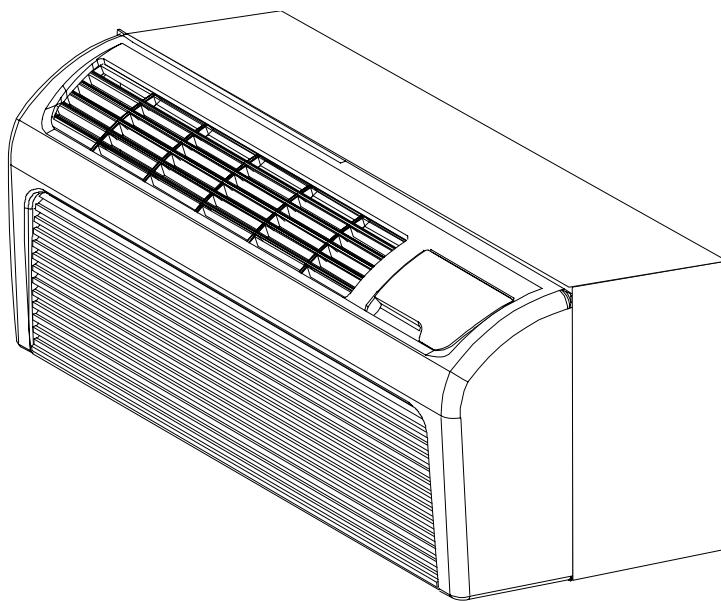


Service Parts

PTH*B* Series Package Terminal Heat Pumps

This replaces RP4220030 Rev. 1.

This manual is to be used by qualified appliance technicians only



Models and manufacturing numbers in this manual

PTH073B15AJ	P1259932R
PTH073B25AF	P1248861R
PTH073B25AJ	P1259911R
PTH073B25TJ	P1259928R
PTH073B35AF	P1248855R
PTH073B35AJ	P1259904R
PTH074B35AF	P1248856R
PTH093B25AJ	P1259918R
PTH093B35AJ	P1259905R
PTH093B50AJ	P1259919R
PTH123B25AJ	P1259922R
PTH123B35AJ	P1259906R
PTH123B50AJ	P1259923R
PTH153B25AJ	P1259926R
PTH153B35AJ	P1259908R
PTH153B50AJ	P1259927R



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RP4220030
Revision 2
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

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Illustration and Parts 6 - 19

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

Revision 1: Adds P1248861R (Model: PTH073B25AF)
Revision 2: Adds MFG #s P1259904R, P1259905R, P1259906R, P1259908R, P1259911R, P1259918R, P1259919R, P1259922R, P1259923R, P1259926R, P1259927R, P1259928R, P1259932R.

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

Part No:	Description:
D6789063	CAPACITOR ROUND (M2)
D6789054	CAPACITOR ROUND (M1, M3, M4, M5, M8, M9, M10, M15, M16)
C6300502	CAPACITOR STRAP
D6789049	CAPACITOR-POLY (M7, M13, M14)
20284924	CAPILLARY TUBE ASSY (M3)
20284919	CAPILLARY TUBE ASSY (M1, M2)
D6985807	COMP-PN 2P17S3R236A (M6, M11, M12)
D6887711	COMP-PN 2R13S3R236A (M5, M9, M10)
D6887715	COMP-PN 2R9U236A6A (M1, M3, M4, M8, M15, M16)
D6887716	COMP-PN 2R9U276A6A (M2)
D6926123	COMPRESSOR 2K21T236 (M7, M13, M14)
20456605BND	CONDENSING ASSY (M7, M13, M14)
20456604BND	CONDENSING ASSY (M6, M11, M12)
20456603BND	CONDENSING ASSY (M1, M2, M3, M4, M5, M8, M9, M10, M15, M16)
20284919	DRYER-FILTER (M1, M2, M3, M4, M8, M15, M16)
20284922	DRYER-FILTER (M7, M13, M14)
20284920	DRYER-FILTER (M5, M9, M10)
20284921	DRYER-FILTER (M6, M11, M12)
20457202	EVAPORATOR ASSY (M1, M2, M3, M5, M9, M10)
20473902	EVAPORATOR ASSY (M4, M8, M15, M16)
20456702	EVAPORATOR ASSY (M6, M7, M11, M12, M13, M14)
20414601	FAN
A3410403	FUSE 20A (M2)
20460613	HEATER (M1)
20460612	HEATER (M3)
20460608	HEATER (M2)
20295701	INDOOR AMBIENT THERMISTOR (M1, M2, M3)
11114909	MOTOR, FAN (M6, M7, M10, M11, M12, M13, M14)
11114908	MOTOR, FAN (M2)
11114907	MOTOR, FAN (M1, M3, M4, M5, M8, M9, M15, M16)
20295502	PC BOARD (M1, M2)
20475302	PC BOARD (M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
20477401	REV VLV WELD (M1)
20477403	REV VLV WELD (M3, M4, M8, M15, M16)
20477402	REV VLV WELD (M2)
20356702	SCROLL-BLOWER (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
20356701	SCROLL-BLOWER (M1)
11044101	WHEEL, BLOWER

Functional Parts

Part

No: Description:

SPECIAL PARTS

RP4220030	MANUAL PARTS
11113309	MANUAL-OWNERS (M3)
11113311	MANUAL-OWNERS (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
11113307	MANUAL-OWNERS (M1, M2)
RS4200003	SERVICE MANUAL
11046401	WARRANTY (M1, M2, M3)

Expanded Model Nomenclature

M1 - PTH073B35AF	P1248855R
M2 - PTH074B35AF	P1248856R
M3 - PTH073B25AF	P1248861R
M4 - PTH073B35AJ	P1259904R
M5 - PTH093B35AJ	P1259905R
M6 - PTH123B35AJ	P1259906R
M7 - PTH153B35AJ	P1259908R
M8 - PTH073B25AJ	P1259911R
M9 - PTH093B25AJ	P1259918R
M10 - PTH093B50AJ	P1259919R
M11 - PTH123B25AJ	P1259922R
M12 - PTH123B50AJ	P1259923R
M13 - PTH153B25AJ	P1259926R
M14 - PTH153B50AJ	P1259927R
M15 - PTH073B25TJ	P1259928R
M16 - PTH073B15AJ	P1259932R

