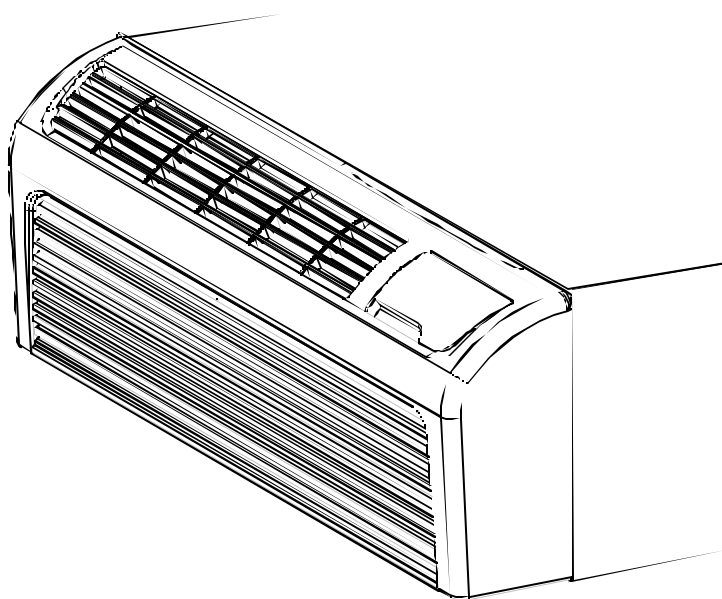


Service Parts

PTH*B*AH/K/L Package Terminal Heat Pumps

This manual replaces RP4220036.

This manual is to be used by qualified appliance technicians only.



Models and manufacturing
numbers in this manual

PTH073B15AK	P1255392R
PTH073B25AK	P1255377R
PTH073B35AH	P1255355R
PTH073B35AK	P1255368R
PTH073B35AL	P1255394R
PTH074B35AH	P1255356R
PTH093B25AK	P1255378R
PTH093B35AK	P1255369R
PTH093B50AK	P1255384R
PTH123B25AK	P1255379R
PTH123B35AK	P1255370R
PTH123B50AK	P1255385R
PTH153B25AK	P1255380R
PTH153B35AK	P1255372R
PTH153B50AK	P1255386R



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RP4220036
Revision 1
October 2004

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Important Information

Goodman Company, L.P. 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, Goodman Company, L.P. 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.
7401 Security Way
Houston, Texas 77040
877-254-4729-Telephone
713-863-2382-Facsimile

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

International Division
Goodman Company, L.P.
7401 Security Way
Houston, Texas 77040
713-861-2500-Telephone
713-863-2382-Facsimile

Index

Functional Parts List 4 - 5

Illustration and Parts 6 - 19

Views shown are for parts illustrations only, not servicing procedures.

Revision 1: Adds MFG # P1255368R, P1255369R, P1255370R, P1255372R, P1255377R, P1255378R, P1255379R, P1255380R, P1255384R, P1255385R, P1255386R, P1255392R, and P1255394R.

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 Nomenclature:

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

Functional Parts

Part

No:

Description:

D6789051	CAPACITOR (M5, M9, M12)
D6789049	CAPACITOR-POLY (M6, M10, M13)
D6789054	CAPACITOR-ROUND (M1, M3, M4, M7, M8, M11, M14, M15)
D6789063	CAPACITOR-ROUND (M2)
20284921	CAPILLARY TUBING ASSY (M5, M9, M12)
20284919	CAPILLARY TUBING ASSY (M1, M2, M3, M7, M14, M15)
20284920	CAPILLARY TUBING ASSY (M4, M8, M11)
20284922	CAPILLARY TUBING ASSY (M6, M10, M13)
D6985807	COMP-PN 2P17S3R236A (M5, M9, M12)
D6887711	COMP-PN 2R13S3R236A (M4, M8, M11)
D6926123	COMPRESSOR 2K21T236 (M6, M10, M13)
D6887715	COMPRESSOR-PN 2R9U236A6A (M1, M3, M7, M14, M15)
D6887716	COMPRESSOR-PN 2R9U276A6A (M2)
20456603BND	CONDENSING ASSY (M1, M2, M3, M4, M7, M8, M11, M14, M15)
20456604BND	CONDENSING ASSY (M5, M9, M12)
20456605BND	CONDENSING ASSY (M6, M10, M13)
20517101	CONT PANEL ASSY 230 (M1, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15)
20517102	CONT PANEL ASSY 265 (M2)
20457202	EVAPORATOR ASSY (M1, M2, M4, M8, M11, M15)
20456702	EVAPORATOR ASSY (M5, M6, M9, M10, M12, M13)
20473902	EVAPORATOR ASSY (M3, M7, M14)
20414601	FAN-PL. CONDENSER
A3410403	FUSE-20A (M2)
10685008	HARNESS-COIL (M5, M9, M12)
11116201	HTR 3 1.5KW ASSY (M14)
20517901	HTR 3 2.5KW ASSY (M7, M8, M9, M10)
20517902	HTR 3 3.5KW ASSY (M1, M3, M4, M5, M6, M15)
20517903	HTR 3 5.0KW ASSY (M11, M12, M13)
20517905	HTR 4 3.5KW ASSY (M2)
20515201	MEMBRANE-(CONTROL)
11114909	MOTOR-FAN (M5, M6, M9, M10, M11, M12, M13)
11114907	MOTOR-FAN (M1, M3, M4, M7, M8, M14, M15)
11114908	MOTOR-FAN (M2)
20515101	PC BOARD
20365801	REV VALVE ASSY (M1, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15)
20365802	REV VALVE ASSY (M2)
20477404	REV VLV WELD (M2)
20477403	REV VLV WELD (M1)
20477003	REV VLV WELD (M4, M8, M11)
20477403	REV VLV WELD (M3, M7, M14, M15)
20474403	REV VLV WELD (M6, M10, M13)
20477103	REV VLV WELD (M5, M9, M12)
20295708	THERMISTOR-DISCHARGE
20295706	THERMISTOR-INDOOR AMBIENT
20295707	THERMISTOR-INDOOR COIL
20295709	THERMISTOR-OUTDOOR COIL
20512501	TRANSFORMER
11044101	WHEEL-BLOWER
10618850	WIRE-JUMPER BK18 (M2)
20260805	WIRE-JUMPER BR34 (QTY 2)
10618849	WIRE-JUMPER GN1

Functional Parts

Part

No: Description:

SPECIAL PARTS

20517601	MANUAL-OWNERS (M1, M2)
20517603	MANUAL-OWNERS (M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15)
RP4220036	REPAIR PARTS MANUAL
RS4200003	SERVICE MANUAL
11046402	WARRANTY

