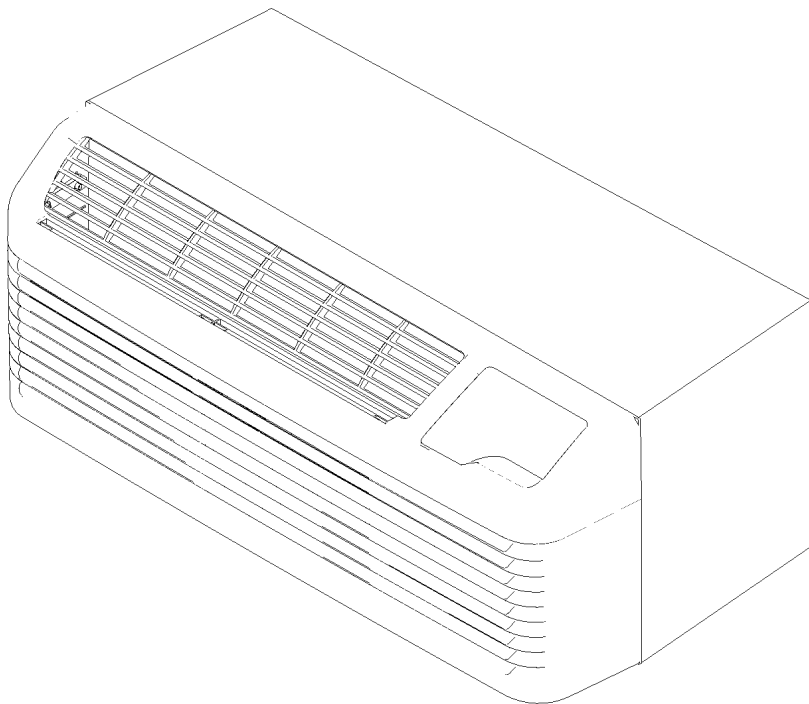


PTH123G Package Terminal Heat Pump

PTH123G15AXXXAA
PTH123G25AXXXAA
PTH123G25CXXXAA
PTH123G25DRXXAA
PTH123G25DXXXAA
PTH123G25QXXXAA
PTH123G25RXXXAA
PTH123G25VXXXAA
PTH123G35AXXXAA
PTH123G35CRXXAA
PTH123G35CXXXAA
PTH123G35DXXXAA
PTH123G35PXXXAA
PTH123G35QRXXAA
PTH123G35QXXXAA
PTH123G35RXXXAA
PTH123G35VXXXAA
PTH123G50AXXXAA
PTH123G50CXXXAA
PTH123G50DXXXAA
PTH123G50QRXXAA
PTH123G50QXXXAA
PTH123G50RXXXAA
PTH123G50VXXXAA
PTH123G50WXXXAA



Amana® is a registered trademark of Maytag Corporation or its related companies and is used under license to Goodman Company, L.P., Houston, TX, USA. All rights reserved.

This manual is to be used by qualified technicians only.

This manual replaces RP-735D.

© 2014-2015 Goodman Company, L.P. ♦ 5151 San Felipe St., Suite 500 ♦ Houston, TX 77056

Important Information

Index

Functional Parts List	3
Illustration and Parts	4 - 13

Views shown are for parts illustrations only, not servicing procedures

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 M2 - Model#2 M3 - Model#3

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.

Goodman Company, L.P. reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.

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

Functional Parts

Part

No:

