

PTH124G Package Terminal Heat Pump

PTH124G15AXXXGA
PTH124G15QXXXGA
PTH124G25AXXXGA
PTH124G25CXXXGA
PTH124G25NRXXGA
PTH124G25QRXXGA
PTH124G25QXXXGA
PTH124G25RXXXGA
PTH124G35AXXXGA
PTH124G35CQXXGA
PTH124G35CXXXGA
PTH124G35DXXXGA
PTH124G35QRXXGA
PTH124G35QXXXGA
PTH124G35RXXXGA
PTH124G35VXXXGA
PTH124G50AXXXGA
PTH124G50CXXXGA
PTH124G50RXXXGA
PTH124G50VXXXGA



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This manual is to be used by qualified technicians only.

This manual replaces RP-A5341

Important Information

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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:

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

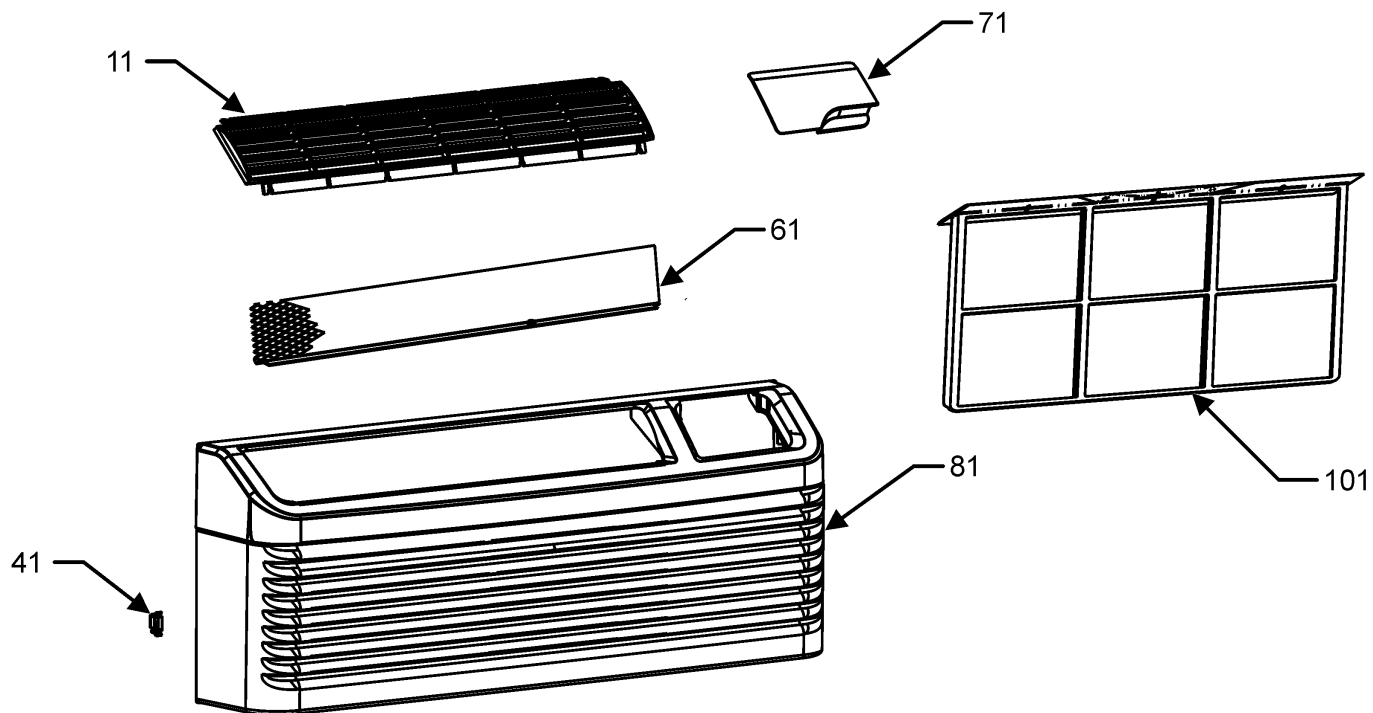
Part

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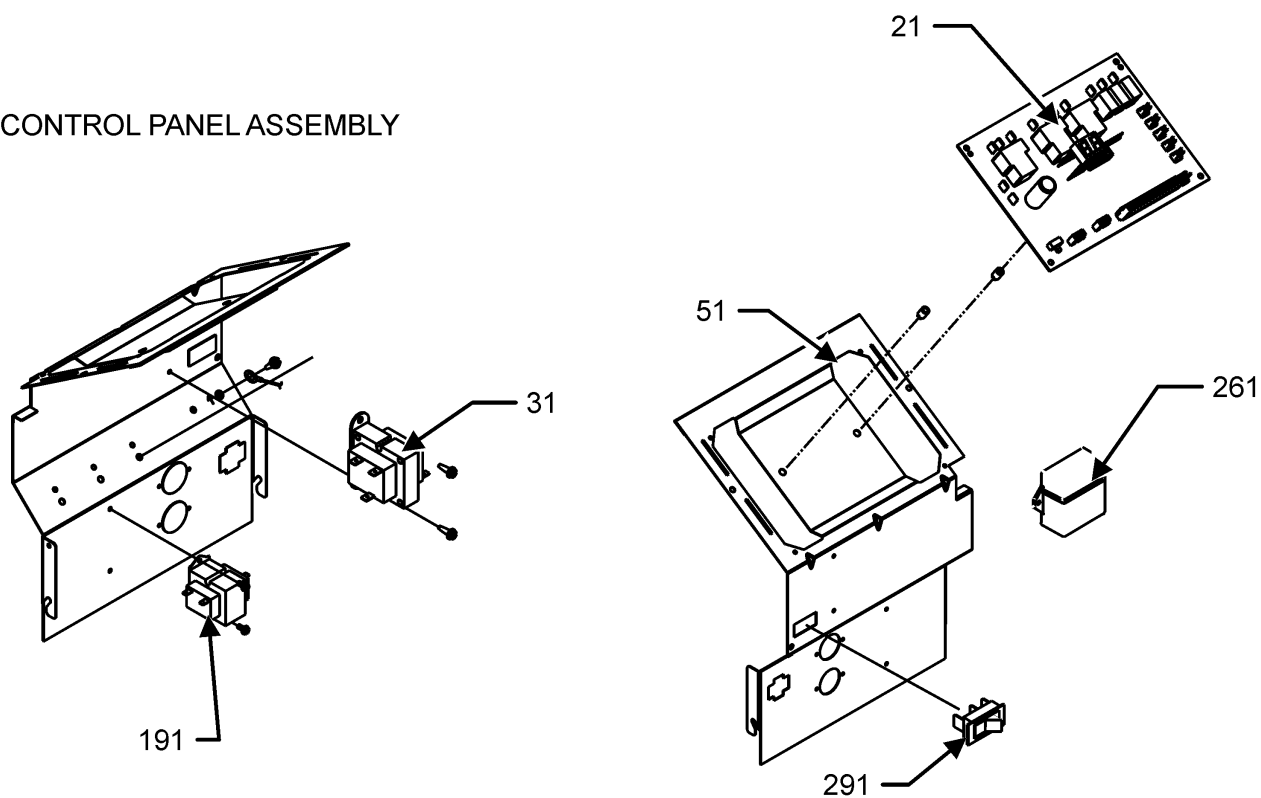
		Expanded Model Nomenclature
20406303	BASE PAN VALVE	M1 - PTH124G15AXXXGA
CAP020300450CS	CAP, 2/30 MFD/450V/DUAL RD	M2 - PTH124G15QXXXGA
CAP010000500RP	CAPACITOR (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)	M3 - PTH124G25AXXXGA
CAP015000500RP	CAPACITOR (M17, M18, M19, M20)	M4 - PTH124G25CXXXGA
44A287AK&JEKD	COMPRESSOR, RECHI	M5 - PTH124G25NRXXGA
RSKP0014	CONTROL BOARD KIT	M6 - PTH124G25QRXXGA
RSKP0012	CONTROL BOARD M70	M7 - PTH124G25QXXXGA
RSKP0015	CONTROL PANEL COVER AND MEMBRANE	M8 - PTH124G25RXXXGA
0130P00128	CORD, 277V, 20A (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)	M9 - PTH124G35AXXXGA
