
PTH153G Package Terminal Heat Pump

PTH153G00CHXXGA
PTH153G15DXXGA
PTH153G25AXXXGA
PTH153G25CQXXGA
PTH153G25CRXXGA
PTH153G25CXXGA
PTH153G25DXXGA
PTH153G25QXXGA
PTH153G25RXXGA
PTH153G25VXXGA
PTH153G35AXXXGA
PTH153G35CRXXGA
PTH153G35CXXGA
PTH153G35DRXXGA
PTH153G35DXXGA
PTH153G35MXXGA
PTH153G35PQXXGA
PTH153G35PXXGA
PTH153G35QRXXGA
PTH153G35QXXGA
PTH153G35RVXXGA
PTH153G35RXXGA
PTH153G35VXXGA
PTH153G50AXXXGA
PTH153G50CXXGA
PTH153G50DRXXGA
PTH153G50DXXGA
PTH153G50PXXGA
PTH153G50QXXGA
PTH153G50RVXXGA



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This manual is to be used by qualified technicians only.

Important Information

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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:

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:

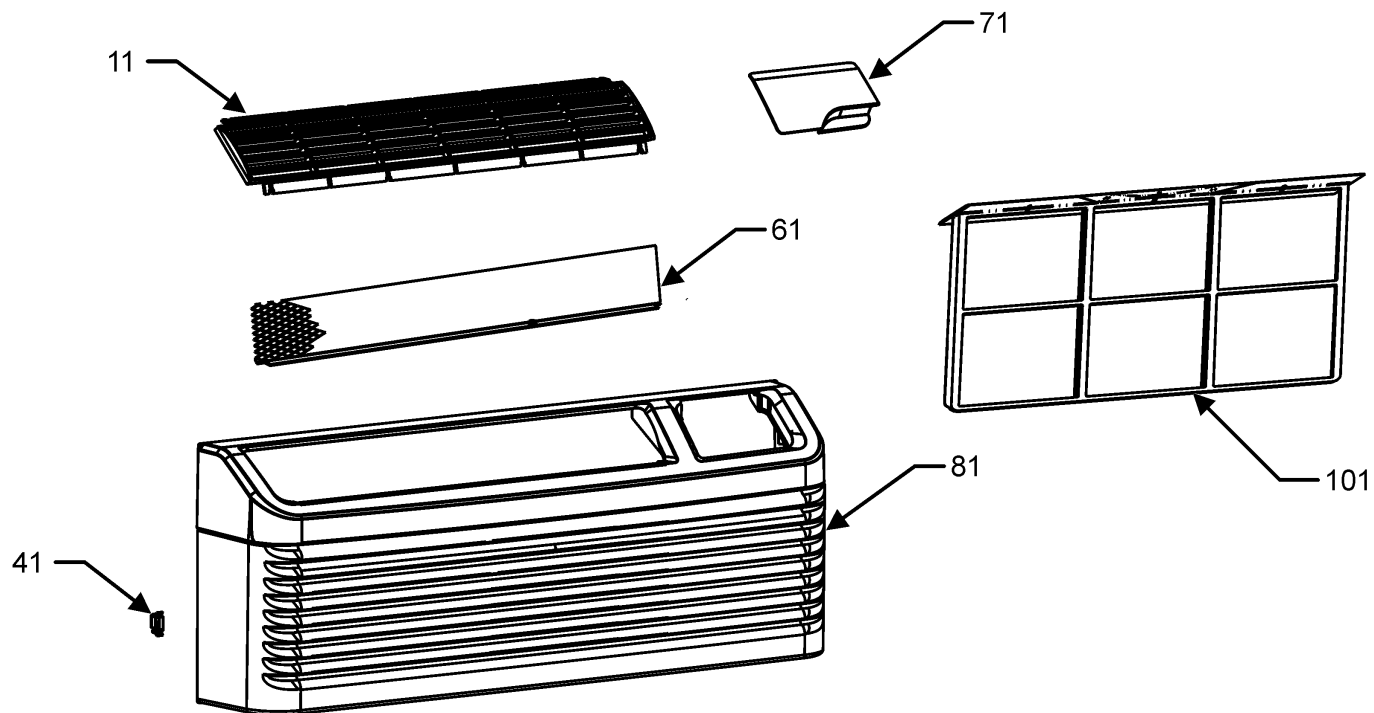
Expanded Model Nomenclature

20406303	BASE PAN VALVE
CAP050300450CS	CAP, 5/30 MFD/450V/DUAL RD
CAP020000440RP	CAPACITOR
50A362QM-9GKG	COMPRESSOR, RECHI
0163P00023	CONDENSATE PUMP (M16, M17, M27)
0121P00077	CONDENSATE PUMP BRACKET (M16, M17, M27)
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, M22)
0130P00118	CORD,250VAC,30A (LCD) (M23, M24, M25, M26, M27, M28, M29)
0131P00025	FAN MOTOR OUTDOOR
0131P00055	FAN MOTOR, INDOOR
0161P00055	FAN, CONDENSER
0275P00039	HEATER ASSY (M23, M24, M25, M26, M27, M28, M29)
0275P00038	HEATER ASSY (M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22)
0275P00022	HEATER ASSY (M2)
0275P00019	HEATER ASSY (M3, M4, M5, M6, M7, M8, M9, M10)
0130P00133	HUMIDITY SENSOR (M2, M7, M10, M14, M15, M20, M22, M25, M26, M29)
60343546	OVERLOAD PROTECTOR
