

PTH123G Package Terminal Heat Pump

PTH123G00CHXXGA
PTH123G15AXXXGA
PTH123G15DXXGGA
PTH123G25AXXXGA
PTH123G25CQXXGA
PTH123G25CRXXGA
PTH123G25CXXGGA
PTH123G25DRXXGA
PTH123G25DXXGGA
PTH123G25QRXXGA
PTH123G25QXXGGA
PTH123G25RXXGGA
PTH123G25VXXGGA
PTH123G35AXXXGA
PTH123G35CQXXGA
PTH123G35CRXXGA
PTH123G35CVXXGA
PTH123G35CXXGGA
PTH123G35DRXXGA
PTH123G35DXXGGA
PTH123G35MXXGGA
PTH123G35PQXXGA
PTH123G35PXXGGA
PTH123G35QRXXGA
PTH123G35QXXGGA
PTH123G35RVXXGA
PTH123G35RXXGGA
PTH123G35VXXGGA
PTH123G50AXXXGA
PTH123G50CXXGGA



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This manual is to be used by qualified technicians only.

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

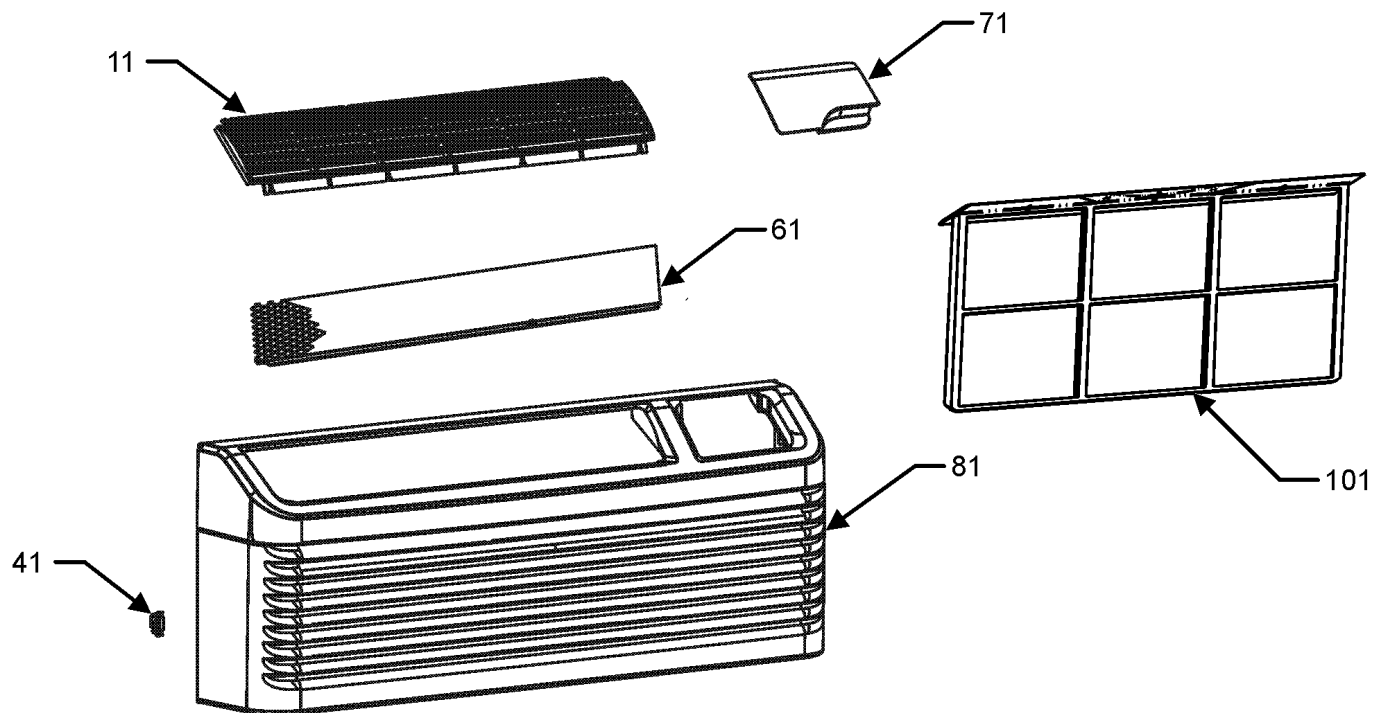
Part

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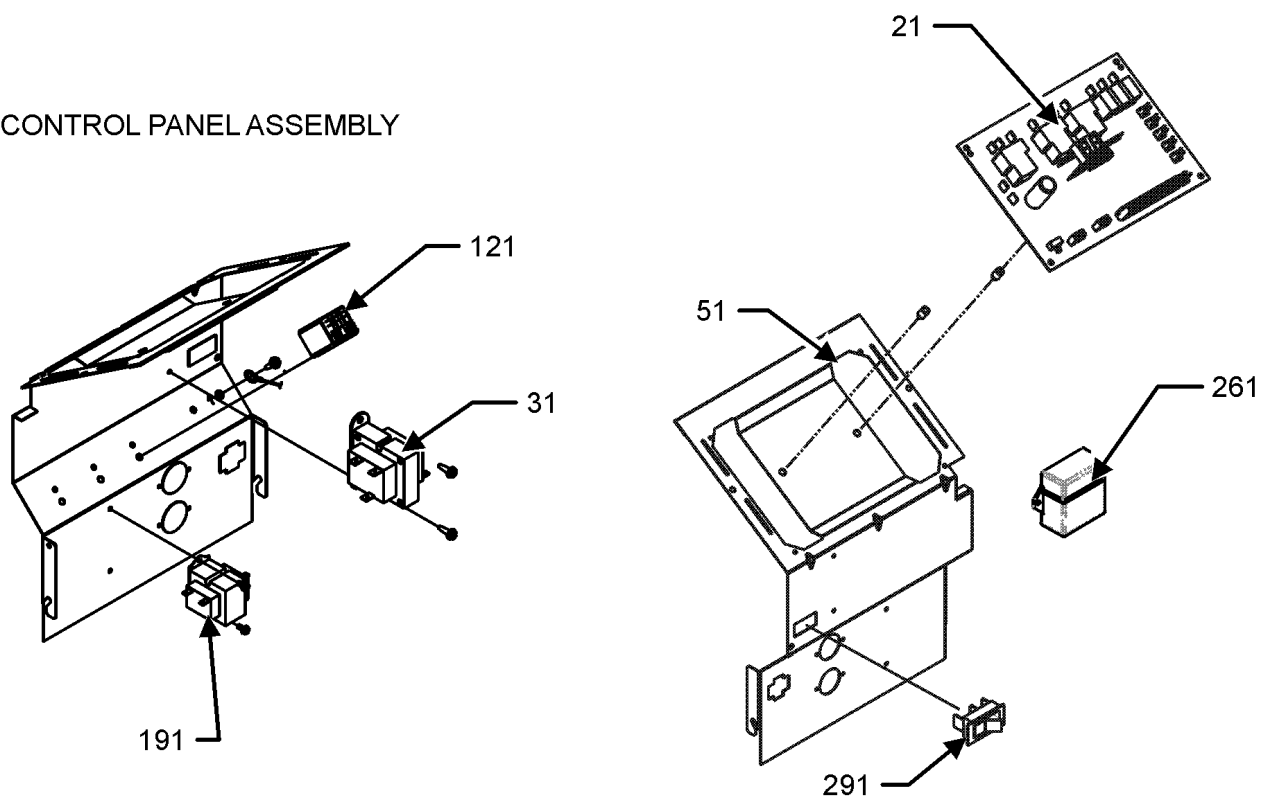
		Expanded Model Nomenclature
20406303	BASE PAN VALVE	M1 - PTH123G00CHXXGA
CAP020000440RP	CAPACITOR 2/440V	M2 - PTH123G15AXXXGA
CAP030300450CS	CAPACITOR, 500V	M3 - PTH123G15DXXXGA
44A272AL&FEKC	COMPRESSOR, RECHI	M4 - PTH123G25AXXXGA
0163P00023	CONDENSATE PUMP (M21, M22)	M5 - PTH123G25CQXXGA
0121P00077	CONDENSATE PUMP BRACKET (M21, M22)	M6 - PTH123G25CRXXGA
RSKP0012	CONTROL BOARD M70	M7 - PTH123G25CXXXGA
RSKP0015	CONTROL PANEL COVER AND MEMBRANE	M8 - PTH123G25DRXXGA
0130P00112	CORD,250VAC,15A (LCD) (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13)	M9 - PTH123G25DXXXGA
0130P00115	CORD,250VAC,20A (LCD) (M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27)	M10 - PTH123G25QRXXGA
0130P00118	CORD,250VAC,30A (LCD) (M28, M29)	M11 - PTH123G25QXXXGA
0131P00055	FAN MOTOR, INDOOR (M1, M28, M29)	M12 - PTH123G25RXXGA
0131P00054	FAN MOTOR, INDOOR (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27)	M13 - PTH123G25VXXGA