Expanded Model Nomenclature

M1 - PTH073B35AH	P1255355R
M2 - PTH074B35AH	P1255356R
M3 - PTH073B35AK	P1255368R
M4 - PTH093B35AK	P1255369R
M5 - PTH123B35AK	P1255370R
M6 - PTH153B35AK	P1255372R
M7 - PTH073B25AK	P1255377R
M8 - PTH093B25AK	P1255378R
M9 - PTH123B25AK	P1255379R
M10 - PTH153B25AK	P1255380R
M11 - PTH093B50AK	P1255384R
M12 - PTH123B50AK	P1255385R
M13 - PTH153B50AK	P1255386R
M14 - PTH073B15AK	P1255392R
M15 - PTH073B35AL	P1255394R

Front/Chassis

Image 1

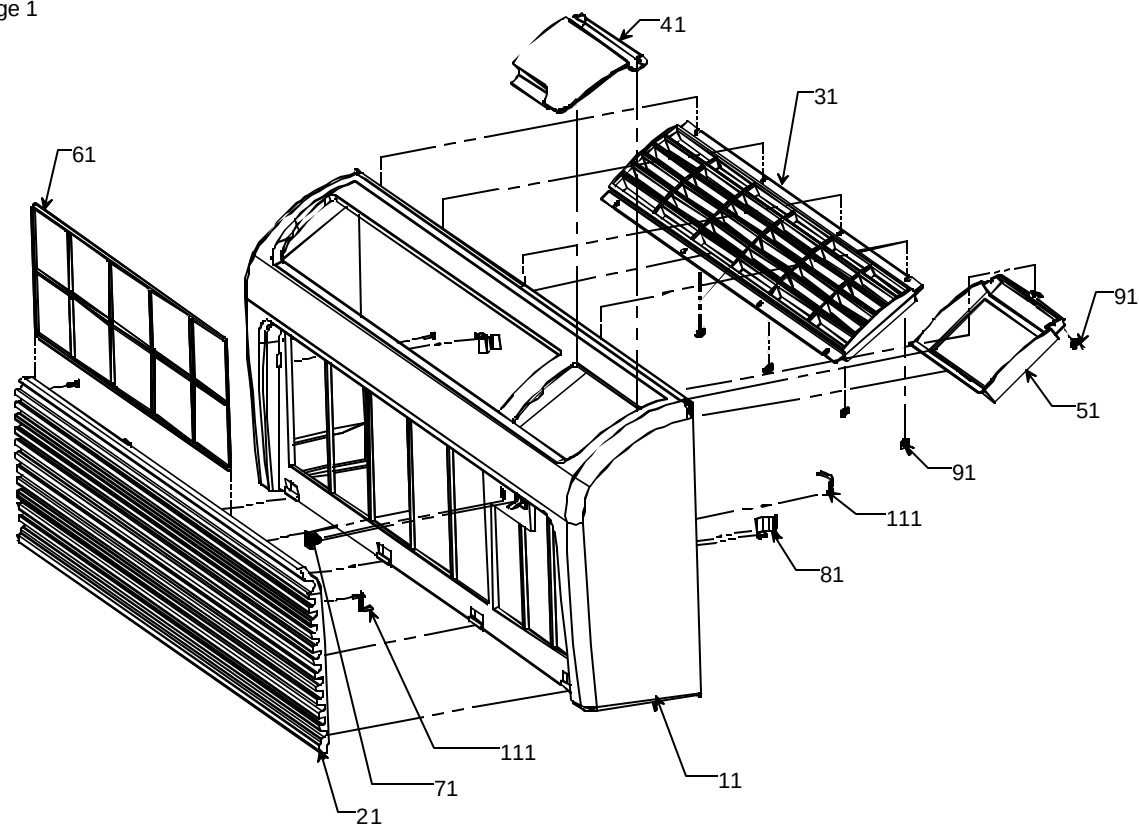
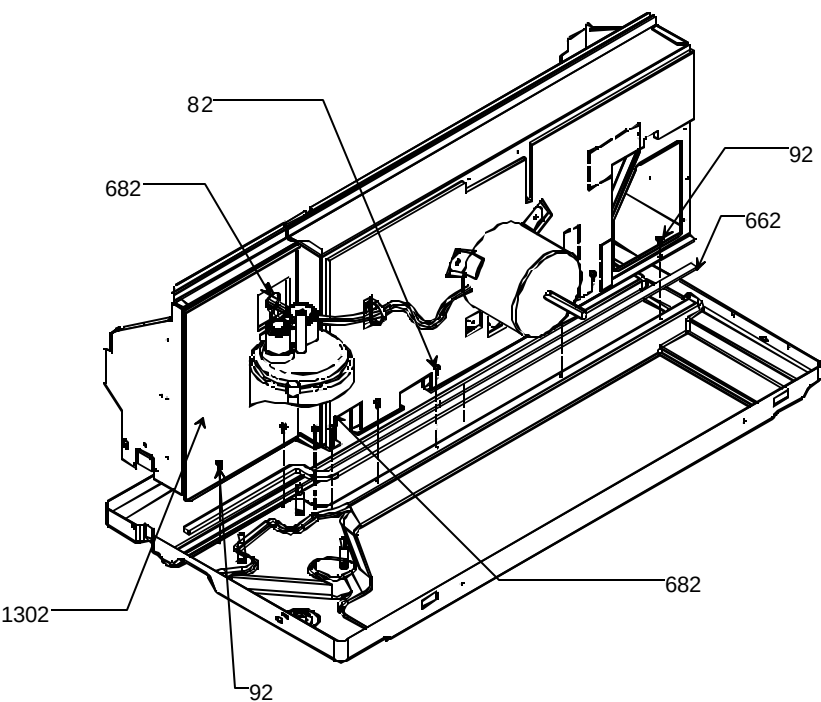


Image 2



Front/Chassis

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

11	20415203	FRONT
21	20415501	DOOR-CONTROL
21	20415402	GRILLE-INTAKE
31	20415301	GRILLE-EXHAUST
51	20415601	HOUSING,CONTROL
61	20415801	FILTER
71	10690002	DOOR CATCH ASSY
81	11045102	CLIP-SIDE (QTY 2)
91	M0293604	PALNUT (QTY 5)
111	20480501	RESTRAINT-INLET GRILL (QTY 2)

