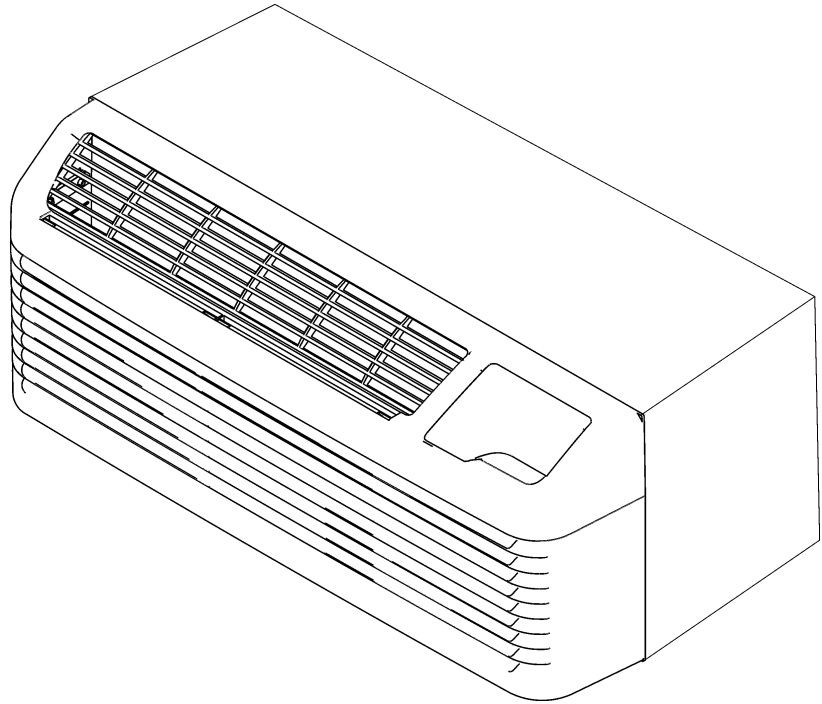


PTH124E Package Terminal Heat Pump

PTH124E25AXXXAC
PTH124E25CXXXAB
PTH124E25CXXXAC
PTH124E25RXXXAB
PTH124E35AXXXAC
PTH124E35CXXXAB
PTH124E35CXXXAC
PTH124E35DXXXAB
PTH124E35QRXXAC
PTH124E35QXXXAC
PTH124E35RXXXAB
PTH124E35VXXXAC
PTH124E50AXXXAB
PTH124E50AXXXAC
PTH124E50CXXXAB
PTH124E50CXXXAC
PTH124E50DXXXAC
PTH124E50RXXXAB



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This manual is to be used by qualified technicians only.

This manual replaces RP-678D.

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Important Information

Index

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

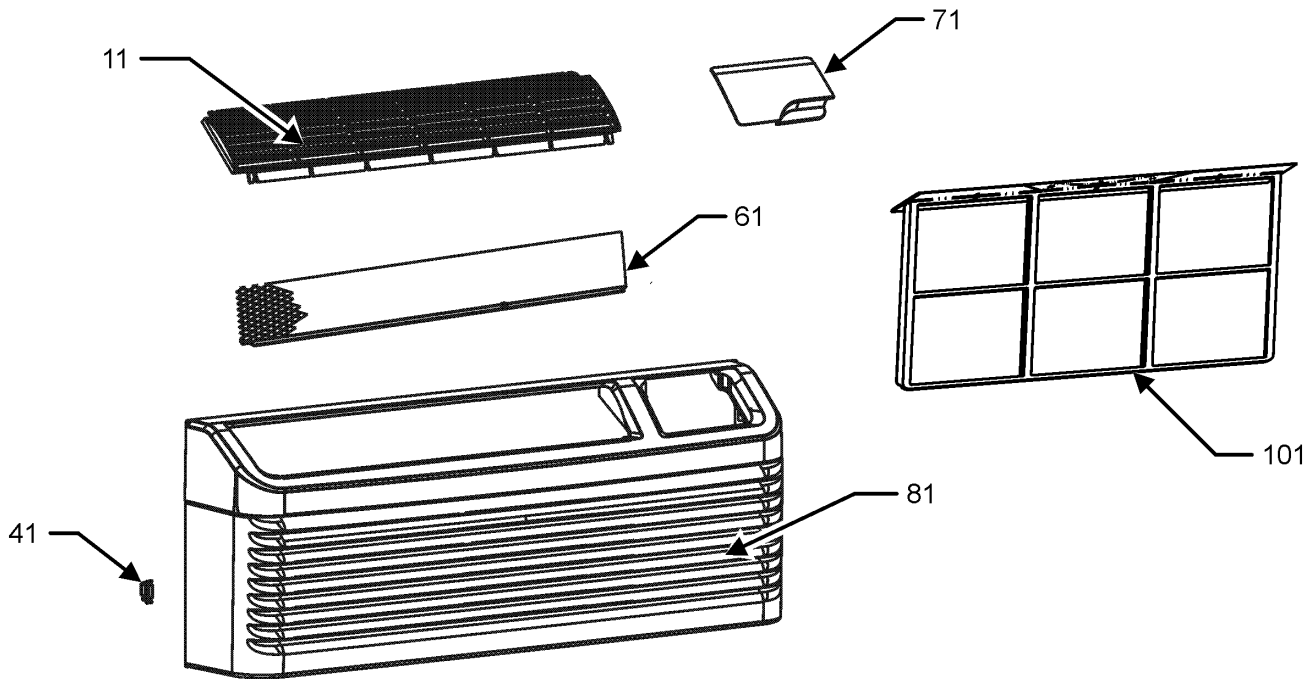
Part

No: Description:

