

PTH123G Package Terminal Heat Pump

PTH123G15AXXXCA
PTH123G15DXXXCA
PTH123G25CRXXCA
PTH123G25CXXXCA
PTH123G25DRXXCA
PTH123G25DXXXCA
PTH123G25QRXXCA
PTH123G25QXXXCA
PTH123G25RXXCA
PTH123G25VXXCA
PTH123G35AXXXCA
PTH123G35CRXXCA
PTH123G35CVXXCA
PTH123G35DRXXCA
PTH123G35DXXXCA
PTH123G35PQXXCA
PTH123G35PXXCA
PTH123G35QRXXCA
PTH123G35RVXXCA
PTH123G35RXXCA
PTH123G35VXXCA
PTH123G50AXXXCA
PTH123G50CXXXCA
PTH123G50DRXXCA
PTH123G50DXXXCA
PTH123G50QRXXCA
PTH123G50QXXXCA
PTH123G50RXXCA
PTH123G50VXXCA
PTH123G50WXXCA



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This manual is to be used by qualified technicians only.

This manual replaces RP-A5004H.

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.

19001 Kermier Road

Waller, Texas 77484

713-861-2500-Telephone

713-863-2382-Facsimile

Functional Parts

Part

No:

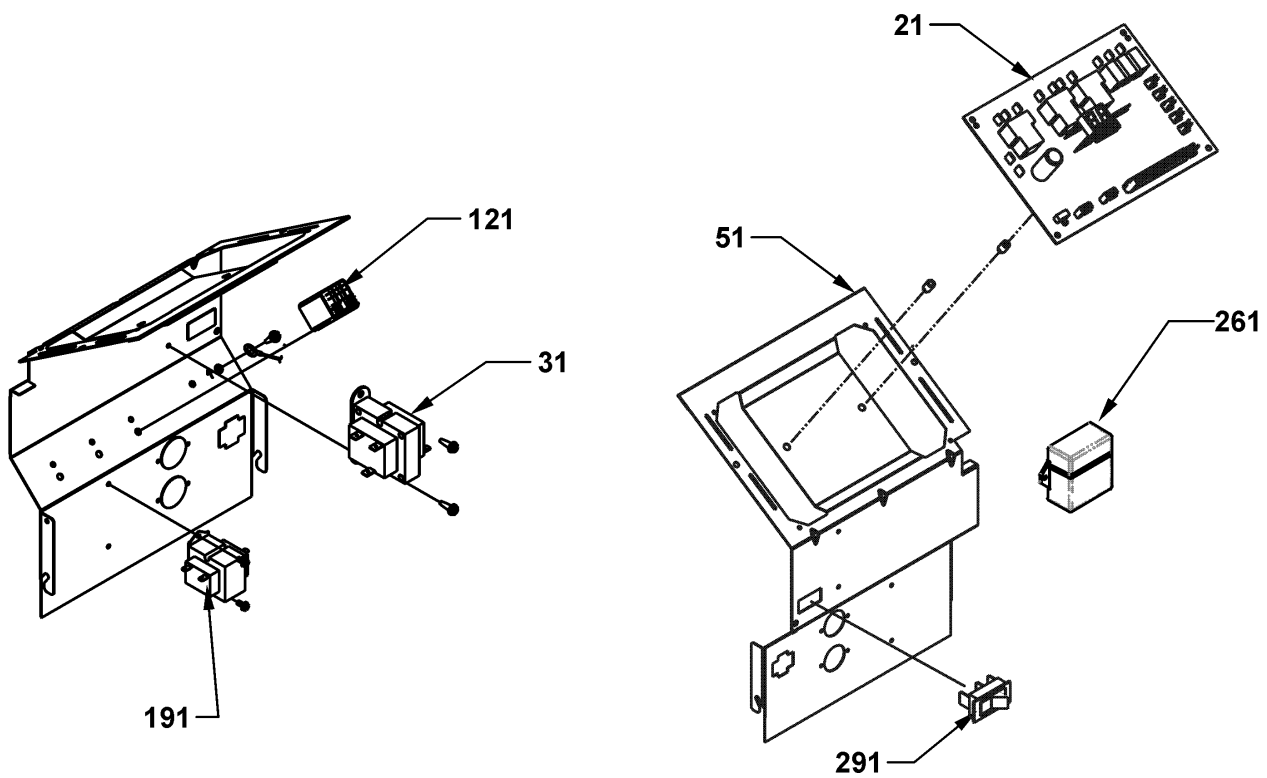
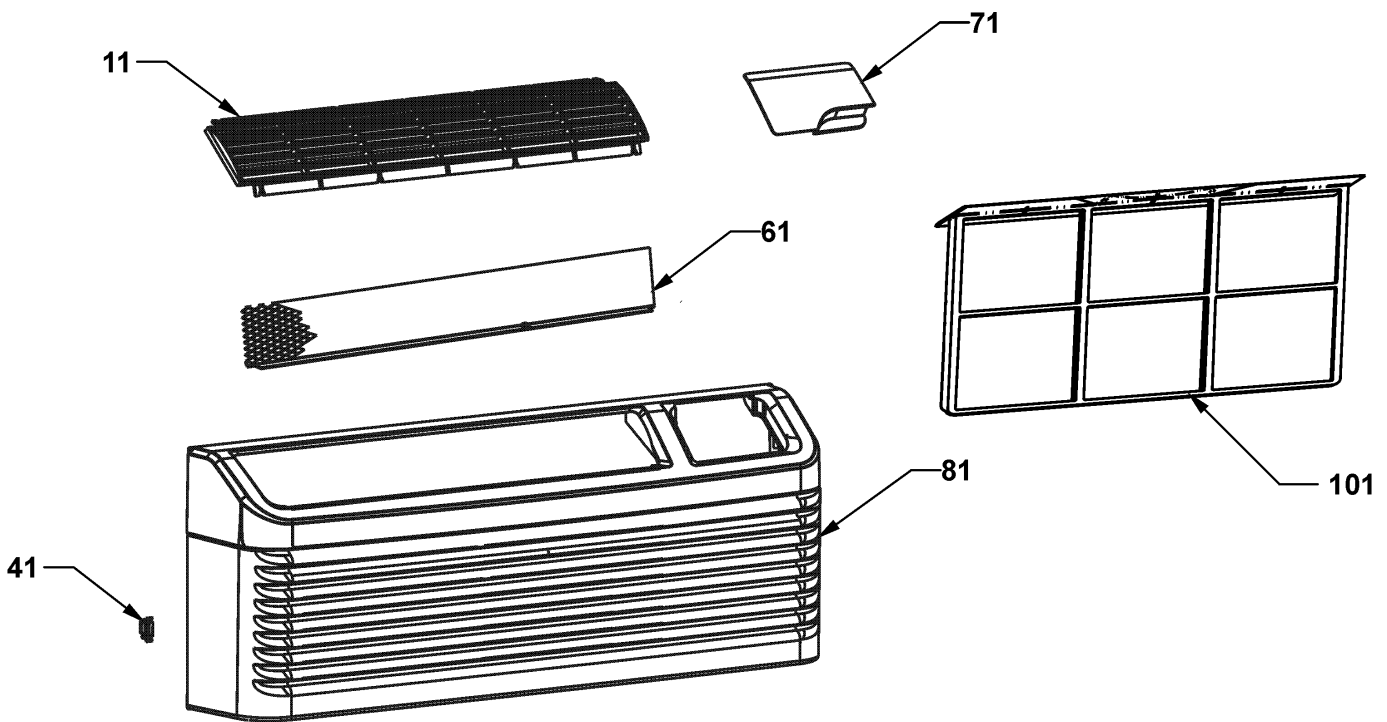
Description:

Expanded Model Nomenclature

20406303	BASE PAN VALVE (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30)
CAP020000440RP	CAPACITOR 2/440V
CAP030300450CS	CAPACITOR, 500V
44A282A	COMPRESSOR, RECHI
0163P00023	CONDENSATE PUMP (M16, M17)
0121P00077	CONDENSATE PUMP BRACKET (M16, M17)
RSKP0012	CONTROL BOARD M70
RSKP0015	CONTROL PANEL COVER AND MEMBRANE
0130P00112	CORD,250VAC,15A (LCD) (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10)
0130P00115	CORD,250VAC,20A (LCD) (M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
0130P00118	CORD,250VAC,30A (LCD) (M22, M23, M24, M25, M26, M27, M28, M29, M30)
0131P00035	FAN MOTOR, INDOOR (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
0131P00036	FAN MOTOR, INDOOR (M22, M23, M24, M25, M26, M27, M28, M29, M30)
0131P00031	FAN MOTOR, OUTDOOR
0161P00055	FAN, CONDENSER
0275P00039	HEATER ASSY (M22, M23, M24, M25, M26, M27, M28, M29, M30)
0275P00038	HEATER ASSY (M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
0275P00022	HEATER ASSY (M1, M2)
0275P00019	HEATER ASSY (M3, M4, M5, M6, M7, M8, M9, M10)
60343503	OVERLOAD PROTECTOR
PCBCP140	PCB, CONTROL, D70 (M2, M5, M6, M10, M13, M14, M15, M16, M17, M19, M21, M24, M25, M29)
0130P00137	POWER VENT MOTOR (M2, M5, M6, M10, M13, M14, M15, M19, M21, M24, M25, M29)
0151P00000	REVERSING VALVE ASSY-230V
0130P00022	REVERSING VALVE COIL
0130M00181	SPDT RELAY (M16, M17)
0130M00169	SWITCH, HIGH PRESS
802007090	TERMINAL BOARD
0130P00074	THERMISTOR
0130P00130	THERMISTOR
0130P00134	THERMISTOR - DISCHARGE
0130P00077	THERMISTOR - INDOOR (M3, M5, M7, M9, M12, M14, M18, M19, M20, M24, M26, M28)
0130P00086	THERMISTOR - INDOOR COIL
0130P00098	THERMISTOR - OUTDOOR AMBIENT (M3, M5, M7, M9, M12, M14, M18, M19, M20, M24, M26, M28)
0130M00152	TRANSFORMER (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30)
0130M00149	TRANSFORMER 240V/208V TO 24V, 40VA (M2, M5, M6, M10, M13, M14, M15, M16, M17, M19, M21, M24, M25, M29)