0130P00129	CORD, 277V, 30A (M17, M18, M19, M20)	M10 - PTH124G35CQXXGA
0131P00057	FAN MOTOR, INDOOR (M17, M18, M19, M20)	M11 - PTH124G35CXXXGA
0131P00056	FAN MOTOR, INDOOR (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)	M12 - PTH124G35DXXXGA
0131P00032	FAN MOTOR, OUTDOOR	M13 - PTH124G35QRXXGA
0161P00055	FAN, CONDENSER	M14 - PTH124G35QXXXGA
A3410402	FUSE 15A (M1, M2, M3, M4, M5, M6, M7, M8)	M15 - PTH124G35RXXXGA
A3410403	FUSE 20A (M9, M10, M11, M12, M13, M14, M15, M16)	M16 - PTH124G35VXXXGA
A3410404	FUSE 25A (M17, M18, M19, M20)	M17 - PTH124G50AXXXGA
0275P00041	HEATER ASSY (M17, M18, M19, M20)	M18 - PTH124G50CXXXGA
0275P00040	HEATER ASSY (M9, M10, M11, M12, M13, M14, M15, M16)	M19 - PTH124G50RXXXGA
0275P00026	HEATER ASSY (M1, M2)	M20 - PTH124G50VXXXGA
0275P00023	HEATER ASSY (M3, M4, M5, M6, M7, M8)	
0130P00133	HUMIDITY SENSOR (M12, M16, M20)	
60349604A	OVERLOAD PROTECTOR-RED DOT	
PCBCP150	PCB CONTROL	
PCBCP147	PCB, CONTROL, D70 (M12, M16, M20)	
0130P00137	POWER VENT MOTOR (M12, M16, M20)	
0151P00014	PTAC Reversing Valve Assy	
0130P00022	REVERSING VALVE COIL	
0130M00169	SWITCH, HIGH PRESS	
802007090	TERMINAL BOARD	
0130P00077	THERMISTOR (M5, M6, M8, M13, M15, M19)	
0130P00159	THERMISTOR	
0130P00130	THERMISTOR	
0130P00134	THERMISTOR	
0130P00098	THERMISTOR GREEN OAT (M5, M6, M8, M12, M13, M15, M16, M19, M20)	
0130P00164	Thermistor ID air 7mm	
0130M00342	TRANSFORMER 20VA 265V	
0130M00601	TRANSFORMER, 40VA, 277V TO 24V (M12, M16, M20)	
0150P00005	WHEEL, BLOWER	