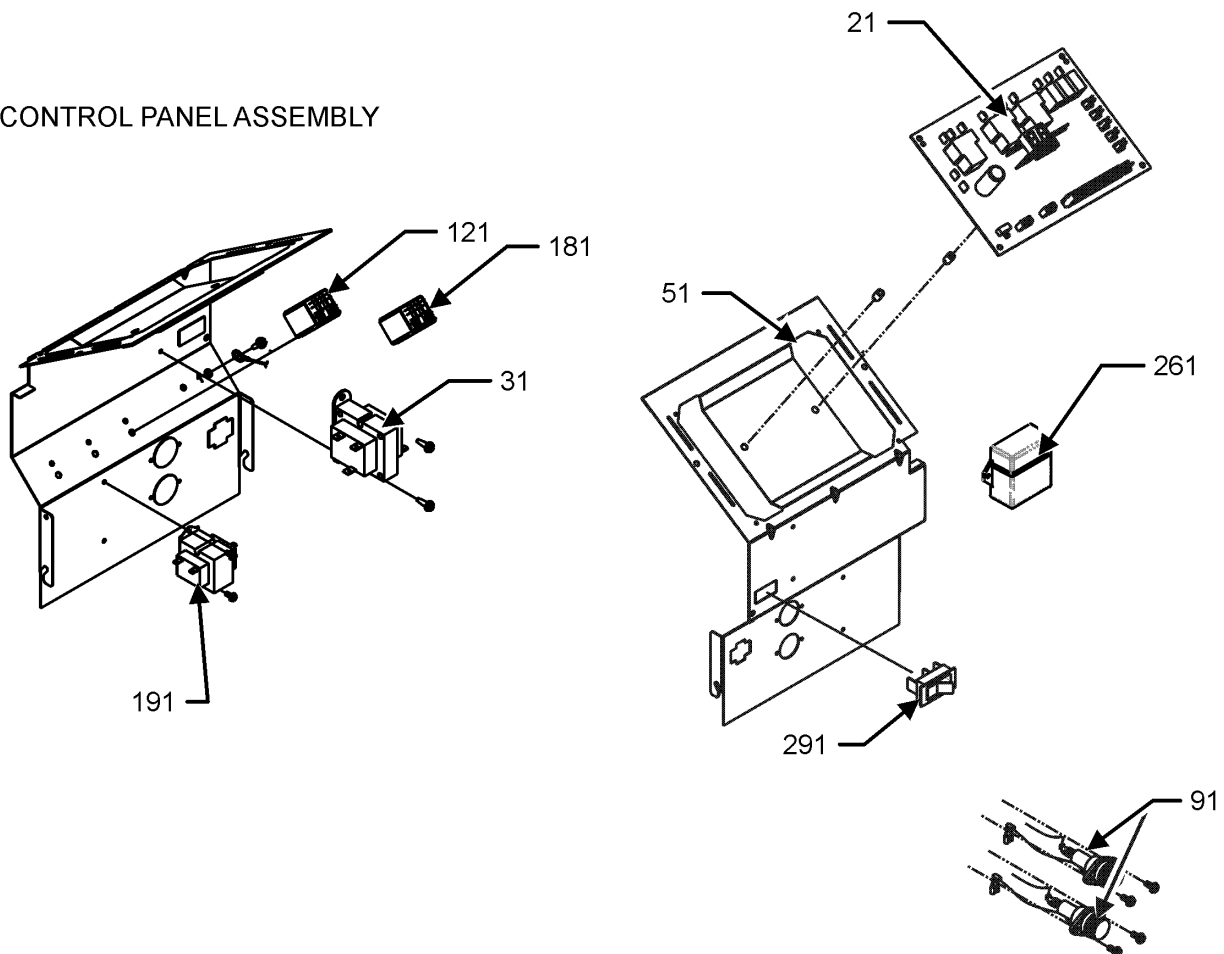
		Expanded Model Nomenclature
20406303	BASE PAN VALVE	M1 - PTH124E25AXXXAC
CAP010000500RP	CAPACITOR (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)	M2 - PTH124E25CXXXAB
CAP015000500RP	CAPACITOR (M13, M14, M15, M16, M17, M18)	M3 - PTH124E25CXXXAC
CAP020300450CS	CAPACITOR 2/30/450V/DUAL RD (M1, M3, M5, M7, M9, M10, M12, M14, M16, M17)	M4 - PTH124E25RXXXAB
CAP020300440RS	CAPACITOR, 440V (M2, M4, M6, M8, M11, M13, M15, M18)	M5 - PTH124E35AXXXAC
44A287A	COMPRESSOR, RECHI	M6 - PTH124E35CXXXAB
RSKP0010	CONTROL BOARD M61	M7 - PTH124E35CXXXAC
RSKP0005	CONTROL PANEL COVER AND MEMBRANE	M8 - PTH124E35DXXXAB
11114701	CORD 277 VAC, 20A (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)	M9 - PTH124E35QRXXAC
11114801	CORD 277 VAC, 30A (M13, M14, M15, M16, M17, M18)	M10 - PTH124E35QXXXAC
0130M00132	CUT-OUT SWITCH, HIGH PRESSURE	M11 - PTH124E35RXXXAB
0131P00017	FAN MOTOR OUTDOOR (M2, M4, M6, M8, M11, M13, M15, M18)	M12 - PTH124E35VXXXAC
0131P00038	FAN MOTOR, INDOOR (M13, M14, M15, M16, M17, M18)	M13 - PTH124E50AXXXAB
0131P00037	FAN MOTOR, INDOOR (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)	M14 - PTH124E50AXXXAC
0131P00028	FAN MOTOR, OUTDOOR (M1, M3, M5, M7, M9, M10, M12, M14, M16, M17)	M15 - PTH124E50CXXXAB