Front/Chassis

Image 1

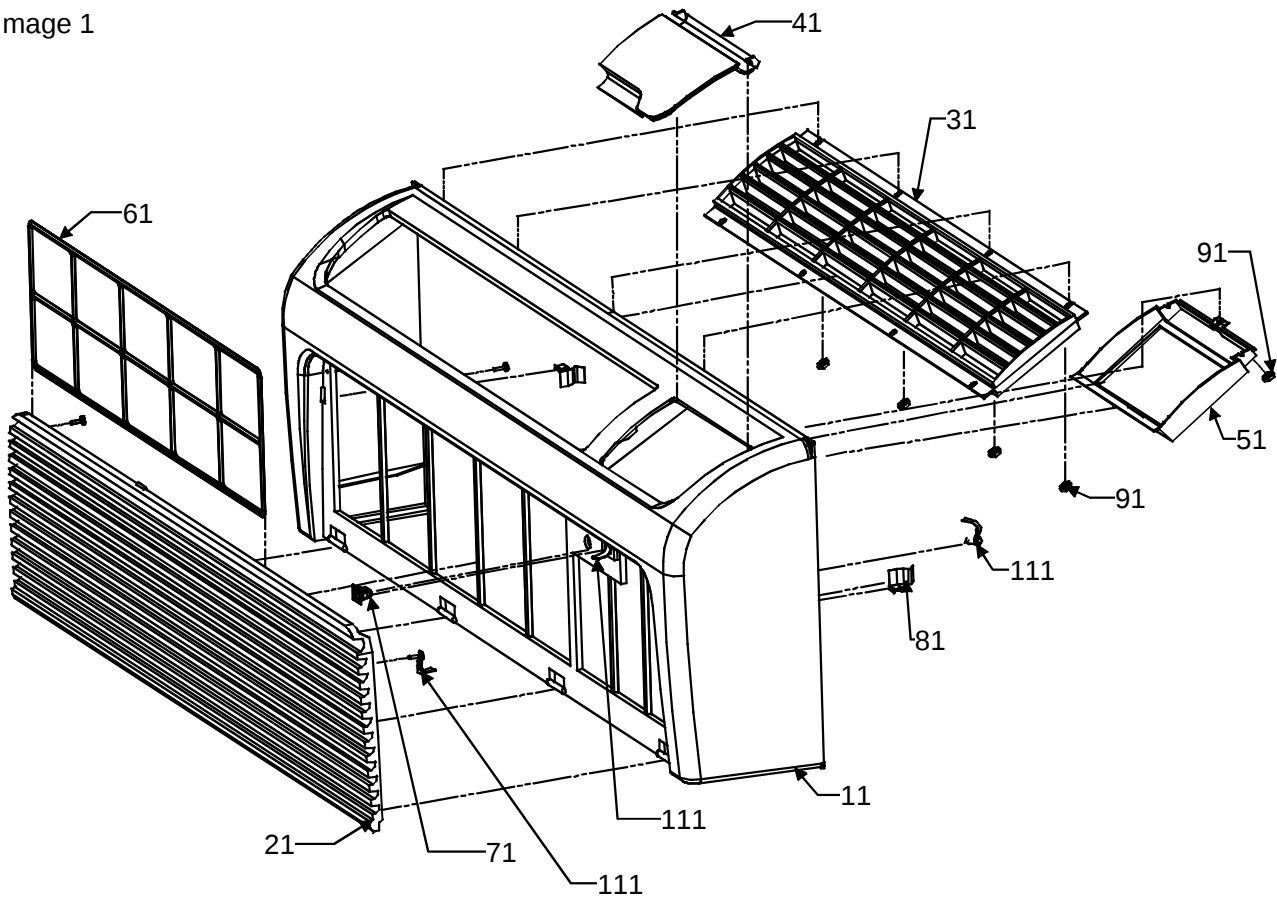
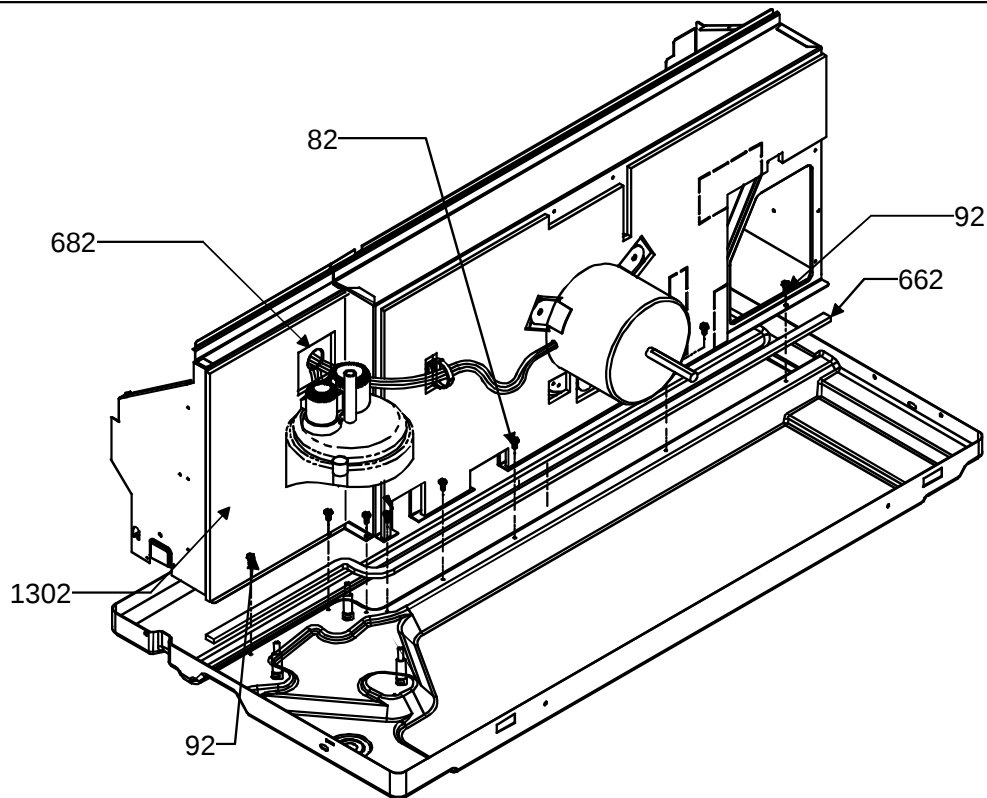


Image 2



Front/Chassis

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

11	20415201	FRONT (M1, M2, M3)
11	20415203	FRONT (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
21	20415402	GRILLE-INTAKE
31	20415301	GRILLE-EXHAUST
41	20415501	CONTROL PANEL DOOR (M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
41	20415901	CONTROL PANEL DOOR (M1, M2)
51	20415601	HOUSING-CONTROL
61	20415801	FILTER
71	10690002	ASSY, DOOR CATCH
81	11045102	CLIP-SIDE (QTY 2)
91	M0293604	PALNUT (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
91	M0216716	SCREW (QTY AR)
111	20480501	RESTRAINT-INLET GRILI (QTY 2)