0131P00031	FAN MOTOR, OUTDOOR	M14 - PTH123G35AXXXGA
0161P00055	FAN, CONDENSER	M15 - PTH123G35CQXXGA
0275P00039	HEATER ASSY (M28, M29)	M16 - PTH123G35CRXXGA
0275P00038	HEATER ASSY (M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27)	M17 - PTH123G35CVXXGA
0275P00022	HEATER ASSY (M2, M3)	M18 - PTH123G35CXXXGA
0275P00019	HEATER ASSY (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13)	M19 - PTH123G35DRXXGA
0130P00133	HUMIDITY SENSOR (M3, M8, M9, M13, M17, M19, M20, M25, M27)	M20 - PTH123G35DXXXGA
60343503	OVERLOAD PROTECTOR	M21 - PTH123G35PQXXGA
PCBCP147	PCB, CONTROL, D70 (M3, M8, M9, M13, M17, M19, M20, M21, M22, M25, M27)	M22 - PTH123G35PXXXGA
0130P00137	POWER VENT MOTOR (M3, M8, M9, M13, M17, M19, M20, M25, M27)	M23 - PTH123G35QRXXGA
0151P00013	PTAC Reversing Valve Assy	M24 - PTH123G35QXXXGA
0130P00022	REVERSING VALVE COIL	M25 - PTH123G35RVXXGA
0130M00179	SPDT RELAY (M21, M22)	M26 - PTH123G35RXXGA
0130M00181	SPDT RELAY (M1)	M27 - PTH123G35VXXGA
0130M00169	SWITCH, HIGH PRESS	M28 - PTH123G50AXXXGA
802007090	TERMINAL BOARD	M29 - PTH123G50CXXXGA
0130P00164	THERMISTOR IAT BLACK	
0130P00159	THERMISTOR ICT RED	
0130P00134	THERMISTOR IDT YELLOW	
0130P00077	THERMISTOR IHD ORANGE (M6, M8, M9, M10, M12, M16, M19, M23, M25, M26)	
0130P00098	THERMISTOR OAT GREEN (M3, M6, M8, M9, M10, M12, M13, M16, M17, M19, M20, M21, M22, M23, M25, M26, M27)	
0130P00130	THERMISTOR OCT BLUE	
0130M00600	TRANS, 40VA, 240V/208V TO 120V (M21, M22)	
0130M00599	TRANSFMR,40VA,240V/208V TO 24V (M1, M3, M8, M9, M13, M17, M19, M20, M21, M22, M25, M27)	
0130M00341	TRANSFORMER 20VA 230V (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M23, M24, M25, M26, M27, M28, M29)	
0150P00005	WHEEL, BLOWER	

