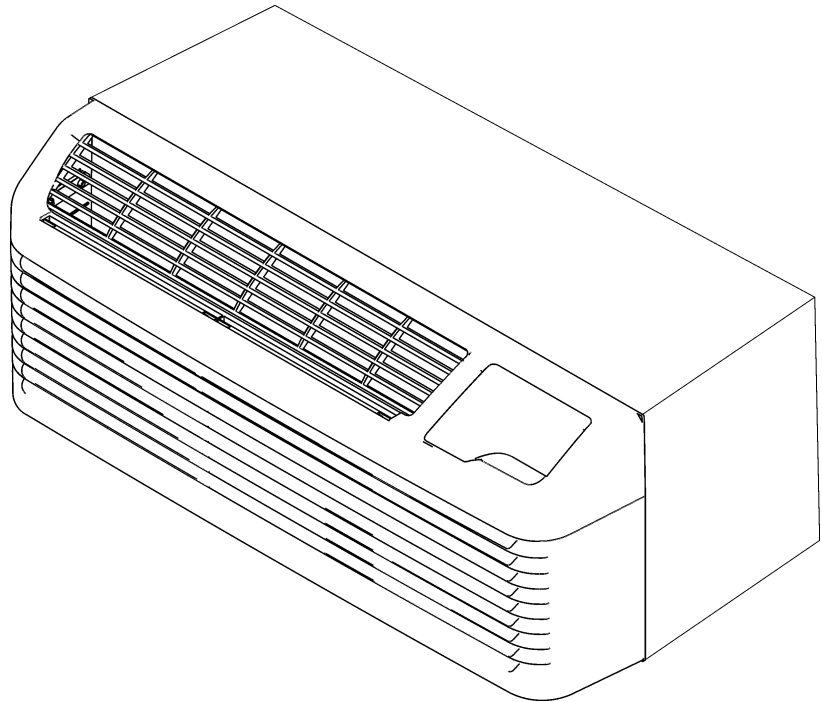

PTH153E Package Terminal Heat Pump

PTH153E25AXXXAA
PTH153E25AXXXAC
PTH153E25CXXXAC
PTH153E35AXXXAA
PTH153E35AXXXAC
PTH153E35CRXXAA
PTH153E35CRXXAC
PTH153E35CXXXAC
PTH153E35DRXXAC
PTH153E35QRXXAA
PTH153E35QRXXAC
PTH153E35QXXXAC
PTH153E50AXXXAA
PTH153E50AXXXAC
PTH153E50CXXXAC
PTH153E50DXXXAC
PTH153E50QXXXAC
PTH153E50RVXXAC
PTH153E50VXXXAC



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This manual is to be used by qualified technicians only.

This manual replaces RP-679C.

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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

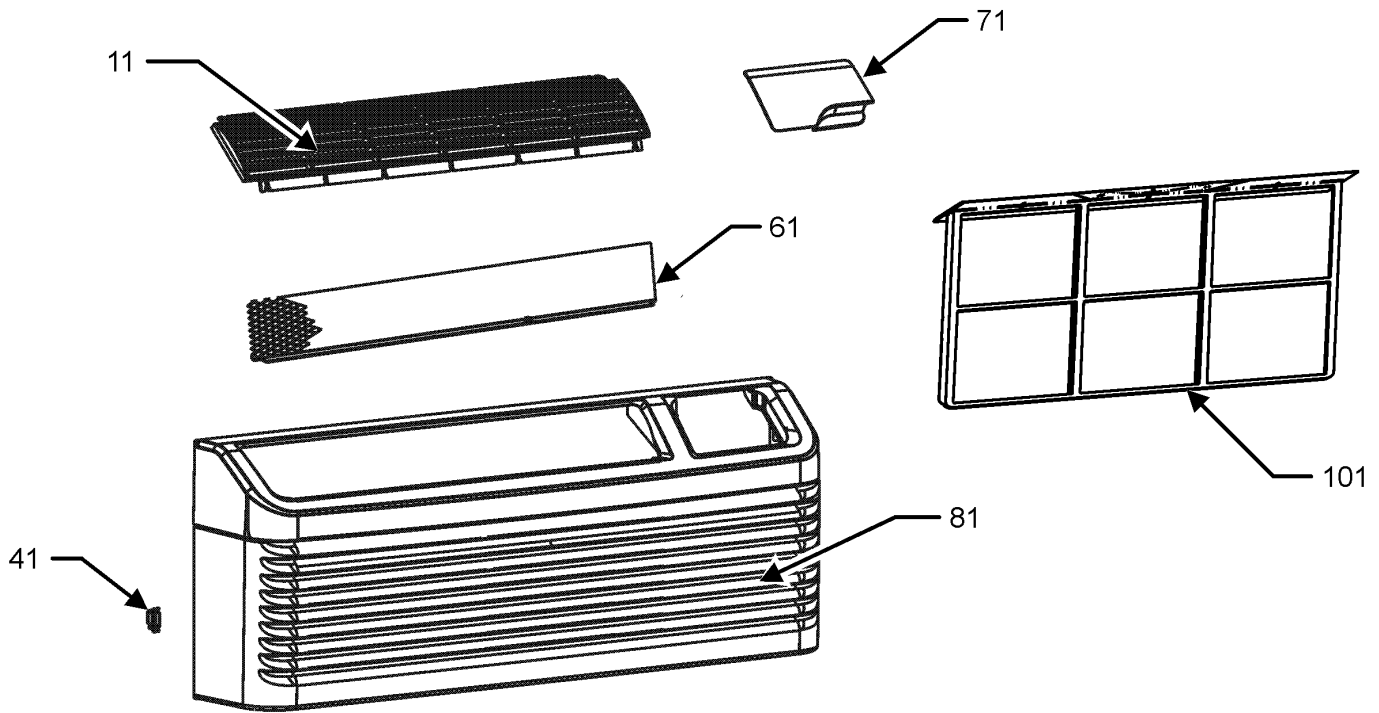
Part

No: Description:

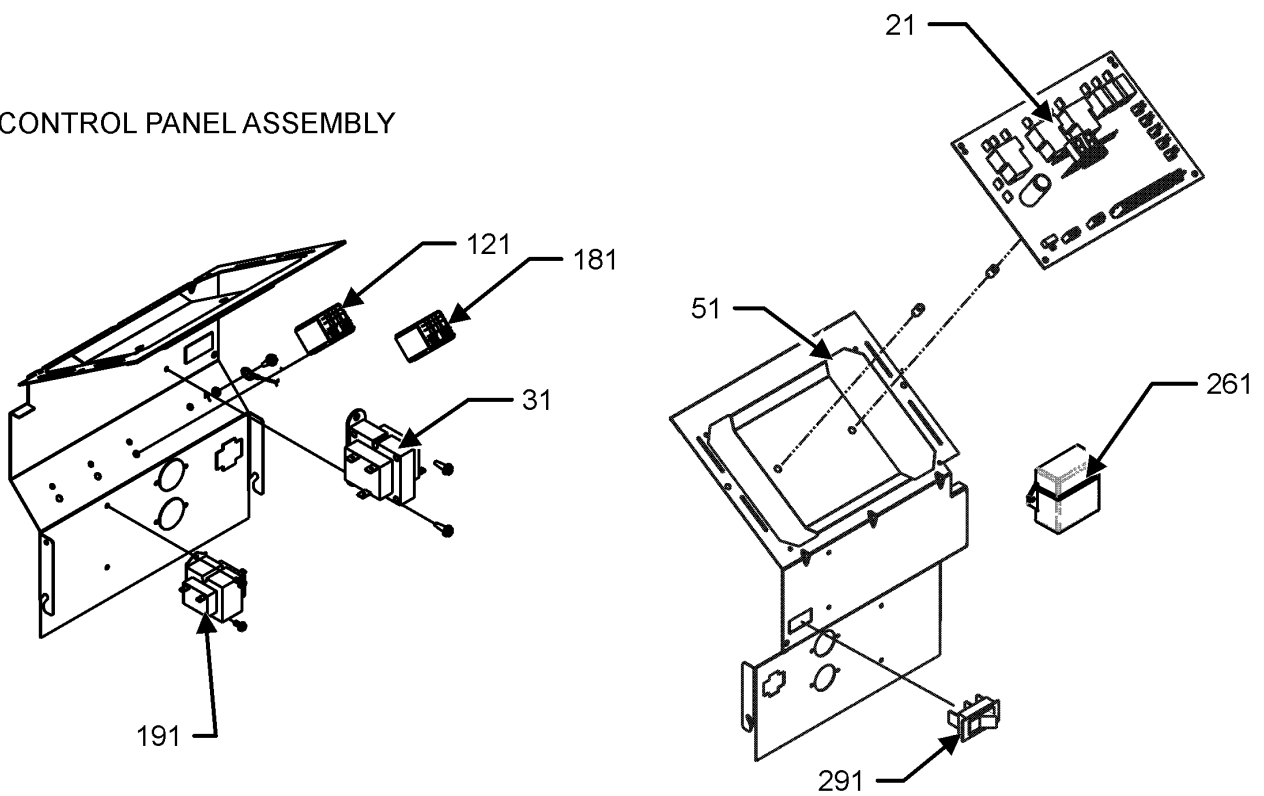
		Expanded Model Nomenclature
20406303	BASE PAN VALVE	M1 - PTH153E25AXXXAA
CAP020000440RP	CAPACITOR 2/440V	M2 - PTH153E25AXXXAC
CAP030300440RS	CAPACITOR 3/30/440V/DUAL RD (M1, M4, M6, M10, M13)	M3 - PTH153E25CXXXAC
CAP050300450CS	CAPACITOR 5/30/450V/DUAL RD (M2, M3, M5, M7, M8, M9, M11, M12, M14, M15, M16, M17, M18, M19)	M4 - PTH153E35AXXXAA
50A362Q	COMPRESSOR, RECHI	M5 - PTH153E35AXXXAC
RSKP0010	CONTROL BOARD M61	M6 - PTH153E35CRXXAA
RSKP0005	CONTROL PANEL COVER AND MEMBRANE	M7 - PTH153E35CRXXAC
0130P00059	CORD, 250VAC, 15A (LCD) (M1, M2, M3)	M8 - PTH153E35CXXXAC
0130P00058	CORD, 250VAC, 20A (LCD) (M4, M5, M6, M7, M8, M9, M10, M11, M12)	M9 - PTH153E35DRXXAC
0130P00061	CORD, 250VAC, 30A (LCD) (M13, M14, M15, M16, M17, M18, M19)	M10 - PTH153E35QRXXAA
0131P00025	FAN MOTOR OUTDOOR (M2, M3, M5, M7, M8, M9, M11, M12, M14, M15, M16, M17, M18, M19)	M11 - PTH153E35QRXXAC
0131P00036	FAN MOTOR, INDOOR	M12 - PTH153E35QXXXAC
0131P00008	FAN MOTOR, OUTDOOR (M1, M4, M6, M10, M13)	M13 - PTH153E50AXXXAA
0161P00055	FAN, CONDENSER	M14 - PTH153E50AXXXAC
0275P00039	HEATER ASSY (M13, M14, M15, M16, M17, M18, M19)	M15 - PTH153E50CXXXAC
0275P00038	HEATER ASSY (M4, M5, M6, M7, M8, M9, M10, M11, M12)	M16 - PTH153E50DXXXAC
0275P00019	HEATER ASSY (M1, M2, M3)	M17 - PTH153E50QXXXAC
0130P00137	MOTOR (M9, M16, M18, M19)	M18 - PTH153E50RVXXAC
60343546	OVERLOAD PROTECTOR	M19 - PTH153E50VXXXAC
0130M00096	RELAY (M2, M3, M5, M7, M8, M9, M11, M12, M14, M15, M16, M17, M18, M19)	
C8873932	RELAY (POWER VENT) (M9, M16, M18, M19)	
0130M00169	SWITCH, HIGH PRESS	
0130P00074	THERMISTOR (M2, M3, M5, M7, M8, M9, M11, M12, M14, M15, M16, M17, M18, M19)	
20295711	THERMISTOR (M1, M4, M6, M10, M13)	
0130P00134	THERMISTOR - DISCHARGE	
0130P00077	THERMISTOR - INDOOR (M6, M7, M9, M10, M11, M18)	
0130P00047	THERMISTOR - INDOOR AMBIENT (M1, M4, M6, M10, M13)	
0130P00086	THERMISTOR - INDOOR COIL (M2, M3, M5, M7, M8, M9, M11, M12, M14, M15, M16, M17, M18, M19)	
0130P00098	THERMISTOR - OUTDOOR AMBIENT (M6, M7, M9, M10, M11, M18)	
0130P00093	THERMISTOR, .375 CLIP, BLUE (M2, M3, M5, M7, M8, M9, M11, M12, M14, M15, M16, M17, M18, M19)	
0130P00033	THERMISTOR-INDOOR COIL (M1, M4, M6, M10, M13)	
0130M00329	TRANSFORMER 20VA 60HZ	
0130M00149	TRANSFORMER 240V/208V TO 24V, 40VA (M9, M16, M18, M19)	