0161P00055	FAN, CONDENSER	M16 - PTH124E50CXXXAC
A3410402	FUSE 15A (M1, M2, M3, M4)	M17 - PTH124E50DXXXAC
A3410403	FUSE 20A (M5, M6, M7, M8, M9, M10, M11, M12)	M18 - PTH124E50RXXXAB
A3410404	FUSE 25A (M13, M14, M15, M16, M17, M18)	
0275P00041	HEATER ASSY (M13, M14, M15, M16, M17, M18)	
0275P00040	HEATER ASSY (M5, M6, M7, M8, M9, M10, M11, M12)	
0275P00023	HEATER ASSY (M1, M2, M3, M4)	
0130P00137	MOTOR (M8, M12, M17)	
60343539	OVERLOAD PROTECTOR	
0130M00097	RELAY (M1, M3, M5, M7, M9, M10, M12, M14, M16, M17)	
C8873932	RELAY (POWER VENT) (M8, M12, M17)	
0130P00074	THERMISTOR (M1, M3, M5, M7, M9, M10, M12, M14, M16, M17)	
20295711	THERMISTOR (M2, M4, M6, M8, M11, M13, M15, M18)	
0130P00134	THERMISTOR - DISCHARGE	
0130P00077	THERMISTOR - INDOOR (M4, M9, M11, M18)	
0130P00047	THERMISTOR - INDOOR AMBIENT (M2, M4, M6, M8, M11, M13, M15, M18)	
0130P00086	THERMISTOR - INDOOR COIL (M1, M3, M5, M7, M9, M10, M12, M14, M16, M17)	
0130P00098	THERMISTOR - OUTDOOR AMBIENT (M4, M9, M11, M18)	
0130P00093	THERMISTOR, .375 CLIP, BLUE (M1, M3, M5, M7, M9, M10, M12, M14, M16, M17)	
0130P00033	THERMISTOR-INDOOR COIL (M2, M4, M6, M8, M11, M13, M15, M18)	
0130M00329	TRANSFORMER 20VA 60HZ	
0130M00151	TRANSFORMER 277V to 24V, 40VA (M8, M12, M17)	