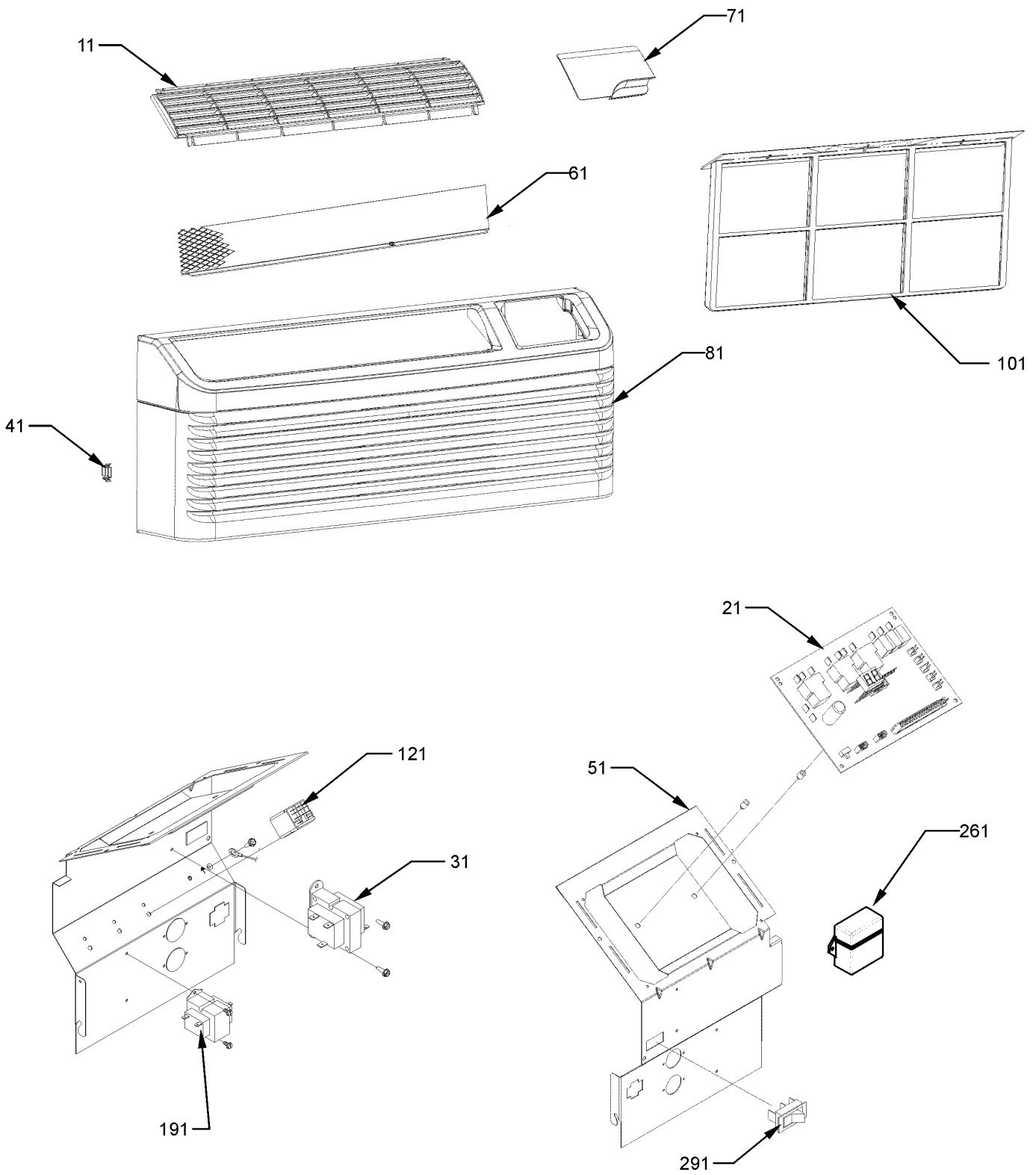
Description:

Expanded Model Nomenclature

20406303	BASE PAN VALVE (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)
CAP030300450CS	CAPACITOR, 500V
44A282A	COMPRESSOR, RECHI
RSKP0010	CONTROL BOARD M61
RSKP0005	CONTROL PANEL COVER AND MEMBRANE
0130P00059	CORD, 250VAC, 15A (LCD) (M1, M2, M3, M4, M5, M6, M7, M8)
0130P00058	CORD, 250VAC, 20A (LCD) (M9, M10, M11, M12, M13, M14, M15, M16, M17)
0130P00061	CORD, 250VAC, 30A (LCD) (M18, M19, M20, M21, M22, M23, M24)
0130M00132	CUT-OUT SWITCH, HIGH PRESSURE
0131P00029	FAN MOTOR, INDOOR
0131P00031	FAN MOTOR, OUTDOOR
0161P00030	FAN, CONDENSER
0275P00039	HEATER ASSY (M18, M19, M20, M21, M22, M23, M24, M25)
0275P00019	HEATER ASSY (M2, M3, M4, M5, M6, M7, M8)
0275P00022	HEATER ASSY (M1)
0275P00038	HEATER ASSY (M9, M10, M11, M12, M13, M14, M15, M16, M17)
60343503	OVERLOAD PROTECTOR
11172801	POWER VENT MOTOR (M4, M5, M8, M12, M17, M20, M24)
0130M00096	RELAY
C8873917	RELAY (HYDRONIC) (M13)
C8873932	RELAY (POWER VENT) (M4, M5, M8, M12, M17, M20, M24)
0151P00000	REVERSING VALVE ASSY-230V
0130P00022	REVERSING VALVE COIL
B1160701	TERMINAL BOARD (M4, M5, M8, M12, M17, M20, M24)
0130P00093	THERMISTOR
0130P00074	THERMISTOR
0130P00134	THERMISTOR - DISCHARGE
0130P00077	THERMISTOR - INDOOR (M4, M7, M10, M14, M16, M21, M23)
0130P00086	THERMISTOR - INDOOR COIL
0130P00098	THERMISTOR - OUTDOOR AMBIENT (M4, M7, M10, M14, M16, M21, M23)
0130M00150	Trans.,40VA, 240V/208V to 120V (M13)
0130M00152	TRANSFORMER
0130M00149	TRANSFORMER 240V/208V TO 24V, 40VA (M4, M5, M8, M12, M17, M20, M24)
PCBEP100	VARIABLE SPEED TERMINAL BOARD (DDC CONTROL)
0150P00004	WHEEL, BLOWER

