

PTH153G Package Terminal Heat Pump

PTH153G00CHXXCA
PTH153G15DXXXCA
PTH153G25AXXXCA
PTH153G25CRXXCA
PTH153G25CXXXCA
PTH153G25QXXXCA
PTH153G25VXXXCA
PTH153G35AXXXCA
PTH153G35CRXXCA
PTH153G35DXXXCA
PTH153G35PQXXCA
PTH153G35QXXXCA
PTH153G35RVXXCA
PTH153G35RXXXCA
PTH153G35VXXXCA
PTH153G50AXXXCA
PTH153G50CXXXCA
PTH153G50DRXXCA
PTH153G50QXXXCA
PTH153G50RXXXCA
PTH153G50VXXXCA



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This manual is to be used by qualified technicians only.

This manual replaces RP-A5006J.

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Important Information

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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:

Homeowner Support

Goodman Company, L.P.

19001 Kermier Road

Waller, Texas 77484

877-254-4729-Telephone

713-863-2382-Facsimile

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

International Division

Goodman Company, L.P.

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Waller, Texas 77484

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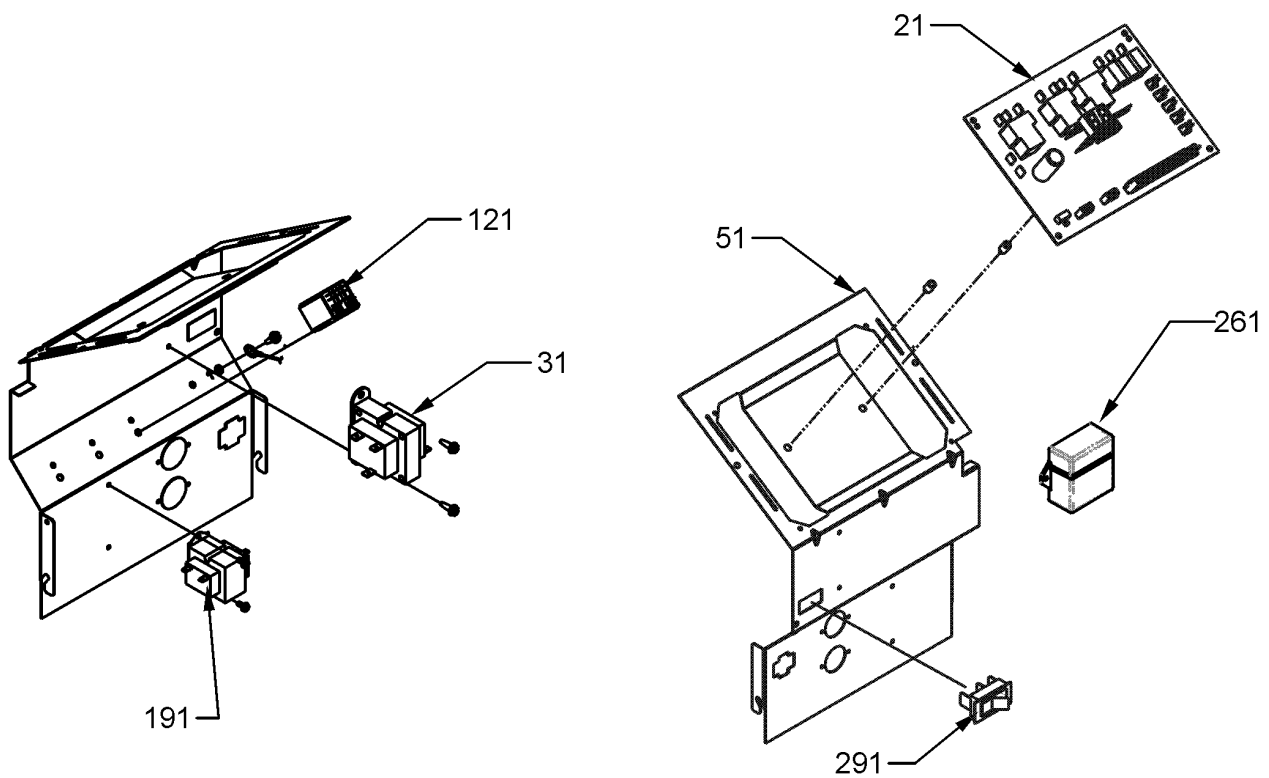
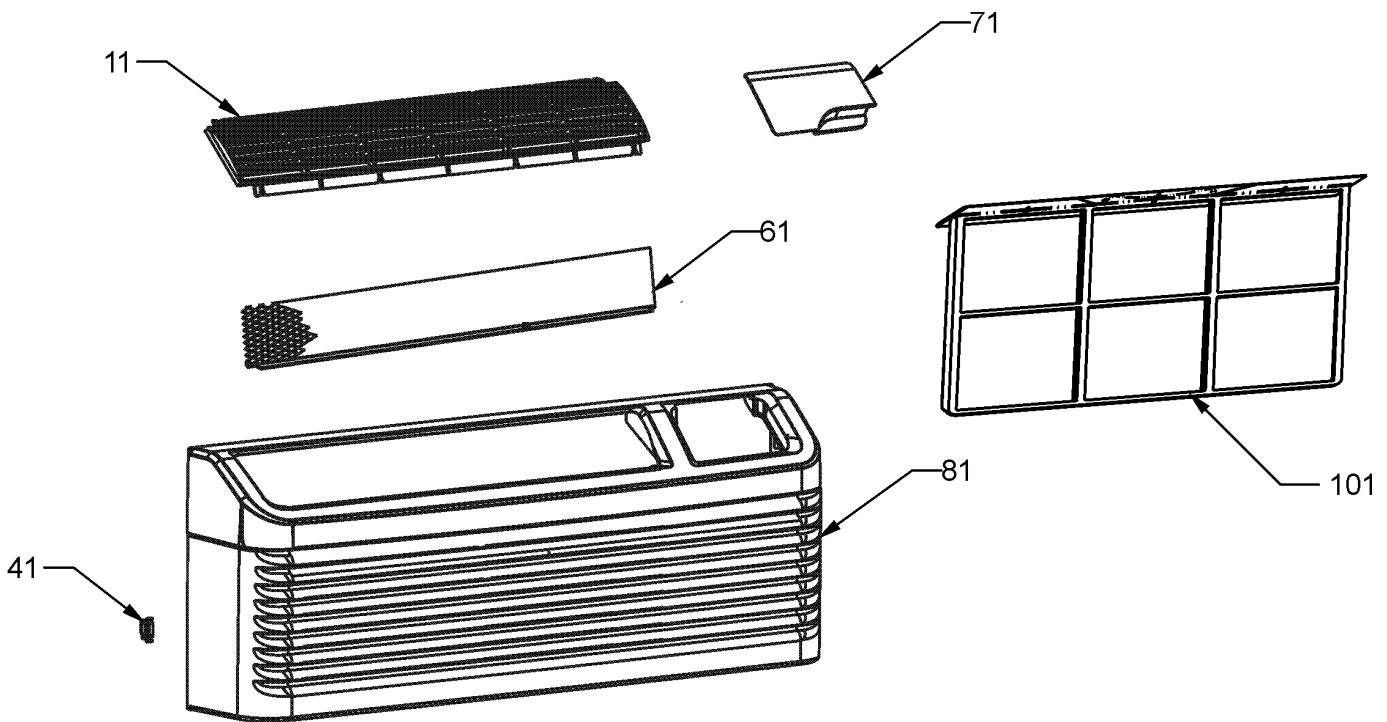
Functional Parts