Front Panel and Control Panel Assembly

FRONT PANEL ASSEMBLY



CONTROL PANEL ASSEMBLY



Front Panel and Control Panel Assembly

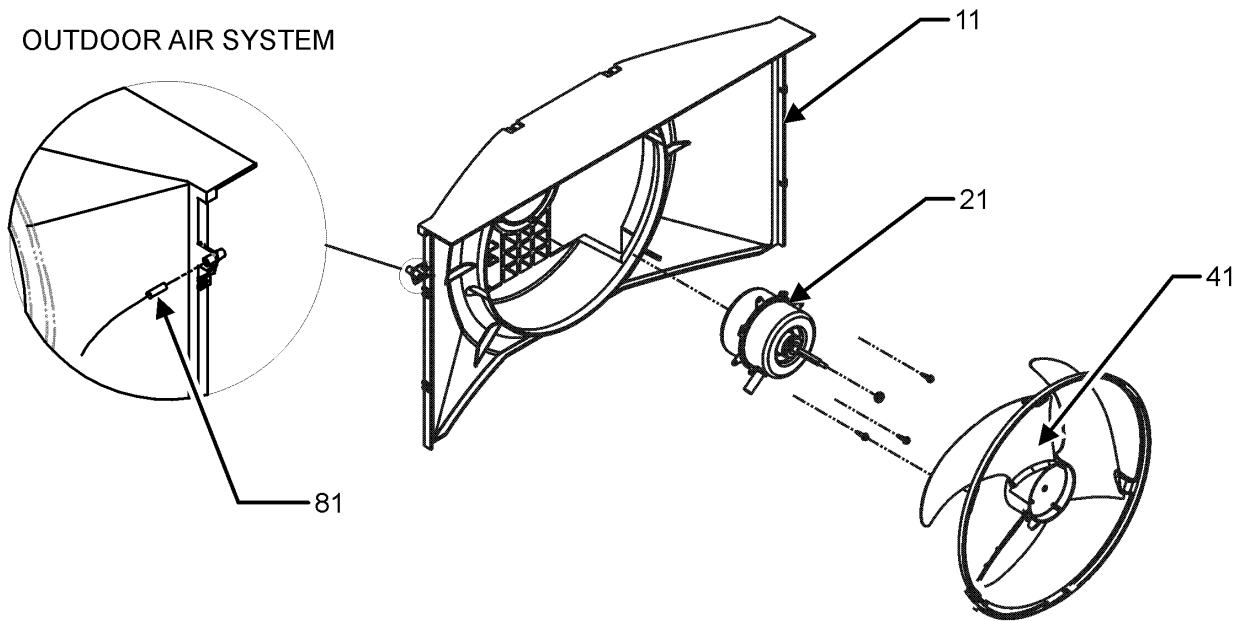
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0161P00048		FRONT-DICHARGE LOUVERS
21	RSKP0010		CONTROL BOARD M61
31	0130M00329		TRANSFORMER 20VA 60HZ
41	0163P00025		CLIP (QTY 2)
51	0121P00130		PANEL, CONTROL
61	0121P00073		SCREEN, DISCHARGE
71	0261P00003		DOOR ASSY -AMANA-
81	0261P00011		FRONT ASSY
101	0161P00035		FILTER, RACK (QTY 2)
121	0130M00096		RELAY (M2, M3, M5, M7, M8, M9, M11, M12, M14, M15, M16, M17, M18, M19)
181	C8873932		RELAY (POWER VENT) (M9, M16, M18, M19)
191	0130M00149		TRANSFORMER 240V/208V TO 24V, 40VA (M9, M16, M18, M19)
261	0130P00104		ANTENNA (DIGITENNA) (M6, M7, M9, M10, M11, M18)
291	B1337701		PADDLE SWITCH (M9, M16, M18, M19)