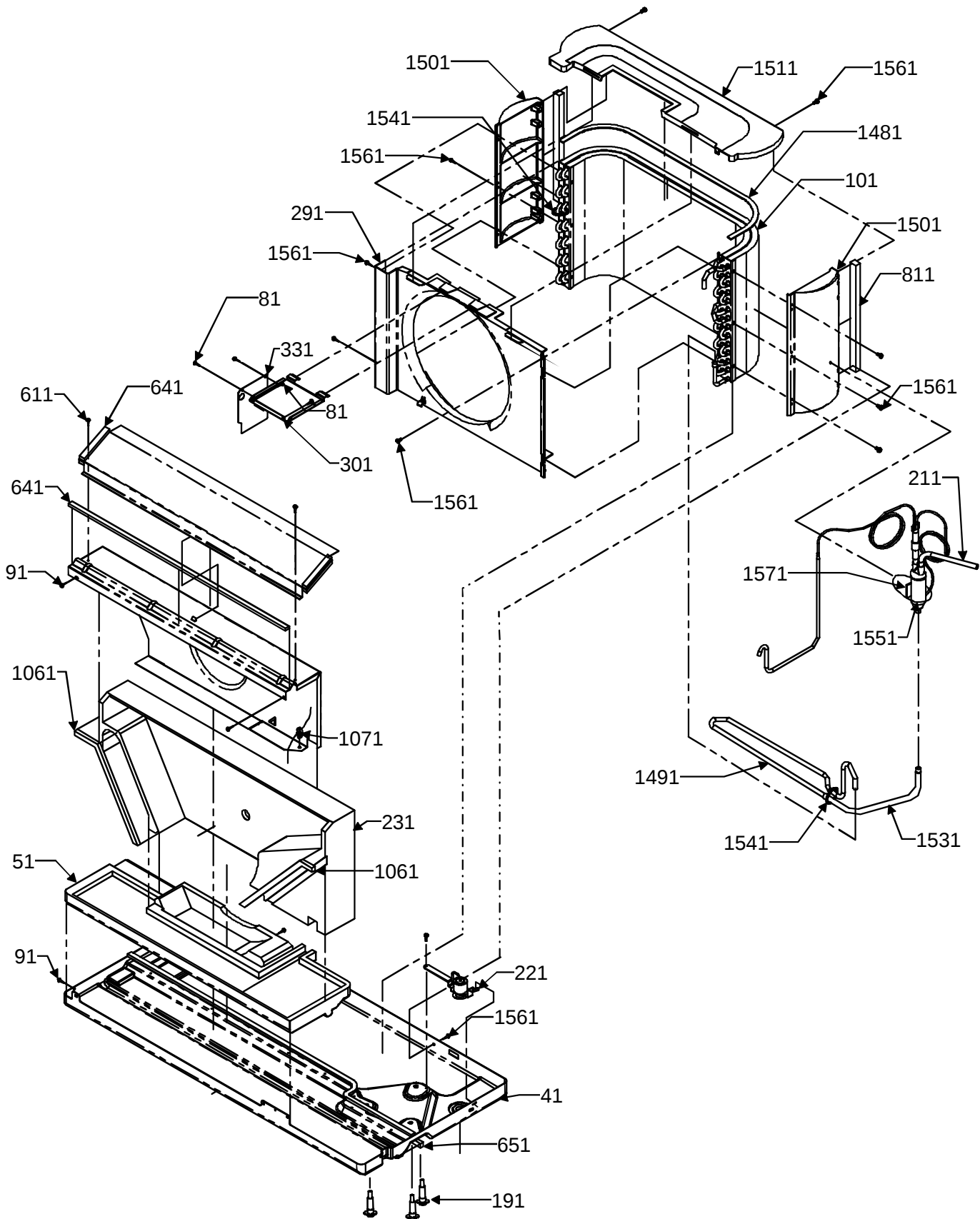
Image 2:

82	M0211216	SCREW (QTY AR)
92	M0216716	SCREW (QTY AR)
662	10839828	GASKET-.12X.50X43
682	M0275521	SEALER (QTY 2)
1302	20417402	INSULAT.

Expanded Model Nomenclature

M1 - PTH073B35AF	P1248855R
M2 - PTH074B35AF	P1248856R
M3 - PTH073B25AF	P1248861R
M4 - PTH073B35AJ	P1259904R
M5 - PTH093B35AJ	P1259905R
M6 - PTH123B35AJ	P1259906R
M7 - PTH153B35AJ	P1259908R
M8 - PTH073B25AJ	P1259911R
M9 - PTH093B25AJ	P1259918R
M10 - PTH093B50AJ	P1259919R
M11 - PTH123B25AJ	P1259922R
M12 - PTH123B50AJ	P1259923R
M13 - PTH153B25AJ	P1259926R
M14 - PTH153B50AJ	P1259927R
M15 - PTH073B25TJ	P1259928R
M16 - PTH073B15AJ	P1259932R

Chassis



Chassis

**Ref. Part
No: No:**

Description:

**Ref. Part
No: No:**

Description:

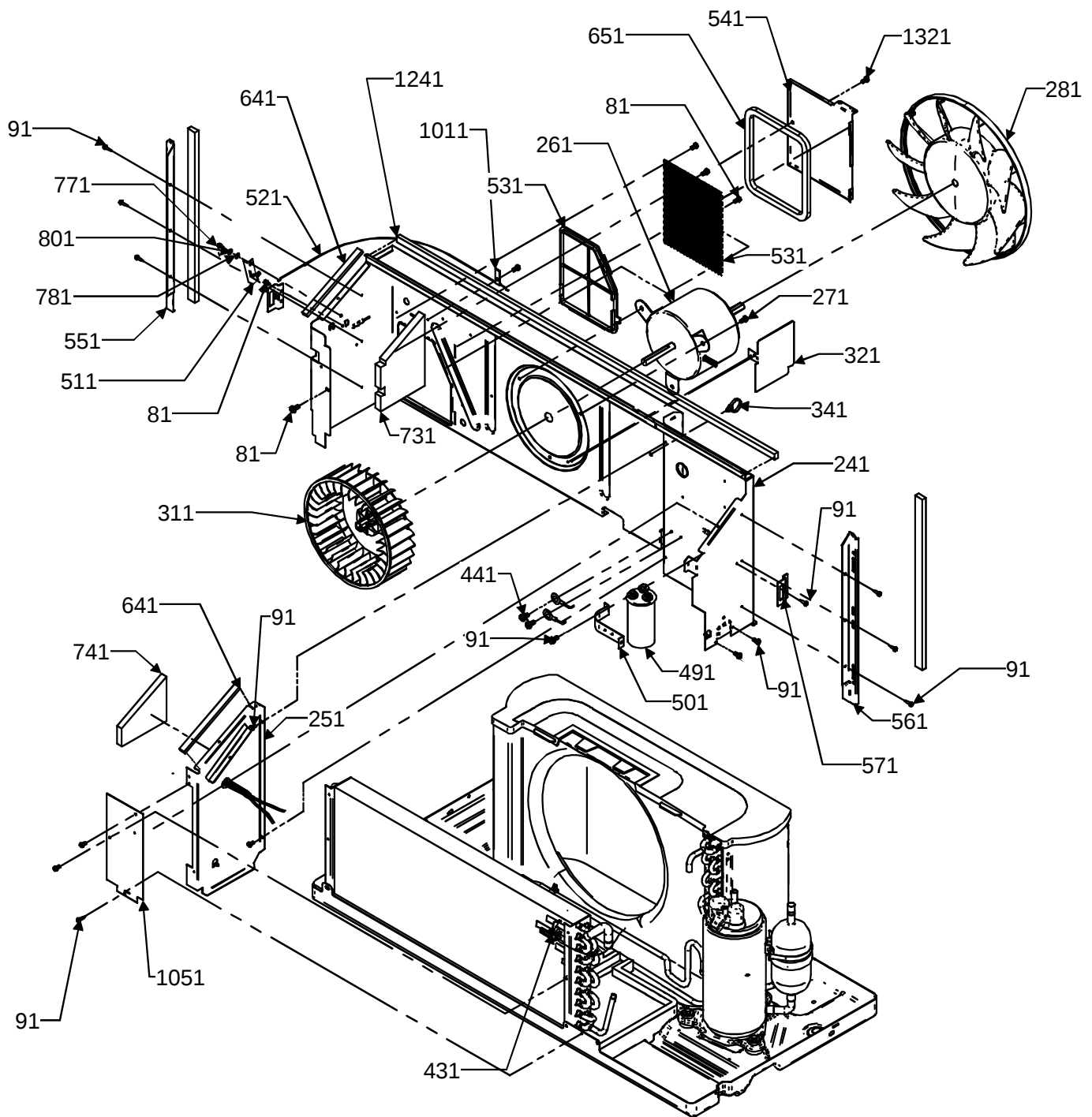
Image 1:

41	20403505	BASEPAN PNT (M1, M2)
41	20403507	BASEPAN PNT (M3)
41	20403508	BASEPAN PNT (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
51	20403802	PAD-EVAP
81	M0211216	SCREW (QTY AR)
91	M0216716	SCREW (QTY AR)
101	20456603BND	CONDENSING ASSY (M1, M2, M3, M4, M5, M8, M9, M10, M15, M16)
101	20456604BND	CONDENSING ASSY (M6, M11, M12)
101	20456605BND	CONDENSING ASSY (M7, M13, M14)
191	M0253661	SCREW-SHLDR (M1, M2, M3, M4, M5, M8, M9, M10, M15, M16)
211	20284919	CAPILLARY TUBE ASSY (M1, M2)
211	20284924	CAPILLARY TUBE ASSY (M3)
221	20406302	DRAIN VLV. (M1, M2)
221	20417902	DRAIN VLV. (M3)
221	20406303	VALVE-BASEPAN (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
231	20356701	SCROLL-BLOWER (M1)
231	20356702	SCROLL-BLOWER (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
291	20401301	CONDENSOR SHROUD
301	11044201	BRACE-TIE
331	20417701	BAFFLE-TOP (M1, M2, M3, M4, M8, M16)
331	20417702	BAFFLE-TOP (M5, M6, M7, M9, M10, M11, M12, M13, M14, M15)
611	M0204517	SCREW (QTY 2)
641	20455902	GASKET (QTY 5)
651	10839808	GASKET, FOAM (QTY 5)
811	20455901	GASKET (QTY 2)
1061	10839706	GASKET (PER FOOT) (QTY 2)
1071	M0120801	CLIP, GUIDE
1481	10839812	GASKET, FOAM (QTY 2)
1491	20453901	TUBE-SUBCOOLER (M1, M2, M3, M5, M6, M9, M10, M11, M12)
1491	20474302	TUBE-SUBCOOLER (M7, M13, M14)
1501	20357001	CONDENSOR SIDE CVR. (QTY 2)
1511	20396701	TOP COVER
1531	20477802	SPLIT TUBING (M1, M2, M3, M5, M6, M7, M9, M10, M11, M12, M13, M14)
1541	M0321202	TIE (QTY AR)
1551	M0322201	WIRE TIE
1561	M0211018	SCREW 5/8" (QTY AR)
1571	10839827	GASKET

Expanded Model Nomenclature

M1 - PTH073B35AF	P1248855R
M2 - PTH074B35AF	P1248856R
M3 - PTH073B25AF	P1248861R
M4 - PTH073B35AJ	P1259904R
M5 - PTH093B35AJ	P1259905R
M6 - PTH123B35AJ	P1259906R
M7 - PTH153B35AJ	P1259908R
M8 - PTH073B25AJ	P1259911R
M9 - PTH093B25AJ	P1259918R
M10 - PTH093B50AJ	P1259919R
M11 - PTH123B25AJ	P1259922R
M12 - PTH123B50AJ	P1259923R
M13 - PTH153B25AJ	P1259926R
M14 - PTH153B50AJ	P1259927R
M15 - PTH073B25TJ	P1259928R
M16 - PTH073B15AJ	P1259932R

Chassis



Chassis

**Ref. Part
No: No:**

Description:

**Ref. Part
No: No:**

Description:

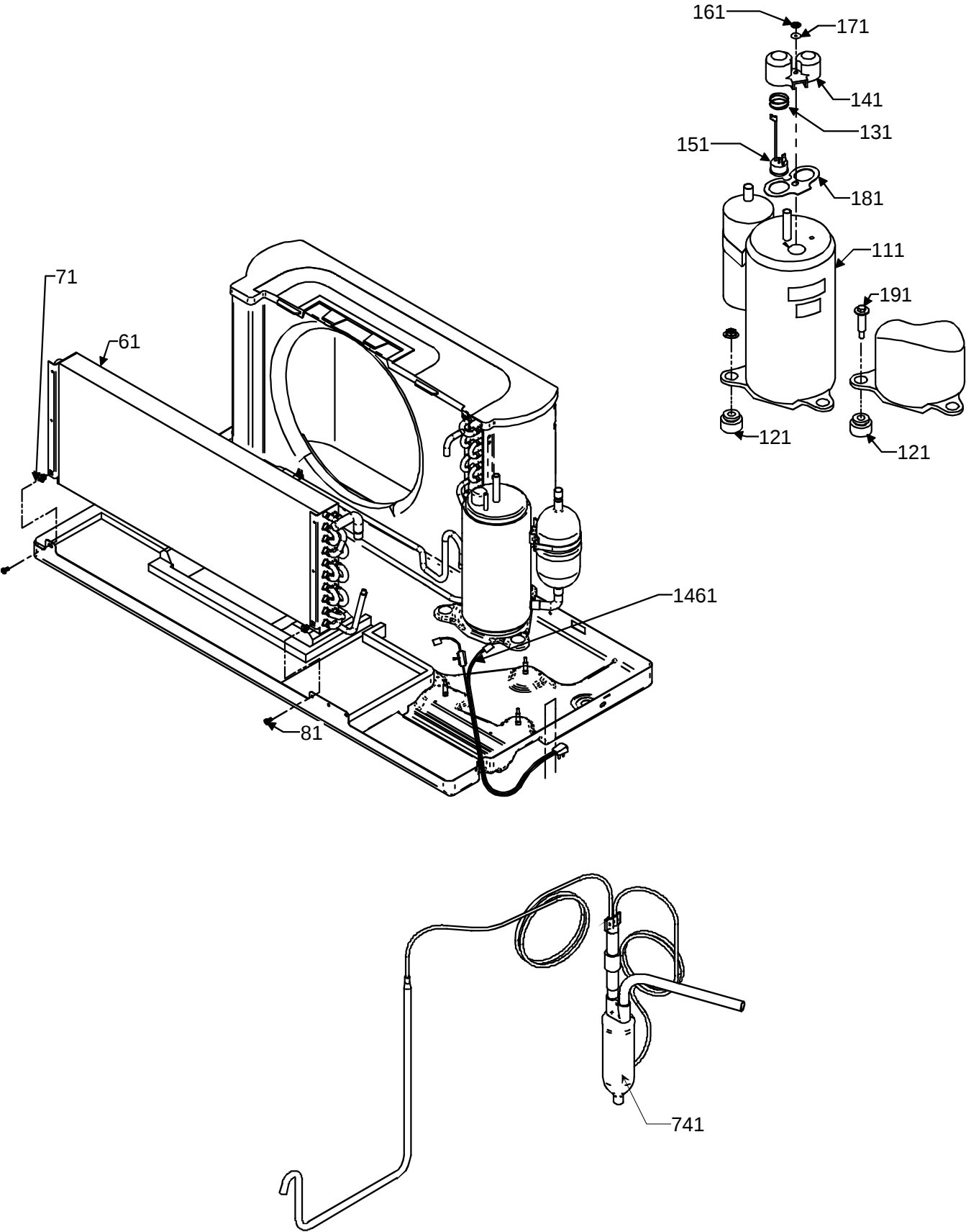
Image 1:

81	M0211216	SCREW (QTY AR)
91	M0216716	SCREW (QTY AR)
241	20403104	PANEL-PTN PNT (M1, M2, M3)
241	20403105	PANEL-PTN PNT (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
251	20403302	PANEL-MID PTN
261	11114907	MOTOR, FAN (M1, M3, M4, M5, M8, M9, M15, M16)
261	11114908	MOTOR, FAN (M2)
261	11114909	MOTOR, FAN (M6, M7, M10, M11, M12, M13, M14)
271	M0224956	SCREW, TAP (QTY 3)
281	20414601	FAN
311	11044101	WHEEL, BLOWER
321	20480901	BAFFLE-COND INLT (M1, M2, M3)
321	20480902	BAFFLE-COND INLT (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
341	M0118702	CLIP-GUIDE
431	20075601	CLIP, T'STAT (M1, M2, M3)
441	M0227803	SCREW (QTY 2)
491	D6789051	CAPACITOR (M6, M11, M12)
491	D6789054	CAPACITOR ROUND (M1, M3, M4, M5, M8, M9, M10, M15, M16)
491	D6789063	CAPACITOR ROUND (M2)
491	D6789049	CAPACITOR-POLY (M7, M13, M14)
501	C6300502	CAPACITOR STRAP
511	11046302	LEVER, ARM
521	11115401	CABLE
531	20304003	SHIELD-PROTECTION
541	11046105	DOOR VENT
551	20416201	LFT SD SEAL
561	20416101	LFT SD SEAL
571	11191703	BRKT-PARTITION PANEL (QTY 2)
601	11123904	DISCH-SCREEN-PNT (M1, M2, M3)
601	11123911	SCREEN-PNT DISCH (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
641	20455902	GASKET (QTY 5)
651	10839808	GASKET, FOAM (QTY 5)
731	11122901	INSUL-PART PAN
741	11123001	INSUL-MID PART PAN
771	M0220757	SCREW, SHOULDER
781	M0273701	WASHER-SPRING
801	M0270529	WASHER
1011	M0108103	CLAMP-TUBE
1051	20410801	COVER-ACCESS
1241	10839807	GASKET (QTY 3)
1321	M0238833	SCREW SHOULDER

Expanded Model Nomenclature

M1 - PTH073B35AF	P1248855R
M2 - PTH074B35AF	P1248856R
M3 - PTH073B25AF	P1248861R
M4 - PTH073B35AJ	P1259904R
M5 - PTH093B35AJ	P1259905R
M6 - PTH123B35AJ	P1259906R
M7 - PTH153B35AJ	P1259908R
M8 - PTH073B25AJ	P1259911R
M9 - PTH093B25AJ	P1259918R
M10 - PTH093B50AJ	P1259919R
M11 - PTH123B25AJ	P1259922R
M12 - PTH123B50AJ	P1259923R
M13 - PTH153B25AJ	P1259926R
M14 - PTH153B50AJ	P1259927R
M15 - PTH073B25TJ	P1259928R
M16 - PTH073B15AJ	P1259932R