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:
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Image 1:

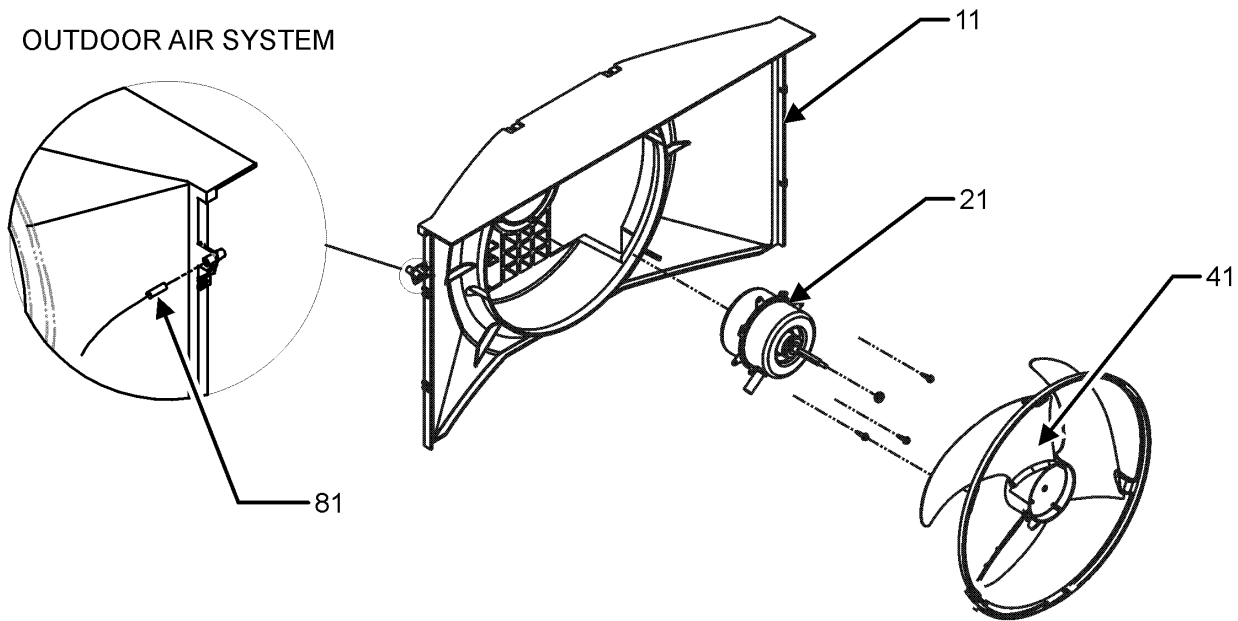
11	0161P00048	FRONT-DICHARGE LOUVERS
21	RSKP0010	CONTROL BOARD M61
31	0130M00329	TRANSFORMER 20VA 60HZ
41	0163P00025	CLIP (QTY 2)
51	0121P00130	PANEL, CONTROL
61	0121P00073	SCREEN, DISCHARGE
71	0261P00003	DOOR ASSY -AMANA-
81	0261P00011	FRONT ASSY
91	C6476001	BAYONET FUSE HOLDER (M1, M2, M3, M4)
91	C6476002	BAYONET FUSE HOLDER (M5, M6, M7, M8, M9, M10, M11, M12)
91	C6476003	BAYONET FUSE HOLDER (M13, M14, M15, M16, M17, M18)
101	0161P00035	FILTER, RACK (QTY 2)
121	0130M00097	RELAY (M1, M3, M5, M7, M9, M10, M12, M14, M16, M17)
181	C8873932	RELAY (POWER VENT) (M8, M12, M17)
191	0130M00151	TRANSFORMER 277V to 24V, 40VA (M8, M12, M17)
261	0130P00104	ANTENNA (DIGITENNA) (M4, M9, M11, M18)
291	B1337701	PADDLE SWITCH (M8, M12, M17)
NS	A3410402	FUSE 15A (M1, M2, M3, M4)
NS	A3410403	FUSE 20A (M5, M6, M7, M8, M9, M10, M11, M12)
NS	A3410404	FUSE 25A (M13, M14, M15, M16, M17, M18)