Part

No: Description:

		Expanded Model Nomenclature
20406303	BASE PAN VALVE	M1 - PTH153G00CHXXCA
CAP020000440RP	CAPACITOR 2/440V	M2 - PTH153G15DXXXCA
CAP050300450CS	CAPACITOR 5/30/450V/DUAL RD	M3 - PTH153G25AXXXCA
0163P00023	CONDENSATE PUMP (M11)	M4 - PTH153G25CRXXCA
RSKP0012	CONTROL BOARD M70	M5 - PTH153G25CXXXCA
RSKP0015	CONTROL PANEL COVER AND MEMBRANE	M6 - PTH153G25QXXXCA
0130P00112	CORD,250VAC,15A (LCD) (M1, M2, M3, M4, M5, M6, M7)	M7 - PTH153G25VXXXCA
0130P00115	CORD,250VAC,20A (LCD) (M8, M9, M10, M11, M12, M13, M14, M15)	M8 - PTH153G35AXXXCA
0130P00118	CORD,250VAC,30A (LCD) (M16, M17, M18, M19, M20, M21)	M9 - PTH153G35CRXXCA
0131P00025	FAN MOTOR OUTDOOR	M10 - PTH153G35DXXXCA
0131P00036	FAN MOTOR, INDOOR	M11 - PTH153G35PQXXCA
0161P00055	FAN, CONDENSER	M12 - PTH153G35QXXXCA
0275P00039	HEATER ASSY (M16, M17, M18, M19, M20, M21)	M13 - PTH153G35RVXXCA
0275P00038	HEATER ASSY (M8, M9, M10, M11, M12, M13, M14, M15)	M14 - PTH153G35RXXXCA
0275P00022	HEATER ASSY (M2)	M15 - PTH153G35VXXXCA
0275P00019	HEATER ASSY (M3, M4, M5, M6, M7)	M16 - PTH153G50AXXXCA
60343546	OVERLOAD PROTECTOR	M17 - PTH153G50CXXXCA
PCBCP140	PCB, CONTROL, D70 (M2, M7, M10, M13, M15, M18, M21)	M18 - PTH153G50DRXXCA
0130P00137	POWER VENT MOTOR (M2, M7, M10, M13, M15, M18, M21)	M19 - PTH153G50QXXXCA
50A362Q	RECHI COMPRESSOR	M20 - PTH153G50RXXXCA
0151P00000	REVERSING VALVE ASSY-230V	M21 - PTH153G50VXXXCA
0130P00022	REVERSING VALVE COIL	
0130M00181	SPDT RELAY (M1)	
0130M00169	SWITCH, HIGH PRESS	
802007090	TERMINAL BOARD	
0130P00074	THERMISTOR	
0130P00130	THERMISTOR (M2, M3, M4, M5, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)	
0130P00134	THERMISTOR - DISCHARGE	
0130P00077	THERMISTOR - INDOOR (M4, M9, M13, M14, M18, M20)	
0130P00086	THERMISTOR - INDOOR COIL	
0130P00098	THERMISTOR - OUTDOOR AMBIENT (M4, M9, M11, M13, M14, M18, M20)	
0130M00150	Trans.,40VA, 240V/208V to 120V (M11)	
0130M00329	TRANSFORMER 20VA 60HZ (M2, M3, M4, M5, M6, M7, M8, M9, M10, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)	
0130M00149	TRANSFORMER 240V/208V TO 24V, 40VA (M1, M2, M7, M10, M11, M13, M15, M18, M21)	
0150P00004	WHEEL, BLOWER	