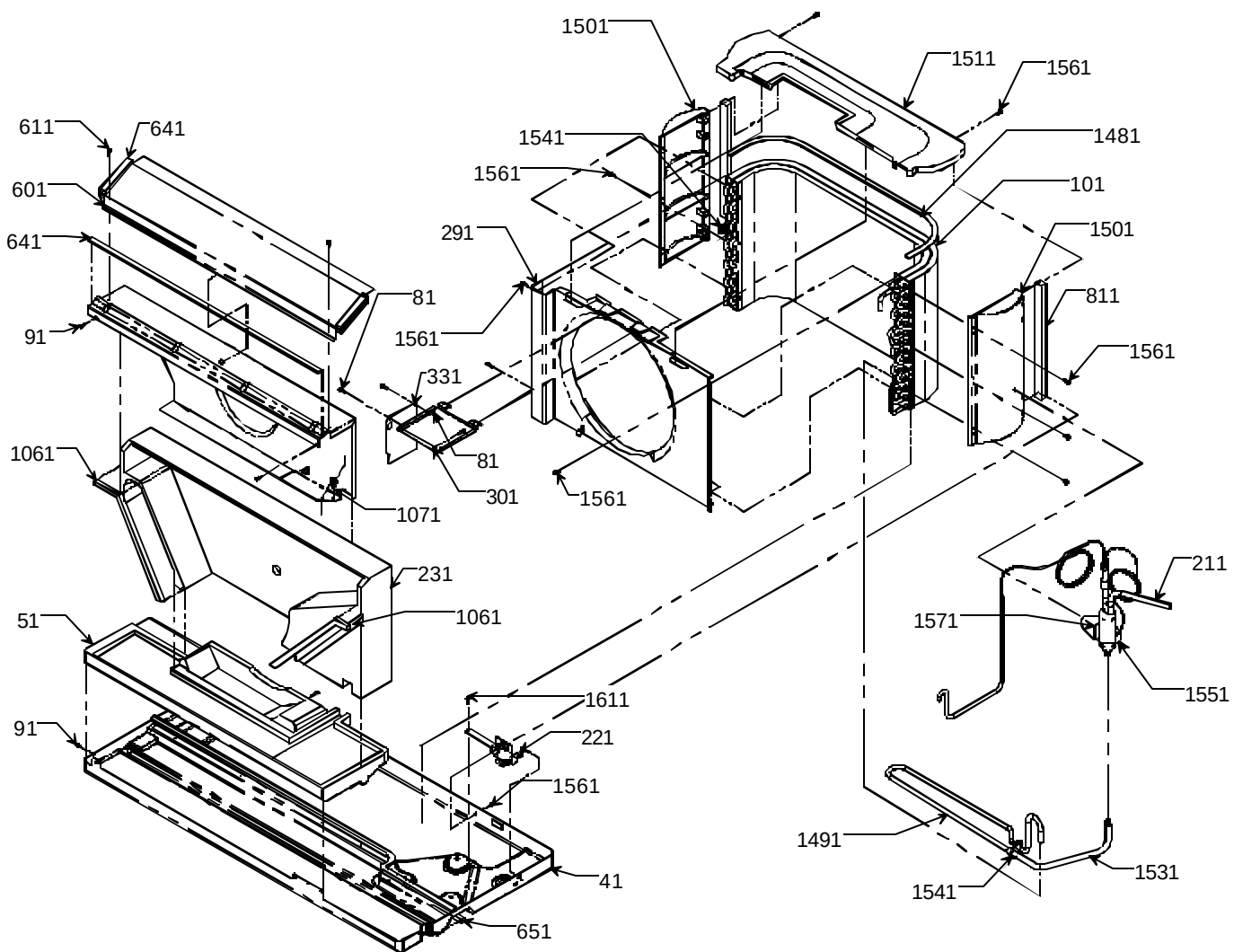
Image 2:

82	M0211216	SCREW-SM (M1, M2)
92	M0216716	SCREW-SM (M1, M2)
662	10839828	GASKET-.12X.50X43
682	M0275521	SEALER-PLASTIC (QTY 2)
1302	20417402	INSUL-PARTITION PNL

Expanded Model Nomenclature

M1 - PTH073B35AH	P1255355R
M2 - PTH074B35AH	P1255356R
M3 - PTH073B35AK	P1255368R
M4 - PTH093B35AK	P1255369R
M5 - PTH123B35AK	P1255370R
M6 - PTH153B35AK	P1255372R
M7 - PTH073B25AK	P1255377R
M8 - PTH093B25AK	P1255378R
M9 - PTH123B25AK	P1255379R
M10 - PTH153B25AK	P1255380R
M11 - PTH093B50AK	P1255384R
M12 - PTH123B50AK	P1255385R
M13 - PTH153B50AK	P1255386R
M14 - PTH073B15AK	P1255392R
M15 - PTH073B35AL	P1255394R