Expanded Model Nomenclature

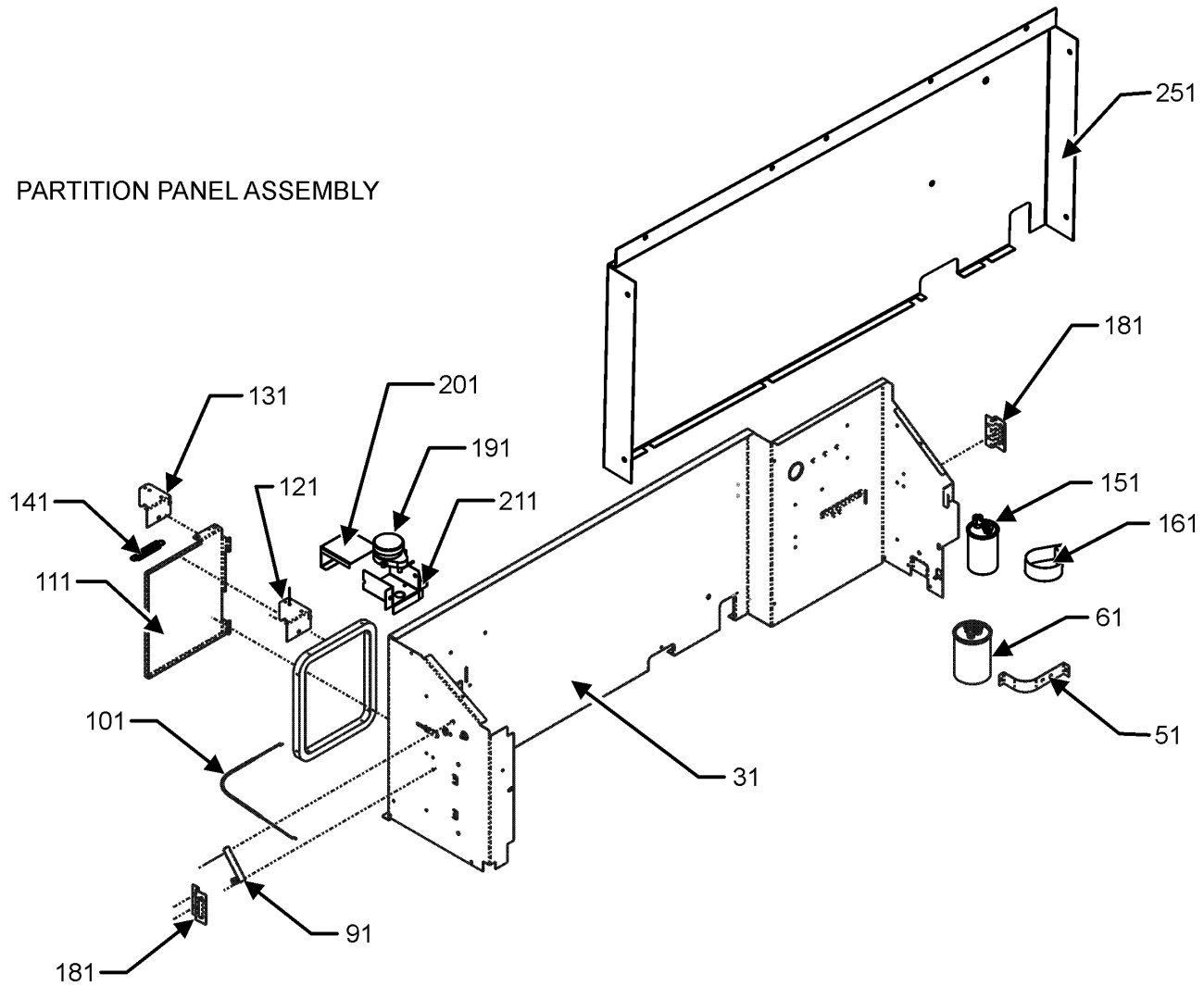
M1 - PTH124E25AXXXAC
 M2 - PTH124E25CXXXAB
 M3 - PTH124E25CXXXAC
 M4 - PTH124E25RXXXAB
 M5 - PTH124E35AXXXAC
 M6 - PTH124E35CXXXAB
 M7 - PTH124E35CXXXAC
 M8 - PTH124E35DXXXAB
 M9 - PTH124E35QRXXAC
 M10 - PTH124E35QXXXAC
 M11 - PTH124E35RXXXAB
 M12 - PTH124E35VXXXAC
 M13 - PTH124E50AXXXAB
 M14 - PTH124E50AXXXAC
 M15 - PTH124E50CXXXAB
 M16 - PTH124E50CXXXAC
 M17 - PTH124E50DXXXAC
 M18 - PTH124E50RXXXAB