M1 - PTH123G15AXXXCA
M2 - PTH123G15DXXXCA
M3 - PTH123G25CRXXCA
M4 - PTH123G25CXXXCA
M5 - PTH123G25DRXXCA
M6 - PTH123G25DXXXCA
M7 - PTH123G25QRXXCA
M8 - PTH123G25QXXXCA
M9 - PTH123G25RXXXCA
M10 - PTH123G25VXXXCA
M11 - PTH123G35AXXXCA
M12 - PTH123G35CRXXCA
M13 - PTH123G35CVXXCA
M14 - PTH123G35DRXXCA
M15 - PTH123G35DXXXCA
M16 - PTH123G35PQXXCA
M17 - PTH123G35PXXXCA
M18 - PTH123G35QRXXCA
M19 - PTH123G35RVXXCA
M20 - PTH123G35RXXXCA
M21 - PTH123G35VXXXCA
M22 - PTH123G50AXXXCA
M23 - PTH123G50CXXXCA
M24 - PTH123G50DRXXCA
M25 - PTH123G50DXXXCA
M26 - PTH123G50QRXXCA
M27 - PTH123G50QXXXCA
M28 - PTH123G50RXXXCA
M29 - PTH123G50VXXXCA
M30 - PTH123G50WXXXCA

Control Panel / Front Assembly



Control Panel / Front Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

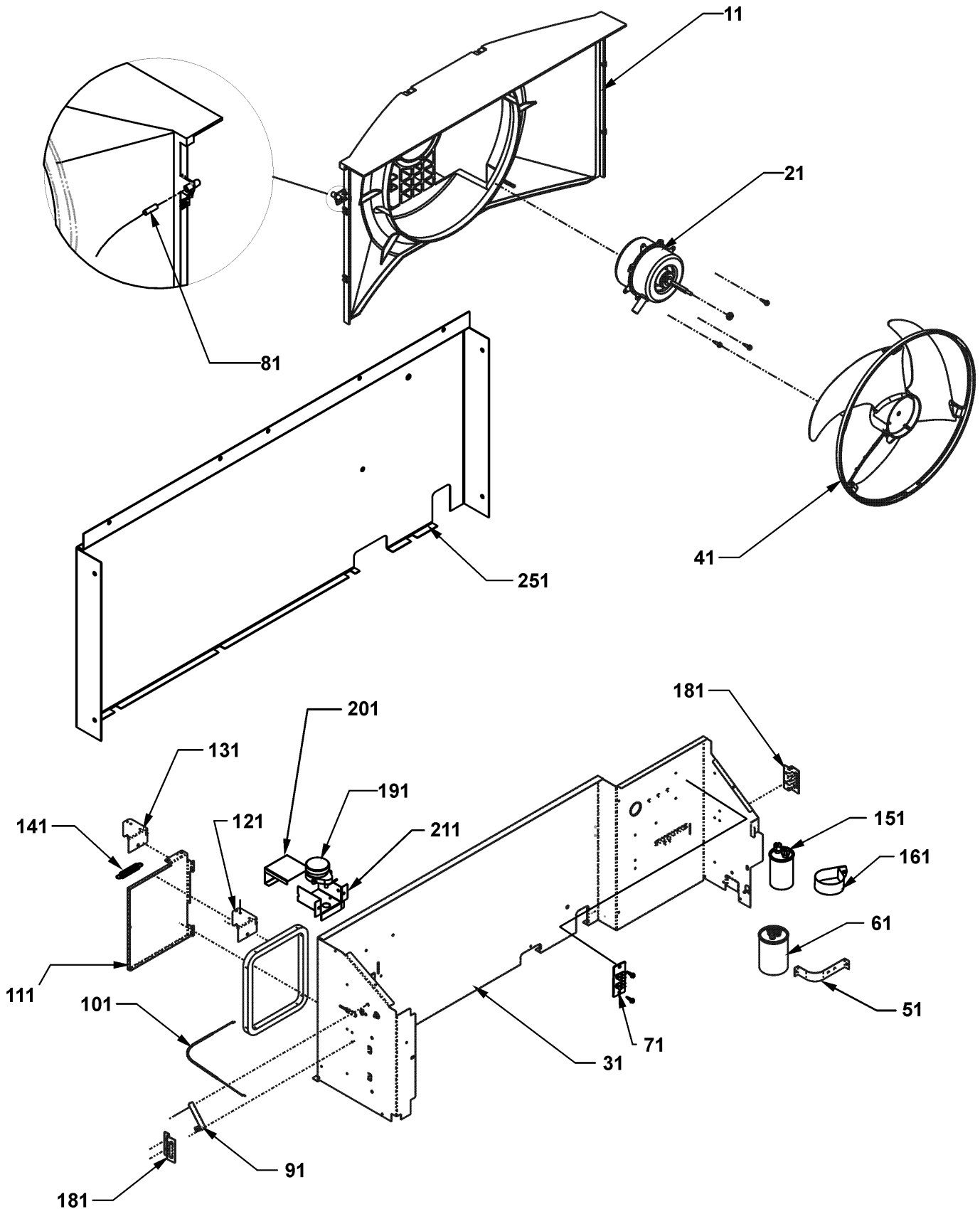
Image 1:

11	0161P00048	FRONT-DICHARGE LOUVERS
21	RSKP0012	CONTROL BOARD M70
31	0130M00152	TRANSFORMER (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30)
41	0163P00025	CLIP (QTY 2)
51	0121P00130	PANEL, CONTROL
61	0121P00073	SCREEN, DISCHARGE
71	0261P00003	DOOR ASSY -AMANA-
81	0261P00011	FRONT ASSY
101	0161P00035	FILTER, RACK (QTY 2)
121	0130M00181	SPDT RELAY (M16, M17)
191	0130M00149	TRANSFORMER 240V/208V TO 24V, 40VA (M2, M5, M6, M10, M13, M14, M15, M16, M17, M19, M21, M24, M25, M29)
261	0130P00104	ANTENNA (DIGITENNA) (M3, M5, M7, M9, M12, M14, M18, M19, M20, M24, M26, M28)
291	B1337701	PADDLE SWITCH (M2, M5, M6, M10, M13, M14, M15, M19, M21, M24, M25, M29)
NS	PCBCP140	PCB, CONTROL, D70 (M2, M5, M6, M10, M13, M14, M15, M16, M17, M19, M21, M24, M25, M29)

Expanded Model Nomenclature

M1 - PTH123G15AXXXCA
M2 - PTH123G15DXXXCA
M3 - PTH123G25CRXXCA
M4 - PTH123G25CXXXCA
M5 - PTH123G25DRXXCA
M6 - PTH123G25DXXXCA
M7 - PTH123G25QRXXCA
M8 - PTH123G25QXXXCA
M9 - PTH123G25RXXXCA
M10 - PTH123G25VXXXCA
M11 - PTH123G35AXXXCA
M12 - PTH123G35CRXXCA
M13 - PTH123G35CVXXCA
M14 - PTH123G35DRXXCA
M15 - PTH123G35DXXXCA
M16 - PTH123G35PQXXCA
M17 - PTH123G35PXXXCA
M18 - PTH123G35QRXXCA
M19 - PTH123G35RVXXCA
M20 - PTH123G35RXXXCA
M21 - PTH123G35VXXXCA
M22 - PTH123G50AXXXCA
M23 - PTH123G50CXXXCA
M24 - PTH123G50DRXXCA
M25 - PTH123G50DXXXCA
M26 - PTH123G50QRXXCA
M27 - PTH123G50QXXXCA
M28 - PTH123G50RXXXCA
M29 - PTH123G50VXXXCA
M30 - PTH123G50WXXXCA

Condenser Fan / Partition Assembly



Condenser Fan / Partition Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

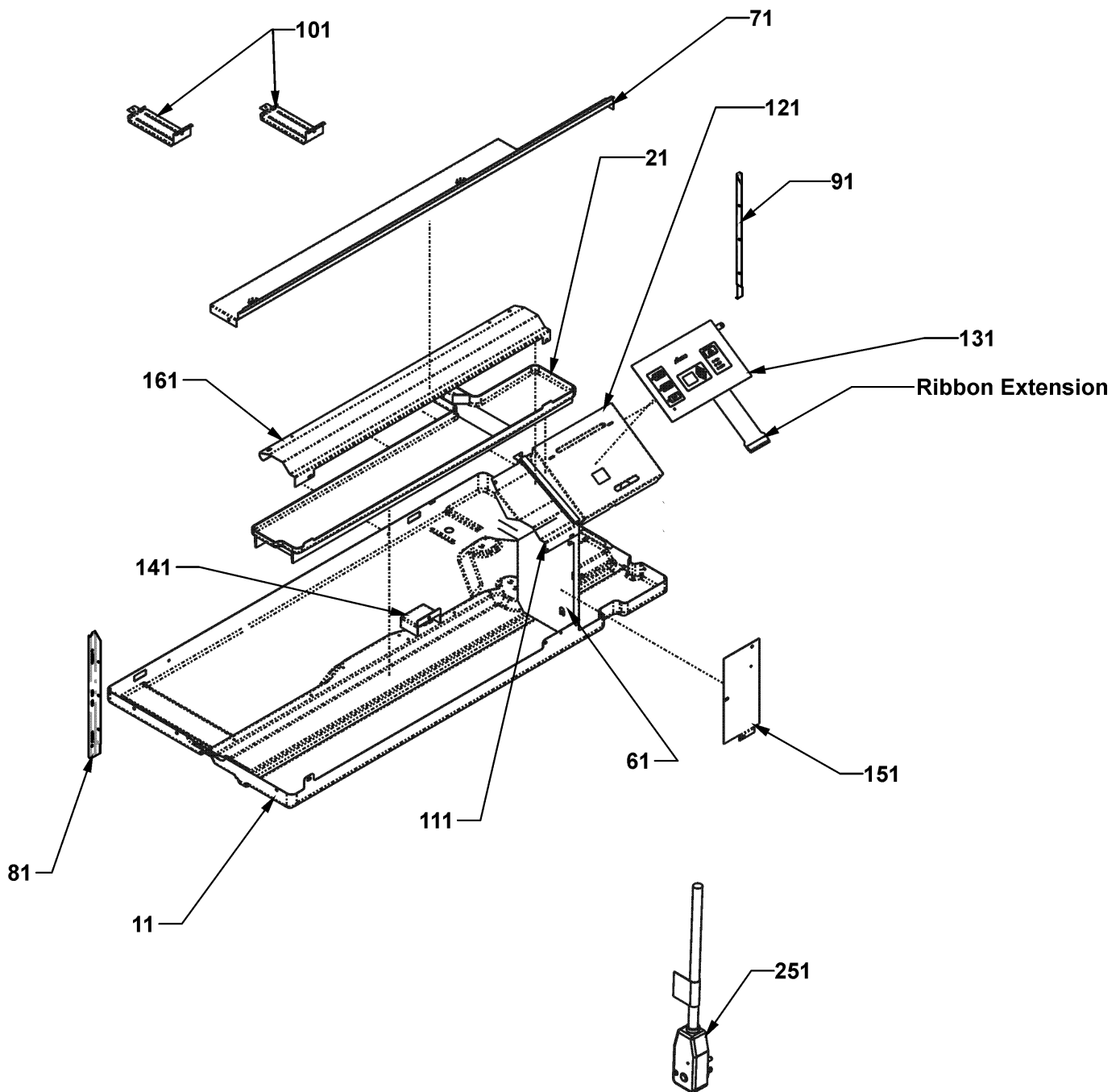
Image 1:

11	0161P00053	SHROUD, CONDENSER
21	0131P00031	FAN MOTOR, OUTDOOR
31	0121P00093	PANEL-PARTITION (M7, M8, M16, M18, M26, M27)
31	0121P00108DG	PANEL-PARTITION (M13)
31	0121P00108NG	PANEL-PARTITION (M1, M2, M3, M4, M5, M6, M9, M10, M11, M12, M14, M15, M17, M19, M20, M21, M22, M23, M24, M25, M28, M29, M30)
41	0161P00055	FAN, CONDENSER
51	C6300502	CAPACITOR STRAP
61	CAP030300450CS	CAPACITOR, 500V
71	802007090	TERMINAL BOARD
81	0130P00098	THERMISTOR - OUTDOOR AMBIENT (M3, M5, M7, M9, M12, M14, M18, M19, M20, M24, M26, M28)
91	11046302	LEVER ARM (M1, M3, M4, M9, M11, M12, M17, M20, M22, M23, M28, M30)
101	0163P00019	CABLE (M1, M3, M4, M9, M11, M12, M17, M20, M22, M23, M28, M30)
111	0121P00177	DOOR-VENT PTC (M1, M2, M3, M4, M5, M6, M9, M10, M11, M12, M13, M14, M15, M17, M19, M20, M21, M22, M23, M24, M25, M28, M29, M30)
121	0121P00079	BRACKET, VENT DOOR (M2, M5, M6, M10, M13, M14, M15, M19, M21, M24, M25, M29)
121	0121P00072	BRACKET, VENT DOOR-C (M1, M3, M4, M9, M11, M12, M17, M20, M22, M23, M28, M30)
131	0121P00180	BRKT, POWER VENT (M2, M5, M6, M10, M13, M14, M15, M19, M21, M24, M25, M29)
141	11166401	EXTENSION SPRING (M2, M5, M6, M10, M13, M14, M15, M19, M21, M24, M25, M29)
151	CAP020000440RP	CAPACITOR 2/440V
161	0163P00029	CAPACITOR CLAMP
181	11191703	PARTITION PANEL BRACKET (QTY 2)
191	0130P00137	POWER VENT MOTOR (M2, M5, M6, M10, M13, M14, M15, M19, M21, M24, M25, M29)
201	11166201	POWER VENT COVER BRACKET (M2, M5, M6, M10, M13, M14, M15, M19, M21, M24, M25, M29)
211	11166101	POWER VENT MOTOR BRACKET (M2, M5, M6, M10, M13, M14, M15, M19, M21, M24, M25, M29)
251	0121P00174	PANEL - AUXILLIARY (M16)
251	0121P00091	PANEL-AUXILLIARY (M7, M8, M18, M26, M27)
NS	0163P00023	CONDENSATE PUMP (M16, M17)
NS	0121P00077	CONDENSATE PUMP BRACKET (M16, M17)