Front Panel / Control Board Assembly

FRONT PANEL ASSEMBLY



CONTROL PANEL ASSEMBLY

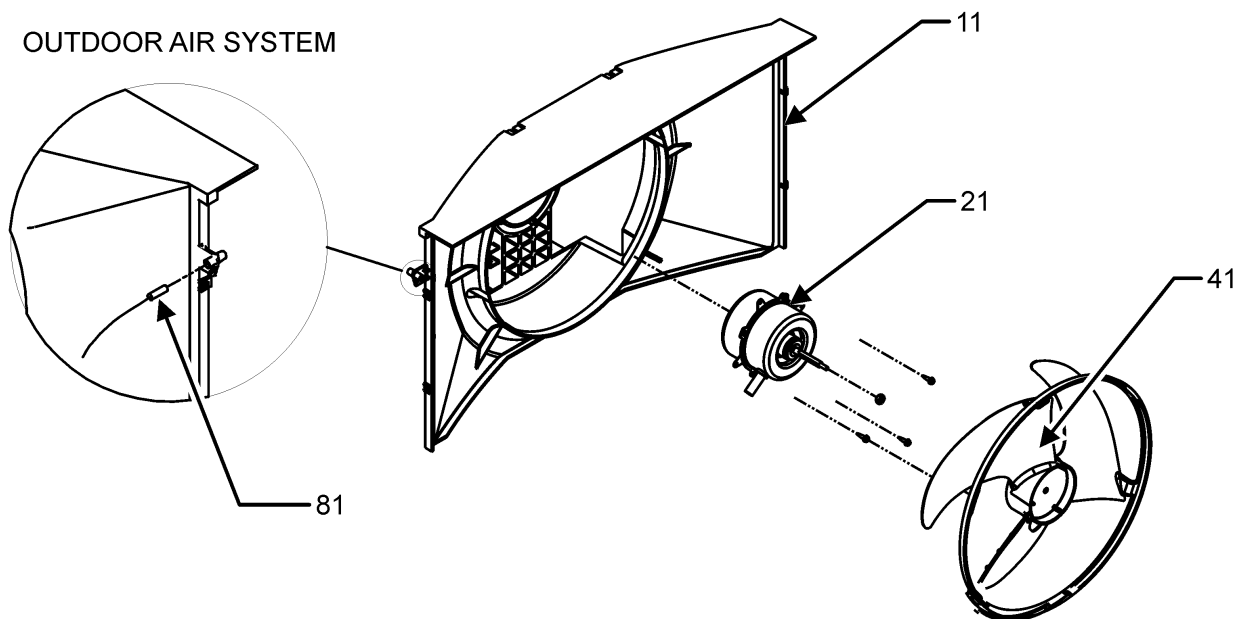


Front Panel / Control Board Assembly

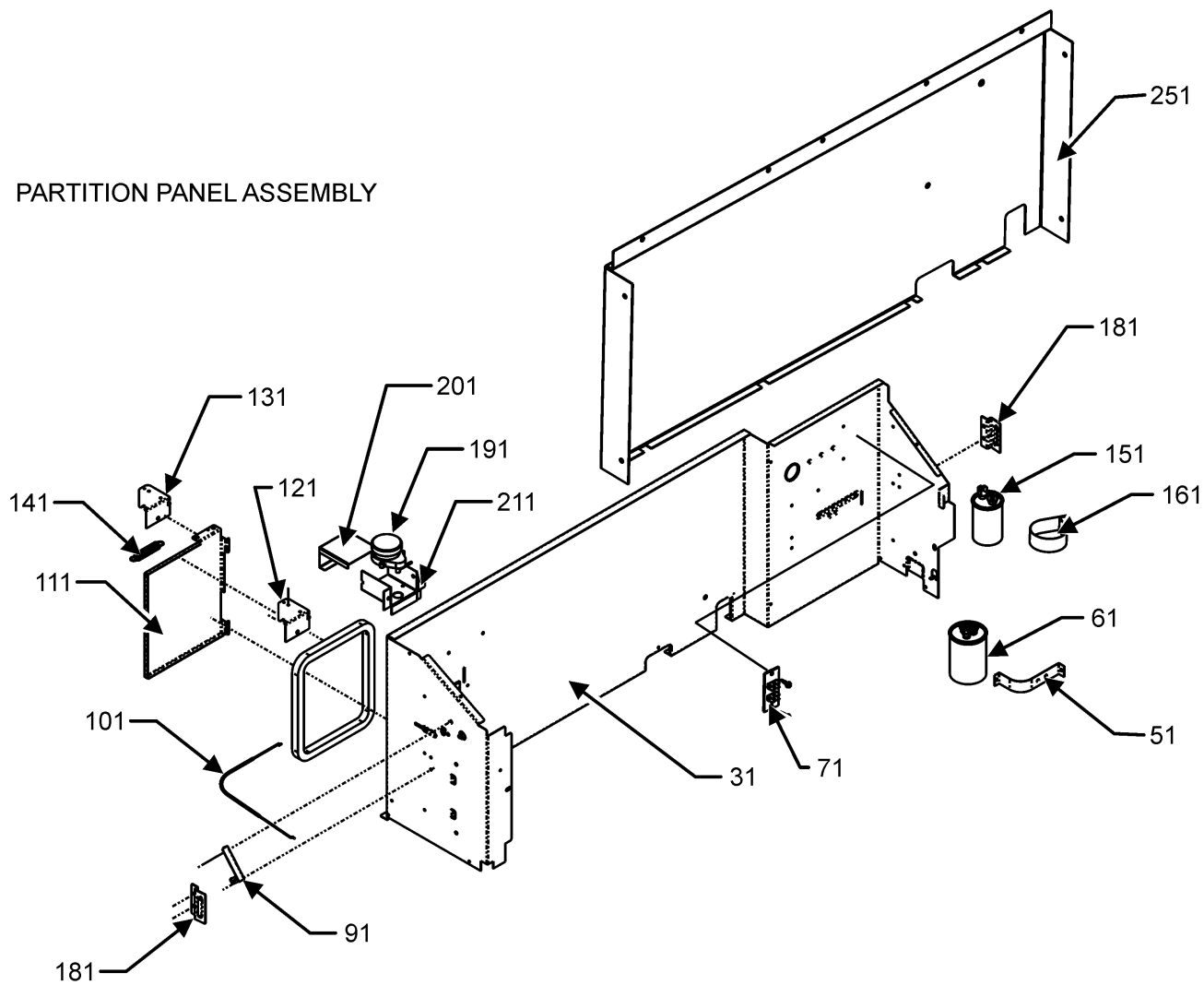
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:		Expanded Model Nomenclature	
11	0161P00048	FRONT, LOUVERS DISCHARGE (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29)	M1 - PTH123G00CHXXGA M2 - PTH123G15A XXXGA M3 - PTH123G15DXXXGA M4 - PTH123G25A XXXGA M5 - PTH123G25CQXXGA M6 - PTH123G25CRXXGA M7 - PTH123G25CXXXGA M8 - PTH123G25DRXXGA M9 - PTH123G25DXXXGA M10 - PTH123G25QRXXGA M11 - PTH123G25QXXXGA M12 - PTH123G25RXXXGA M13 - PTH123G25V XXXGA M14 - PTH123G35A XXXGA M15 - PTH123G35CQXXGA M16 - PTH123G35CRXXGA M17 - PTH123G35CVXXGA M18 - PTH123G35CXXXGA M19 - PTH123G35DRXXGA M20 - PTH123G35DXXXGA M21 - PTH123G35PQXXGA M22 - PTH123G35PXXXGA M23 - PTH123G35QRXXGA M24 - PTH123G35QXXXGA M25 - PTH123G35RVXXGA M26 - PTH123G35RXXXGA M27 - PTH123G35V XXXGA M28 - PTH123G50A XXXGA M29 - PTH123G50CXXXGA
21	RSKP0012	CONTROL BOARD M70	
31	0130M00599	TRANSFMR,40VA,240V/208V TO 24V (M1)	
31	0130M00341	TRANSFORMER 20VA 230V (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M23, M24, M25, M26, M27, M28, M29)	
41	0163P00025	CLIP (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29)	
51	0121P00130	PANEL, CONTROL	
61	0121P00194BL	SCREEN, DISCHARGE, PAINTED (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29)	
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, M22, M23, M24, M25, M26, M27, M28, M29)	
81	0261P00011	FRONT ASSY (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29)	
101	0161P00035	FILTER, RACK (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29)	
121	0130M00179	SPDT RELAY (M21, M22)	
121	0130M00181	SPDT RELAY (M1)	
191	0130M00600	TRANS, 40VA, 240V/208V TO 120V (M21, M22)	
191	0130M00599	TRANSFMR,40VA,240V/208V TO 24V (M3, M8, M9, M13, M17, M19, M20, M21, M22, M25, M27)	
261	0130P00104	ANTENNA (M6, M8, M9, M10, M12, M16, M19, M23, M25, M26)	
291	B1337701	PADDLE SWITCH (M3, M8, M9, M13, M17, M19, M20, M25, M27)	
NS	PCBCP147	PCB, CONTROL, D70 (M3, M8, M9, M13, M17, M19, M20, M21, M22, M25, M27)	