PCBCP147	PCB, CONTROL, D70 (M2, M7, M10, M14, M15, M20, M22, M25, M26, M29)
0130P00137	POWER VENT MOTOR (M2, M7, M10, M14, M15, M20, M22, M25, M26, M29)
0151P00013	PTAC Reversing Valve Assy
0130P00022	REVERSING VALVE COIL
0130M00179	SPDT RELAY (M16, M17, M27)
0130M00181	SPDT RELAY (M1)
0130M00169	SWITCH, HIGH PRESS
802007090	TERMINAL BOARD
0130P00164	THERMISTOR IAT BLACK
0130P00159	THERMISTOR ICT RED
0130P00134	THERMISTOR IDT YELLOW
0130P00077	THERMISTOR IHD ORANGE (M5, M9, M12, M14, M18, M20, M21, M25, M29)
0130P00098	THERMISTOR OAT GREEN (M2, M5, M7, M9, M10, M12, M14, M15, M16, M17, M18, M20, M21, M22, M25, M26, M27, M29)
0130P00130	THERMISTOR OCT BLUE
0130M00600	TRANS, 40VA, 240V/208V TO 120V (M16, M17, M27)
0130M00599	TRANSFMR,40VA,240V/208V TO 24V (M1, M2, M7, M10, M14, M15, M16, M17, M20, M22, M25, M26, M27, M29)
0130M00341	TRANSFORMER 20VA 230V (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M18, M19, M20, M21, M22, M23, M24, M25, M26, M28, M29)
0150P00005	WHEEL, BLOWER

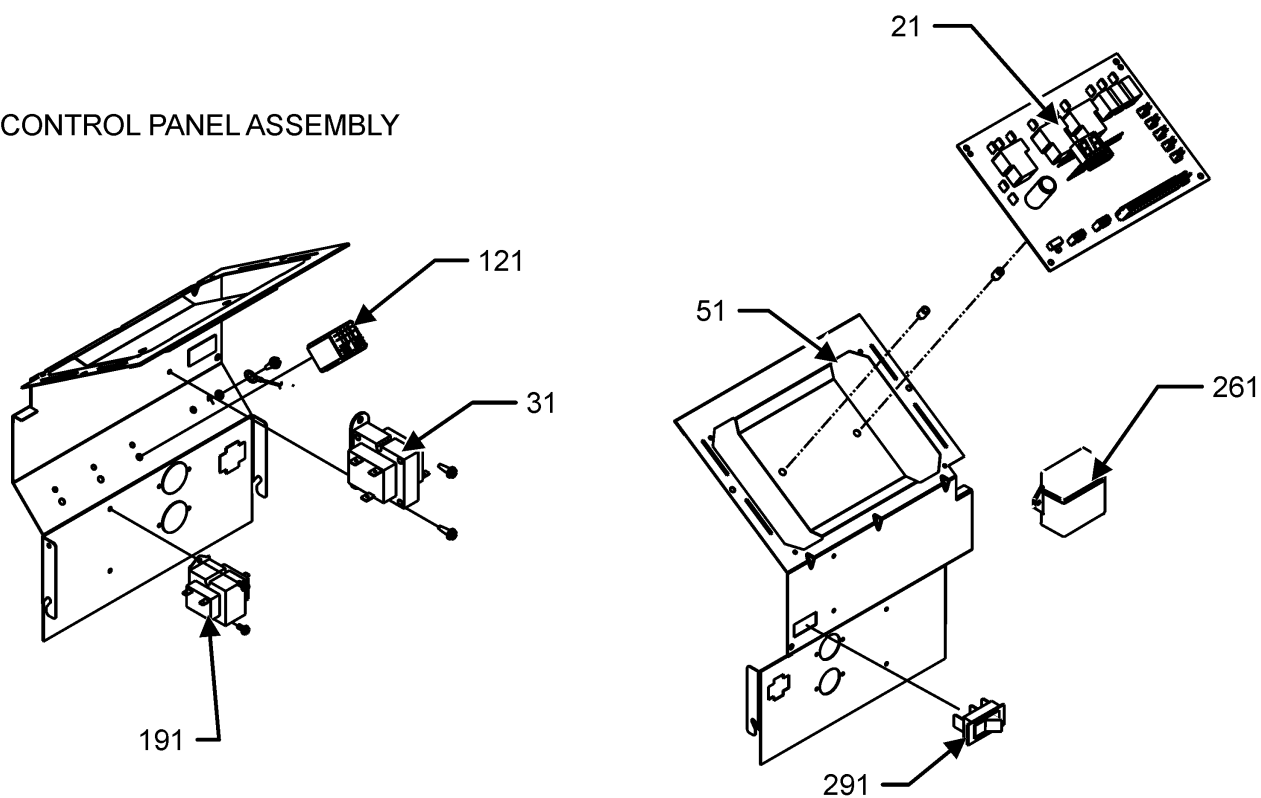
M1 - PTH153G00CHXXGA
M2 - PTH153G15DXXXGA
M3 - PTH153G25AXXXGA
M4 - PTH153G25CQXXGA
M5 - PTH153G25CRXXGA
M6 - PTH153G25CXXXGA
M7 - PTH153G25DXXXGA
M8 - PTH153G25QXXXGA
M9 - PTH153G25RXXXGA
M10 - PTH153G25VXXXGA
M11 - PTH153G35AXXXGA
M12 - PTH153G35CRXXGA
M13 - PTH153G35CXXXGA
M14 - PTH153G35DRXXGA
M15 - PTH153G35DXXXGA
M16 - PTH153G35PQXXGA
M17 - PTH153G35PXXXGA
M18 - PTH153G35QRXXGA
M19 - PTH153G35QXXXGA
M20 - PTH153G35RVXXGA
M21 - PTH153G35RXXXGA
M22 - PTH153G35VXXXGA
M23 - PTH153G50AXXXGA
M24 - PTH153G50CXXXGA
M25 - PTH153G50DRXXGA
M26 - PTH153G50DXXXGA
M27 - PTH153G50PXXXGA
M28 - PTH153G50QXXXGA
M29 - PTH153G50RVXXGA