Expanded Model Nomenclature

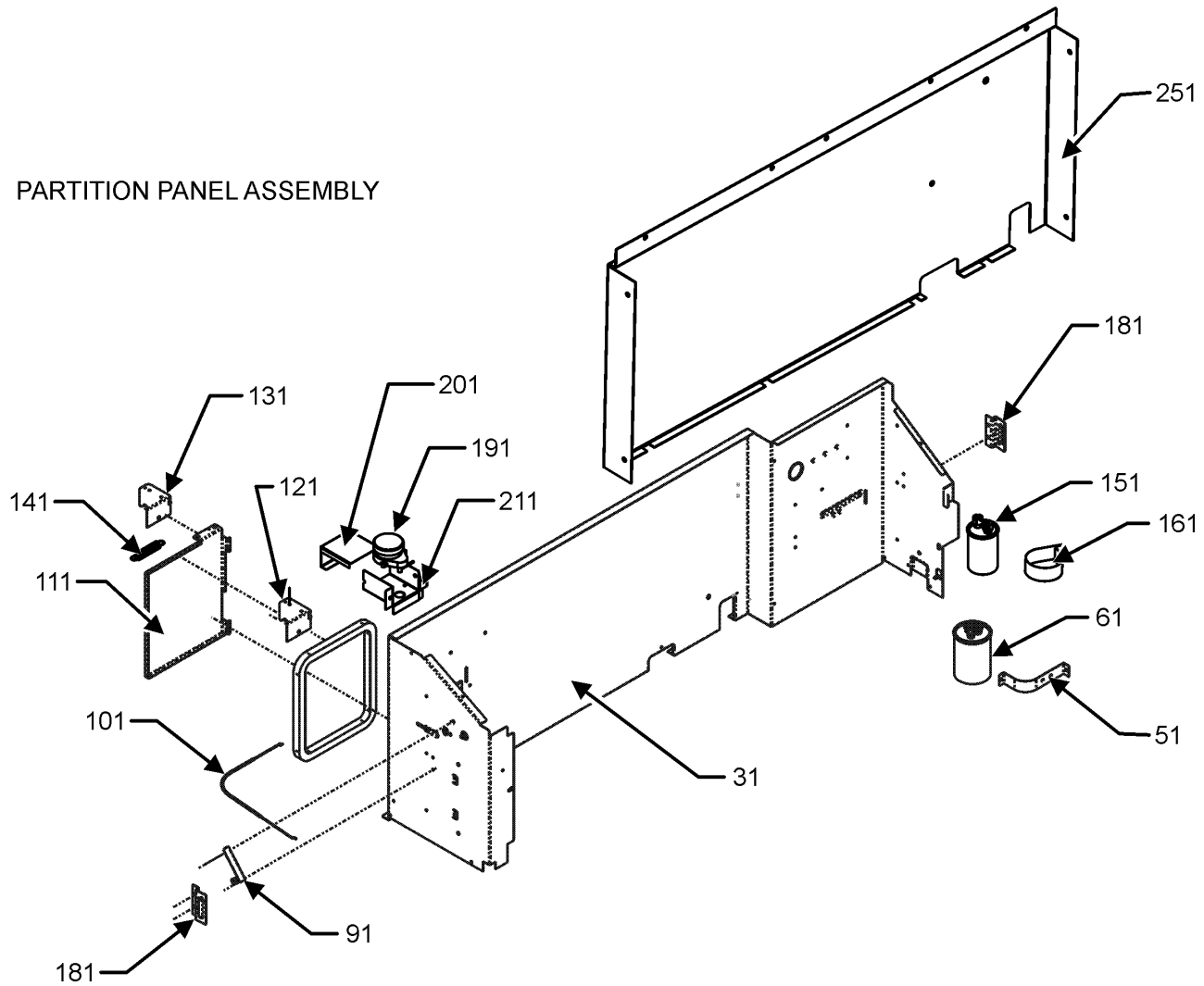
M1 - PTH153E25AXXXAA
 M2 - PTH153E25AXXXAC
 M3 - PTH153E25CXXXAC
 M4 - PTH153E35AXXXAA
 M5 - PTH153E35AXXXAC
 M6 - PTH153E35CRXXAA
 M7 - PTH153E35CRXXAC
 M8 - PTH153E35CXXXAC
 M9 - PTH153E35DRXXAC
 M10 - PTH153E35QRXXAA
 M11 - PTH153E35QRXXAC
 M12 - PTH153E35QXXXAC
 M13 - PTH153E50AXXXAA
 M14 - PTH153E50AXXXAC
 M15 - PTH153E50CXXXAC
 M16 - PTH153E50DXXXAC
 M17 - PTH153E50QXXXAC
 M18 - PTH153E50RVXXAC
 M19 - PTH153E50VXXXAC