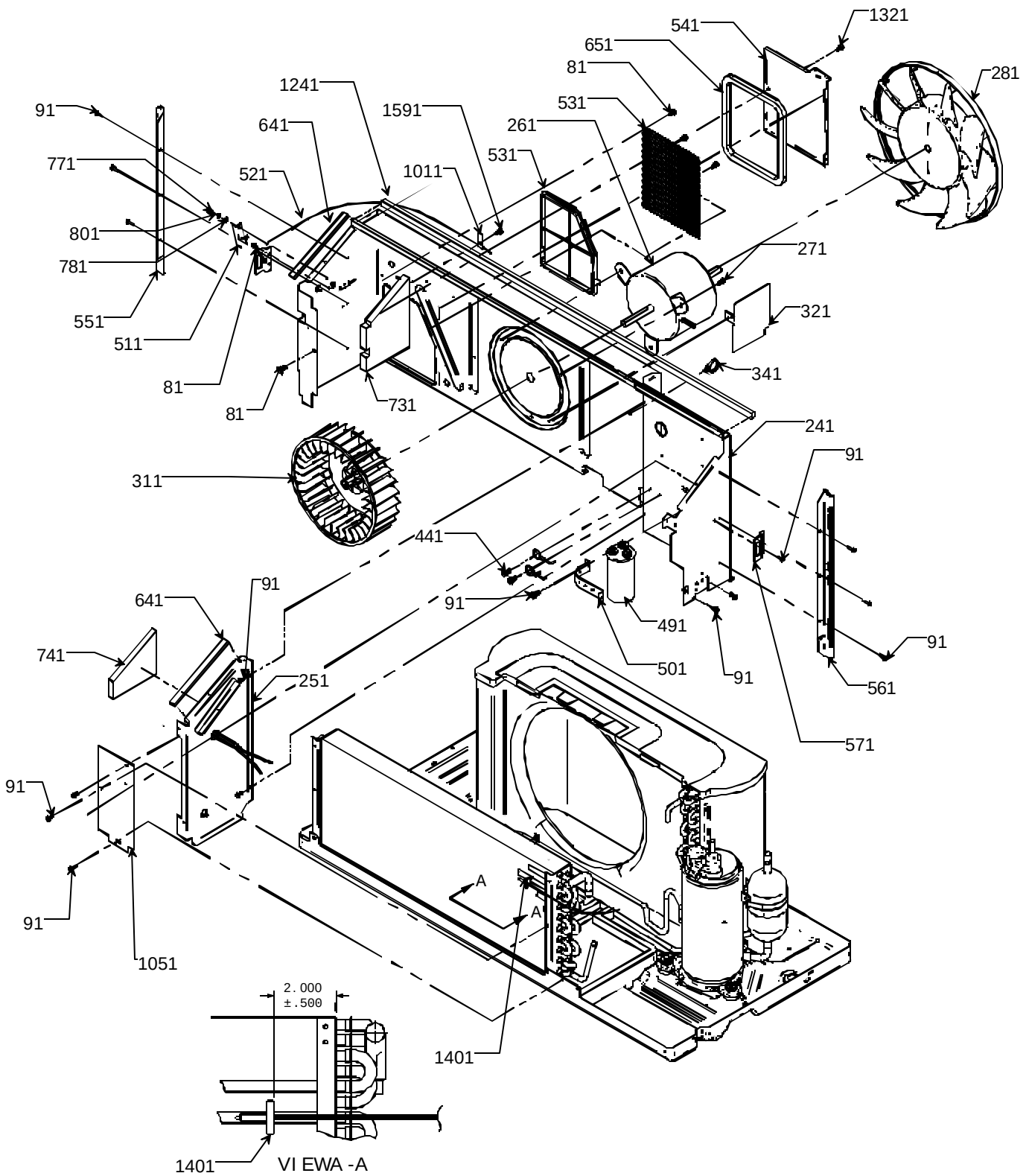
Chassis



Chassis

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 1:</i>		Expanded Model Nomenclature	
41	20403508	BASEPAN PNT	
51	20403802	PAD-EVAPORATOR	
81	M0211216	SCREW-SM (M1, M2)	
91	M0216716	SCREW-SM (M1, M2)	
101	20456603BND	CONDENSING ASSY (M1, M2, M3, M4, M7, M8, M11, M14, M15)	
101	20456604BND	CONDENSING ASSY (M5, M9, M12)	
101	20456605BND	CONDENSING ASSY (M6, M10, M13)	
211	20451502	TUBE WELD-CAP (M4, M8, M11)	
211	20474002	TUBE WELD-CAP (M6, M10, M13)	
211	20498102	TUBE WELD-CAP (M1, M2, M15)	
221	20406303	VALVE-BASEPAN	
231	20356702	SCROLL-BLOWER	
291	20401301	SHROUD-CONDENSER	
301	11044201	BRACE-TIE	
331	20417702	BAFFLE-TOP	
601	11123911	SCREEN-PNT DISCH	
611	M0204517	SCREW-SM STL ZINC (M1, M2)	
641	20455902	GASKET .50X.25 (QTY 5)	
651	10839808	GASKET-.37X.50 (M1, M2, M3, M4, M7, M8, M9, M10, M11, M12, M13, M14, M15)	
811	20455901	GASKET .62X.75 (QTY 2)	
1061	10839706	GASKET .50X.50 (QTY 2)	
1071	M0120801	CLIP-GUIDE	
1481	10839812	GASKET-.12X.50 (QTY 2)	
1491	20453901	TUBE-SUBCOOLER (M1, M2, M4, M5, M8, M9, M11, M12, M15)	
1491	20474302	TUBE-SUBCOOLER (M6, M10, M13)	
1501	20357001	SIDE COVER-CONDENSER (QTY 2)	
1511	20396701	TOP COVER-CONDENSER	
1531	20477802	TUBE-V-SLIT (M1, M2, M4, M5, M6, M8, M9, M10, M11, M12, M13, M15)	
1541	M0321202	TIE-ELEC LG (QTY AR)	
1551	M0322201	TIE-ELEC	
1561	M0211018	SCREW-SM #8-5/8LG (QTY 11)	
1571	10839827	GASKET-CUT	
1611	91000801	SCREW	
		M1 - PTH073B35AH	P1255355R
		M2 - PTH074B35AH	P1255356R
		M3 - PTH073B35AK	P1255368R
		M4 - PTH093B35AK	P1255369R
		M5 - PTH123B35AK	P1255370R
		M6 - PTH153B35AK	P1255372R
		M7 - PTH073B25AK	P1255377R
		M8 - PTH093B25AK	P1255378R
		M9 - PTH123B25AK	P1255379R
		M10 - PTH153B25AK	P1255380R
		M11 - PTH093B50AK	P1255384R
		M12 - PTH123B50AK	P1255385R
		M13 - PTH153B50AK	P1255386R
		M14 - PTH073B15AK	P1255392R
		M15 - PTH073B35AL	P1255394R

Chassis



Chassis

**Ref. Part
No: No:**

Description:

**Ref. Part
No: No:**

Description:

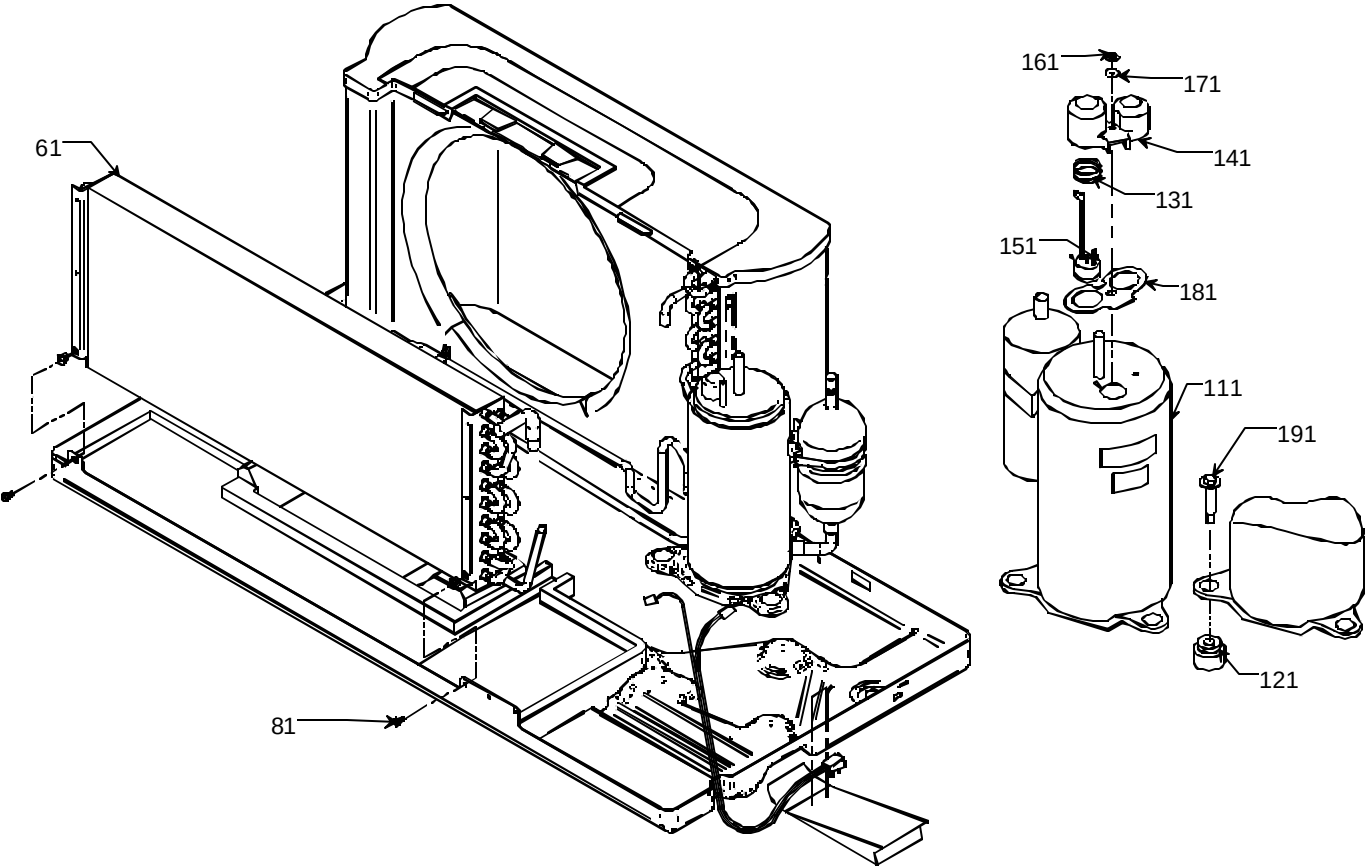
Image 1:

81	M0211216	SCREW-SM (M1, M2)
91	M0216716	SCREW-SM (M1, M2)
241	20403105	PANEL-PTN PNT
251	20403302	PANEL-MID PTN
261	11114907	MOTOR-FAN (M1, M3, M4, M7, M8, M14, M15)
261	11114908	MOTOR-FAN (M2)
261	11114909	MOTOR-FAN (M5, M6, M9, M10, M11, M12, M13)
271	M0224956	SCREW-TAP (QTY 3)
281	20414601	FAN-PL. CONDENSER
311	11044101	WHEEL-BLOWER
321	20480902	BAFFLE-COND INLT PT
341	M0118702	CLIP-GUIDE
441	M0227803	SCREW-TC (QTY 2)
491	D6789051	CAPACITOR (M5, M9, M12)
491	D6789049	CAPACITOR-POLY (M6, M10, M13)
491	D6789054	CAPACITOR-ROUND (M1, M3, M4, M7, M8, M11, M14, M15)
491	D6789063	CAPACITOR-ROUND (M2)
501	C6300502	STRAP-CAPACITOR
511	11046302	LEVER ARM
521	11115401	CABLE
531	20304003	SHIELD-PROTECTION
541	11046105	DOOR-VENT
551	20416201	SEAL-L SIDE
561	20416101	SEAL-R SIDE
571	11191703	BRKT-PART PAN (QTY 2)
641	20455902	GASKET .50X.25 (QTY 5)
651	10839808	GASKET-.37X.50 (QTY 5)
661	10839828	GASKET-.12X.50X43
731	11122901	INSUL-LEFT
741	11123001	INSUL-RIGHT (M1, M2)
771	M0220757	SCREW-SHLDR
781	M0273701	WASHER-SPRING
801	M0270529	WASHER-FLAT
1011	M0108103	CLAMP-TUBE
1051	20410801	COVER-ACCESS
1241	10839807	GASKET-.37X.75 (QTY 3)
1321	M0238833	SCREW-SHLDR
1401	20295706	THERMISTOR-INDOOR AMBIENT
1591	M0211016	SCREW-SM #8-3/8LG (QTY AR)
NS	20295707	THERMISTOR-INDOOR COIL
NS	20295709	THERMISTOR-OUTDOOR COIL

Expanded Model Nomenclature

M1 - PTH073B35AH	P1255355R
M2 - PTH074B35AH	P1255356R
M3 - PTH073B35AK	P1255368R
M4 - PTH093B35AK	P1255369R
M5 - PTH123B35AK	P1255370R
M6 - PTH153B35AK	P1255372R
M7 - PTH073B25AK	P1255377R
M8 - PTH093B25AK	P1255378R
M9 - PTH123B25AK	P1255379R
M10 - PTH153B25AK	P1255380R
M11 - PTH093B50AK	P1255384R
M12 - PTH123B50AK	P1255385R
M13 - PTH153B50AK	P1255386R
M14 - PTH073B15AK	P1255392R
M15 - PTH073B35AL	P1255394R

Compressor/Tubing



Compressor/Tubing

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

61	20456702	EVAPORATOR ASSY (M5, M6, M9, M10, M12, M13)
61	20457202	EVAPORATOR ASSY (M1, M2, M4, M8, M11, M15)
61	20473902	EVAPORATOR ASSY (M3, M7, M14)
81	M0211216	SCREW-SM (M1, M2)
111	D6985807	COMP-PN 2P17S3R236A (M5, M9, M12)
111	D6887711	COMP-PN 2R13S3R236A (M4, M8, M11)
111	D6926123	COMPRESSOR 2K21T236 (M6, M10, M13)
111	D6887715	COMPRESSOR-PN 2R9U236A6A (M1, M3, M7, M14, M15)
111	D6887716	COMPRESSOR-PN 2R9U276A6A (M2)
121	A3448602	GROMMET (M5, M6, M9, M10, M12, M13)
121	A4622801	GROMMET (M1, M2, M3, M4, M7, M8, M11, M14, M15)
131	A3436901	SPRING-OVERLOAD (M1, M2, M3, M4, M5, M7, M8, M9, M11, M12, M14, M15)
141	10329001	COVER-TERM
151	D6961612	OVERLOAD (M5, M9, M12)
151	D6961636	OVERLOAD (M1, M3, M7, M14, M15)
151	D6961637	OVERLOAD (M2)
151	D6961639	OVERLOAD (M4, M8, M11)
161	A3436601	NUT-TERM COVER
171	A3436801	GASKET-NUT
181	A3436701	GASKET-TERM COVER
191	M0253661	SCREW-SHLDR (M1, M2, M5, M6, M9, M10, M12, M13)