Front Panel / Control Board Assembly

FRONT PANEL ASSEMBLY



CONTROL PANEL ASSEMBLY

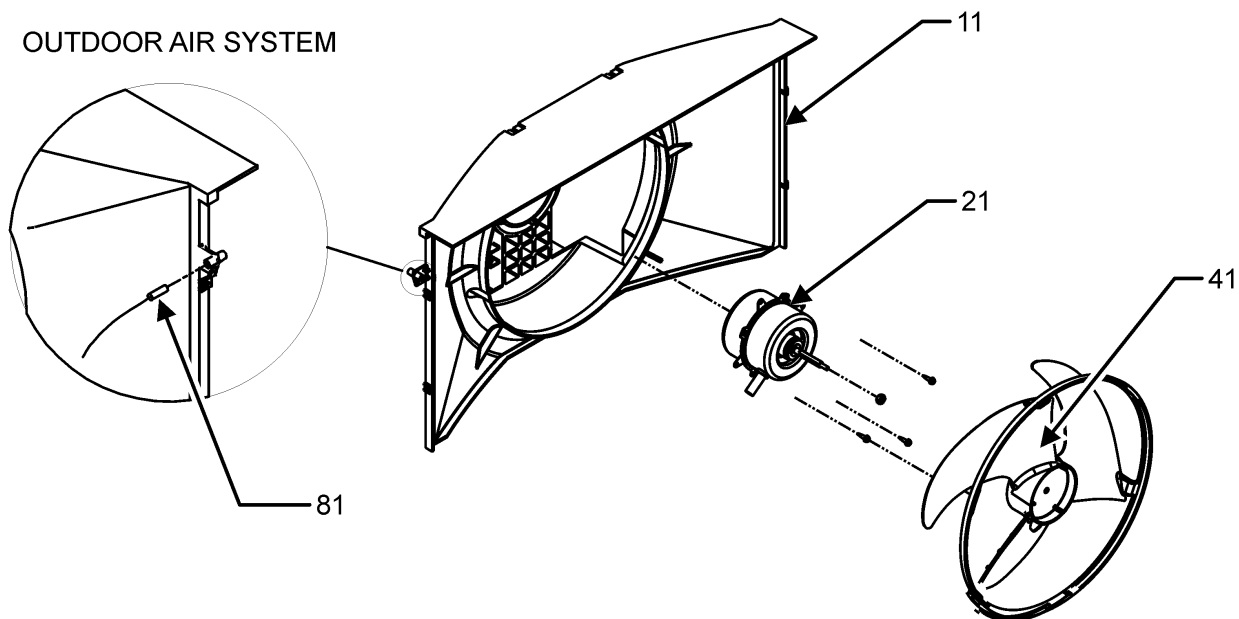


Front Panel / Control Board Assembly

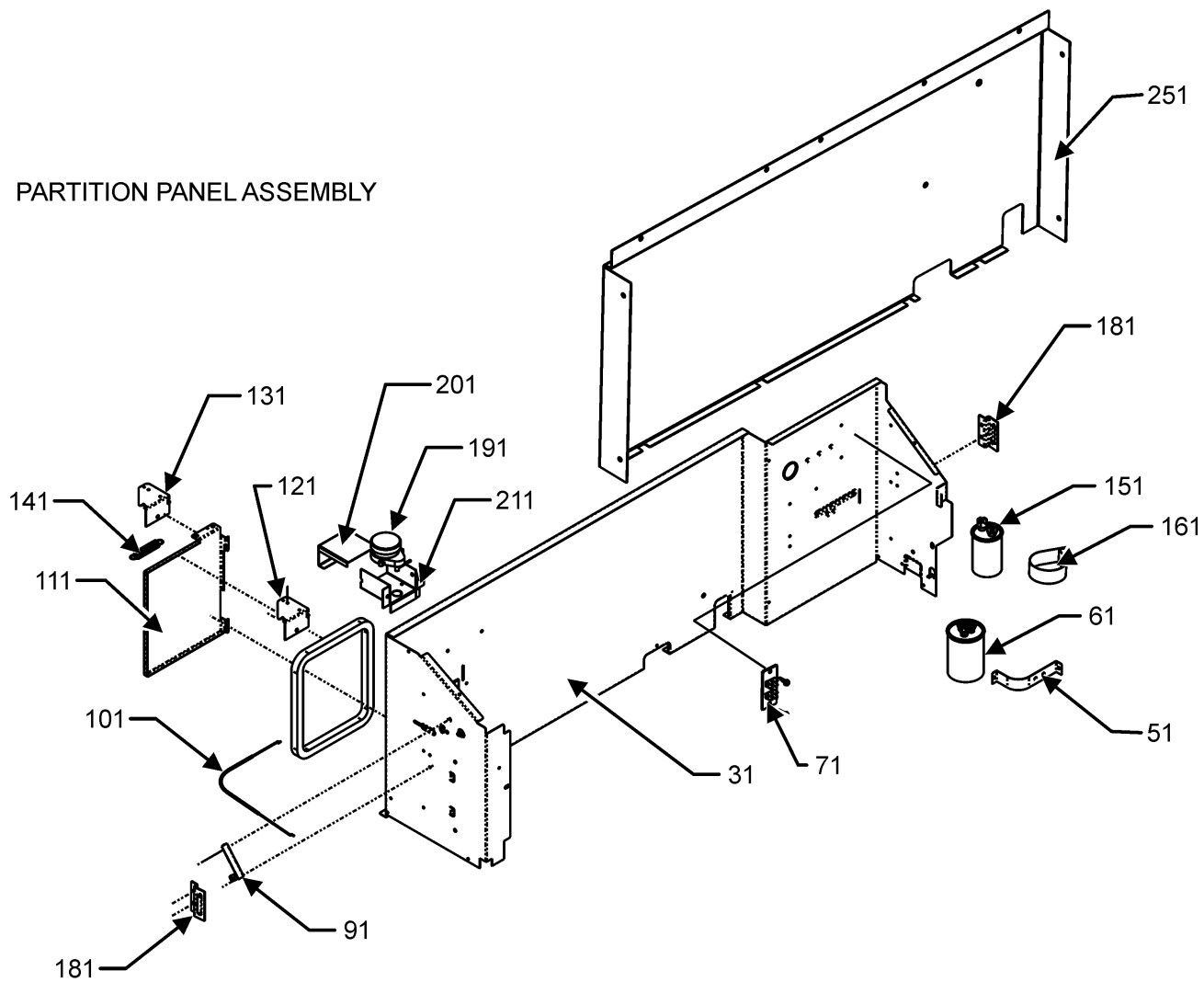
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:		Expanded Model Nomenclature	
11	0161P00048	FRONT, LOUVERS DISCHARGE (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29)	
21	RSKP0012	CONTROL BOARD M70	
31	0130M00600	TRANS, 40VA, 240V/208V TO 120V (M16, M17, M27)	
31	0130M00341	TRANSFORMER 20VA 230V (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M18, M19, M20, M21, M22, M23, M24, M25, M26, 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 (M16, M17, M27)	
121	0130M00181	SPDT RELAY (M1)	
191	0130M00599	TRANSFMR, 40VA, 240V/208V TO 24V (M1, M2, M7, M10, M14, M15, M16, M17, M20, M22, M25, M26, M27, M29)	
261	0130P00104	ANTENNA (M5, M9, M12, M14, M18, M20, M21, M25, M29)	
