QTY 9)
102	10135601	RELAY
122	M0216519	SCREW-SM (QTY 2)
132	C6300502	STRAP-CAP CO PTC
282	20244002	BOARD-TERMINAL

Expanded Model and Color Nomenclature

M1 - PHB24CC2E1	P1239908C
M2 - PHB30CC2E1	P1239909C
M3 - PHB36CC2E1	P1239910C

Coils/Gasket



Coils/Gasket

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 1:</i>			
9911 20015601	MANIFOLD (M1, M2)		
9911 20338501	MANIFOLD-COND (M3)		
9941 20329005	DISTRIBUTOR (M3)		
9941 20329007	DISTRIBUTOR (M1)		
9941 20329008	DISTRIBUTOR (M2)		
<i>Image 2:</i>			
9932 20336101	MANIFOLD-EVAP (M2, M3)		
9932 20336102	MANIFOLD-EVAP (M1)		
9942 11067512	DISTRIBUTOR (M2, M3)		
9942 11067515	DISTRIBUTOR (M1)		
<i>Image 3:</i>			
893 10839807	GASKET-.37X.75		
933 10839811	GASKET-.12X1.0		
943 M0321204	TIE-ELEC SM (QTY 4)		

Expanded Model and Color Nomenclature

M1 - PHB24CC2E1	P1239908C
M2 - PHB30CC2E1	P1239909C
M3 - PHB36CC2E1	P1239910C