Outdoor Air System / Partition Panel

OUTDOOR AIR SYSTEM



PARTITION PANEL ASSEMBLY

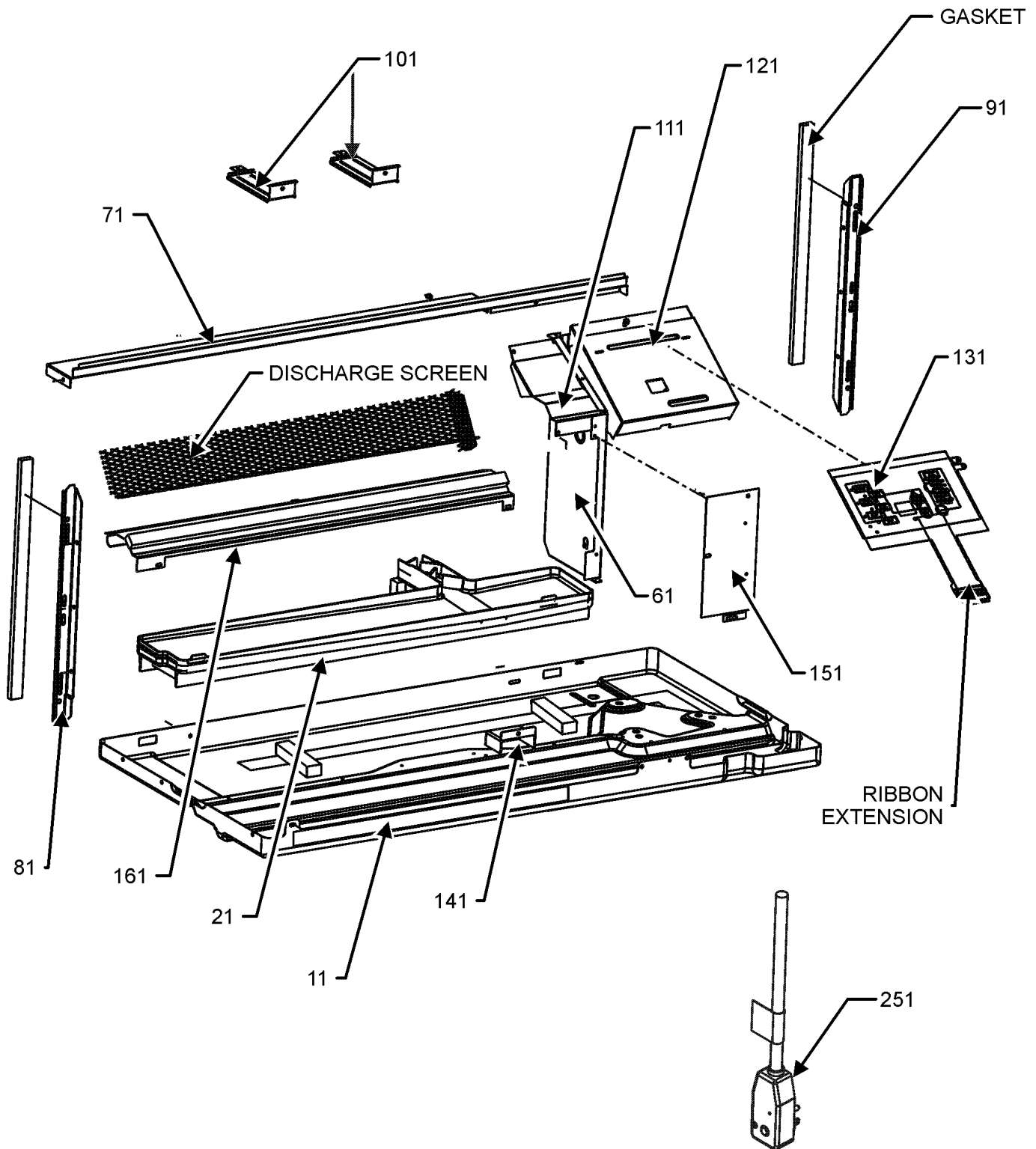


Outdoor Air System / Partition Panel

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:		Expanded Model Nomenclature	
11	0161P00110	CONDENSER SHROUD	M1 - PTH123G00CHXXGA
21	0131P00031	FAN MOTOR, OUTDOOR	M2 - PTH123G15A XXXGA
31	0121P00093NG	PANEL-PARTITION (M5, M10, M11, M15, M21, M23, M24)	M3 - PTH123G15DXXXGA
31	0121P00108NG	PANEL-PARTITION (M1, M2, M3, M4, M6, M7, M8, M9, M12, M13, M14, M16, M17, M18, M19, M20, M22, M25, M26, M27, M28, M29)	M4 - PTH123G25A XXXGA
41	0161P00055	FAN, CONDENSER	M5 - PTH123G25CQXXGA
51	C6300502	CAPACITOR STRAP	M6 - PTH123G25CRXXGA
61	CAP030300450C S	CAPACITOR, 500V	M7 - PTH123G25CXXXGA
71	802007090	TERMINAL BOARD	M8 - PTH123G25DRXXGA
81	0130P00098	THERMISTOR OAT GREEN (M3, M6, M8, M9, M10, M12, M13, M16, M17, M19, M20, M21, M22, M23, M25, M26, M27)	M9 - PTH123G25DXXXGA
91	11046302	LEVER ARM (M1, M2, M4, M6, M7, M12, M14, M16, M18, M22, M26, M28, M29)	M10 - PTH123G25QRXXGA
101	0163P00019	CABLE (M1, M2, M4, M6, M7, M12, M14, M16, M18, M22, M26, M28, M29)	M11 - PTH123G25QXXXGA
111	0121P00177NG	DOOR-VENT PTC (M1, M6, M7, M16, M17, M18, M29)	M12 - PTH123G25RXXXGA
121	0121P00079	BRACKET, VENT DOOR (M3, M8, M9, M13, M17, M19, M20, M25, M27)	M13 - PTH123G25V XXXGA
131	0121P00072NG	BRACKET, VENT DOOR-C (M1, M2, M4, M6, M7, M12, M14, M16, M18, M22, M26, M28, M29)	M14 - PTH123G35A XXXGA
131	0121P00180	BRKT, POWER VENT (M3, M8, M9, M13, M17, M19, M20, M25, M27)	M15 - PTH123G35CQXXGA
141	11166401	EXTENSION SPRING (M3, M8, M9, M13, M17, M19, M20, M25, M27)	M16 - PTH123G35CRXXGA
151	CAP020000440R P	CAPACITOR 2/440V	M17 - PTH123G35CVXXGA
161	0163P00029	CAPACITOR CLAMP	M18 - PTH123G35CXXXGA
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, M22, M23, M24, M25, M26, M27, M28, M29)	M19 - PTH123G35DRXXGA
191	0130P00137	POWER VENT MOTOR (M3, M8, M9, M13, M17, M19, M20, M25, M27)	M20 - PTH123G35DXXXGA
201	11166201	POWER VENT COVER BRACKET (M3, M8, M9, M13, M17, M19, M20, M25, M27)	M21 - PTH123G35PQXXGA
211	11166101	POWER VENT MOTOR BRACKET (M3, M8, M9, M13, M17, M19, M20, M25, M27)	M22 - PTH123G35PXXXGA
251	0121P00174	PANEL - AUXILLIARY (M21)	M23 - PTH123G35QRXXGA
251	0121P00091NG	PANEL-AUXILLIARY (M5, M10, M11, M15, M23, M24)	M24 - PTH123G35QXXXGA
NS	0163P00023	CONDENSATE PUMP (M21, M22)	M25 - PTH123G35RVXXGA
NS	0121P00077	CONDENSATE PUMP BRACKET (M21, M22)	M26 - PTH123G35RXXXGA
NS	0130P00133	HUMIDITY SENSOR (M3, M8, M9, M13, M17, M19, M20, M25, M27)	M27 - PTH123G35V XXXGA
			M28 - PTH123G50A XXXGA
			M29 - PTH123G50CXXXGA