M1 - PTH123G15AXXXAA
M2 - PTH123G25AXXXAA
M3 - PTH123G25CXXXAA
M4 - PTH123G25DRXXXAA
M5 - PTH123G25DXXXAA
M6 - PTH123G25QXXXAA
M7 - PTH123G25RXXXAA
M8 - PTH123G25VXXXAA
M9 - PTH123G35AXXXAA
M10 - PTH123G35CRXXXAA
M11 - PTH123G35CXXXAA
M12 - PTH123G35DXXXAA
M13 - PTH123G35PXXXAA
M14 - PTH123G35QRXXXAA
M15 - PTH123G35QXXXAA
M16 - PTH123G35RXXXAA
M17 - PTH123G35VXXXAA
M18 - PTH123G50AXXXAA
M19 - PTH123G50CXXXAA
M20 - PTH123G50DXXXAA
M21 - PTH123G50QRXXXAA
M22 - PTH123G50QXXXAA
M23 - PTH123G50RXXXAA
M24 - PTH123G50VXXXAA
M25 - PTH123G50WXXXAA

Front Assy



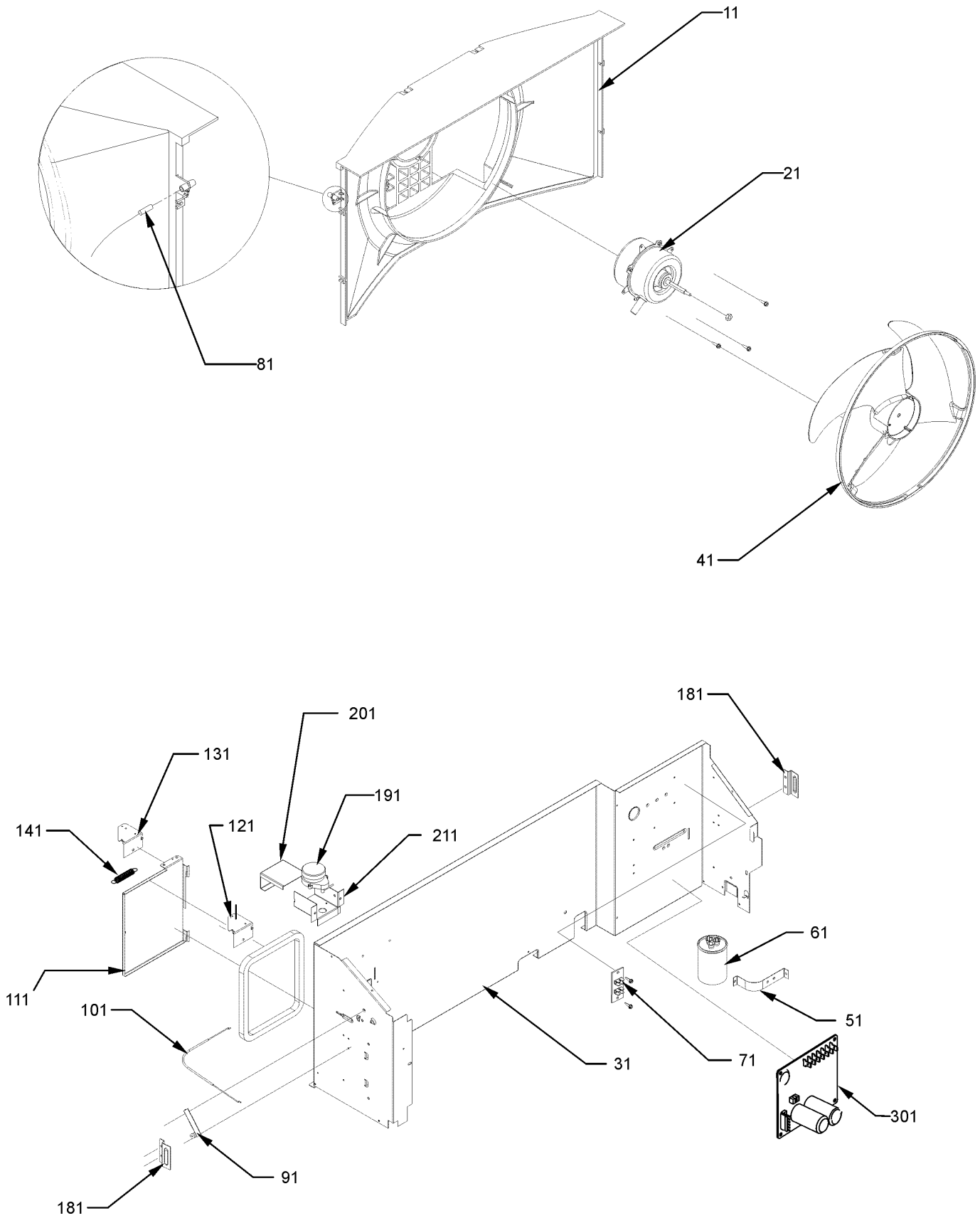
Front Assy

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0161P00033	FRONT-DISCHARGE LOUVERS	
21	RSKP0010	CONTROL BOARD M61	
31	0130M00152	TRANSFORMER	
41	0163P00025	CLIP (QTY 2)	
51	0121P00087	PANEL, CONTROL	
61	0121P00073	SCREEN, DISCHARGE	
71	0261P00003	DOOR ASSY -AMANA-	
81	0261P00011	FRONT ASSY	
101	0161P00035	FILTER, RACK (QTY 2)	
121	0130M00096	RELAY	
121	C8873917	RELAY (HYDRONIC) (M13)	
121	C8873932	RELAY (POWER VENT) (M4, M5, M8, M12, M17, M20, M24)	