Outdoor System and Partition Panel Assy

OUTDOOR AIR SYSTEM



PARTITION PANEL ASSEMBLY



Outdoor System and Partition Panel Assy

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

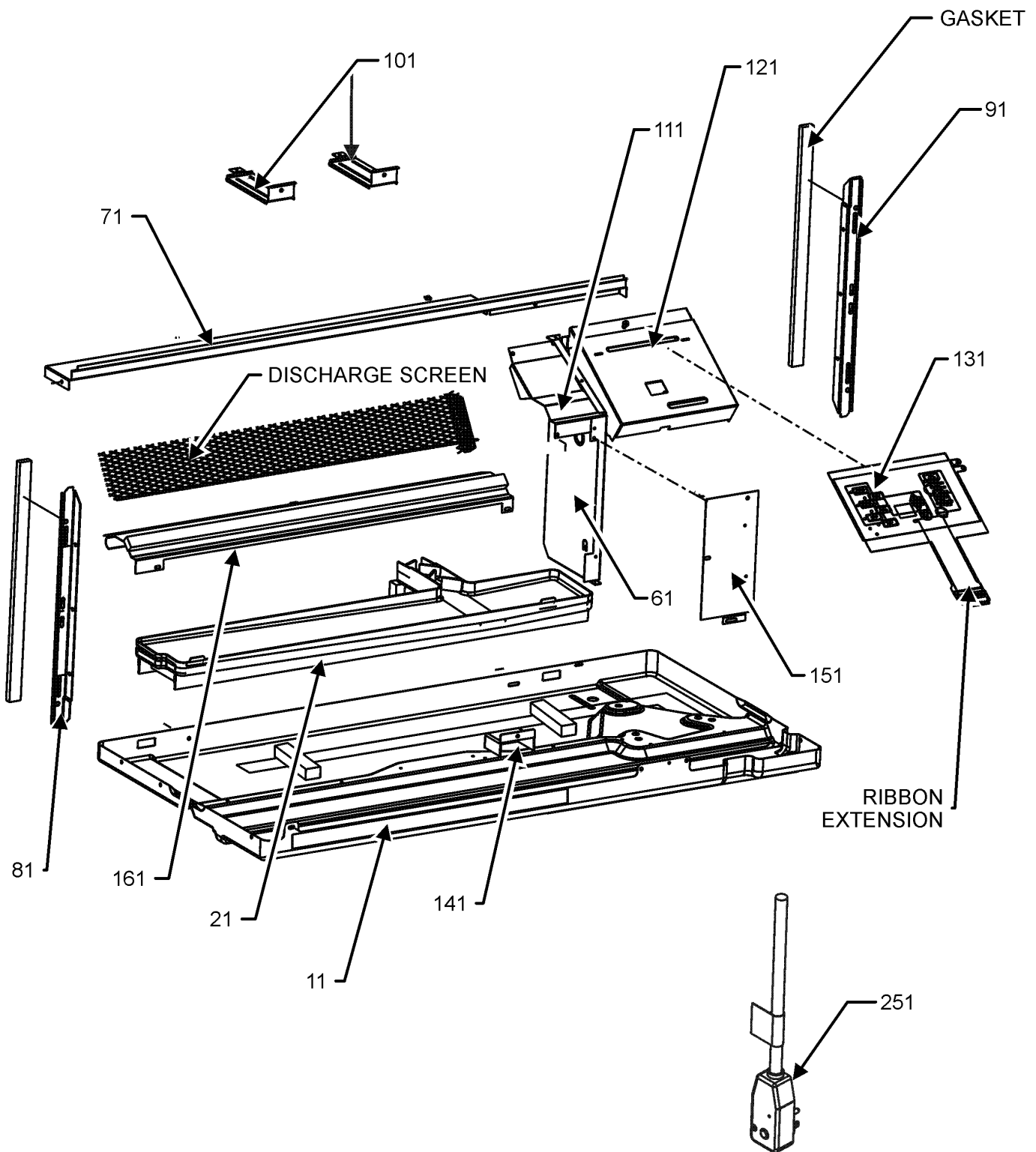
11	0161P00053	SHROUD, CONDENSOR (M2, M3, M5, M7, M8, M9, M11, M12, M14, M15, M16, M17, M18, M19)
21	0131P00025	FAN MOTOR OUTDOOR (M2, M3, M5, M7, M8, M9, M11, M12, M14, M15, M16, M17, M18, M19)
21	0131P00008	FAN MOTOR, OUTDOOR (M1, M4, M6, M10, M13)
31	0121P00093	PANEL-PARTITION (M11, M12, M17)
31	0121P00108NG	PANEL-PARTITION (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M13, M14, M15, M16, M18, M19)
41	0161P00055	FAN, CONDENSER
51	C6300502	CAPACITOR STRAP
61	CAP030300440RS	CAPACITOR 3/30/440V/DUAL RD (M1, M4, M6, M10, M13)
61	CAP050300450CS	CAPACITOR 5/30/450V/DUAL RD (M2, M3, M5, M7, M8, M9, M11, M12, M14, M15, M16, M17, M18, M19)
81	0130P00098	THERMISTOR - OUTDOOR AMBIENT (M6, M7, M9, M10, M11, M18)
91	11046302	LEVER ARM (M1, M2, M3, M4, M5, M6, M7, M8, M10, M13, M14, M15)
101	0163P00019	CABLE (M1, M2, M3, M4, M5, M6, M7, M8, M10, M13, M14, M15)
111	0121P00177NG	DOOR - PNT VENT PTC (M1, M2, M3, M4, M5, M6, M7, M8, M9, M13, M14, M15, M16, M18, M19)
121	0121P00079	BRACKET, VENT DOOR (M9, M16, M18, M19)
131	0121P00072NG	BRACKET, VENT DOOR-C (M1, M2, M3, M4, M5, M6, M7, M8, M10, M13, M14, M15)
131	0121P00180	BRKT, POWER VENT (M9, M16, M18, M19)
141	11166401	EXTENSION SPRING (M9, M16, M18, M19)
151	CAP020000440RP	CAPACITOR 2/440V
161	0163P00029	CAPACITOR CLAMP
181	11191703	PARTITION PANEL BRACKET (QTY 2)
191	0130P00137	MOTOR (M9, M16, M18, M19)
201	11166201	POWER VENT COVER BRACKET (M9, M16, M18, M19)
211	11166101	POWER VENT MOTOR BRACKET (M9, M16, M18, M19)
251	0121P00091	PANEL-AUXILLIARY (M11, M12, M17)