Outdoor System and Partition Panel Assy

OUTDOOR AIR SYSTEM



PARTITION PANEL ASSEMBLY

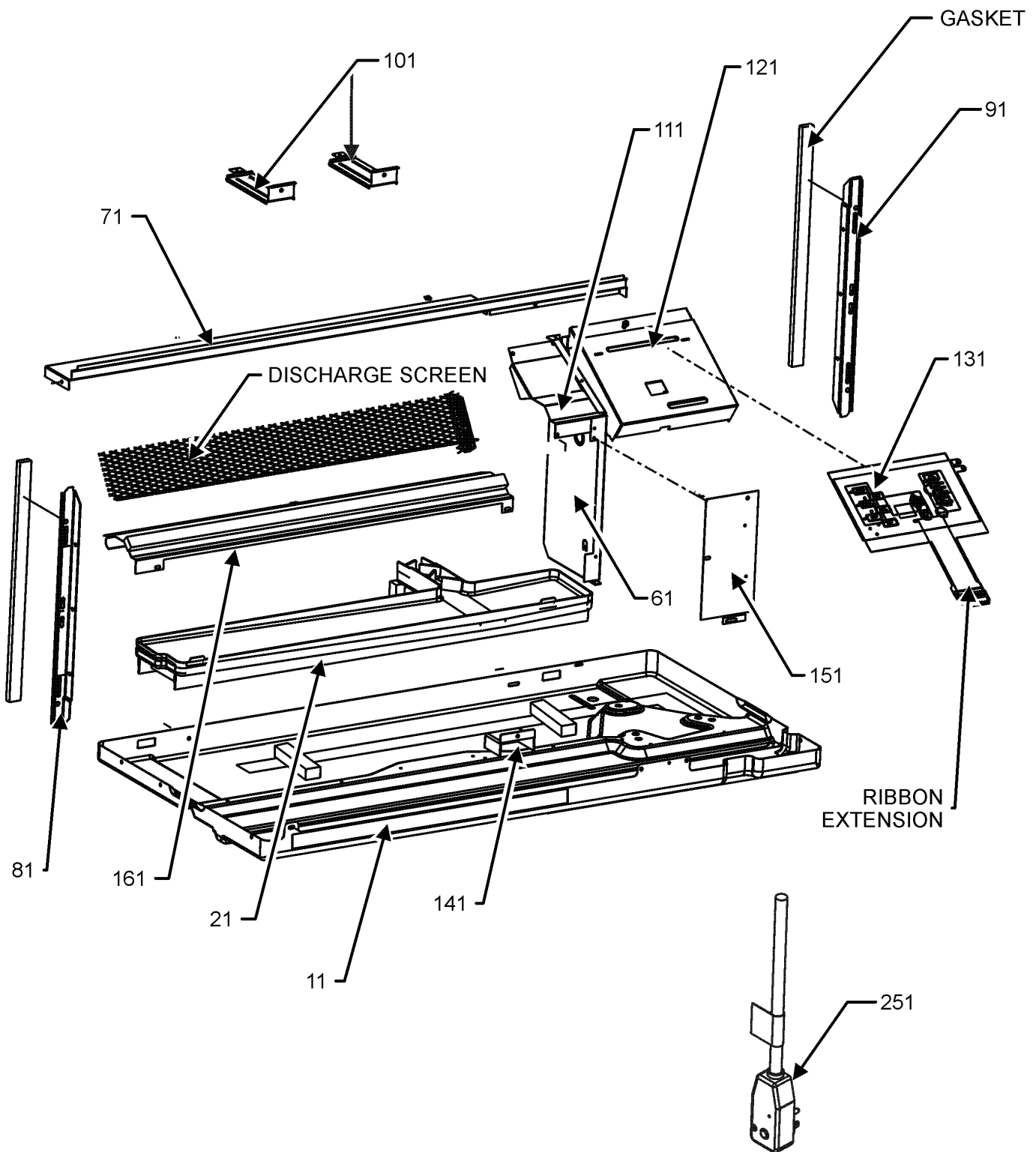


Outdoor System and Partition Panel Assy

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:		Expanded Model Nomenclature	
11	0161P00053	SHROUD, CONDENSOR (M1, M3, M5, M7, M9, M10, M12, M14, M16, M17)	M1 - PTH124E25AXXXAC
21	0131P00017	FAN MOTOR OUTDOOR (M2, M4, M6, M8, M11, M13, M15, M18)	M2 - PTH124E25CXXXAB
21	0131P00028	FAN MOTOR, OUTDOOR (M1, M3, M5, M7, M9, M10, M12, M14, M16, M17)	M3 - PTH124E25CXXXAC
31	0121P00093	PANEL-PARTITION (M9, M10)	M4 - PTH124E25RXXXAB
31	0121P00108NG	PANEL-PARTITION (M1, M2, M3, M4, M5, M6, M7, M8, M11, M12, M13, M14, M15, M16, M17, M18)	M5 - PTH124E35AXXXAC
41	0161P00055	FAN, CONDENSER	M6 - PTH124E35CXXXAB
51	C6300502	CAPACITOR STRAP	M7 - PTH124E35CXXXAC
61	CAP020300450CS	CAPACITOR 2/30/450V/DUAL RD (M1, M3, M5, M7, M9, M10, M12, M14, M16, M17)	M8 - PTH124E35DXXXAB
61	CAP020300440RS	CAPACITOR, 440V (M2, M4, M6, M8, M11, M13, M15, M18)	M9 - PTH124E35QRXXAC
81	0130P00098	THERMISTOR - OUTDOOR AMBIENT (M4, M9, M11, M18)	M10 - PTH124E35QXXXAC
91	11046302	LEVER ARM (M1, M2, M3, M4, M5, M6, M7, M11, M13, M14, M15, M16, M18)	M11 - PTH124E35RXXXAB
101	0163P00019	CABLE (M1, M2, M3, M4, M5, M6, M7, M11, M13, M14, M15, M16, M18)	M12 - PTH124E35VXXXAC
111	0121P00177NG	DOOR - PNT VENT PTC (M1, M2, M3, M4, M5, M6, M7, M8, M11, M12, M13, M14, M15, M16, M17, M18)	M13 - PTH124E50AXXXAB
121	0121P00079	BRACKET, VENT DOOR (M8, M12, M17)	M14 - PTH124E50AXXXAC
131	0121P00072NG	BRACKET, VENT DOOR-C (M2, M3, M6, M7, M15, M16)	M15 - PTH124E50CXXXAB
131	0121P00180	BRKT, POWER VENT (M8, M12, M17)	M16 - PTH124E50CXXXAC
141	11166401	EXTENSION SPRING (M8, M12, M17)	M17 - PTH124E50DXXXAC
151	CAP010000500RP	CAPACITOR (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)	M18 - PTH124E50RXXXAB
151	CAP015000500RP	CAPACITOR (M13, M14, M15, M16, M17, M18)	
161	0163P00029	CAPACITOR CLAMP	
181	11191703	PARTITION PANEL BRACKET (QTY 2)	
191	0130P00137	MOTOR (M8, M12, M17)	
201	11166201	POWER VENT COVER BRACKET (M8, M12, M17)	
211	11166101	POWER VENT MOTOR BRACKET (M8, M12, M17)	
251	0121P00091	PANEL-AUXILLIARY (M9, M10)	