Control Panel / Front Assembly



Control Panel / Front Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

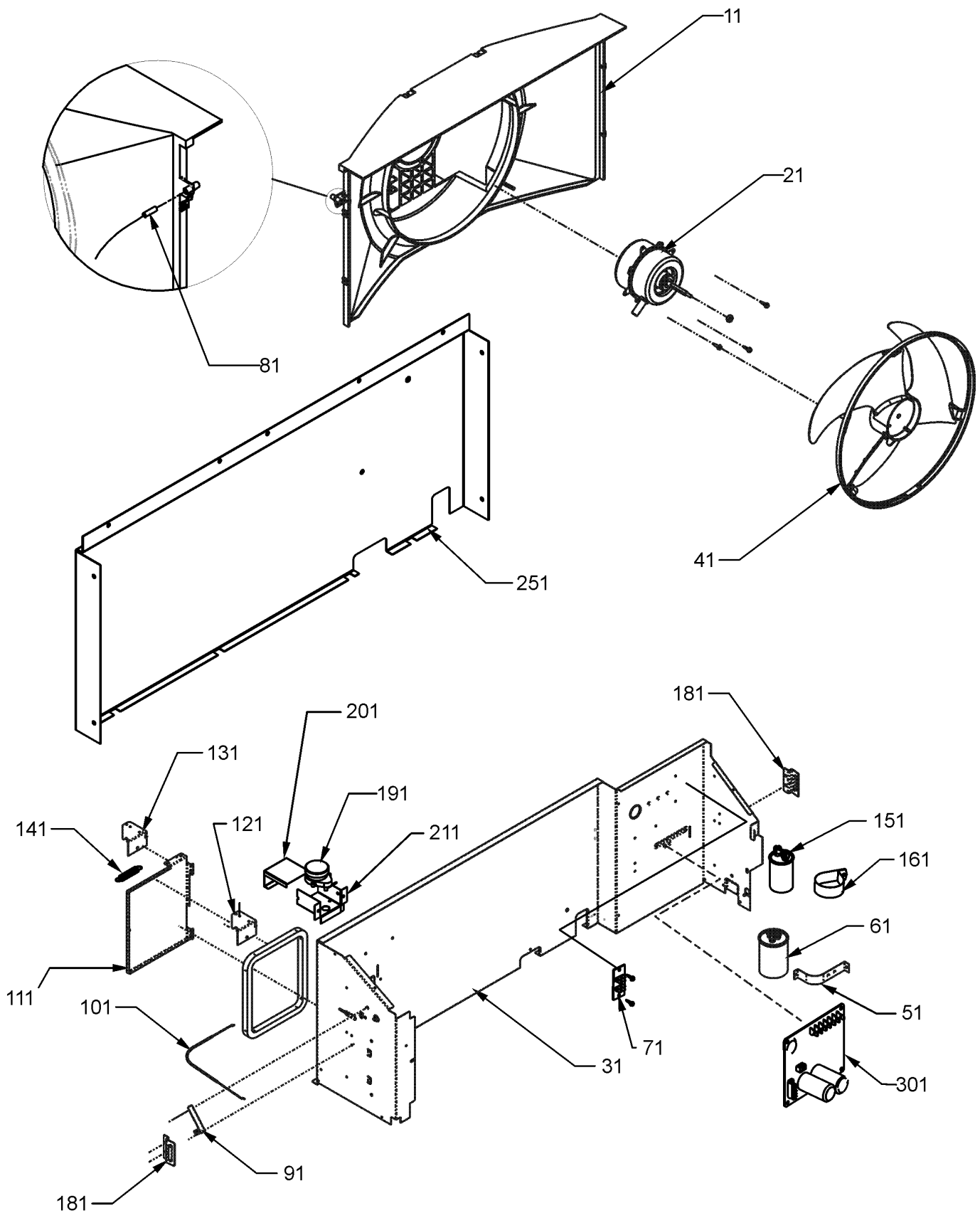
Image 1:

11	0161P00048	FRONT, LOUVERS DISCHARGE (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
21	RSKP0012	CONTROL BOARD M70
31	0130M00150	Trans.,40VA, 240V/208V to 120V (M11)
31	0130M00329	TRANSFORMER 20VA 60HZ (M2, M3, M4, M5, M6, M7, M8, M9, M10, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
41	0163P00025	CLIP (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
51	0121P00130	PANEL, CONTROL
61	0121P00073	SCREEN, DISCHARGE (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
71	0261P00003	DOOR ASSY -AMANA- (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
81	0261P00011	FRONT ASSY (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
101	0161P00035	FILTER, RACK (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
121	0130M00181	SPDT RELAY (M1)
191	0130M00149	TRANSFORMER 240V/208V TO 24V, 40VA (M1, M2, M7, M10, M11, M13, M15, M18, M21)
261	0130P00104	ANTENNA (DIGITENNA) (M4, M9, M13, M14, M18, M20)
291	B1337701	PADDLE SWITCH (M2, M7, M10, M13, M15, M18, M21)
NS	PCBCP140	PCB, CONTROL, D70 (M2, M7, M10, M13, M15, M18, M21)

Expanded Model Nomenclature

M1 - PTH153G00CHXXCA
M2 - PTH153G15DXXXCA
M3 - PTH153G25AXXXCA
M4 - PTH153G25CRXXCA
M5 - PTH153G25CXXXCA
M6 - PTH153G25QXXXCA
M7 - PTH153G25VXXXCA
M8 - PTH153G35AXXXCA
M9 - PTH153G35CRXXCA
M10 - PTH153G35DXXXCA
M11 - PTH153G35PQXXCA
M12 - PTH153G35QXXXCA
M13 - PTH153G35RVXXCA
M14 - PTH153G35RXXXCA
M15 - PTH153G35VXXXCA
M16 - PTH153G50AXXXCA
M17 - PTH153G50CXXXCA
M18 - PTH153G50DRXXCA
M19 - PTH153G50QXXXCA
M20 - PTH153G50RXXXCA
M21 - PTH153G50VXXXCA

Condenser Fan / Partition Assembly



Condenser Fan / Partition Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

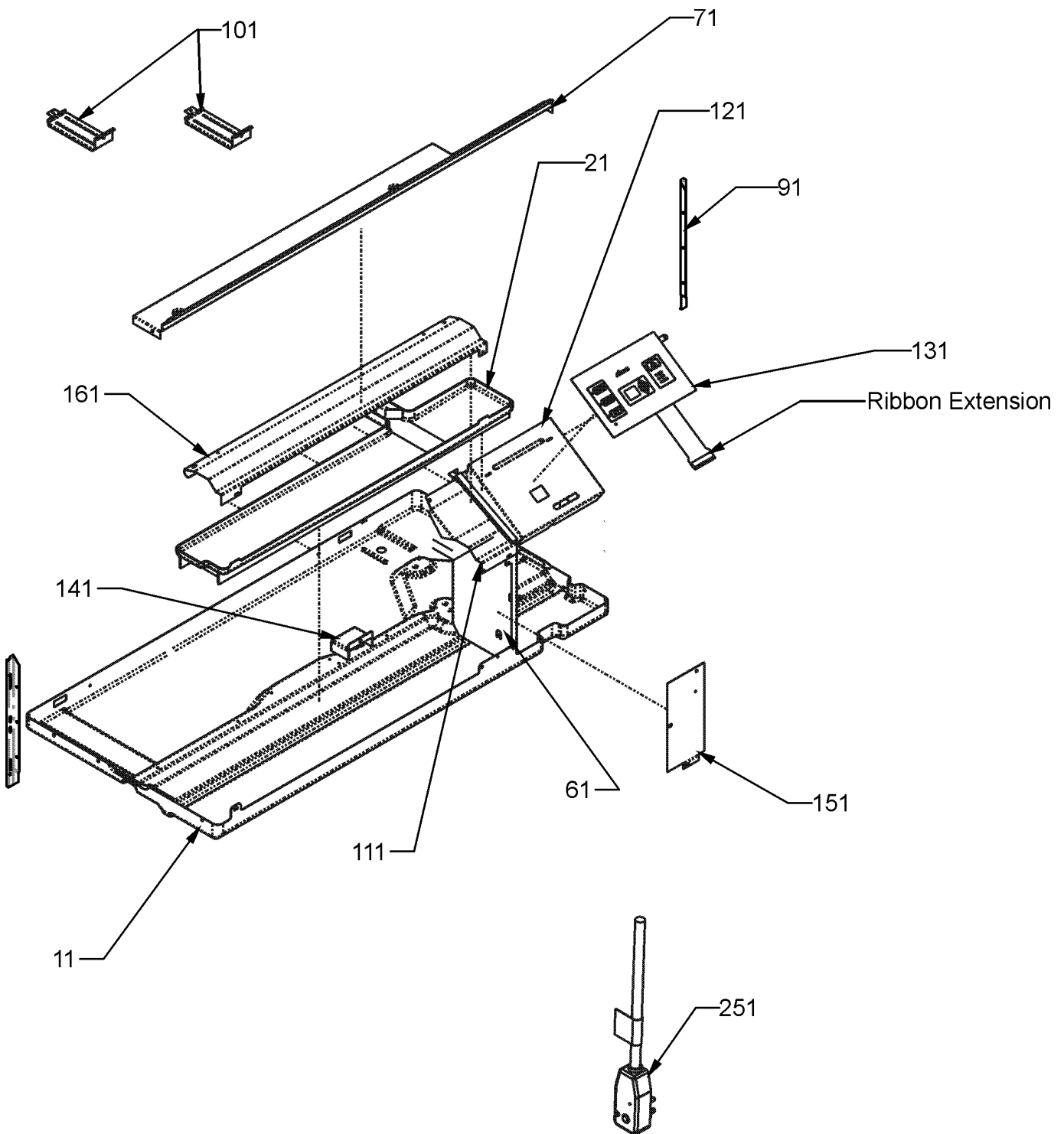
Image 1:

11	0161P00053	SHROUD, CONDENSER
21	0131P00025	FAN MOTOR OUTDOOR
31	0121P00093	PANEL-PARTITION (M6, M11, M12, M19)
31	0121P00108NG	PANEL-PARTITION (M1, M2, M3, M4, M5, M7, M8, M9, M10, M13, M14, M15, M16, M17, M18, M20, M21)
41	0161P00055	FAN, CONDENSER
51	C6300502	CAPACITOR STRAP
61	CAP050300450CS	CAPACITOR 5/30/450V/DUAL RD
71	802007090	TERMINAL BOARD
81	0130P00098	THERMISTOR - OUTDOOR AMBIENT (M4, M9, M11, M13, M14, M18, M20)
91	11046302	LEVER ARM (M1, M3, M4, M5, M8, M9, M14, M16, M17, M20)
101	0163P00019	CABLE (M1, M3, M4, M5, M8, M9, M14, M16, M17, M20)
111	0121P00177NG	DOOR - PNT VENT PTC (M1, M2, M3, M4, M5, M7, M8, M9, M10, M13, M14, M15, M16, M17, M18, M20, M21)
121	0121P00079	BRACKET, VENT DOOR (M2, M7, M10, M13, M15, M18, M21)
131	0121P00072NG	BRACKET, VENT DOOR (M1, M3, M4, M5, M8, M9, M14, M16, M17, M20)
141	11166401	EXTENSION SPRING (M2, M7, M10, M13, M15, M18, M21)
151	CAP020000440RP	CAPACITOR 2/440V
161	0163P00029	CAPACITOR CLAMP
181	11191703	PARTITION PANEL BRACKET (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
191	0130P00137	POWER VENT MOTOR (M2, M7, M10, M13, M15, M18, M21)
201	11166201	POWER VENT COVER BRACKET (M2, M7, M10, M13, M15, M18, M21)
211	11166101	POWER VENT MOTOR BRACKET (M2, M7, M10, M13, M15, M18, M21)
251	0121P00174	PANEL - AUXILLIARY (M11)
251	0121P00091	PANEL-AUXILLIARY (M6, M12, M19)
NS	0163P00023	CONDENSATE PUMP (M11)
NS	0121P00077	CONDENSATE PUMP BRACKET (M11)
NS	0130M00178	DPDT RELAY (M11)

Expanded Model Nomenclature

M1 - PTH153G00CHXXCA
M2 - PTH153G15DXXXCA
M3 - PTH153G25AXXXCA
M4 - PTH153G25CRXXCA
M5 - PTH153G25CXXXCA
M6 - PTH153G25QXXXCA
M7 - PTH153G25VXXXCA
M8 - PTH153G35AXXXCA
M9 - PTH153G35CRXXCA
M10 - PTH153G35DXXXCA
M11 - PTH153G35PQXXCA
M12 - PTH153G35QXXXCA
M13 - PTH153G35RVXXCA
M14 - PTH153G35RXXXCA
M15 - PTH153G35VXXXCA
M16 - PTH153G50AXXXCA
M17 - PTH153G50CXXXCA
M18 - PTH153G50DRXXCA
M19 - PTH153G50QXXXCA
M20 - PTH153G50RXXXCA
M21 - PTH153G50VXXXCA