291	B1337701	PADDLE SWITCH (M2, M7, M10, M14, M15, M20, M22, M25, M26, M29)	
NS	PCBCP147	PCB, CONTROL, D70 (M2, M7, M10, M14, M15, M20, M22, M25, M26, M29)	
		M1 - PTH153G00CHXXGA M2 - PTH153G15DXXXGA M3 - PTH153G25A XXXGA M4 - PTH153G25CQXXGA M5 - PTH153G25CRXXGA M6 - PTH153G25CXXXGA M7 - PTH153G25DXXXGA M8 - PTH153G25QXXXGA M9 - PTH153G25RXXXGA M10 - PTH153G25V XXXGA M11 - PTH153G35A XXXGA M12 - PTH153G35CRXXGA M13 - PTH153G35CXXXGA M14 - PTH153G35DRXXGA M15 - PTH153G35DXXXGA M16 - PTH153G35PQXXGA M17 - PTH153G35PXXXGA M18 - PTH153G35QRXXGA M19 - PTH153G35QXXXGA M20 - PTH153G35RVXXGA M21 - PTH153G35RXXXGA M22 - PTH153G35V XXXGA M23 - PTH153G50A XXXGA M24 - PTH153G50CXXXGA M25 - PTH153G50DRXXGA M26 - PTH153G50DXXXGA M27 - PTH153G50PXXXGA M28 - PTH153G50QXXXGA M29 - PTH153G50RVXXGA	

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:

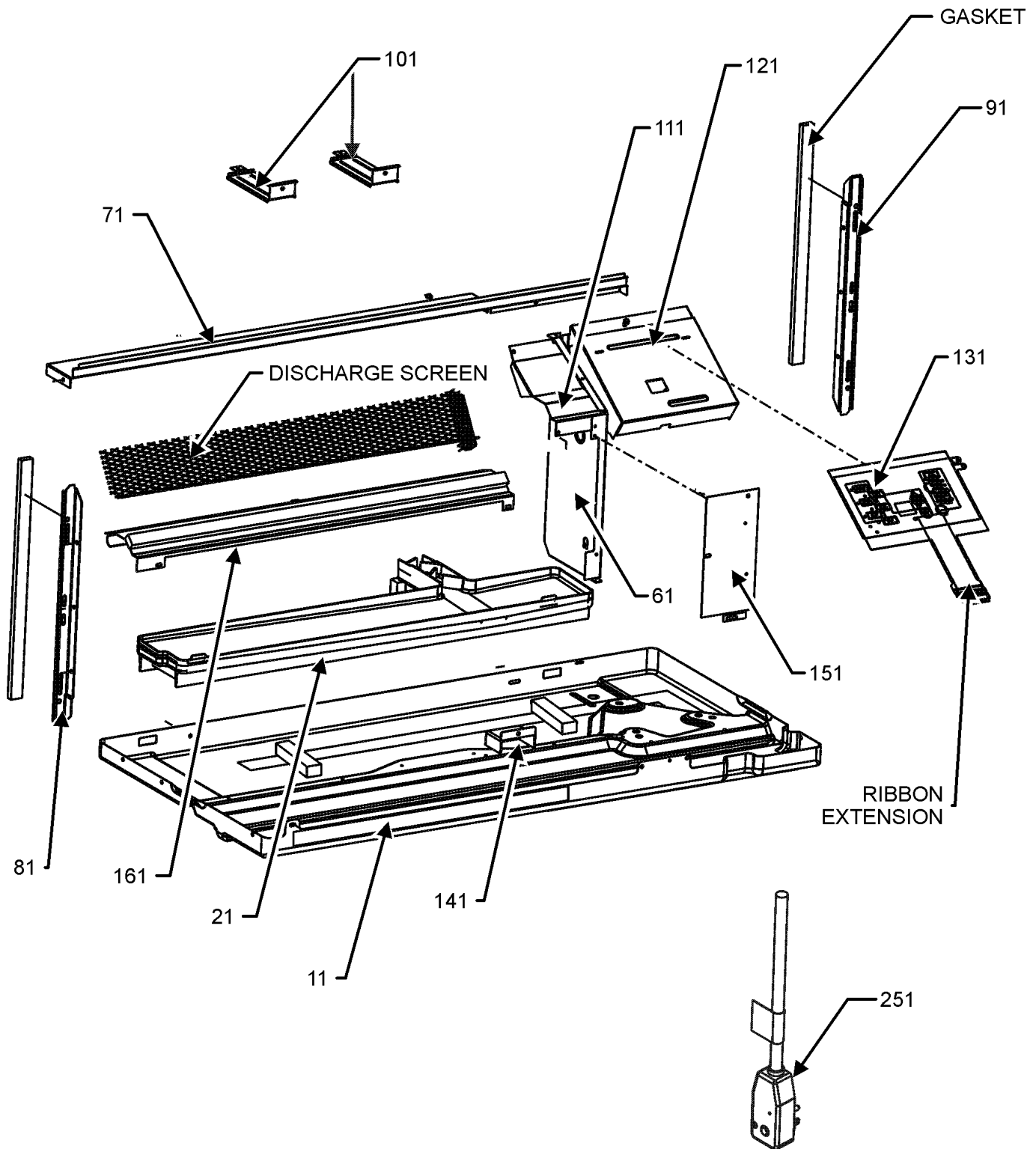
11	0161P00110	CONDENSER SHROUD
21	0131P00025	FAN MOTOR OUTDOOR
31	0121P00093NG	PANEL-PARTITION (M4)
31	0121P00108NG	PANEL-PARTITION (M5, M6, M12, M13, M24)
41	0161P00055	FAN, CONDENSER
51	C6300502	CAPACITOR STRAP
61	CAP050300450CS	CAP, 5/30 MFD/450V/DUAL RD
71	802007090	TERMINAL BOARD
81	0130P00098	THERMISTOR OAT GREEN (M2, M5, M7, M9, M10, M12, M14, M15, M16, M17, M18, M20, M21, M22, M25, M26, M27, M29)
91	11046302	LEVER ARM (M1, M3, M5, M6, M9, M11, M12, M13, M17, M21, M23, M24, M27)
101	0163P00019	CABLE (M1, M3, M5, M6, M9, M11, M12, M13, M17, M21, M23, M24, M27)
111	0121P00177NG	DOOR-VENT PTC (M1, M2, M3, M5, M6, M7, M9, M10, M11, M12, M13, M14, M15, M17, M20, M21, M22, M23, M24, M25, M26, M27, M29)
121	0121P00079	BRACKET, VENT DOOR (M2, M7, M10, M14, M15, M20, M22, M25, M26, M29)
131	0121P00072NG	BRACKET, VENT DOOR-C (M1, M3, M5, M6, M9, M11, M12, M13, M17, M21, M23, M24, M27)
131	0121P00180	BRKT, POWER VENT (M2, M7, M10, M14, M15, M20, M22, M25, M26, M29)
141	11166401	EXTENSION SPRING (M2, M7, M10, M14, M15, M20, M22, M25, M26, M29)
151	CAP020000440RP	CAPACITOR
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, M22, M23, M24, M25, M26, M27, M28, M29)
191	0130P00137	POWER VENT MOTOR (M2, M7, M10, M14, M15, M20, M22, M25, M26, M29)
201	11166201	POWER VENT COVER BRACKET (M2, M7, M10, M14, M15, M20, M22, M25, M26, M29)
211	11166101	POWER VENT MOTOR BRACKET (M2, M7, M10, M14, M15, M20, M22, M25, M26, M29)
251	0121P00174	PANEL - AUXILIARY (M16)
251	0121P00091NG	PANEL-AUXILIARY (M4)
NS	0163P00023	CONDENSATE PUMP (M16, M17, M27)
NS	0121P00077	CONDENSATE PUMP BRACKET (M16, M17, M27)
NS	0130P00133	HUMIDITY SENSOR (M2, M7, M10, M14, M15, M20, M22, M25, M26, M29)