Front Panel / Control Board Assembly

FRONT PANEL ASSEMBLY



CONTROL PANEL ASSEMBLY



Front Panel / Control Board Assembly

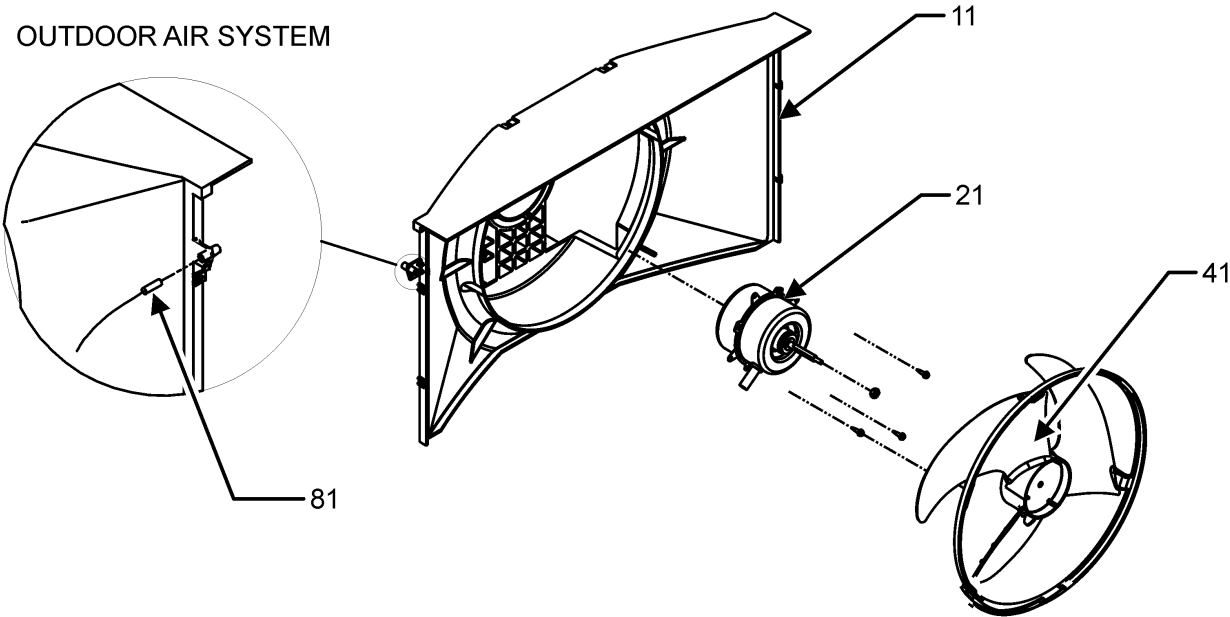
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0161P00048		FRONT, LOUVERS DISCHARGE
21	RSKP0012		CONTROL BOARD M70
21	PCBCP150		PCB CONTROL
31	0130M00342		TRANSFORMER 20VA 265V
41	0163P00025		CLIP (QTY 2)
51	0121P00130		PANEL, CONTROL
61	0121P00194BL		SCREEN, DISCHARGE, PAINTED
71	0261P00003		DOOR ASSY -AMANA- (M1, M2, M3, M4, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20)
81	0261P00011		FRONT ASSY
101	0161P00035		FILTER, RACK (QTY 2)
191	0130M00601		TRANSFORMER, 40VA, 277V TO 24V (M12, M16, M20)
261	0130P00104		ANTENNA (M5, M6, M8, M13, M15, M19)
291	B1337701		PADDLE SWITCH (M12, M16, M20)
NS	C6476001		BAYONET FUSE HOLDER (M1, M2, M3, M4, M5, M6, M7, M8)
NS	C6476002		BAYONET FUSE HOLDER (M9, M10, M11, M12, M13, M14, M15, M16)
NS	C6476003		BAYONET FUSE HOLDER (M17, M18, M19, M20)
NS	RSKP0014		CONTROL BOARD KIT
NS	A3410402		FUSE 15A (M1, M2, M3, M4, M5, M6, M7, M8)
NS	A3410403		FUSE 20A (M9, M10, M11, M12, M13, M14, M15, M16)
NS	A3410404		FUSE 25A (M17, M18, M19, M20)
NS	PCBCP147		PCB, CONTROL, D70 (M12, M16, M20)
NS	0259P00015		WIRE HARNESS (M12, M16, M20)