Expanded Model Nomenclature

M1 - PTH153E25AXXXAA
M2 - PTH153E25AXXXAC
M3 - PTH153E25CXXXAC
M4 - PTH153E35AXXXAA
M5 - PTH153E35AXXXAC
M6 - PTH153E35CRXXAA
M7 - PTH153E35CRXXAC
M8 - PTH153E35CXXXAC
M9 - PTH153E35DRXXAC
M10 - PTH153E35QRXXAA
M11 - PTH153E35QRXXAC
M12 - PTH153E35QXXXAC
M13 - PTH153E50AXXXAA
M14 - PTH153E50AXXXAC
M15 - PTH153E50CXXXAC
M16 - PTH153E50DXXXAC
M17 - PTH153E50QXXXAC
M18 - PTH153E50RVXXAC
M19 - PTH153E50VXXXAC

Base Pan Assembly

BASE PAN ASSEMBLY



Base Pan Assembly

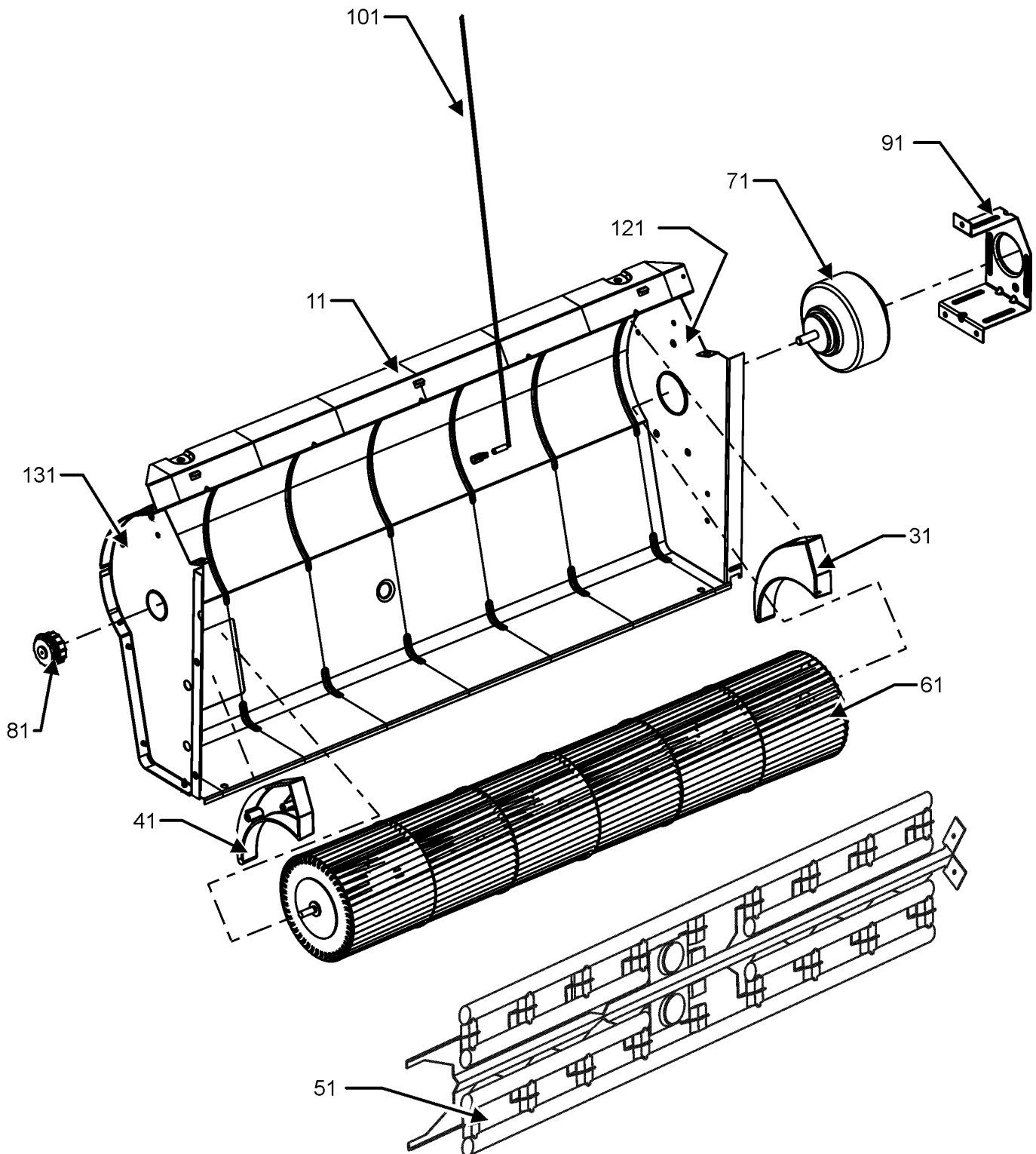
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0121P00175DG		BASE PAN (M1, M2, M4, M5, M9, M10, M11, M12, M13, M14, M16, M17, M18, M19)
11	0121P00175NG		BASE PAN (M3, M6, M7, M8, M15)
21	0161P00044		PLASTIC-DRAIN PAN
61	20403301		MID PARTITION PANEL
71	0121P00063NG		TOP, 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	0121P00129		COVER-CONTROL PANEL
131	RSKP0005		CONTROL PANEL COVER AND MEMBRANE
141	0161P00016		PLASTIC-HOOD (M1, M2, M3, M4, M5, M6, M7, M8, M9, M13, M14, M15, M16, M18, M19)
151	20410801		ACCESS COVER
161	0121P00061DG		CUTOFF-SCROLL DG
251	0130P00059		CORD, 250VAC, 15A (LCD) (M1, M2, M3)
251	0130P00058		CORD, 250VAC, 20A (LCD) (M4, M5, M6, M7, M8, M9, M10, M11, M12)
251	0130P00061		CORD, 250VAC, 30A (LCD) (M13, M14, M15, M16, M17, M18, M19)
NS	0130P00054		MEMBRANE (CONTROL)