Base Pan Assembly

BASE PAN ASSEMBLY



Base Pan Assembly

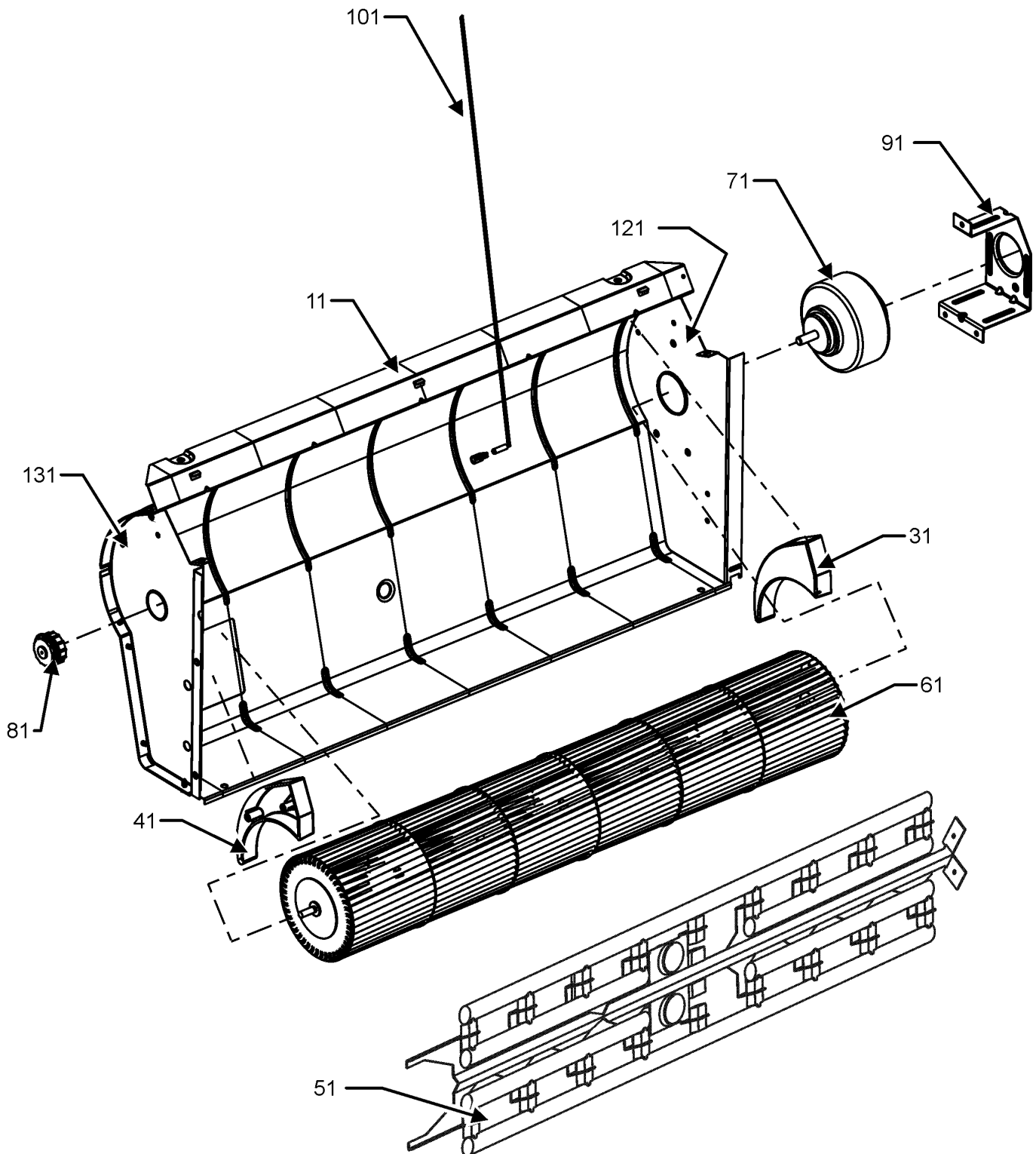
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0121P00175DG		BASE PAN (M1, M4, M5, M8, M9, M10, M11, M12, M13, M14, M17, M18)
11	0121P00175NG		BASE PAN (M2, M3, M6, M7, M15, M16)
21	0161P00044		PLASTIC-DRAIN PAN
61	20403301		MID PARTITION PANEL
71	0121P00063NG		TOP, PARTITION 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, M11, M12, M13, M14, M15, M16, M17, M18)
151	20410801		ACCESS COVER
161	0121P00061DG		CUTOFF-SCROLL DG
251	11114701		CORD 277 VAC, 20A (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)
251	11114801		CORD 277 VAC, 30A (M13, M14, M15, M16, M17, M18)
NS	0130P00054		MEMBRANE (CONTROL)