Expanded Model Nomenclature

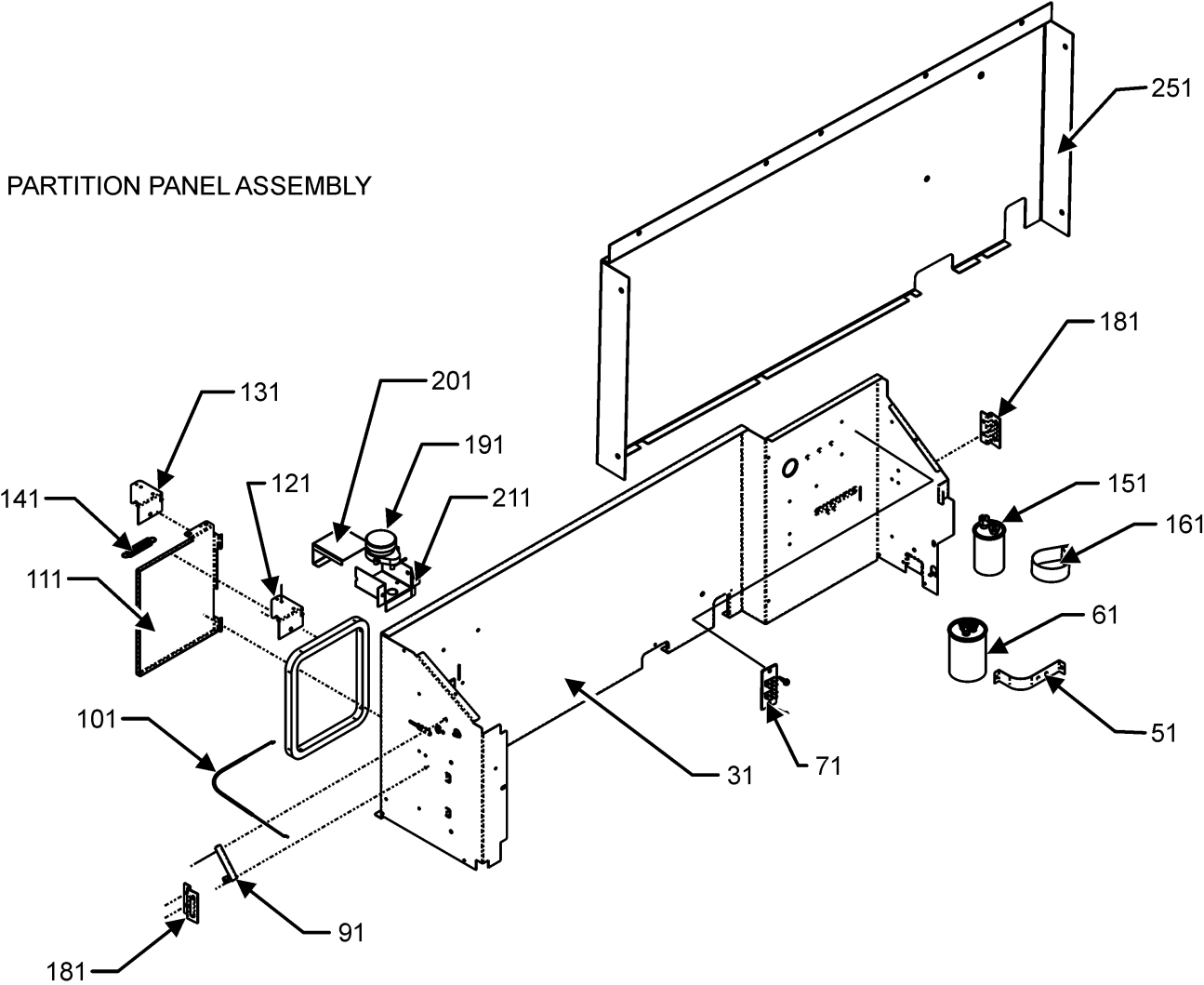
M1 - PTH124G15AXXXGA
 M2 - PTH124G15QXXXGA
 M3 - PTH124G25AXXXGA
 M4 - PTH124G25CXXXGA
 M5 - PTH124G25NRXXGA
 M6 - PTH124G25QRXXGA
 M7 - PTH124G25QXXXGA
 M8 - PTH124G25RXXXGA
 M9 - PTH124G35AXXXGA
 M10 - PTH124G35CQXXGA
 M11 - PTH124G35CXXXGA
 M12 - PTH124G35DXXXGA
 M13 - PTH124G35QRXXGA
 M14 - PTH124G35QXXXGA
 M15 - PTH124G35RXXXGA
 M16 - PTH124G35VXXXGA
 M17 - PTH124G50AXXXGA
 M18 - PTH124G50CXXXGA
 M19 - PTH124G50RXXXGA
 M20 - PTH124G50VXXXGA

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:

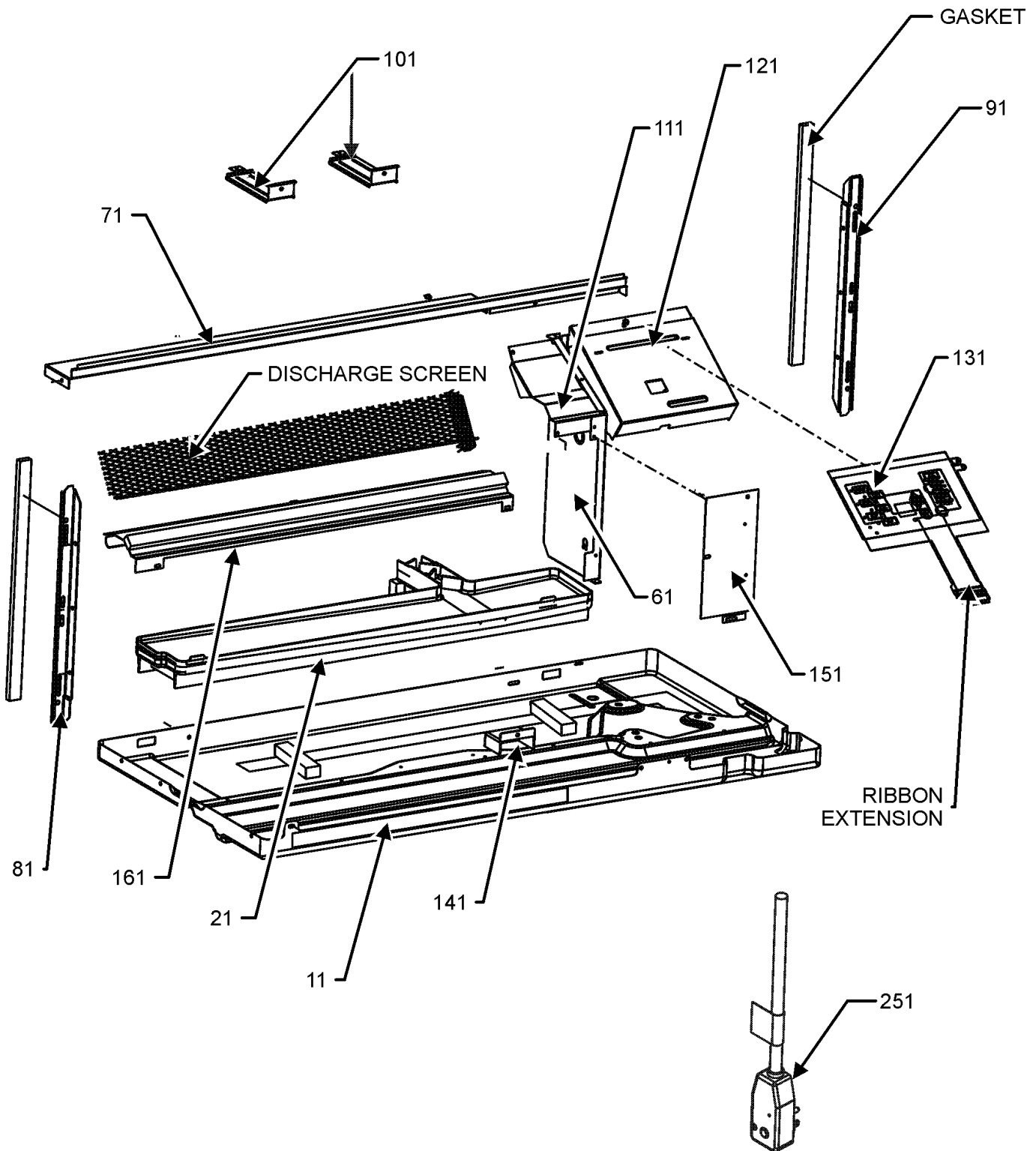
11	0161P00110	CONDENSER SHROUD
21	0131P00032	FAN MOTOR, OUTDOOR
31	0121P00093NG	PANEL-PARTITION (M2, M6, M7, M10, M13, M14)
31	0121P00108NG	PANEL-PARTITION (M1, M3, M4, M5, M8, M9, M11, M12, M15, M16, M17, M18, M19, M20)
41	0161P00055	FAN, CONDENSER
51	C6300502	CAPACITOR STRAP
61	CAP020300450CS	CAP, 2/30 MFD/450V/DUAL RD
71	802007090	TERMINAL BOARD
81	0130P00098	THERMISTOR GREEN OAT (M5, M6, M8, M12, M13, M15, M16, M19, M20)
91	11046302	LEVER ARM (M1, M3, M4, M5, M8, M9, M11, M15, M17, M18, M19)
101	0163P00019	CABLE (M1, M3, M4, M5, M8, M9, M11, M15, M17, M18, M19)
111	0121P00177NG	DOOR-VENT PTC (M1, M3, M4, M5, M8, M9, M11, M12, M15, M16, M17, M18, M19, M20)
121	0121P00079	BRACKET, VENT DOOR (M12, M16, M20)
131	0121P00072NG	BRACKET, VENT DOOR-C (M1, M3, M4, M5, M8, M9, M11, M15, M17, M18, M19)
131	0121P00180	BRKT, POWER VENT (M12, M16, M20)
141	11166401	EXTENSION SPRING (M12, M16, M20)
151	CAP010000500RP	CAPACITOR (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
151	CAP015000500RP	CAPACITOR (M17, M18, M19, M20)
161	0163P00029	CAPACITOR CLAMP
181	11191703	PARTITION PANEL BRACKET (QTY 2)
191	0130P00137	POWER VENT MOTOR (M12, M16, M20)
201	11166201	POWER VENT COVER BRACKET (M12, M16, M20)
211	11166101	POWER VENT MOTOR BRACKET (M12, M16, M20)
251	0121P00091NG	PANEL-AUXILLIARY (M10)
NS	0130P00133	HUMIDITY SENSOR (M12, M16, M20)