Base Pan Assembly

BASE PAN ASSEMBLY



Base Pan Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

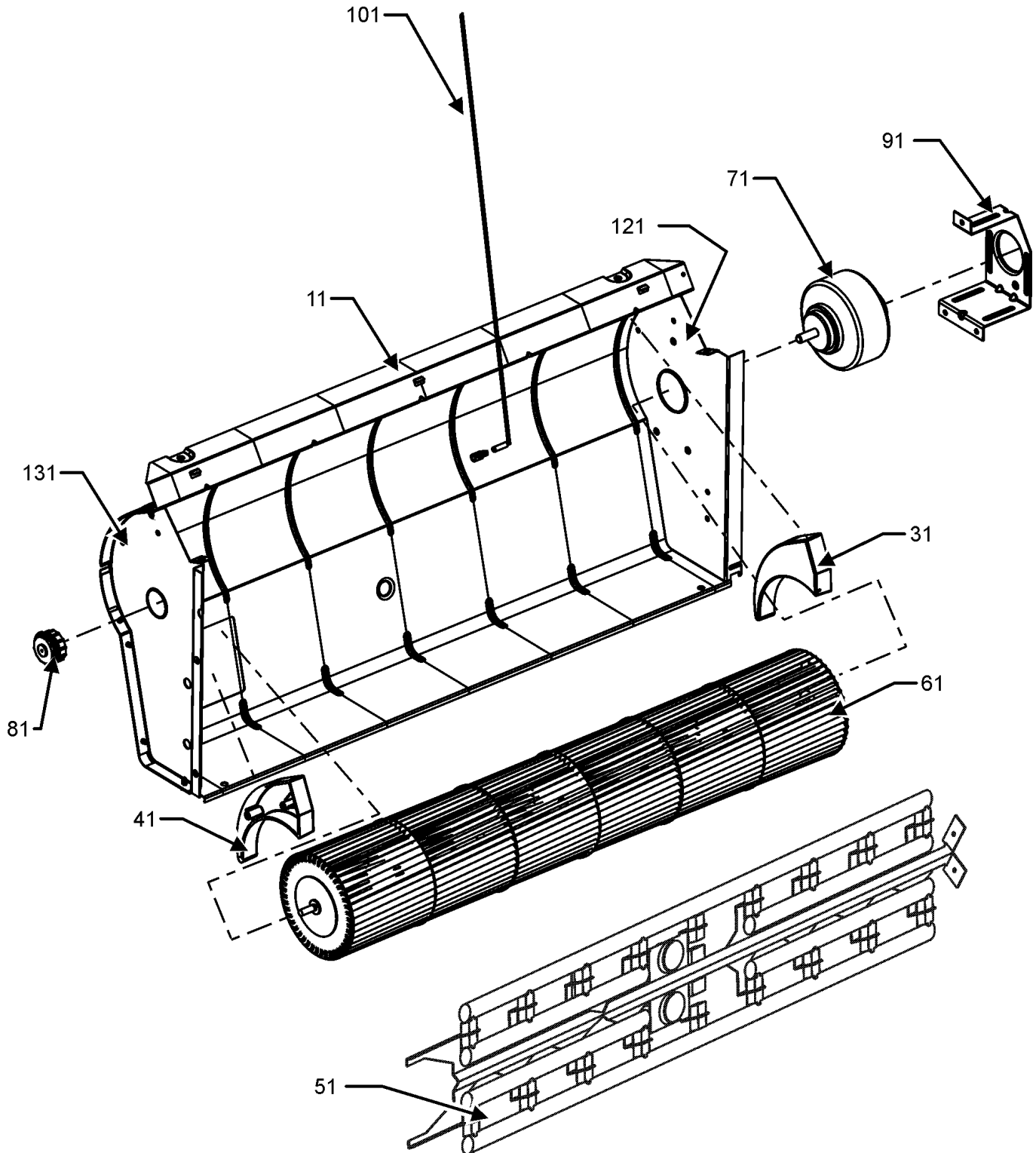
11	0121P00175DG	BASE PAN (M2, M3, M4, M8, M9, M10, M11, M12, M13, M14, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28)
11	0121P00175NG	BASE PAN (M1, M5, M6, M7, M15, M16, M17, M18, M29)
21	0161P00044	PLASTIC-DRAIN PAN
61	0121P00278	PANEL-MID PTN PTC
71	0121P00063NG	TOP, PARTITION PANEL
81	0121P00197	SEAL-L SIDE PTC
91	0121P00198	SEAL-R SIDE PTC
101	0121P00071NG	BRACE, TIE (QTY 2)
111	0121P00070DG	COVER, MOTOR
121	0121P00280	COVER-CONTROL PANEL
131	RSKP0015	CONTROL PANEL COVER AND MEMBRANE
141	0161P00016	PLASTIC-HOOD (M1, M2, M3, M4, M6, M7, M8, M9, M12, M13, M14, M16, M17, M18, M19, M20, M22, M25, M26, M27, M28, M29)
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, M11, M12, M13)
251	0130P00115	CORD,250VAC, 20A (LCD) (M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27)
251	0130P00118	CORD,250VAC, 30A (LCD) (M28, M29)
NS	0130P00109	MEMBRANE (CONTROL)