Expanded Model Nomenclature

M1 - PTH123G15AXXXCA
M2 - PTH123G15DXXXCA
M3 - PTH123G25CRXXCA
M4 - PTH123G25CXXXCA
M5 - PTH123G25DRXXCA
M6 - PTH123G25DXXXCA
M7 - PTH123G25QRXXCA
M8 - PTH123G25QXXXCA
M9 - PTH123G25RXXXCA
M10 - PTH123G25VXXXCA
M11 - PTH123G35AXXXCA
M12 - PTH123G35CRXXCA
M13 - PTH123G35CVXXCA
M14 - PTH123G35DRXXCA
M15 - PTH123G35DXXXCA
M16 - PTH123G35PQXXCA
M17 - PTH123G35PXXXCA
M18 - PTH123G35QRXXCA
M19 - PTH123G35RVXXCA
M20 - PTH123G35RXXXCA
M21 - PTH123G35VXXXCA
M22 - PTH123G50AXXXCA
M23 - PTH123G50CXXXCA
M24 - PTH123G50DRXXCA
M25 - PTH123G50DXXXCA
M26 - PTH123G50QRXXCA
M27 - PTH123G50QXXXCA
M28 - PTH123G50RXXXCA
M29 - PTH123G50VXXXCA
M30 - PTH123G50WXXXCA

Partition Assembly



Partition Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

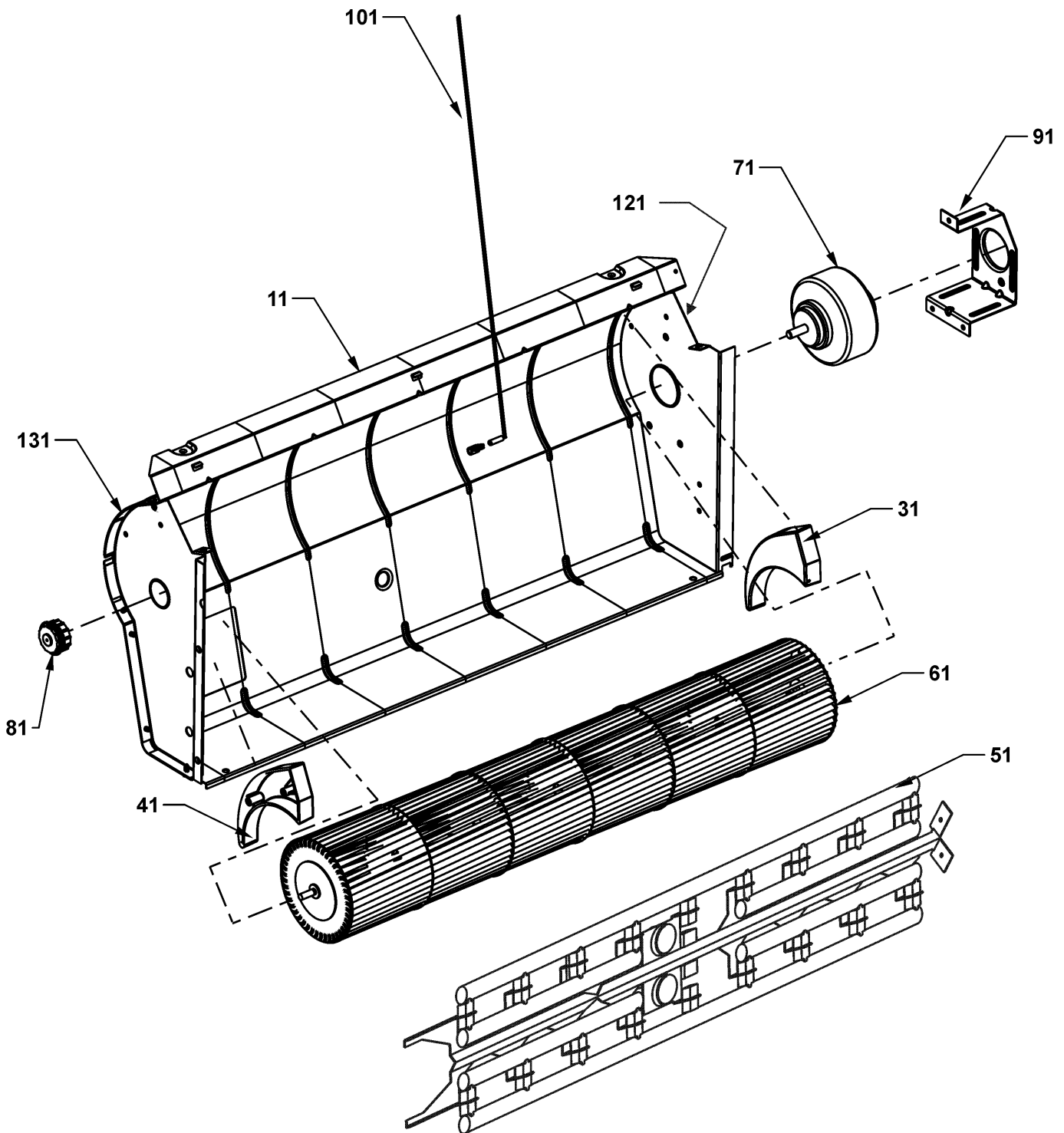
Image 1:

11	0121P00175DG	BASEPAN (M1, M2, M5, M6, M7, M8, M9, M10, M11, M14, M15, M16, M17, M18, M19, M20, M21, M22, M24, M25, M26, M27, M28, M29, M30)
11	0121P00175NG	BASEPAN (M3, M4, M12, M13, M23)
21	0161P00044	PLASTIC-DRAIN PAN
61	20403301	MID PARTITION PANEL
71	0121P00063NG	TOP, PARTITION PANEL
81	20416201	SEAL-L SIDE PTC
91	20416101	SEAL-R SIDE PTC
101	0121P00071NG	BRACE, TIE (QTY 2)
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, M8, M9, M10)
251	0130P00115	CORD,250VAC,20A (LCD) (M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
251	0130P00118	CORD,250VAC,30A (LCD) (M22, M23, M24, M25, M26, M27, M28, M29, M30)
NS	0130P00109	MEMBRANE (CONTROL)

Expanded Model Nomenclature

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M5 - PTH123G25DRXXCA
M6 - PTH123G25DXXXCA
M7 - PTH123G25QRXXCA
M8 - PTH123G25QXXXCA
M9 - PTH123G25RXXXCA
M10 - PTH123G25VXXXCA
M11 - PTH123G35AXXXCA
M12 - PTH123G35CRXXCA
M13 - PTH123G35CVXXCA
M14 - PTH123G35DRXXCA
M15 - PTH123G35DXXXCA
M16 - PTH123G35PQXXCA
M17 - PTH123G35PXXXCA
M18 - PTH123G35QRXXCA
M19 - PTH123G35RVXXCA
M20 - PTH123G35RXXXCA
M21 - PTH123G35VXXXCA
M22 - PTH123G50AXXXCA
M23 - PTH123G50CXXXCA
M24 - PTH123G50DRXXCA
M25 - PTH123G50DXXXCA
M26 - PTH123G50QRXXCA
M27 - PTH123G50QXXXCA
M28 - PTH123G50RXXXCA
M29 - PTH123G50VXXXCA
M30 - PTH123G50WXXXCA

Evaporator Blower / Heater Assembly



Evaporator Blower / Heater Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

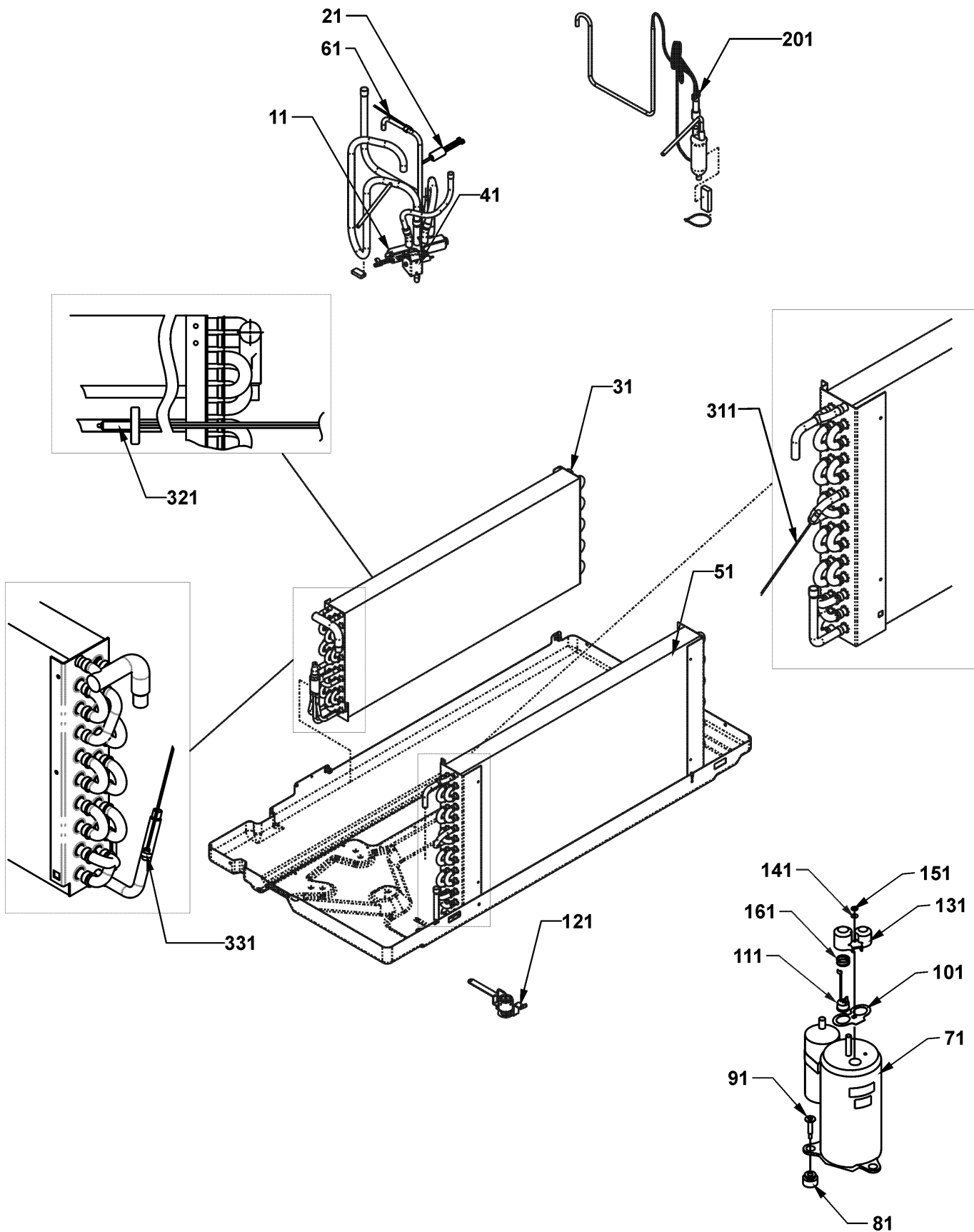
Image 1:

11	0121P00173DG	SCROLL
31	0161P00021	END CAP, RIGHT
41	0161P00022	END CAP, LEFT
51	0275P00019	HEATER ASSY (M3, M4, M5, M6, M7, M8, M9, M10)
51	0275P00022	HEATER ASSY (M1, M2)
51	0275P00038	HEATER ASSY (M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
51	0275P00039	HEATER ASSY (M22, M23, M24, M25, M26, M27, M28, M29, M30)
61	0150P00004	WHEEL, BLOWER
71	0131P00035	FAN MOTOR, INDOOR (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21)
71	0131P00036	FAN MOTOR, INDOOR (M22, M23, M24, M25, M26, M27, M28, M29, M30)
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 - PTH123G15AXXXCA
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M3 - PTH123G25CRXXCA
M4 - PTH123G25CXXXCA
M5 - PTH123G25DRXXCA
M6 - PTH123G25DXXXCA
M7 - PTH123G25QRXXCA
M8 - PTH123G25QXXXCA
M9 - PTH123G25RXXXCA
M10 - PTH123G25VXXXCA
M11 - PTH123G35AXXXCA
M12 - PTH123G35CRXXCA
M13 - PTH123G35CVXXCA
M14 - PTH123G35DRXXCA
M15 - PTH123G35DXXXCA
M16 - PTH123G35PQXXCA
M17 - PTH123G35PXXXCA
M18 - PTH123G35QRXXCA
M19 - PTH123G35RVXXCA
M20 - PTH123G35RXXXCA
M21 - PTH123G35VXXXCA
M22 - PTH123G50AXXXCA
M23 - PTH123G50CXXXCA
M24 - PTH123G50DRXXCA
M25 - PTH123G50DXXXCA
M26 - PTH123G50QRXXCA
M27 - PTH123G50QXXXCA
M28 - PTH123G50RXXXCA
M29 - PTH123G50VXXXCA
M30 - PTH123G50WXXXCA

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	0201P00115	7MM COND ASSY 3 ROW (M1, M2, M5, M6, M7, M8, M9, M10, M11, M14, M15, M17, M18, M19, M20, M21, M22, M24, M25, M26, M27, M28, M29, M30)
51	0201P00104NG	7MM CONDENSER ASSEMBLY PAINTED (M3, M4, M12, M13, M23)
61	0130P00077	THERMISTOR - INDOOR (M3, M5, M7, M9, M12, M14, M18, M19, M20, M24, M26, M28)
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, M13, M14, M15, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30)
131	60100314	TERMINAL COVER - RECHI COMP
141	60100201	WASHER - RECHI COMPRESSOR
151	60100401	TERMINAL NUT - RECHI COMP
161	60500101	OLP SPRING - RECHI COMPRESSOR
201	0210P00255	CAPILLARY WELDMENT
311	0130P00130	THERMISTOR
321	0130P00074	THERMISTOR
331	0130P00086	THERMISTOR - INDOOR COIL
NS	BT1392310	PLASTIC CLAMP, .1875 DIA (M2, M5, M6, M10, M13, M14, M15, M19, M21, M24, M25, M29)

Expanded Model Nomenclature

M1 - PTH123G15AXXXCA
M2 - PTH123G15DXXXCA
M3 - PTH123G25CRXXCA
M4 - PTH123G25CXXXCA
M5 - PTH123G25DRXXCA
M6 - PTH123G25DXXXCA
M7 - PTH123G25QRXXCA
M8 - PTH123G25QXXXCA
M9 - PTH123G25RXXXCA
M10 - PTH123G25VXXXCA
M11 - PTH123G35AXXXCA
M12 - PTH123G35CRXXCA
M13 - PTH123G35CVXXCA
M14 - PTH123G35DRXXCA
M15 - PTH123G35DXXXCA
M16 - PTH123G35PQXXCA
M17 - PTH123G35PXXXCA
M18 - PTH123G35QRXXCA
M19 - PTH123G35RVXXCA
M20 - PTH123G35RXXXCA
M21 - PTH123G35VXXXCA
M22 - PTH123G50AXXXCA
M23 - PTH123G50CXXXCA
M24 - PTH123G50DRXXCA
M25 - PTH123G50DXXXCA
M26 - PTH123G50QRXXCA
M27 - PTH123G50QXXXCA
M28 - PTH123G50RXXXCA
M29 - PTH123G50VXXXCA
M30 - PTH123G50WXXXCA