Partition Assembly



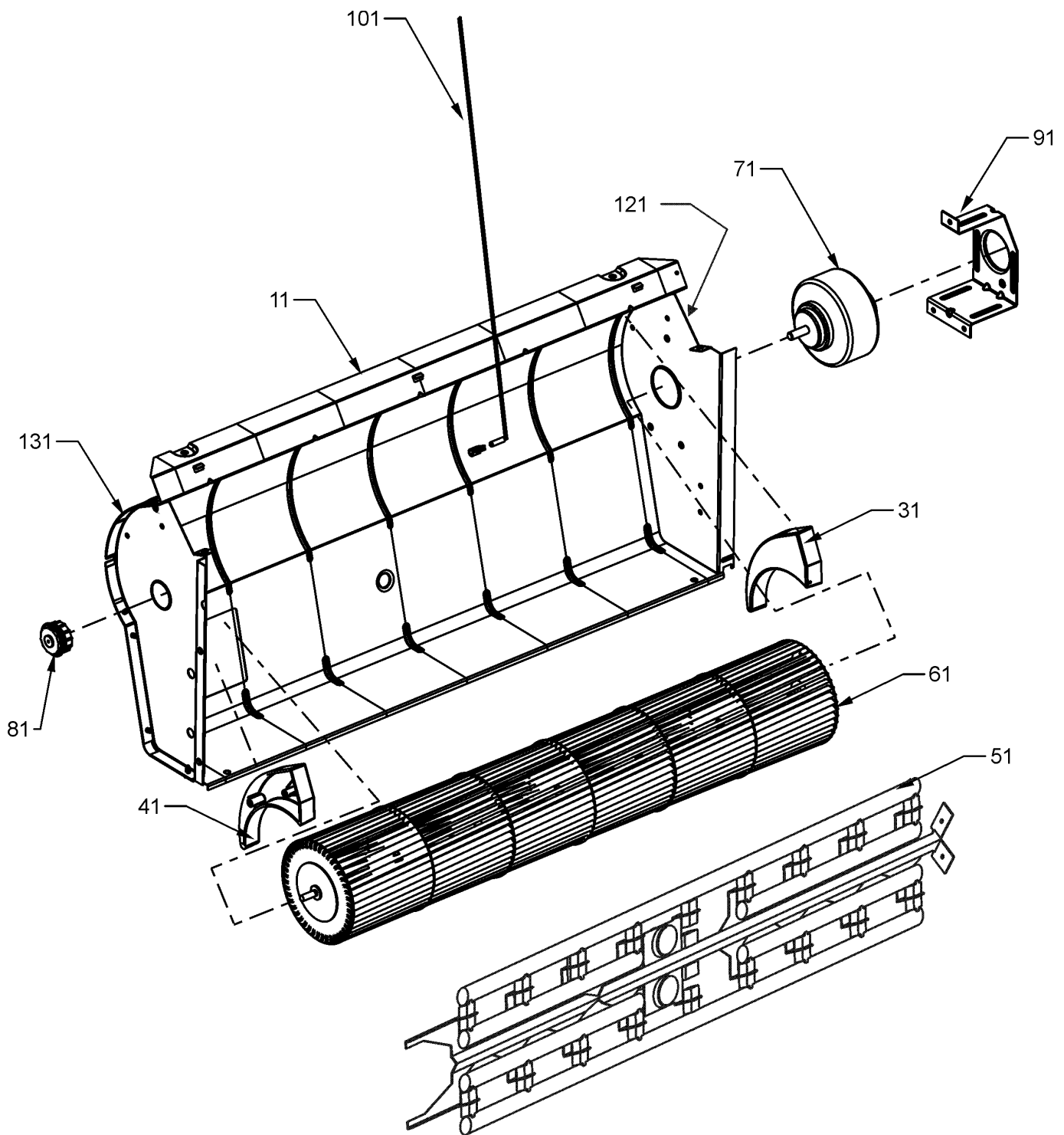
Partition Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0121P00175DG		BASE PAN (M2, M3, M6, M7, M8, M10, M11, M12, M13, M14, M15, M16, M18, M19, M20, M21)
11	0121P00175NG		BASE PAN (M1, M4, M5, M9, M17)
21	0161P00044		PLASTIC-DRAIN PAN
61	20403301		MID PARTITION PANEL
71	0121P00063NG		TOP, PARTITION PANEL
91	0121P00198		SEAL-R SIDE PTC
101	0121P00071NG		BRACE, TIE (M1, M4, M5, M9, M17)
111	0121P00070DG		COVER, MOTOR
121	0121P00129		COVER-CONTROL PANEL
131	RSKP0015		CONTROL PANEL COVER AND MEMBRANE
141	0161P00016		PLASTIC-HOOD
151	20410801		ACCESS COVER
161	0121P00061DG		CUTOFF-SCROLL DG
251	0130P00112		CORD,250VAC,15A (LCD) (M1, M2, M3, M4, M5, M6, M7)
251	0130P00115		CORD,250VAC,20A (LCD) (M8, M9, M10, M11, M12, M13, M14, M15)
251	0130P00118		CORD,250VAC,30A (LCD) (M16, M17, M18, M19, M20, M21)
NS	0130P00109		MEMBRANE (CONTROL)