Expanded Model Nomenclature

M1 - PTH123G00CHXXGA
 M2 - PTH123G15A XXXGA
 M3 - PTH123G15DXXXGA
 M4 - PTH123G25A XXXGA
 M5 - PTH123G25CQXXGA
 M6 - PTH123G25CRXXGA
 M7 - PTH123G25CXXXGA
 M8 - PTH123G25DRXXGA
 M9 - PTH123G25DXXXGA
 M10 - PTH123G25QRXXGA
 M11 - PTH123G25QXXXGA
 M12 - PTH123G25RXXXGA
 M13 - PTH123G25V XXXGA
 M14 - PTH123G35A XXXGA
 M15 - PTH123G35CQXXGA
 M16 - PTH123G35CRXXGA
 M17 - PTH123G35CVXXGA
 M18 - PTH123G35CXXXGA
 M19 - PTH123G35DRXXGA
 M20 - PTH123G35DXXXGA
 M21 - PTH123G35PQXXGA
 M22 - PTH123G35PXXXGA
 M23 - PTH123G35QRXXGA
 M24 - PTH123G35QXXXGA
 M25 - PTH123G35RVXXGA
 M26 - PTH123G35RXXXGA
 M27 - PTH123G35V XXXGA
 M28 - PTH123G50A XXXGA
 M29 - PTH123G50CXXXGA

Indoor Blower Assembly

INDOOR BLOWER ASSEMBLY



Indoor Blower Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

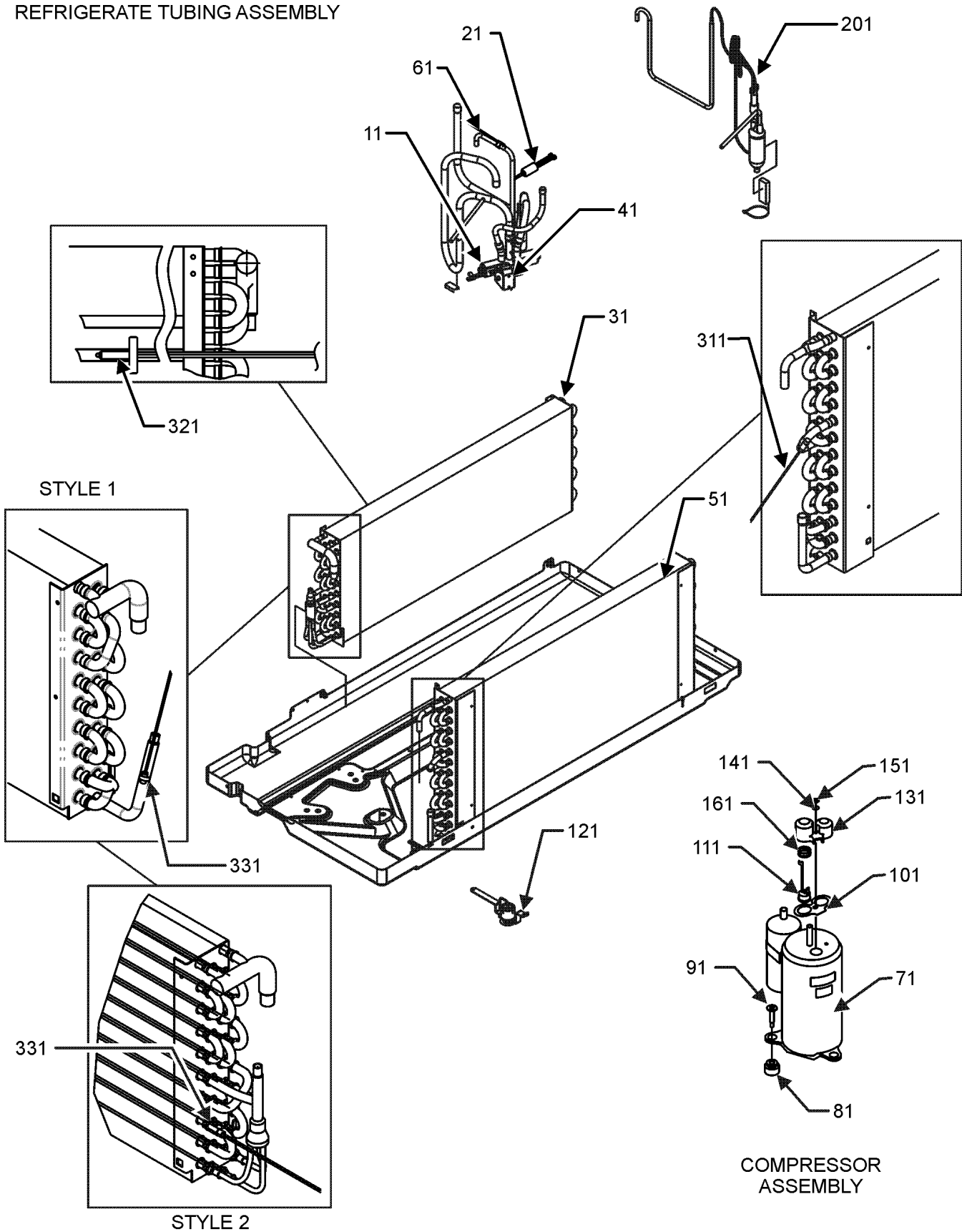
11	0121P00173DG	SCROLL
31	0161P00021	END CAP, RIGHT
41	0161P00022	END CAP, LEFT
51	0275P00019	HEATER ASSY (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13)
51	0275P00022	HEATER ASSY (M2, M3)
51	0275P00038	HEATER ASSY (M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27)
51	0275P00039	HEATER ASSY (M28, M29)
61	0150P00005	WHEEL, BLOWER
71	0131P00054	FAN MOTOR, INDOOR (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27)
71	0131P00055	FAN MOTOR, INDOOR (M1, M28, M29)
81	0163P00027	BEARING
91	0121P00048	BRACKET-MOTOR MOUNT
101	0130P00134	THERMISTOR ID T YELLOW
121	0121P00059DG	ENDPLATE-RH SCROLL
131	0121P00215DG	ENDPLATE-LH SCROLL, PNT