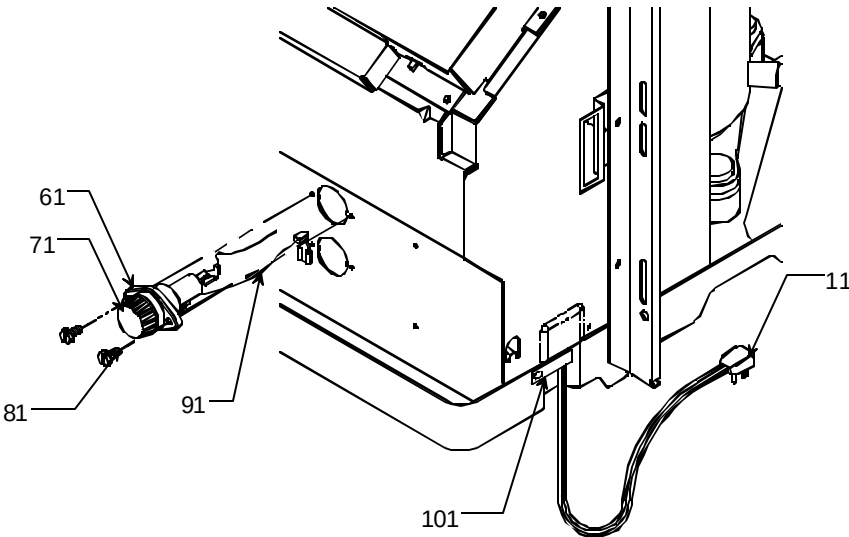
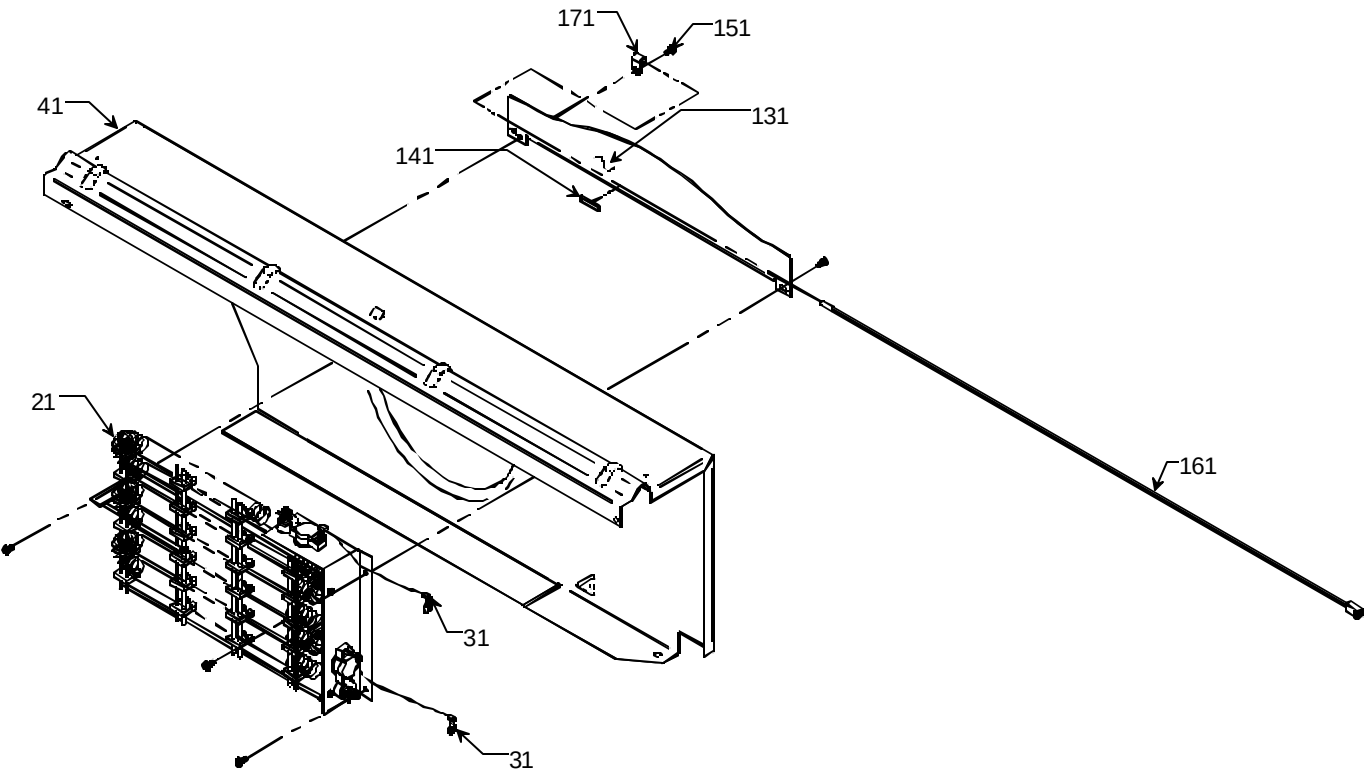
Image 3:

743	20284919	CAPILLARY TUBING ASSY (M1, M2, M3, M7, M14, M15)
743	20284920	CAPILLARY TUBING ASSY (M4, M8, M11)
743	20284921	CAPILLARY TUBING ASSY (M5, M9, M12)
743	20284922	CAPILLARY TUBING ASSY (M6, M10, M13)

Expanded Model Nomenclature

M1 - PTH073B35AH	P1255355R
M2 - PTH074B35AH	P1255356R
M3 - PTH073B35AK	P1255368R
M4 - PTH093B35AK	P1255369R
M5 - PTH123B35AK	P1255370R
M6 - PTH153B35AK	P1255372R
M7 - PTH073B25AK	P1255377R
M8 - PTH093B25AK	P1255378R
M9 - PTH123B25AK	P1255379R
M10 - PTH153B25AK	P1255380R
M11 - PTH093B50AK	P1255384R
M12 - PTH123B50AK	P1255385R
M13 - PTH153B50AK	P1255386R
M14 - PTH073B15AK	P1255392R
M15 - PTH073B35AL	P1255394R