Expanded Model Nomenclature

M1 - PTH153G00CHXXCA
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 M3 - PTH153G25AXXXCA
 M4 - PTH153G25CRXXCA
 M5 - PTH153G25CXXXCA
 M6 - PTH153G25QXXXCA
 M7 - PTH153G25VXXXCA
 M8 - PTH153G35AXXXCA
 M9 - PTH153G35CRXXCA
 M10 - PTH153G35DXXXCA
 M11 - PTH153G35PQXXCA
 M12 - PTH153G35QXXXCA
 M13 - PTH153G35RVXXCA
 M14 - PTH153G35RXXXCA
 M15 - PTH153G35VXXXCA
 M16 - PTH153G50AXXXCA
 M17 - PTH153G50CXXXCA
 M18 - PTH153G50DRXXCA
 M19 - PTH153G50QXXXCA
 M20 - PTH153G50RXXXCA
 M21 - PTH153G50VXXXCA

Evaporator Blower / Heater Assembly



Evaporator Blower / Heater Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

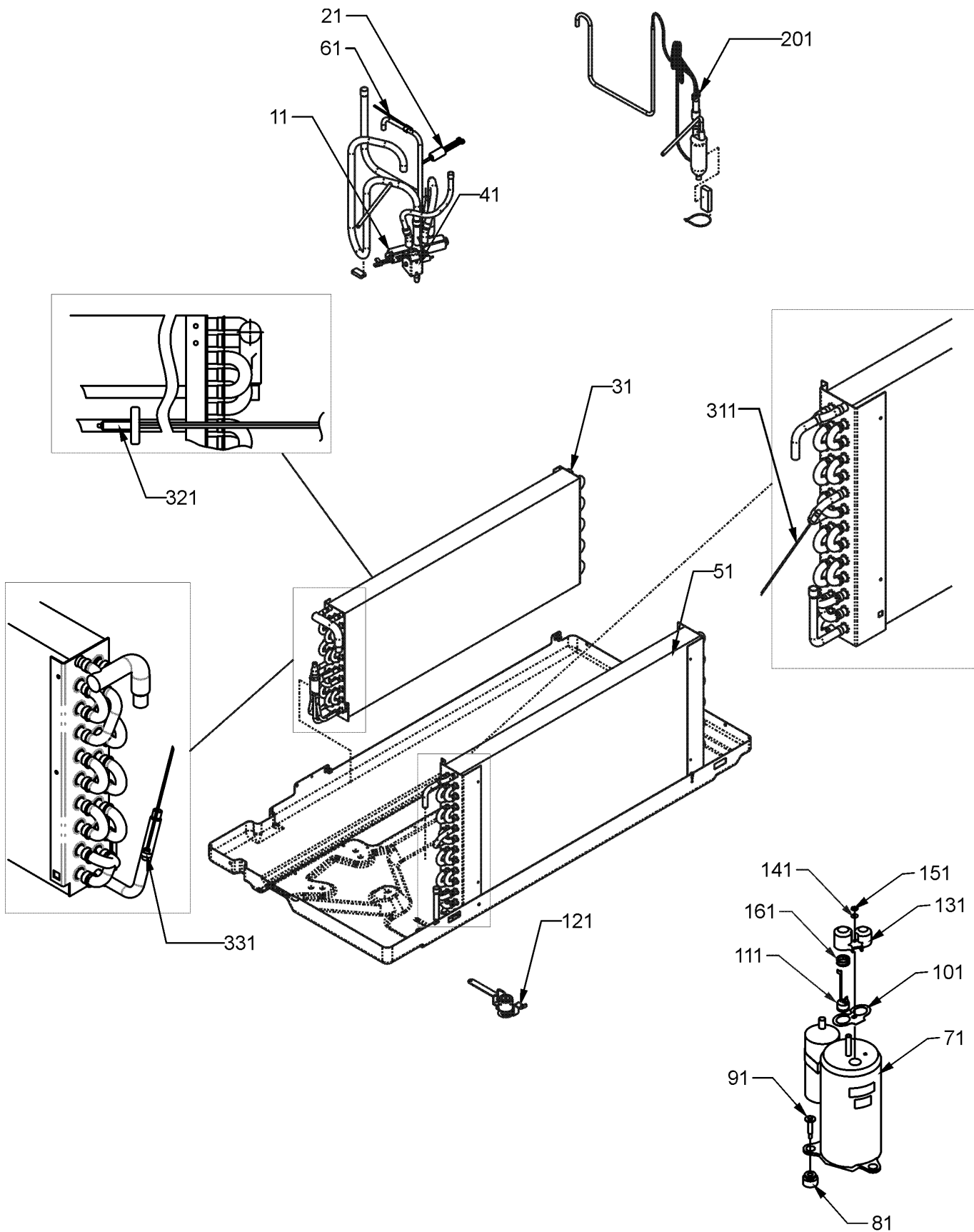
Image 1:

11	0121P00173DG	SCROLL
31	0161P00021	END CAP, RIGHT
41	0161P00022	END CAP, LEFT
51	0275P00019	HEATER ASSY (M3, M4, M5, M6, M7)
51	0275P00022	HEATER ASSY (M2)
51	0275P00038	HEATER ASSY (M8, M9, M10, M11, M12, M13, M14, M15)
51	0275P00039	HEATER ASSY (M16, M17, M18, M19, M20, M21)
61	0150P00004	WHEEL, BLOWER
71	0131P00036	FAN MOTOR, INDOOR
81	0163P00027	BEARING
91	0121P00048	BRACKET-MOTOR MOUNT
101	0130P00134	THERMISTOR - DISCHARGE
121	0121P00059DG	ENDPLATE-RH SCROLL
131	0121P00088DG	ENDPLATE- LH SCROLL

Expanded Model Nomenclature

M1 - PTH153G00CHXXCA
 M2 - PTH153G15DXXXCA
 M3 - PTH153G25AXXXCA
 M4 - PTH153G25CRXXCA
 M5 - PTH153G25CXXXCA
 M6 - PTH153G25QXXXCA
 M7 - PTH153G25VXXXCA
 M8 - PTH153G35AXXXCA
 M9 - PTH153G35CRXXCA
 M10 - PTH153G35DXXXCA
 M11 - PTH153G35PQXXCA
 M12 - PTH153G35QXXXCA
 M13 - PTH153G35RVXXCA
 M14 - PTH153G35RXXXCA
 M15 - PTH153G35VXXXCA
 M16 - PTH153G50AXXXCA
 M17 - PTH153G50CXXXCA
 M18 - PTH153G50DRXXCA
 M19 - PTH153G50QXXXCA
 M20 - PTH153G50RXXXCA
 M21 - PTH153G50VXXXCA

Coil / Compressor / Tubing Assembly



Coil / Compressor / Tubing Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

11	0151P00000	REVERSING VALVE ASSY-230V
21	0130M00169	SWITCH, HIGH PRESS
31	0202P00065	EVAP ASSY, 5/16, 3 ROW
41	0130P00022	REVERSING VALVE COIL
51	0201P00097	7 MM CONDENSER COIL ASSY (M2, M3, M7, M8, M10, M11, M12, M13, M14, M15, M16, M18, M19, M20, M21)
51	0201P00105NG	7MM CONDENSER ASSEMBLY PAINTED (M4, M5, M9, M17)
51	0201P00079	CONDENSER ASSY (M6)
51	0201P00083NG	CONDENSER ASSY PNT (M1)
61	0130P00077	THERMISTOR - INDOOR (M4, M9, M13, M14, M18, M20)
71	50A362Q	RECHI COMPRESSOR
81	60140209	GROMMET - RECHI COMPRESSOR (QTY 3)
91	M0253610	SHOULDER SCREW (QTY 3)
101	60100103	TERMINAL GASKET
111	60343546	OVERLOAD PROTECTOR
121	20406303	BASE PAN VALVE
131	60100314	TERMINAL COVER - RECHI COMP
141	60100201	WASHER - RECHI COMPRESSOR
151	60100401	TERMINAL NUT - RECHI COMP
161	60500101	OLP SPRING - RECHI COMPRESSOR
201	0210P00278	CAPILLARY TUBE WELD (M2, M3, M4, M5, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
311	0130P00130	THERMISTOR (M2, M3, M4, M5, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
321	0130P00074	THERMISTOR
331	0130P00086	THERMISTOR - INDOOR COIL
NS	BT1392310	PLASTIC CLAMP, .1875 DIA (M2, M7, M10, M13, M15, M18, M21)

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M6 - PTH153G25QXXXCA
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M9 - PTH153G35CRXXCA
M10 - PTH153G35DXXXCA
M11 - PTH153G35PQXXCA
M12 - PTH153G35QXXXCA
M13 - PTH153G35RVXXCA
M14 - PTH153G35RXXXCA
M15 - PTH153G35VXXXCA
M16 - PTH153G50AXXXCA
M17 - PTH153G50CXXXCA
M18 - PTH153G50DRXXCA
M19 - PTH153G50QXXXCA
M20 - PTH153G50RXXXCA
M21 - PTH153G50VXXXCA