Expanded Model Nomenclature

M1 - PTH153G00CHXXGA
 M2 - PTH153G15DXXXGA
 M3 - PTH153G25A XXXGA
 M4 - PTH153G25CQXXGA
 M5 - PTH153G25CRXXGA
 M6 - PTH153G25CXXXGA
 M7 - PTH153G25DXXXGA
 M8 - PTH153G25QXXXGA
 M9 - PTH153G25RXXXGA
 M10 - PTH153G25V XXXGA
 M11 - PTH153G35A XXXGA
 M12 - PTH153G35CRXXGA
 M13 - PTH153G35CXXXGA
 M14 - PTH153G35DRXXGA
 M15 - PTH153G35DXXXGA
 M16 - PTH153G35PQXXGA
 M17 - PTH153G35PXXXGA
 M18 - PTH153G35QRXXGA
 M19 - PTH153G35QXXXGA
 M20 - PTH153G35RV XXGA
 M21 - PTH153G35RXXXGA
 M22 - PTH153G35V XXXGA
 M23 - PTH153G50A XXXGA
 M24 - PTH153G50CXXXGA
 M25 - PTH153G50DRXXGA
 M26 - PTH153G50DXXXGA
 M27 - PTH153G50PXXXGA
 M28 - PTH153G50QXXXGA
 M29 - PTH153G50RV XXGA

Base Pan Assembly

BASE PAN ASSEMBLY



Base Pan Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

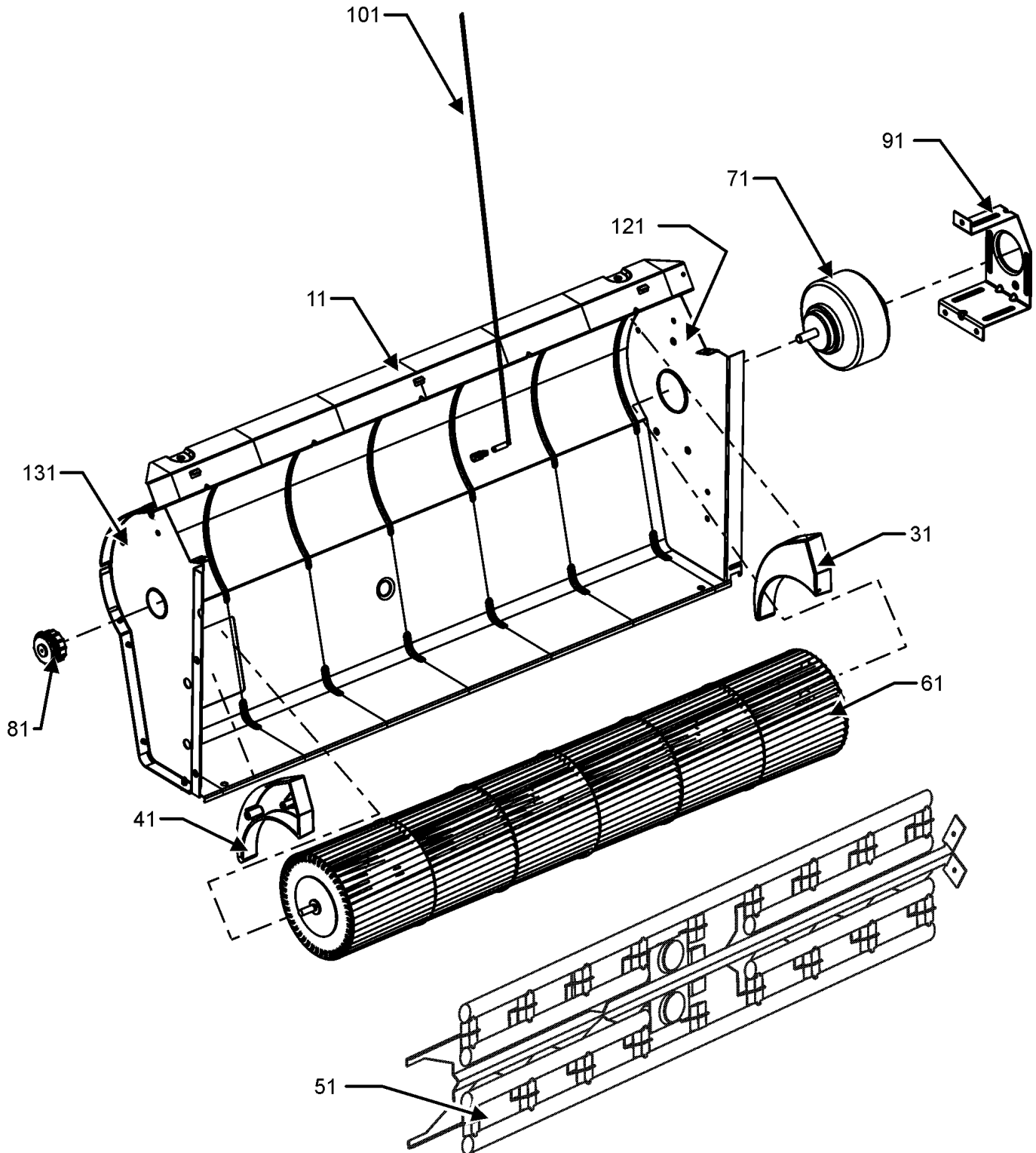
11	0121P00175DG	BASE PAN (M2, M3, M7, M8, M9, M10, M11, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M25, M26, M27, M28, M29)
11	0121P00175NG	BASE PAN (M1, M4, M5, M6, M12, M13, M24)
21	0161P00044	PLASTIC-DRAIN PAN
61	0121P00278	PANEL-MID PTN PTC
71	0121P00063NG	TOP, PARTITION PANEL (M1, M4, M5, M6, M12, M13, M24)
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, M5, M6, M7, M9, M10, M11, M12, M13, M14, M15, M17, M20, M21, M22, M23, M24, M25, M26, M27, 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)
251	0130P00115	CORD,250VAC, 20A (LCD) (M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22)
251	0130P00118	CORD,250VAC, 30A (LCD) (M23, M24, M25, M26, M27, M28, M29)
NS	0130P00109	MEMBRANE (CONTROL)