191	0130M00150	Trans.,40VA, 240V/208V to 120V (M13)	
191	0130M00149	TRANSFORMER 240V/208V TO 24V, 40VA (M4, M5, M8, M12, M17, M20, M24)	
261	0130P00104	ANTENNA (DIGITENNA) (M4, M7, M10, M14, M16, M21, M23)	
291	B1337701	PADDLE SWITCH (M4, M5, M8, M12, M17, M20, M24)	

Expanded Model Nomenclature

M1 - PTH123G15AXXXAA
 M2 - PTH123G25AXXXAA
 M3 - PTH123G25CXXXAA
 M4 - PTH123G25DRXXAA
 M5 - PTH123G25DXXXAA
 M6 - PTH123G25QXXXAA
 M7 - PTH123G25RXXXAA
 M8 - PTH123G25VXXXAA
 M9 - PTH123G35AXXXAA
 M10 - PTH123G35CRXXAA
 M11 - PTH123G35CXXXAA
 M12 - PTH123G35DXXXAA
 M13 - PTH123G35PXXXAA
 M14 - PTH123G35QRXXAA
 M15 - PTH123G35QXXXAA
 M16 - PTH123G35RXXXAA
 M17 - PTH123G35VXXXAA
 M18 - PTH123G50AXXXAA
 M19 - PTH123G50CXXXAA
 M20 - PTH123G50DXXXAA
 M21 - PTH123G50QRXXAA
 M22 - PTH123G50QXXXAA
 M23 - PTH123G50RXXXAA
 M24 - PTH123G50VXXXAA
 M25 - PTH123G50WXXXAA

Chassis Control Panel



Chassis Control Panel

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

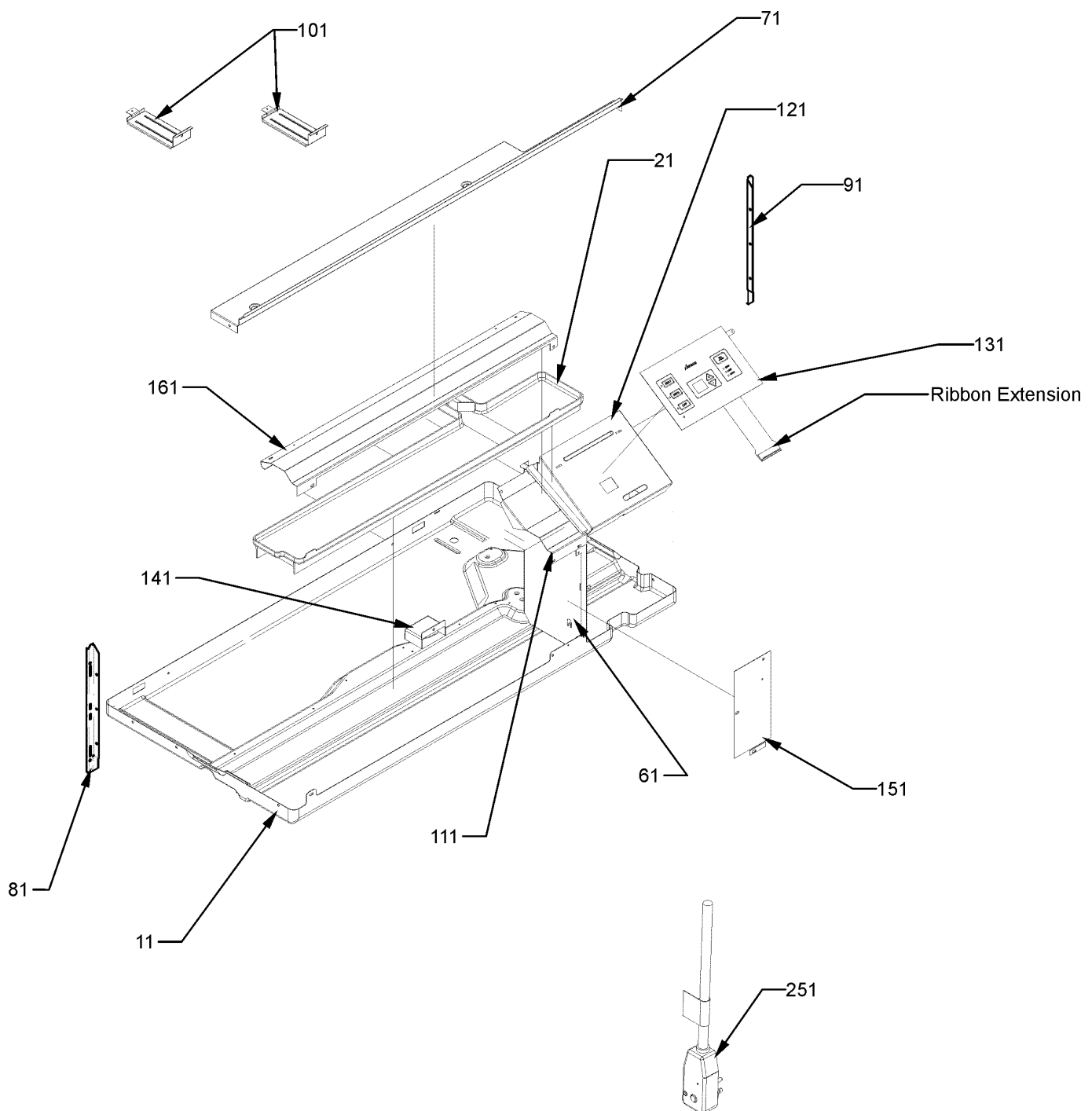
Image 1:

11	0161P00026	SHROUD, CONDENSER
21	0131P00031	FAN MOTOR, OUTDOOR
31	0121P00093	PANEL-PARTITION (M6, M14, M15, M21, M22)
31	0121P00108DG	PANEL-PARTITION
41	0161P00030	FAN, CONDENSER
51	C6300502	CAPACITOR STRAP
61	CAP030300450CS	CAPACITOR, 500V
71	B1160701	TERMINAL BOARD (M4, M5, M8, M12, M17, M20, M24)
81	0130P00098	THERMISTOR - OUTDOOR AMBIENT (M4, M7, M10, M14, M16, M21, M23)
91	11046302	LEVER ARM (M1, M2, M3, M7, M9, M10, M11, M13, M16, M18, M19, M23, M25)
101	0163P00019	CABLE
111	11046105PDG	VENT DOOR
121	0121P00079	BRACKET, VENT DOOR (M4, M5, M8, M12, M17, M20, M24)
121	0121P00072DG	BRACKET, VENT DOOR-C (M1, M2, M3, M7, M9, M10, M11, M13, M16, M18, M19, M23, M25)
131	0121P00080	BRACKET, POWER VENT (M4, M5, M8, M12, M17, M20, M24)
141	11166401	EXTENSION SPRING (M4, M5, M8, M12, M17, M20, M24)
181	11191703	PARTITION PANEL BRACKET (QTY 2)
191	11172801	POWER VENT MOTOR (M4, M5, M8, M12, M17, M20, M24)
201	11166201	POWER VENT COVER BRACKET (M4, M5, M8, M12, M17, M20, M24)
211	11166101	POWER VENT MOTOR BRACKET (M4, M5, M8, M12, M17, M20, M24)
301	PCBEP100	VARIABLE SPEED TERMINAL BOARD (DDC CONTROL)
NS	0121P00091	PANEL-AUXILLIARY (M6, M14, M15, M21, M22)

Expanded Model Nomenclature

M1 - PTH123G15AXXXAA
M2 - PTH123G25AXXXAA
M3 - PTH123G25CXXXAA
M4 - PTH123G25DRXXAA
M5 - PTH123G25DXXXAA
M6 - PTH123G25QXXXAA
M7 - PTH123G25RXXXAA
M8 - PTH123G25VXXXAA
M9 - PTH123G35AXXXAA
M10 - PTH123G35CRXXAA
M11 - PTH123G35CXXXAA
M12 - PTH123G35DXXXAA
M13 - PTH123G35PXXXAA
M14 - PTH123G35QRXXAA
M15 - PTH123G35QXXXAA
M16 - PTH123G35RXXXAA
M17 - PTH123G35VXXXAA
M18 - PTH123G50AXXXAA
M19 - PTH123G50CXXXAA
M20 - PTH123G50DXXXAA
M21 - PTH123G50QRXXAA
M22 - PTH123G50QXXXAA
M23 - PTH123G50RXXXAA
M24 - PTH123G50VXXXAA
M25 - PTH123G50WXXXAA