Expanded Model Nomenclature

M1 - PTH124G15A XXXGA
M2 - PTH124G15Q XXXGA
M3 - PTH124G25A XXXGA
M4 - PTH124G25C XXXGA
M5 - PTH124G25NR XXXGA
M6 - PTH124G25QR XXXGA
M7 - PTH124G25Q XXXGA
M8 - PTH124G25R XXXGA
M9 - PTH124G35A XXXGA
M10 - PTH124G35CQ XXXGA
M11 - PTH124G35C XXXGA
M12 - PTH124G35D XXXGA
M13 - PTH124G35QR XXXGA
M14 - PTH124G35Q XXXGA
M15 - PTH124G35R XXXGA
M16 - PTH124G35V XXXGA
M17 - PTH124G50A XXXGA
M18 - PTH124G50C XXXGA
M19 - PTH124G50R XXXGA
M20 - PTH124G50V XXXGA

Base Pan Assembly

BASE PAN ASSEMBLY



Base Pan Assembly

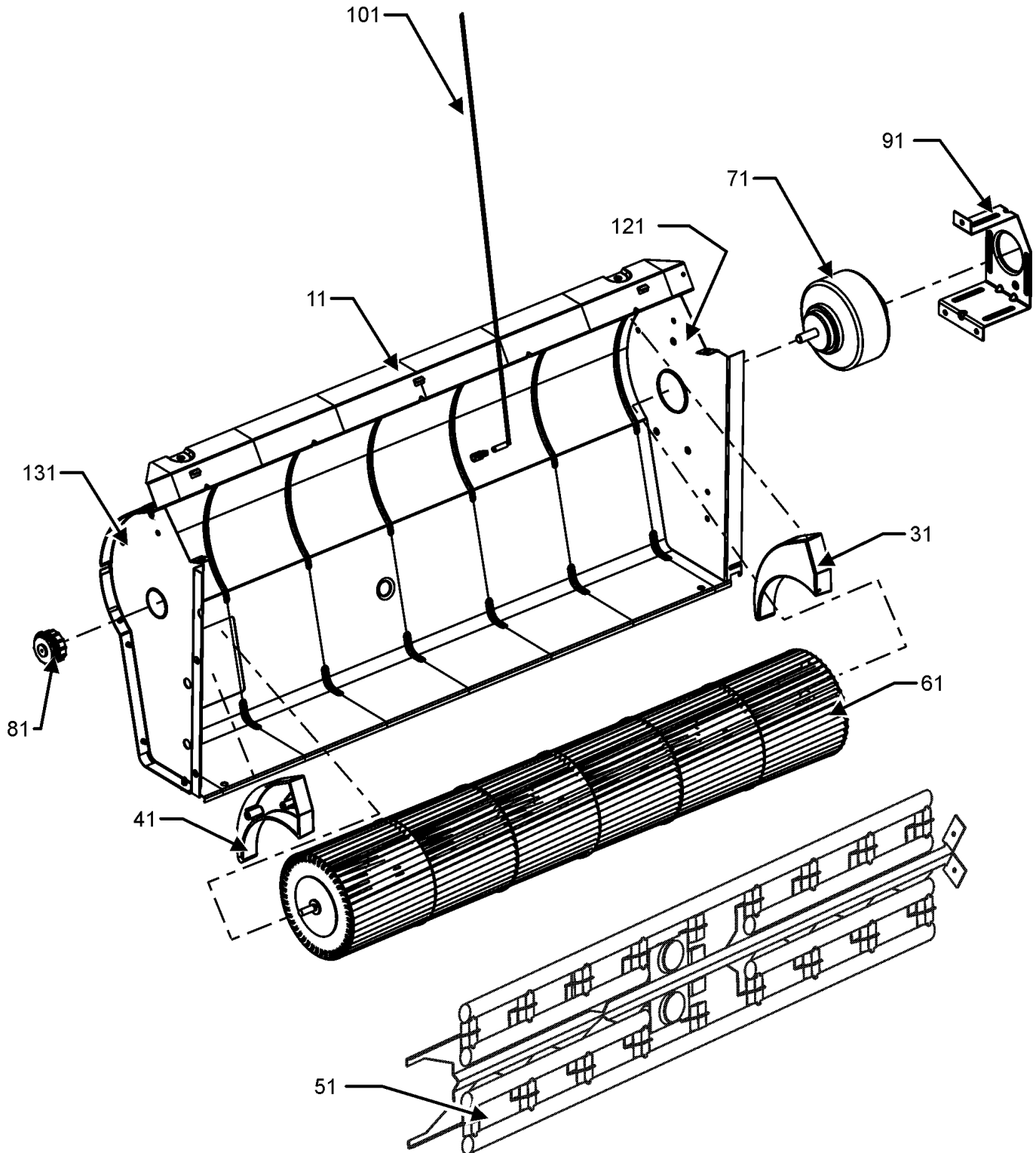
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Image 1:			
11	0121P00175DG		BASE PAN (M1, M2, M3, M5, M6, M7, M8, M9, M12, M13, M14, M15, M16, M17, M19, M20)
11	0121P00175NG		BASE PAN (M4, M10, M11, M18)
21	0161P00044		PLASTIC-DRAIN PAN
61	0121P00278		PANEL-MID PTN PTC
71	0121P00063NG		TOP, PARTITION 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, M3, M4, M5, M8, M9, M11, M12, M15, M16, M17, M18, M19, M20)
151	20410801		ACCESS COVER
161	0121P00061DG		CUTOFF-SCROLL DG
251	0130P00128		CORD, 277V, 20A (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
251	0130P00129		CORD, 277V, 30A (M17, M18, M19, M20)
NS	0130P00109		MEMBRANE (CONTROL)