Expanded Model Nomenclature

M1 - PTH153G00CHXXGA
 M2 - PTH153G15DXXXGA
 M3 - PTH153G25A XXXGA
 M4 - PTH153G25CQXXGA
 M5 - PTH153G25CRXXGA
 M6 - PTH153G25CXXXGA
 M7 - PTH153G25DXXXGA
 M8 - PTH153G25QXXXGA
 M9 - PTH153G25RXXXGA
 M10 - PTH153G25V XXXGA
 M11 - PTH153G35A XXXGA
 M12 - PTH153G35CRXXGA
 M13 - PTH153G35CXXXGA
 M14 - PTH153G35DRXXGA
 M15 - PTH153G35DXXXGA
 M16 - PTH153G35PQXXGA
 M17 - PTH153G35PXXXGA
 M18 - PTH153G35QRXXGA
 M19 - PTH153G35QXXXGA
 M20 - PTH153G35RV XXGA
 M21 - PTH153G35RXXXGA
 M22 - PTH153G35V XXXGA
 M23 - PTH153G50A XXXGA
 M24 - PTH153G50CXXXGA
 M25 - PTH153G50DRXXGA
 M26 - PTH153G50DXXXGA
 M27 - PTH153G50PXXXGA
 M28 - PTH153G50QXXXGA
 M29 - PTH153G50RV XXGA

Indoor Blower Assembly

INDOOR BLOWER ASSEMBLY



Indoor Blower Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

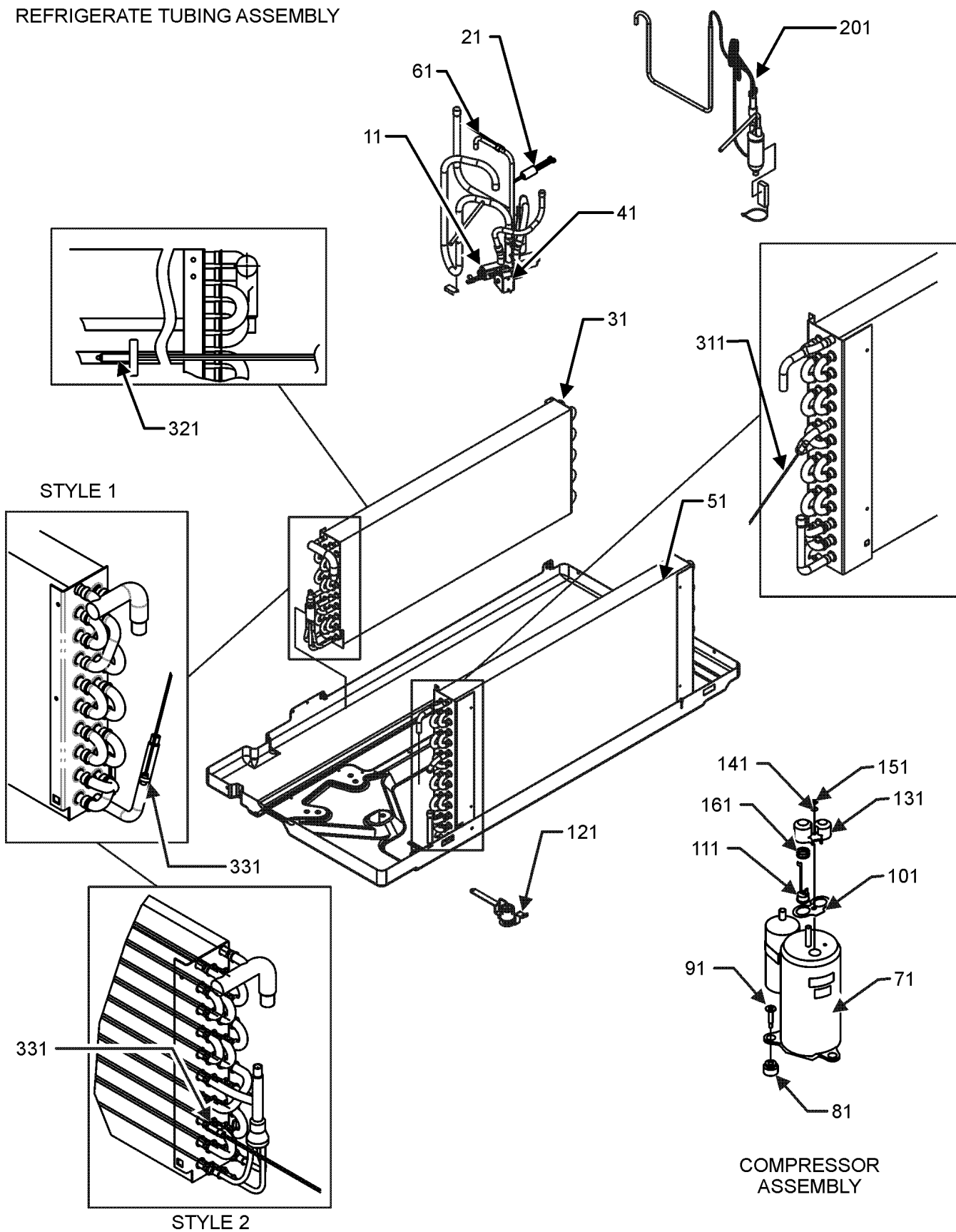
11	0121P00173DG	SCROLL
31	0161P00021	END CAP, RIGHT
41	0161P00022	END CAP, LEFT
51	0275P00019	HEATER ASSY (M3, M4, M5, M6, M7, M8, M9, M10)
51	0275P00022	HEATER ASSY (M2)
51	0275P00038	HEATER ASSY (M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22)
51	0275P00039	HEATER ASSY (M23, M24, M25, M26,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