Partition Assy



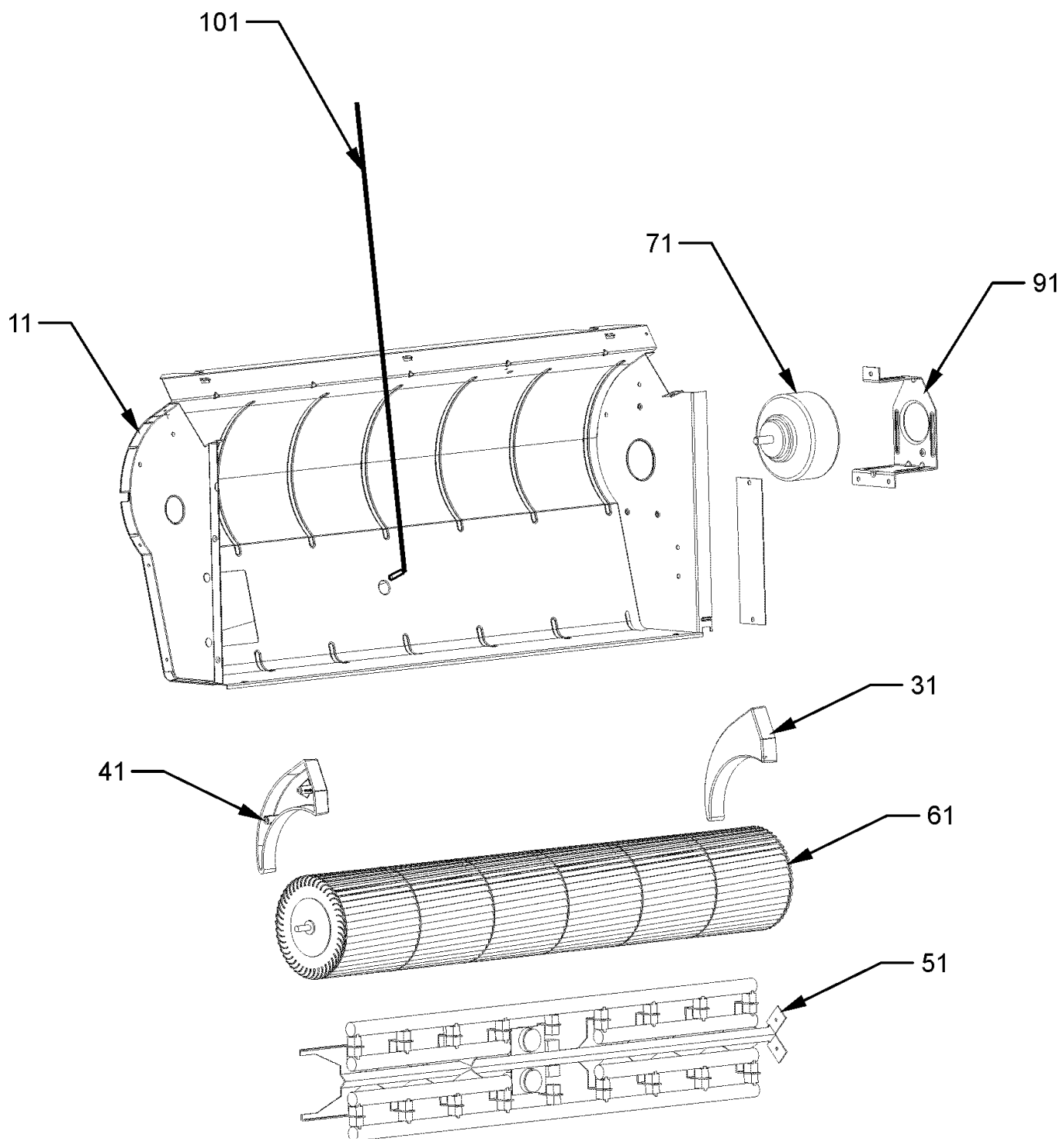
Partition Assy

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0121P00133BR		BASEPAN (M3, M10, M11, M19)
11	0121P00133DG		BASEPAN (M1, M2, M4, M5, M6, M7, M8, M9, M12, M13, M14, M15, M16, M17, M18, M20, M21, M22, M23, M24, M25)
21	0161P00044		PLASTIC-DRAIN PAN
61	20403301		MID PARTITION PANEL
71	0121P00063DG		TOP, PARTITION PANEL
81	20416201		SEAL-L SIDE PTC
91	20416101		SEAL-R SIDE PTC
101	0121P00071DG		BRACE, TIE (QTY 2)
111	0121P00070DG		COVER, MOTOR
121	0121P00129		COVER-CONTROL PANEL
131	RSKP0005		CONTROL PANEL COVER AND MEMBRANE
141	0161P00016		PLASTIC-HOOD
151	20410801		ACCESS COVER
161	0121P00061DG		CUTOFF-SCROLL DG
251	0130P00059		CORD, 250VAC, 15A (LCD) (M1, M2, M3, M4, M5, M6, M7, M8)
251	0130P00058		CORD, 250VAC, 20A (LCD) (M9, M10, M11, M12, M13, M14, M15, M16, M17)
251	0130P00061		CORD, 250VAC, 30A (LCD) (M18, M19, M20, M21, M22, M23, M24)
NS	0130P00054		MEMBRANE (CONTROL)