Expanded Model Nomenclature

M1 - PTH124G15AXXXGA
 M2 - PTH124G15QXXXGA
 M3 - PTH124G25AXXXGA
 M4 - PTH124G25CXXXGA
 M5 - PTH124G25NRXXGA
 M6 - PTH124G25QRXXGA
 M7 - PTH124G25QXXXGA
 M8 - PTH124G25RXXXGA
 M9 - PTH124G35AXXXGA
 M10 - PTH124G35CQXXGA
 M11 - PTH124G35CXXXGA
 M12 - PTH124G35DXXXGA
 M13 - PTH124G35QRXXGA
 M14 - PTH124G35QXXXGA
 M15 - PTH124G35RXXXGA
 M16 - PTH124G35VXXXGA
 M17 - PTH124G50AXXXGA
 M18 - PTH124G50CXXXGA
 M19 - PTH124G50RXXXGA
 M20 - PTH124G50VXXXGA

Indoor Blower Assembly

INDOOR BLOWER ASSEMBLY



Indoor Blower Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

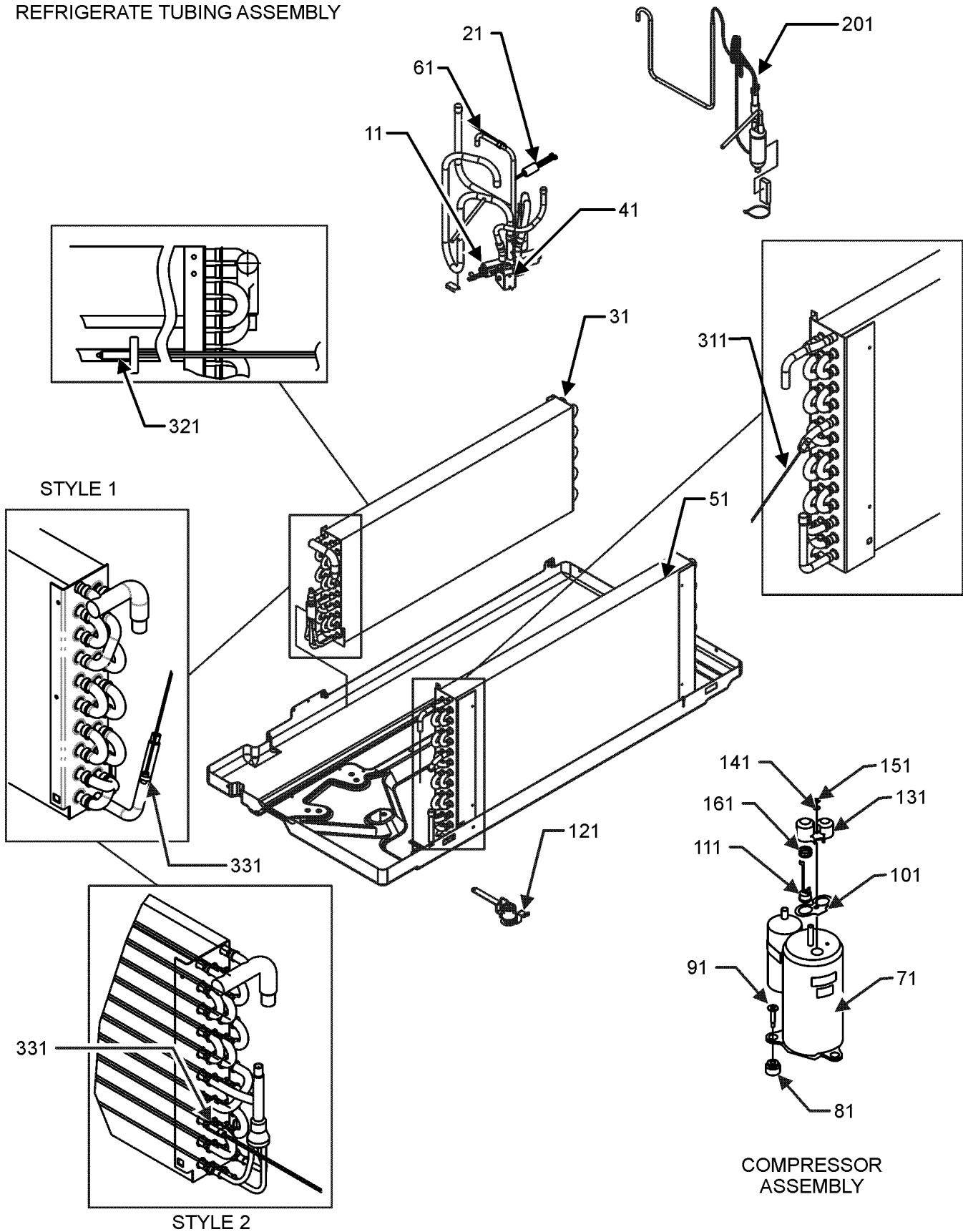
11	0270P01070	SCROLL ASSY
31	0161P00021	END CAP, RIGHT
41	0161P00022	END CAP, LEFT
51	0275P00023	HEATER ASSY (M3, M4, M5, M6, M7, M8)
51	0275P00026	HEATER ASSY (M1, M2)
51	0275P00040	HEATER ASSY (M9, M10, M11, M12, M13, M14, M15, M16)
51	0275P00041	HEATER ASSY (M17, M18, M19, M20)
61	0150P00005	WHEEL, BLOWER
71	0131P00056	FAN MOTOR, INDOOR (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
71	0131P00057	FAN MOTOR, INDOOR (M17, M18, M19, M20)
81	0163P00027	BEARING
91	0121P00048	BRACKET-MOTOR MOUNT
101	0130P00134	THERMISTOR
121	0121P00059DG	ENDPLATE-RH SCROLL
131	0121P00215DG	ENDPLATE-LH SCROLL, PNT