Expanded Model Nomenclature

M1 - PTH153G00CHXXGA
 M2 - PTH153G15DXXXGA
 M3 - PTH153G25AXXXGA
 M4 - PTH153G25CQXXGA
 M5 - PTH153G25CRXXGA
 M6 - PTH153G25CXXXGA
 M7 - PTH153G25DXXXGA
 M8 - PTH153G25QXXXGA
 M9 - PTH153G25RXXXGA
 M10 - PTH153G25VXXXGA
 M11 - PTH153G35AXXXGA
 M12 - PTH153G35CRXXGA
 M13 - PTH153G35CXXXGA
 M14 - PTH153G35DRXXGA
 M15 - PTH153G35DXXXGA
 M16 - PTH153G35PQXXGA
 M17 - PTH153G35PXXXGA
 M18 - PTH153G35QRXXGA
 M19 - PTH153G35QXXXGA
 M20 - PTH153G35RVXXGA
 M21 - PTH153G35RXXXGA
 M22 - PTH153G35VXXXGA
 M23 - PTH153G50AXXXGA
 M24 - PTH153G50CXXXGA
 M25 - PTH153G50DRXXGA
 M26 - PTH153G50DXXXGA
 M27 - PTH153G50PXXXGA
 M28 - PTH153G50QXXXGA
 M29 - PTH153G50RVXXGA

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	0201P00099	7MM CONDENSER COIL ASSY (M2, M3, M7, M8, M9, M10, M11, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M25, M26, M27, M28, M29)
51	0201P00138NG	PNT-7MM COND COIL ASSY (M1, M4, M5, M6, M12, M13, M24)
61	0130P00077	THERMISTOR IHD ORANGE (M5, M9, M12, M14, M18, M20, M21, M25, M29)
71	50A362QM-9GKG	COMPRESSOR, RECHI
81	60140209	GROMMET - RECHI COMPRESSOR (QTY 3)
91	M0253610	SCREW-SHLDR (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	0210P00462	CAPILLARY ASSY
311	0130P00130	THERMISTOR OCT BLUE
321	0130P00164	THERMISTOR IAT BLACK
331	0130P00159	THERMISTOR ICT RED
NS	BT1392310	PLASTIC CLAMP, .1875 DIA (M2, M7, M10, M14, M15, M20, M22, M25, M26, M29)

Expanded Model Nomenclature

M1 - PTH153G00CHXXGA
 M2 - PTH153G15DXXXGA
 M3 - PTH153G25AXXXGA
 M4 - PTH153G25CQXXGA
 M5 - PTH153G25CRXXGA
 M6 - PTH153G25CXXXGA
 M7 - PTH153G25DXXXGA
 M8 - PTH153G25QXXXGA
 M9 - PTH153G25RXXXGA
 M10 - PTH153G25VXXXGA
 M11 - PTH153G35AXXXGA
 M12 - PTH153G35CRXXGA
 M13 - PTH153G35CXXXGA
 M14 - PTH153G35DRXXGA
 M15 - PTH153G35DXXXGA
 M16 - PTH153G35PQXXGA
 M17 - PTH153G35PXXXGA
 M18 - PTH153G35QRXXGA
 M19 - PTH153G35QXXXGA
 M20 - PTH153G35RVXXGA
 M21 - PTH153G35RXXXGA
 M22 - PTH153G35VXXXGA
 M23 - PTH153G50AXXXGA
 M24 - PTH153G50CXXXGA
 M25 - PTH153G50DRXXGA
 M26 - PTH153G50DXXXGA
 M27 - PTH153G50PXXXGA
 M28 - PTH153G50QXXXGA
 M29 - PTH153G50RVXXGA