Expanded Model Nomenclature

M1 - PTH153E25AXXXAA
 M2 - PTH153E25AXXXAC
 M3 - PTH153E25CXXXAC
 M4 - PTH153E35AXXXAA
 M5 - PTH153E35AXXXAC
 M6 - PTH153E35CRXXAA
 M7 - PTH153E35CRXXAC
 M8 - PTH153E35CXXXAC
 M9 - PTH153E35DRXXAC
 M10 - PTH153E35QRXXAA
 M11 - PTH153E35QRXXAC
 M12 - PTH153E35QXXXAC
 M13 - PTH153E50AXXXAA
 M14 - PTH153E50AXXXAC
 M15 - PTH153E50CXXXAC
 M16 - PTH153E50DXXXAC
 M17 - PTH153E50QXXXAC
 M18 - PTH153E50RVXXAC
 M19 - PTH153E50VXXXAC

Indoor Blower Assembly

INDOOR BLOWER ASSEMBLY



Indoor Blower Assembly

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

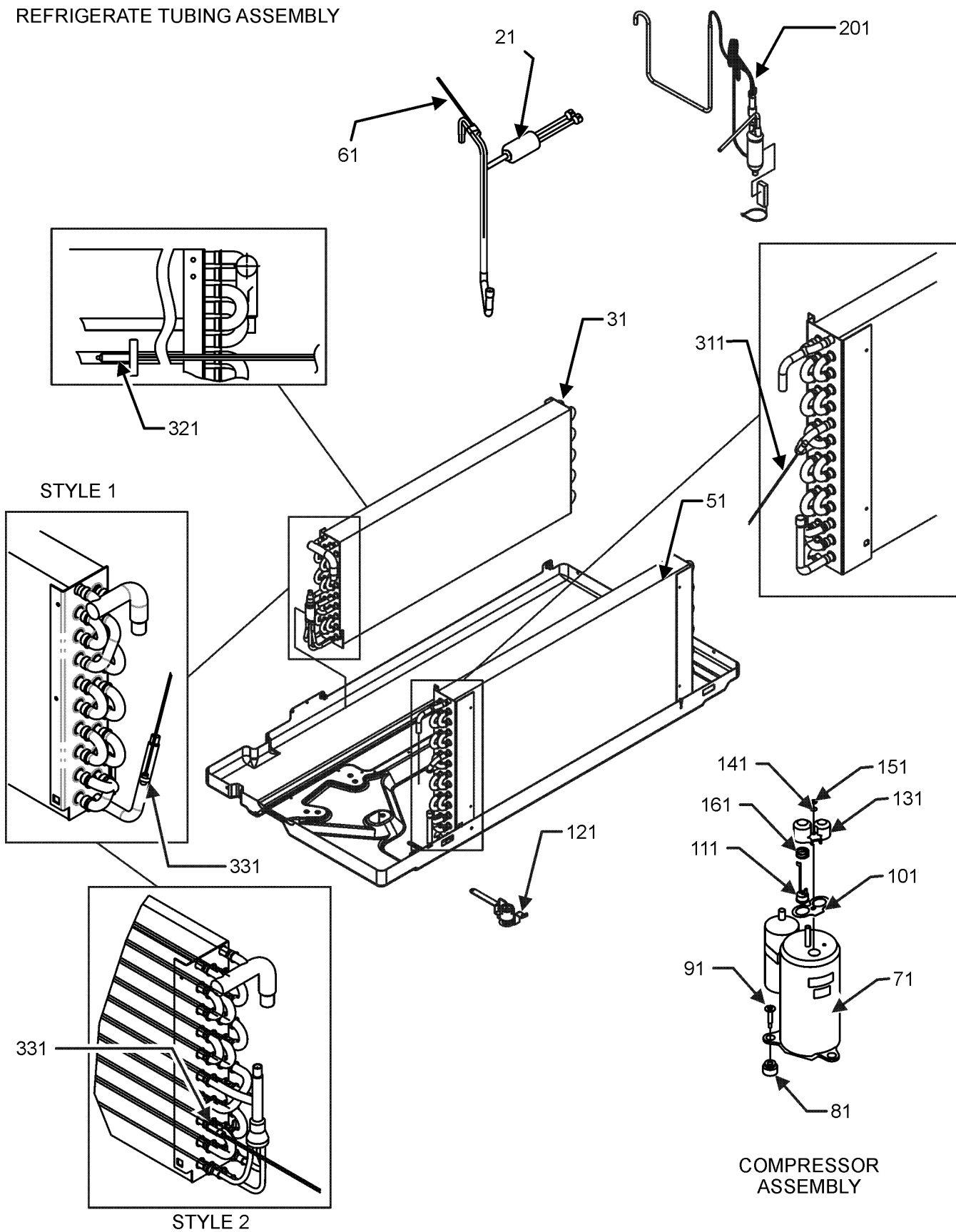
11	0121P00173DG	SCROLL
31	0161P00021	END CAP, RIGHT
41	0161P00022	END CAP, LEFT
51	0275P00019	HEATER ASSY (M1, M2, M3)
51	0275P00038	HEATER ASSY (M4, M5, M6, M7, M8, M9, M10, M11, M12)
51	0275P00039	HEATER ASSY (M13, M14, M15, M16, M17, M18, M19)
61	0150P00004	WHEEL, BLOWER
71	0131P00036	FAN MOTOR, INDOOR
81	0163P00027	BEARING
91	0121P00048	BRACKET-MOTOR MOUNT
101	0130P00134	THERMISTOR - DISCHARGE
121	0121P00059DG	ENDPLATE-RH SCROLL
131	0121P00215DG	ENDPLATE- LH SCROLL