Compressor/Tubing



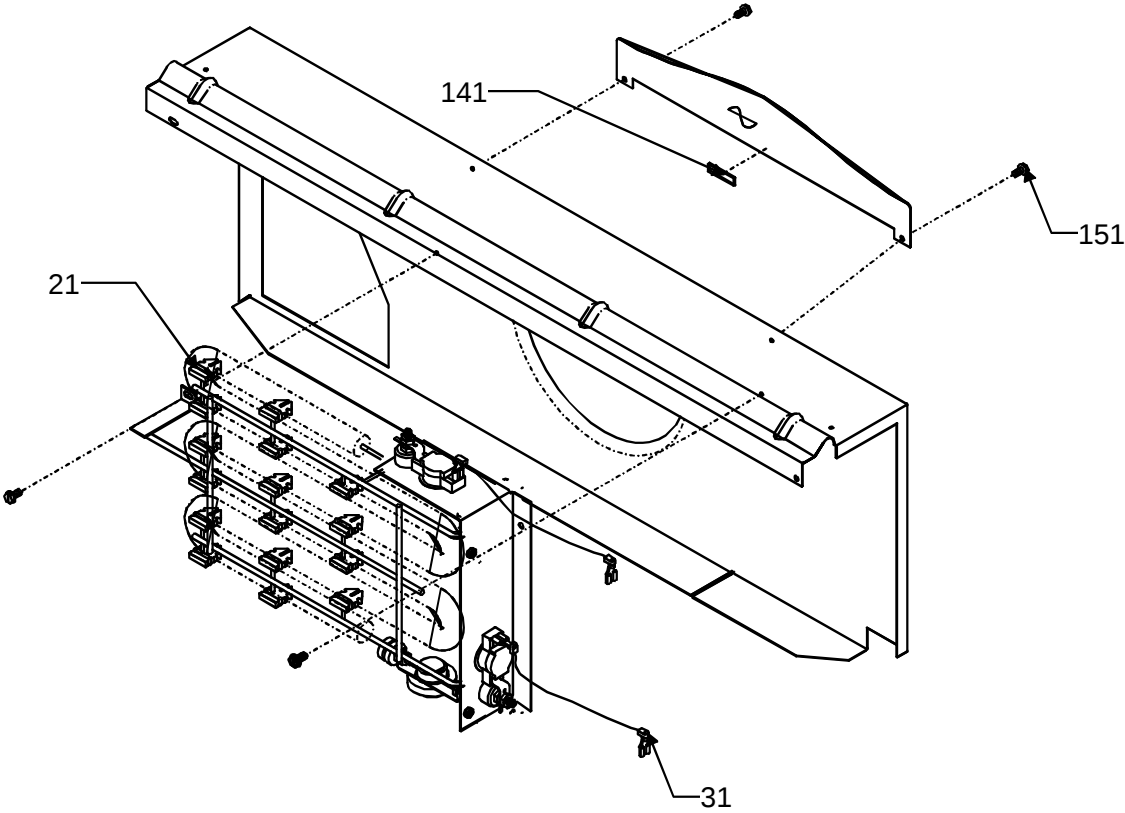
Compressor/Tubing

Ref. Part No:	Ref. Part No:	Description:	Description:
<i>Image 1:</i>			
61	20456702	EVAPORATOR ASSY (M6, M7, M11, M12, M13, M14)	
61	20457202	EVAPORATOR ASSY (M1, M2, M3, M5, M9, M10)	
61	20473902	EVAPORATOR ASSY (M4, M8, M15, M16)	
71	A3315701	GROMMET (QTY 2)	
81	M0211216	SCREW (QTY AR)	
111	D6985807	COMP-PN 2P17S3R236A (M6, M11, M12)	
111	D6887711	COMP-PN 2R13S3R236A (M5, M9, M10)	
111	D6887715	COMP-PN 2R9U236A6A (M1, M3, M4, M8, M15, M16)	
111	D6887716	COMP-PN 2R9U276A6A (M2)	
111	D6926123	COMPRESSOR 2K21T236 (M7, M13, M14)	
121	A3448602	GROMMET (M6, M7, M11, M12, M13, M14)	
121	A4622801	GROMMET (M1, M2, M3, M4, M5, M8, M9, M10, M15, M16)	
131	A3436901	SPRING, OVERLOAD	
141	10329001	TERM COVER	
151	D6961612	OVERLOAD (M6, M11, M12)	
151	D6961636	OVERLOAD (M1, M3, M4, M8, M15, M16)	
151	D6961637	OVERLOAD (M2)	
151	D6961639	OVERLOAD (M5, M9, M10)	
161	A3436601	NUT, TERMINAL COVER	
171	A3436801	WASHER, GASKET-NUT	
181	A3436701	GASKET, TERMINAL	
191	M0253610	SCREW-SHLDR (M6, M7, M11, M12, M13, M14)	
191	M0253661	SCREW-SHLDR (M1, M2, M3, M4, M5, M8, M9, M10, M15, M16)	
741	20284919	DRYER-FILTER (M1, M2, M3, M4, M8, M15, M16)	
741	20284920	DRYER-FILTER (M5, M9, M10)	
741	20284921	DRYER-FILTER (M6, M11, M12)	
741	20284922	DRYER-FILTER (M7, M13, M14)	
1461	20320702	FERRITE CORE (M1, M2, M3, M15)	

Expanded Model Nomenclature

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M2 - PTH074B35AF	P1248856R
M3 - PTH073B25AF	P1248861R
M4 - PTH073B35AJ	P1259904R
M5 - PTH093B35AJ	P1259905R
M6 - PTH123B35AJ	P1259906R
M7 - PTH153B35AJ	P1259908R
M8 - PTH073B25AJ	P1259911R
M9 - PTH093B25AJ	P1259918R
M10 - PTH093B50AJ	P1259919R
M11 - PTH123B25AJ	P1259922R
M12 - PTH123B50AJ	P1259923R
M13 - PTH153B25AJ	P1259926R
M14 - PTH153B50AJ	P1259927R
M15 - PTH073B25TJ	P1259928R
M16 - PTH073B15AJ	P1259932R