Expanded Model Nomenclature

M1 - PTH123G00CHXXGA
 M2 - PTH123G15AXXXGA
 M3 - PTH123G15DXXXGA
 M4 - PTH123G25AXXXGA
 M5 - PTH123G25CQXXGA
 M6 - PTH123G25CRXXGA
 M7 - PTH123G25CXXXGA
 M8 - PTH123G25DRXXGA
 M9 - PTH123G25DXXXGA
 M10 - PTH123G25QRXXGA
 M11 - PTH123G25QXXXGA
 M12 - PTH123G25RXXXGA
 M13 - PTH123G25VXXXGA
 M14 - PTH123G35AXXXGA
 M15 - PTH123G35CQXXGA
 M16 - PTH123G35CRXXGA
 M17 - PTH123G35CVXXGA
 M18 - PTH123G35CXXXGA
 M19 - PTH123G35DRXXGA
 M20 - PTH123G35DXXXGA
 M21 - PTH123G35PQXXGA
 M22 - PTH123G35PXXXGA
 M23 - PTH123G35QRXXGA
 M24 - PTH123G35QXXXGA
 M25 - PTH123G35RVXXGA
 M26 - PTH123G35RXXXGA
 M27 - PTH123G35VXXXGA
 M28 - PTH123G50AXXXGA
 M29 - PTH123G50CXXXGA

Refrigerant Tubing Assembly

REFRIGERATE TUBING ASSEMBLY



Refrigerant Tubing Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

11	0151P00013	PTAC Reversing Valve Assy
21	0130M00169	SWITCH, HIGH PRESS
31	0202P00094	7MM EVAP ASSY 3 ROW
41	0130P00022	REVERSING VALVE COIL
51	0201P00104NG	7MM CONDENSER ASSEMBLY PAINTED (M1, M5, M6, M7, M15, M16, M17, M18, M29)
51	0201P00098	7MM CONDENSER COIL ASSY (M2, M3, M4, M8, M9, M10, M11, M12, M13, M14, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28)
61	0130P00077	THERMISTOR IHD ORANGE (M6, M8, M9, M10, M12, M16, M19, M23, M25, M26)
71	44A272AL&FEKC	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
131	60100314	TERMINAL COVER - RECHI COMP
141	60100201	WASHER - RECHI COMPRESSOR
151	60100401	TERMINAL NUT - RECHI COMP
161	60500101	OLP SPRING - RECHI COMPRESSOR
201	0210P00467	CAPILLARY TUBE WELDMENT
311	0130P00130	THERMISTOR OCT BLUE
321	0130P00164	THERMISTOR IAT BLACK
331	0130P00159	THERMISTOR ICT RED
NS	BT1392310	PLASTIC CLAMP, .1875 DIA (M3, M8, M9, M13, M17, M19, M20, M25, M27)

Expanded Model Nomenclature

M1 - PTH123G00CHXXGA
M2 - PTH123G15AXXXGA
M3 - PTH123G15DXXXGA
M4 - PTH123G25AXXXGA
M5 - PTH123G25CQXXGA
M6 - PTH123G25CRXXGA
M7 - PTH123G25CXXXGA
M8 - PTH123G25DRXXGA
M9 - PTH123G25DXXXGA
M10 - PTH123G25QRXXGA
M11 - PTH123G25QXXXGA
M12 - PTH123G25RXXXGA
M13 - PTH123G25VXXXGA
M14 - PTH123G35AXXXGA
M15 - PTH123G35CQXXGA
M16 - PTH123G35CRXXGA
M17 - PTH123G35CVXXGA
M18 - PTH123G35CXXXGA
M19 - PTH123G35DRXXGA
M20 - PTH123G35DXXXGA
M21 - PTH123G35PQXXGA
M22 - PTH123G35PXXXGA
M23 - PTH123G35QRXXGA
M24 - PTH123G35QXXXGA
M25 - PTH123G35RVXXGA
M26 - PTH123G35RXXXGA
M27 - PTH123G35VXXXGA
M28 - PTH123G50AXXXGA
M29 - PTH123G50CXXXGA