Expanded Model Nomenclature

M1 - PTH124G15AXXXGA
 M2 - PTH124G15QXXXGA
 M3 - PTH124G25AXXXGA
 M4 - PTH124G25CXXXGA
 M5 - PTH124G25NRXXGA
 M6 - PTH124G25QRXXGA
 M7 - PTH124G25QXXXGA
 M8 - PTH124G25RXXXGA
 M9 - PTH124G35AXXXGA
 M10 - PTH124G35CQXXGA
 M11 - PTH124G35CXXXGA
 M12 - PTH124G35DXXXGA
 M13 - PTH124G35QRXXGA
 M14 - PTH124G35QXXXGA
 M15 - PTH124G35RXXXGA
 M16 - PTH124G35VXXXGA
 M17 - PTH124G50AXXXGA
 M18 - PTH124G50CXXXGA
 M19 - PTH124G50RXXXGA
 M20 - PTH124G50VXXXGA

Refrigerant Tubing Assembly

REFRIGERATE TUBING ASSEMBLY



Refrigerant Tubing Assembly

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

11	0151P00014	PTAC Reversing Valve Assy
21	0130M00169	SWITCH, HIGH PRESS
31	0202P00113	7MM EVAP ASSY 3 ROW
41	0130P00022	REVERSING VALVE COIL
51	0201P00106MB	7MM CONDENSER ASSEMBLY PAINTED (M4, M10, M11, M18)
51	0201P00166	7MM CONDENSER COIL ASSY (M1, M2, M3, M5, M6, M7, M8, M9, M12, M13, M14, M15, M16, M17, M19, M20)
61	0130P00077	THERMISTOR (M5, M6, M8, M13, M15, M19)
71	44A287AK&JEKD	COMPRESSOR, RECHI
81	60130203	GROMMET - RECHI COMPRESSOR (QTY 3)
91	0163M00079	SHOULDER SCREW (QTY 3)
101	60100103	TERMINAL GASKET
111	60349604A	OVERLOAD PROTECTOR-RED DOT
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
321	0130P00164	Thermistor ID air 7mm
331	0130P00159	THERMISTOR
NS	BT1392310	PLASTIC CLAMP, .1875 DIA (M12, M16, M20)

Expanded Model Nomenclature

M1 - PTH124G15AXXXGA
M2 - PTH124G15QXXXGA
M3 - PTH124G25AXXXGA
M4 - PTH124G25CXXXGA
M5 - PTH124G25NRXXGA
M6 - PTH124G25QRXXGA
M7 - PTH124G25QXXXGA
M8 - PTH124G25RXXXGA
M9 - PTH124G35AXXXGA
M10 - PTH124G35CQXXGA
M11 - PTH124G35CXXXGA
M12 - PTH124G35DXXXGA
M13 - PTH124G35QRXXGA
M14 - PTH124G35QXXXGA
M15 - PTH124G35RXXXGA
M16 - PTH124G35VXXXGA
M17 - PTH124G50AXXXGA
M18 - PTH124G50CXXXGA
M19 - PTH124G50RXXXGA
M20 - PTH124G50VXXXGA