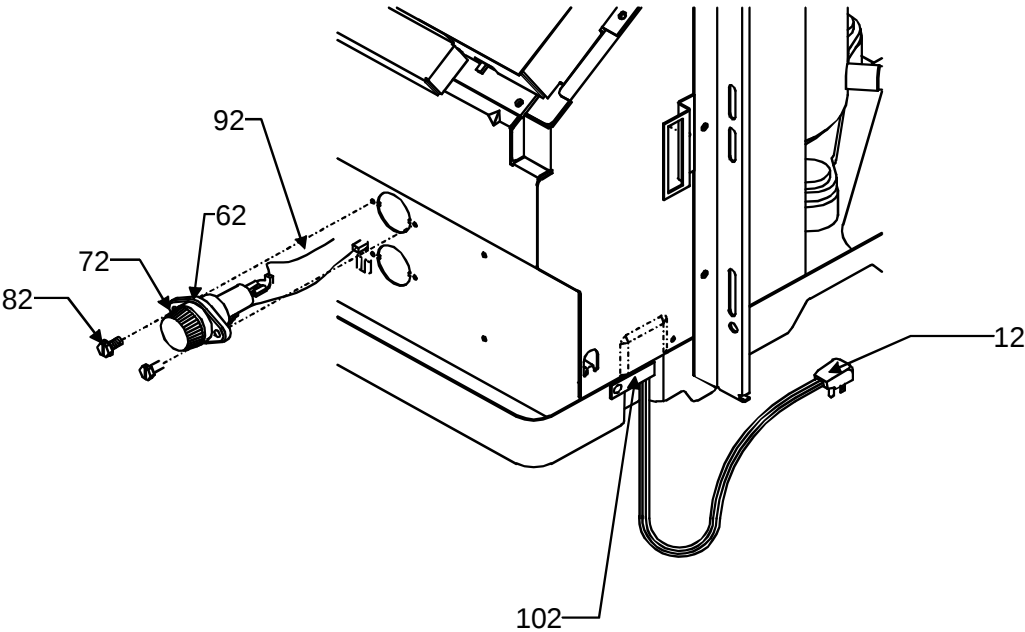
Heater



SINGLE STAGE HEAT

Image 1

Image 2



Heater

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

21	20460608	HEATER (M2)
21	20460612	HEATER (M3)
21	20460613	HEATER (M1)
21	11116201	HTR 3 1.5KW ASSY (M16)
21	20517901	HTR 3 2.5KW ASSY (M8, M9, M11, M13, M15)
21	20517902	HTR 3 3.5KW ASSY (M4, M5, M6, M7)
21	20517903	HTR 3 5.0KW ASSY (M10, M12, M14)
31	20260805	BR34 WIRE (QTY 2)
141	10839722	GASKET-URETHANE
151	M0216716	SCREW (QTY 2)

Image 2:

12	22309901	CORD-230V 15AMP (M8, M9, M11, M13, M15, M16)
12	22309902	CORD-230V 20AMP (M4, M5, M6, M7)
12	22309903	CORD-230V 30AMP (M10, M12, M14)
12	11114401	CORD-250V 15A (M3)
12	11114501	CORD-250V/20A (M1)
12	11114701	CORD-277V-20A (M2)
62	C6476002	FUSE HOLDER (M2)
72	A3410403	FUSE 20A (M2)
82	M0213817	SCREW (M2)
92	10618850	WIRE BK18 (M2)
102	M0103905	CLAMP-SPEED (M3, M8, M9, M11, M13, M15, M16)
102	M0103906	CLAMP-SPEED (M1, M2, M4, M5, M6, M7, M10, M12, M14)

Expanded Model Nomenclature

M1 - PTH073B35AF	P1248855R
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M3 - PTH073B25AF	P1248861R
M4 - PTH073B35AJ	P1259904R
M5 - PTH093B35AJ	P1259905R
M6 - PTH123B35AJ	P1259906R
M7 - PTH153B35AJ	P1259908R
M8 - PTH073B25AJ	P1259911R
M9 - PTH093B25AJ	P1259918R
M10 - PTH093B50AJ	P1259919R
M11 - PTH123B25AJ	P1259922R
M12 - PTH123B50AJ	P1259923R
M13 - PTH153B25AJ	P1259926R
M14 - PTH153B50AJ	P1259927R
M15 - PTH073B25TJ	P1259928R
M16 - PTH073B15AJ	P1259932R

Control Panel

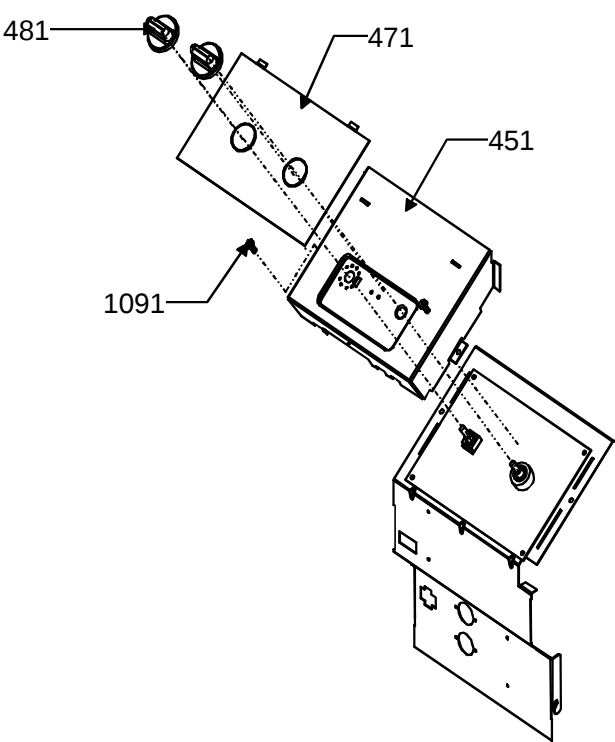
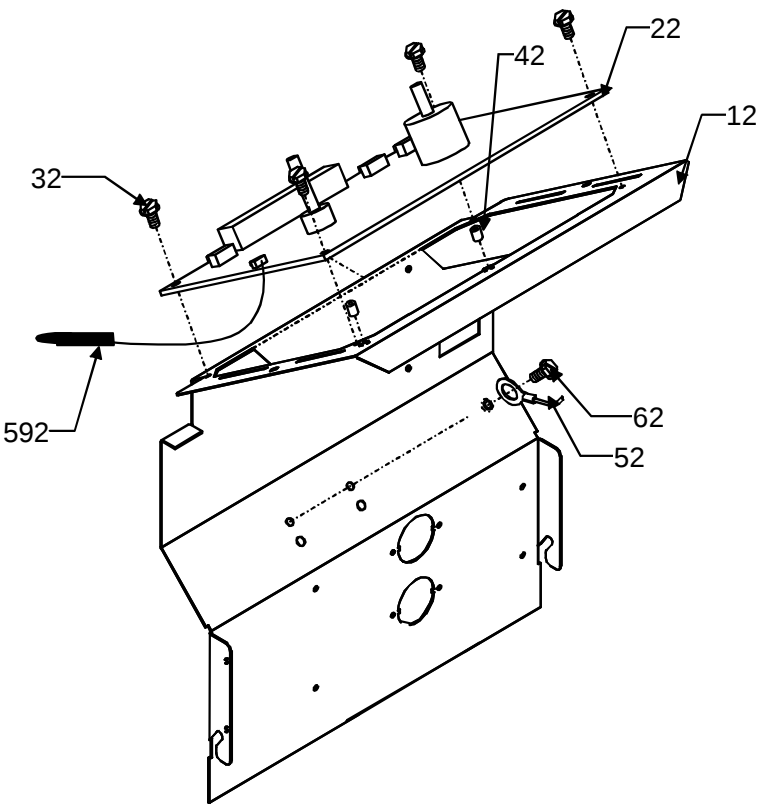


Image 1

Image 2



Control Panel

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

111	20512501	TRANSFORMER
451	11044404	PANEL COVER
471	20480702	PLATE-ESC
481	11042903	KNOB (QTY 2)
1091	M0216529	SCREW (QTY 4)

Image 2:

12	11044505	PANEL-CONTROL
22	20295502	PC BOARD (M1, M2)
22	20475302	PC BOARD (M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
32	M0216529	SCREW (QTY 4)
42	M0590702	SUPPORT (QTY 2)
52	10618849	WIRE, JUMPER (GN1)
62	M0227803	SCREW
592	20295701	INDOOR AMBIENT THERMISTOR (M1, M2, M3)
1402	20295706	THERMISTOR-INDOOR AMBIENT (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
1412	20295707	THERMISTOR-INDOOR COIL (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
1432	20295709	THERMISTOR-OUTDOOR COIL (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)

Expanded Model Nomenclature

M1 - PTH073B35AF	P1248855R
M2 - PTH074B35AF	P1248856R
M3 - PTH073B25AF	P1248861R
M4 - PTH073B35AJ	P1259904R
M5 - PTH093B35AJ	P1259905R
M6 - PTH123B35AJ	P1259906R
M7 - PTH153B35AJ	P1259908R
M8 - PTH073B25AJ	P1259911R
M9 - PTH093B25AJ	P1259918R
M10 - PTH093B50AJ	P1259919R
M11 - PTH123B25AJ	P1259922R
M12 - PTH123B50AJ	P1259923R
M13 - PTH153B25AJ	P1259926R
M14 - PTH153B50AJ	P1259927R
M15 - PTH073B25TJ	P1259928R
M16 - PTH073B15AJ	P1259932R

Reversing Valves

Image 1

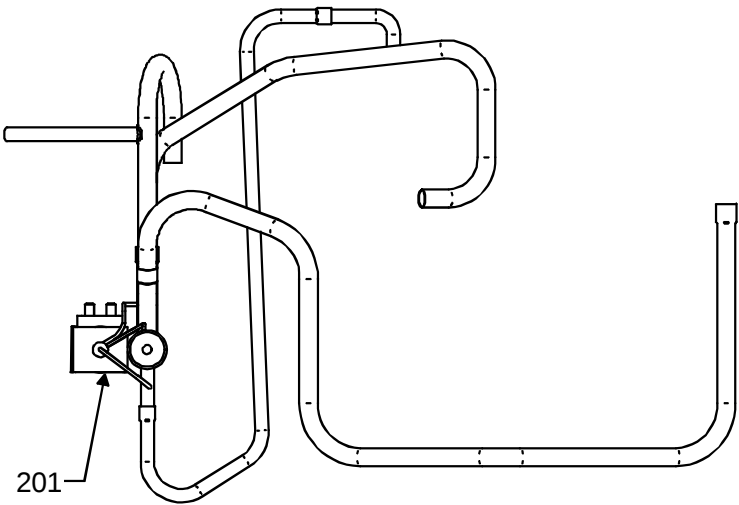


Image 2

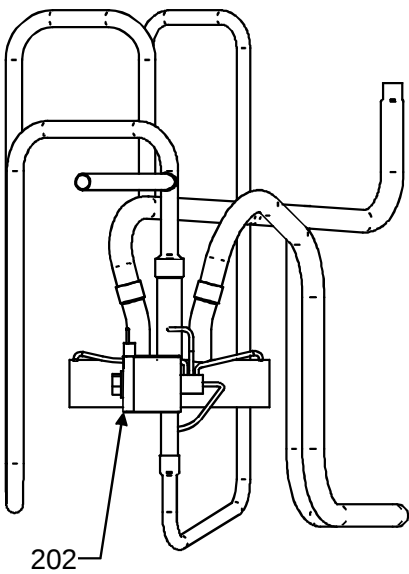


Image 3

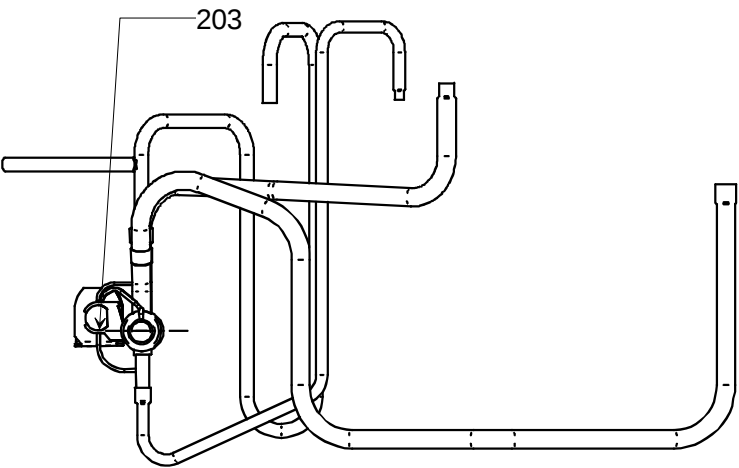
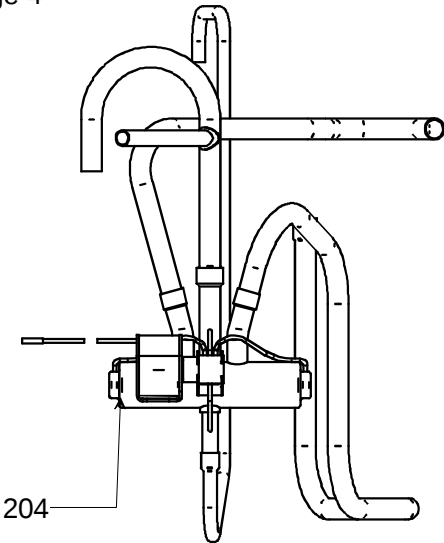


Image 4



Reversing Valves

Ref. Part			Ref. Part		
No:	No:	Description:	No:	No:	Description:
<i>Image 1:</i>					
201	20477402	REV VLV WELD (M2)			
201	20477403	REV VLV WELD (M3, M4, M8, M15, M16)			
<i>Image 2:</i>					
202	20474403	REV VLV WELD (M7, M13, M14)			
<i>Image 3:</i>					
203	20477401	REV VLV WELD (M1)			
<i>Image 4:</i>					
204	20477003	REV VLV WELD (M5, M9, M10)			
204	20477103	REV VLV WELD (M6, M11, M12)			

Expanded Model Nomenclature

M1 - PTH073B35AF	P1248855R
M2 - PTH074B35AF	P1248856R
M3 - PTH073B25AF	P1248861R
M4 - PTH073B35AJ	P1259904R
M5 - PTH093B35AJ	P1259905R
M6 - PTH123B35AJ	P1259906R
M7 - PTH153B35AJ	P1259908R
M8 - PTH073B25AJ	P1259911R
M9 - PTH093B25AJ	P1259918R
M10 - PTH093B50AJ	P1259919R
M11 - PTH123B25AJ	P1259922R
M12 - PTH123B50AJ	P1259923R
M13 - PTH153B25AJ	P1259926R
M14 - PTH153B50AJ	P1259927R
M15 - PTH073B25TJ	P1259928R
M16 - PTH073B15AJ	P1259932R