Expanded Model Nomenclature

M1 - PTH123G15AXXXAA
 M2 - PTH123G25AXXXAA
 M3 - PTH123G25CXXXAA
 M4 - PTH123G25DRXXAA
 M5 - PTH123G25DXXXAA
 M6 - PTH123G25QXXXAA
 M7 - PTH123G25RXXXAA
 M8 - PTH123G25VXXXAA
 M9 - PTH123G35AXXXAA
 M10 - PTH123G35CRXXAA
 M11 - PTH123G35CXXXAA
 M12 - PTH123G35DXXXAA
 M13 - PTH123G35PXXXAA
 M14 - PTH123G35QRXXAA
 M15 - PTH123G35QXXXAA
 M16 - PTH123G35RXXXAA
 M17 - PTH123G35VXXXAA
 M18 - PTH123G50AXXXAA
 M19 - PTH123G50CXXXAA
 M20 - PTH123G50DXXXAA
 M21 - PTH123G50QRXXAA
 M22 - PTH123G50QXXXAA
 M23 - PTH123G50RXXXAA
 M24 - PTH123G50VXXXAA
 M25 - PTH123G50WXXXAA

Indoor Assy



Indoor Assy

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
----------------------	--------------	----------------------	--------------

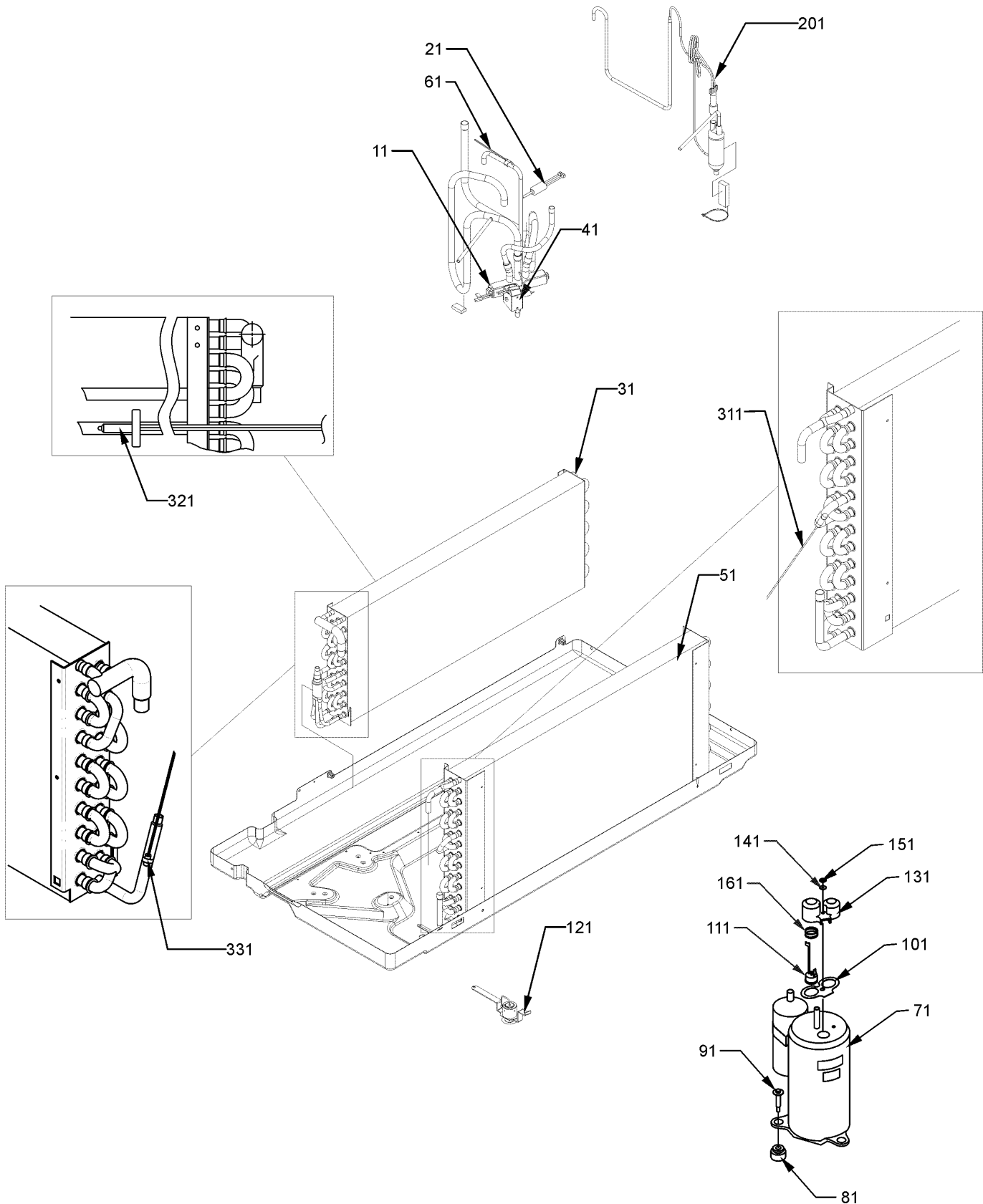
Image 1:

11	0270P01070	SCROLL ASSY
31	0161P00021	END CAP, RIGHT
41	0161P00022	END CAP, LEFT
51	0275P00019	HEATER ASSY (M2, M3, M4, M5, M6, M7, M8)
51	0275P00022	HEATER ASSY (M1)
51	0275P00038	HEATER ASSY (M9, M10, M11, M12, M13, M14, M15, M16, M17)
51	0275P00039	HEATER ASSY (M18, M19, M20, M21, M22, M23, M24, M25)
61	0150P00004	WHEEL, BLOWER
71	0131P00029	FAN MOTOR, INDOOR
91	0121P00048	BRACKET-MOTOR MOUNT
101	0130P00134	THERMISTOR - DISCHARGE
NS	0163P00027	BEARING

Expanded Model Nomenclature

M1 - PTH123G15AXXXAA
 M2 - PTH123G25AXXXAA
 M3 - PTH123G25CXXXAA
 M4 - PTH123G25DRXXAA
 M5 - PTH123G25DXXXAA
 M6 - PTH123G25QXXXAA
 M7 - PTH123G25RXXXAA
 M8 - PTH123G25VXXXAA
 M9 - PTH123G35AXXXAA
 M10 - PTH123G35CRXXAA
 M11 - PTH123G35CXXXAA
 M12 - PTH123G35DXXXAA
 M13 - PTH123G35PXXXAA
 M14 - PTH123G35QRXXAA
 M15 - PTH123G35QXXXAA
 M16 - PTH123G35RXXXAA
 M17 - PTH123G35VXXXAA
 M18 - PTH123G50AXXXAA
 M19 - PTH123G50CXXXAA
 M20 - PTH123G50DXXXAA
 M21 - PTH123G50QRXXAA
 M22 - PTH123G50QXXXAA
 M23 - PTH123G50RXXXAA
 M24 - PTH123G50VXXXAA
 M25 - PTH123G50WXXXAA

Tubing Assy



Tubing Assy

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

11	0151P00000	REVERSING VALVE ASSY-230V
21	0130M00132	CUT-OUT SWITCH, HIGH PRESSURE
31	0202P00065	EVAP ASSY, 5/16, 3 ROW
41	0130P00022	REVERSING VALVE COIL
51	0201P00079	CONDENSER ASSY (M1, M2, M4, M5, M6, M7, M8, M9, M12, M13, M14, M15, M16, M17, M18, M20, M21, M22, M23, M24, M25)
61	0130P00077	THERMISTOR - INDOOR (M4, M7, M10, M14, M16, M21, M23)
71	44A282A	COMPRESSOR, RECHI
81	60130203	GROMMET - RECHI COMPRESSOR (QTY 3)
91	0163M00079	SHOULDER SCREW (QTY 3)
101	60100103	TERMINAL GASKET
111	60343503	OVERLOAD PROTECTOR
121	20406303	BASE PAN VALVE (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)
131	60100314	TERMINAL COVER - RECHI COMP
141	60100201	WASHER - RECHI COMPRESSOR
151	60100401	TERMINAL NUT - RECHI COMP
161	60500101	OLP SPRING - RECHI COMPRESSOR
201	0210P00106	CAPILLARY TUBE WELD
311	0130P00093	THERMISTOR
321	0130P00074	THERMISTOR
331	0130P00086	THERMISTOR - INDOOR COIL
NS	BT1392310	PLASTIC CLAMP, .1875 DIA (M4, M5, M8, M12, M17, M20, M24)

Expanded Model Nomenclature

M1 - PTH123G15AXXXAA
M2 - PTH123G25AXXXAA
M3 - PTH123G25CXXXAA
M4 - PTH123G25DRXXAA
M5 - PTH123G25DXXXAA
M6 - PTH123G25QXXXAA
M7 - PTH123G25RXXXAA
M8 - PTH123G25VXXXAA
M9 - PTH123G35AXXXAA
M10 - PTH123G35CRXXAA
M11 - PTH123G35CXXXAA
M12 - PTH123G35DXXXAA
M13 - PTH123G35PXXXAA
M14 - PTH123G35QRXXAA
M15 - PTH123G35QXXXAA
M16 - PTH123G35RXXXAA
M17 - PTH123G35VXXXAA
M18 - PTH123G50AXXXAA
M19 - PTH123G50CXXXAA
M20 - PTH123G50DXXXAA
M21 - PTH123G50QRXXAA
M22 - PTH123G50QXXXAA
M23 - PTH123G50RXXXAA
M24 - PTH123G50VXXXAA
M25 - PTH123G50WXXXAA