Expanded Model Nomenclature

M1 - PTH153E25AXXXAA
 M2 - PTH153E25AXXXAC
 M3 - PTH153E25CXXXAC
 M4 - PTH153E35AXXXAA
 M5 - PTH153E35AXXXAC
 M6 - PTH153E35CRXXAA
 M7 - PTH153E35CRXXAC
 M8 - PTH153E35CXXXAC
 M9 - PTH153E35DRXXAC
 M10 - PTH153E35QRXXAA
 M11 - PTH153E35QRXXAC
 M12 - PTH153E35QXXXAC
 M13 - PTH153E50AXXXAA
 M14 - PTH153E50AXXXAC
 M15 - PTH153E50CXXXAC
 M16 - PTH153E50DXXXAC
 M17 - PTH153E50QXXXAC
 M18 - PTH153E50RVXXAC
 M19 - PTH153E50VXXXAC

Refrigerate Tubing Assembly

REFRIGERATE TUBING ASSEMBLY



COMPRESSOR ASSEMBLY

Refrigerate Tubing Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
21	0130M00169		SWITCH, HIGH PRESS
31	0202P00065		EVAP ASSY, 5/16, 3 ROW
51	0201P00079		CONDENSER ASSY (M1, M2, M4, M5, M9, M10, M11, M12, M13, M14, M16, M17, M18, M19)
51	0201P00083DG		CONDENSER ASSY PNT (M6)
51	0201P00083NG		CONDENSER ASSY PNT (M3, M7, M8, M15)
61	0130P00077		THERMISTOR - INDOOR (M6, M7, M9, M10, M11, M18)
71	50A362Q		COMPRESSOR, RECHI
81	60140209		GROMMET - RECHI COMPRESSOR
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	0210P00152		CAPILLARY WELDMENT
311	20295711		THERMISTOR (M1, M4, M6, M10, M13)
311	0130P00093		THERMISTOR, .375 CLIP, BLUE (M2, M3, M5, M7, M8, M9, M11, M12, M14, M15, M16, M17, M18, M19)
321	0130P00074		THERMISTOR (M2, M3, M5, M7, M8, M9, M11, M12, M14, M15, M16, M17, M18, M19)
321	0130P00047		THERMISTOR - INDOOR AMBIENT (M1, M4, M6, M10, M13)
331	0130P00086		THERMISTOR - INDOOR COIL (M2, M3, M5, M7, M8, M9, M11, M12, M14, M15, M16, M17, M18, M19)
331	0130P00033		THERMISTOR-INDOOR COIL (M1, M4, M6, M10, M13)

Expanded Model Nomenclature

M1 - PTH153E25AXXXAA
 M2 - PTH153E25AXXXAC
 M3 - PTH153E25CXXXAC
 M4 - PTH153E35AXXXAA
 M5 - PTH153E35AXXXAC
 M6 - PTH153E35CRXXAA
 M7 - PTH153E35CRXXAC
 M8 - PTH153E35CXXXAC
 M9 - PTH153E35DRXXAC
 M10 - PTH153E35QRXXAA
 M11 - PTH153E35QRXXAC
 M12 - PTH153E35QXXXAC
 M13 - PTH153E50AXXXAA
 M14 - PTH153E50AXXXAC
 M15 - PTH153E50CXXXAC
 M16 - PTH153E50DXXXAC
 M17 - PTH153E50QXXXAC
 M18 - PTH153E50RVXXAC
 M19 - PTH153E50VXXXAC