Heater Assy / Cord / Fuse



Heater Assy / Cord / Fuse

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

11	22309901	CORD-230V 15AMP (M7, M8, M9, M10, M14)
11	22309902	CORD-230V 20AMP (M1, M3, M4, M5, M6, M15)
11	22309903	CORD-230V 30AMP (M11, M12, M13)
11	11114701	CORD-277V-20A (M2)
21	11116201	HTR 3 1.5KW ASSY (M14)
21	20517901	HTR 3 2.5KW ASSY (M7, M8, M9, M10)
21	20517902	HTR 3 3.5KW ASSY (M1, M3, M4, M5, M6, M15)
21	20517903	HTR 3 5.0KW ASSY (M11, M12, M13)
21	20517905	HTR 4 3.5KW ASSY (M2)
31	20260805	WIRE-JUMPER BR34 (QTY 2)
41	20364804	INTAKE-BLOWER
51	M0216716	SCREW-SM (M1, M2)
61	C6476002	HOLDER-BAYONET FUSE (M2)
71	A3410403	FUSE-20A (M2)
81	M0213817	SCREW-SM (M2)
91	10618850	WIRE-JUMPER BK18 (M2)
101	M0103906	CLAMP-SPEED (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M15)
131	20515304	BLOWER-INT PNT
141	10839722	GASKET .25X.06
151	M0216529	SCREW-SM
161	20295708	THERMISTOR-DISCHARGE
171	BT1392310	PLASTIC CLAMP, .187

Expanded Model Nomenclature

M1 - PTH073B35AH	P1255355R
M2 - PTH074B35AH	P1255356R
M3 - PTH073B35AK	P1255368R
M4 - PTH093B35AK	P1255369R
M5 - PTH123B35AK	P1255370R
M6 - PTH153B35AK	P1255372R
M7 - PTH073B25AK	P1255377R
M8 - PTH093B25AK	P1255378R
M9 - PTH123B25AK	P1255379R
M10 - PTH153B25AK	P1255380R
M11 - PTH093B50AK	P1255384R
M12 - PTH123B50AK	P1255385R
M13 - PTH153B50AK	P1255386R
M14 - PTH073B15AK	P1255392R
M15 - PTH073B35AL	P1255394R

Control Panel

Image 1

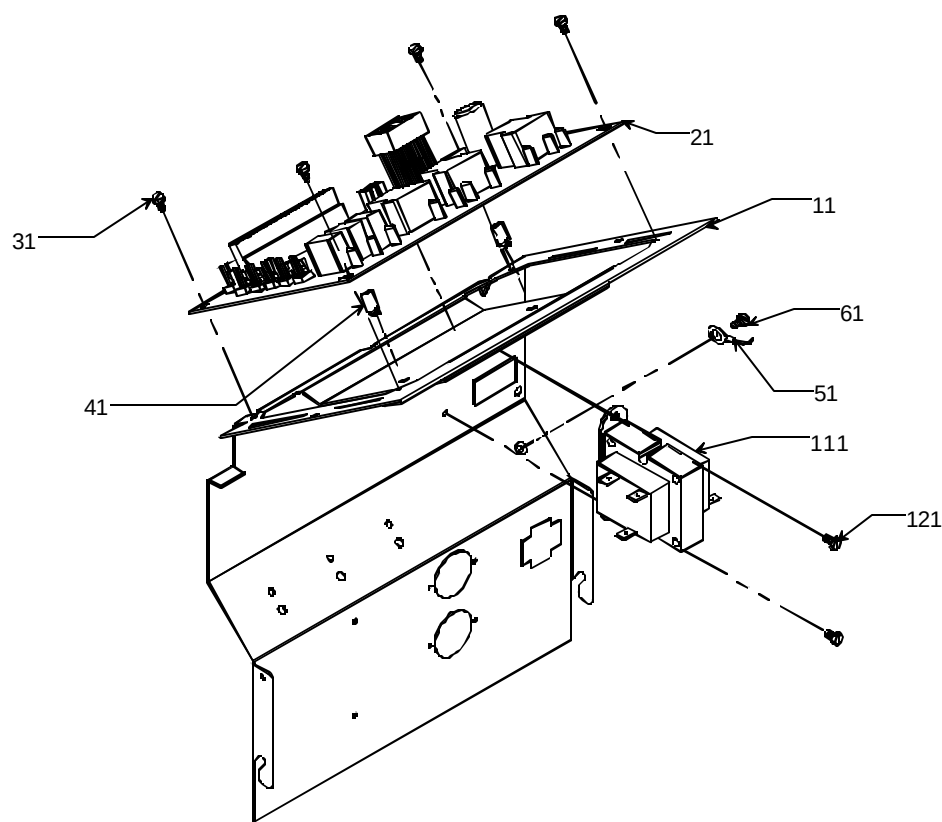
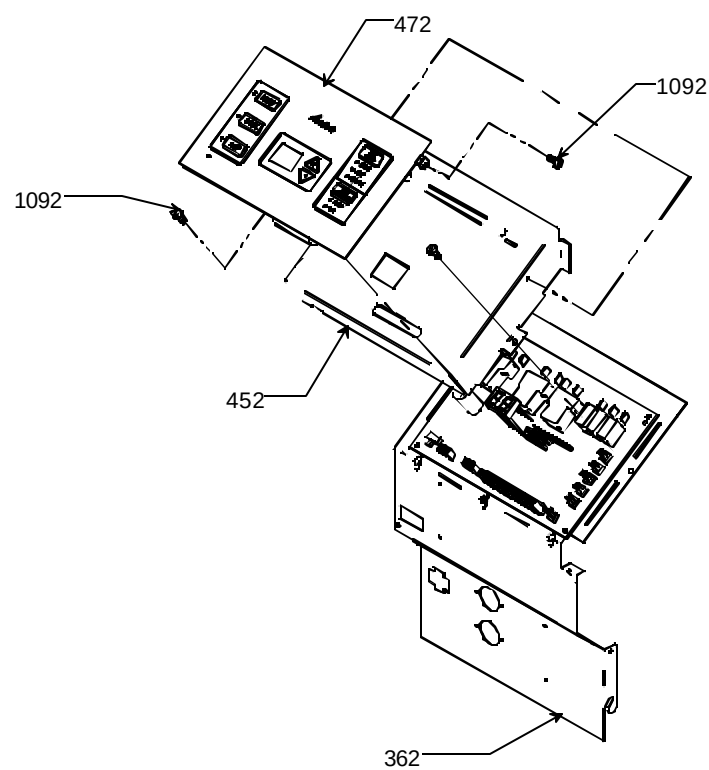


Image 2



Control Panel

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

11	11044505	PANEL-CONTROL
21	20515101	PC BOARD
31	M0216529	SCREW-SM (QTY 4)
41	M0590702	SUPPORT (QTY 2)
51	10618849	WIRE-JUMPER GN1
61	M0227803	SCREW-TC
111	20512501	TRANSFORMER
121	M0216716	SCREW-SM (QTY 2)

Image 2:

362	20517101	CONT PANEL ASSY 230 (M1, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15)
362	20517102	CONT PANEL ASSY 265 (M2)
452	20514901	COVER-CONT PNL
472	20515201	MEMBRANE-(CONTROL)
1092	M0216529	SCREW-SM (QTY AR)

Expanded Model Nomenclature

M1 - PTH073B35AH	P1255355R
M2 - PTH074B35AH	P1255356R
M3 - PTH073B35AK	P1255368R
M4 - PTH093B35AK	P1255369R
M5 - PTH123B35AK	P1255370R
M6 - PTH153B35AK	P1255372R
M7 - PTH073B25AK	P1255377R
M8 - PTH093B25AK	P1255378R
M9 - PTH123B25AK	P1255379R
M10 - PTH153B25AK	P1255380R
M11 - PTH093B50AK	P1255384R
M12 - PTH123B50AK	P1255385R
M13 - PTH153B50AK	P1255386R
M14 - PTH073B15AK	P1255392R
M15 - PTH073B35AL	P1255394R

Capillary Assy / Reversing Valves

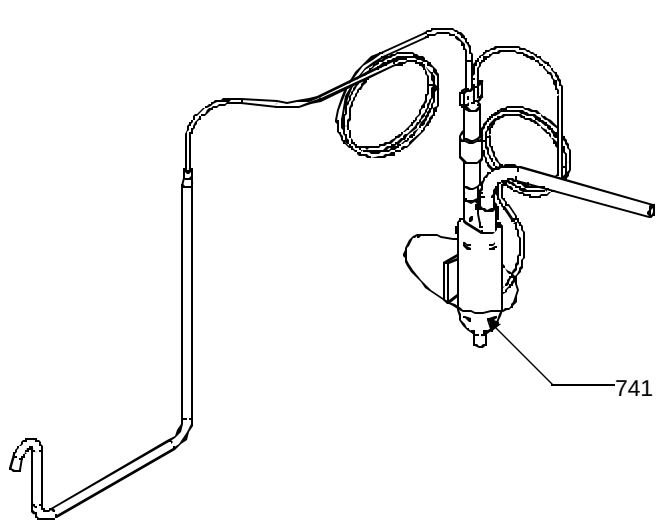


Image 1

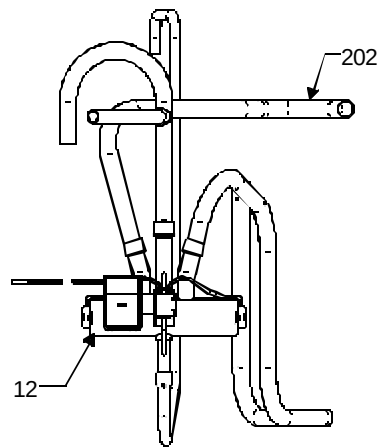


Image 2

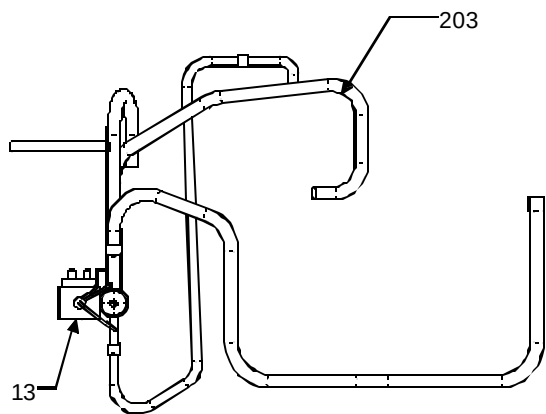


Image 3

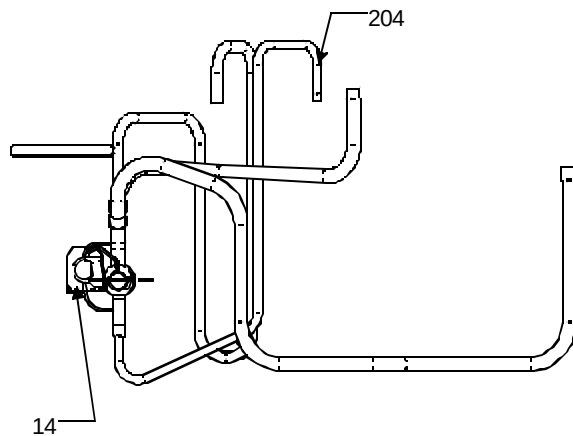
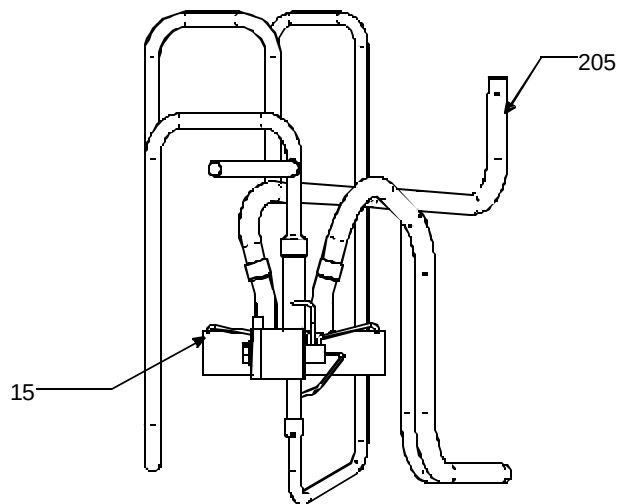


Image 4

Image 5



Capillary Assy / Reversing Valves

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 2:</i>			
12 20365801	REV VALVE ASSY (M5, M9, M12)		
202 20477103	REV VLV WELD (M5, M9, M12)		
<i>Image 3:</i>			
13 20365801	REV VALVE ASSY (M6, M10, M13)		
203 20474403	REV VLV WELD (M6, M10, M13)		
<i>Image 4:</i>			
14 20365801	REV VALVE ASSY (M4, M8, M11)		
204 20477003	REV VLV WELD (M4, M8, M11)		
<i>Image 5:</i>			
15 20365801	REV VALVE ASSY (M1, M3, M7, M14, M15)		
15 20365802	REV VALVE ASSY (M2)		
205 20477403	REV VLV WELD (M1)		
205 20477403	REV VLV WELD (M3, M7, M14, M15)		
205 20477404	REV VLV WELD (M2)		

Expanded Model Nomenclature

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M5 - PTH123B35AK	P1255370R
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M9 - PTH123B25AK	P1255379R
M10 - PTH153B25AK	P1255380R
M11 - PTH093B50AK	P1255384R
M12 - PTH123B50AK	P1255385R
M13 - PTH153B50AK	P1255386R
M14 - PTH073B15AK	P1255392R
M15 - PTH073B35AL	P1255394R