Expanded Model Nomenclature

M1 - PTH124E25AXXXAC
 M2 - PTH124E25CXXXAB
 M3 - PTH124E25CXXXAC
 M4 - PTH124E25RXXXAB
 M5 - PTH124E35AXXXAC
 M6 - PTH124E35CXXXAB
 M7 - PTH124E35CXXXAC
 M8 - PTH124E35DXXXAB
 M9 - PTH124E35QRXXAC
 M10 - PTH124E35QXXXAC
 M11 - PTH124E35RXXXAB
 M12 - PTH124E35VXXXAC
 M13 - PTH124E50AXXXAB
 M14 - PTH124E50AXXXAC
 M15 - PTH124E50CXXXAB
 M16 - PTH124E50CXXXAC
 M17 - PTH124E50DXXXAC
 M18 - PTH124E50RXXXAB

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:

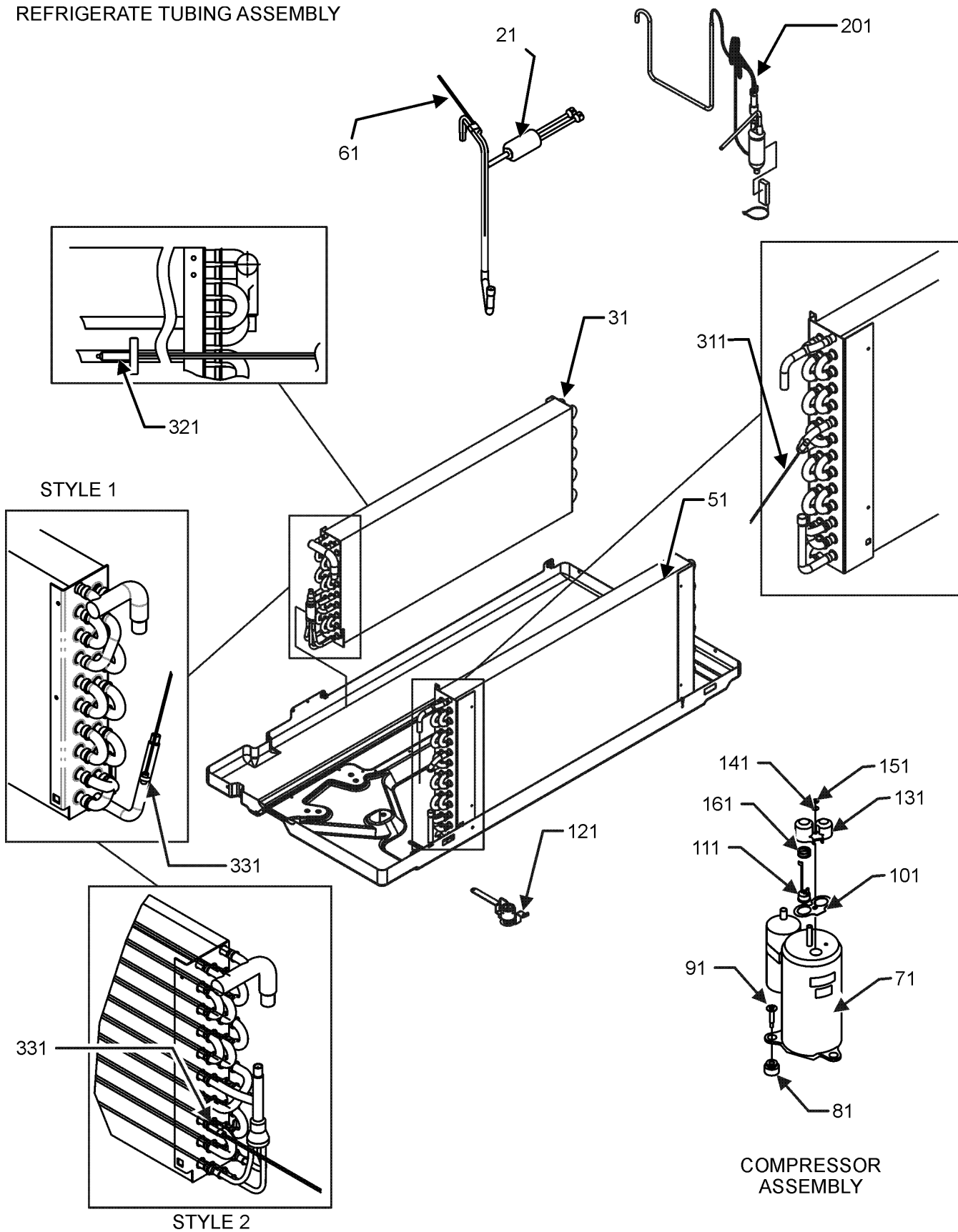
11	0121P00173DG	SCROLL
31	0161P00021	END CAP, RIGHT
41	0161P00022	END CAP, LEFT
51	0275P00023	HEATER ASSY (M1, M2, M3, M4)
51	0275P00040	HEATER ASSY (M5, M6, M7, M8, M9, M10, M11, M12)
51	0275P00041	HEATER ASSY (M13, M14, M15, M16, M17, M18)
61	0150P00004	WHEEL, BLOWER
71	0131P00037	FAN MOTOR, INDOOR (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)
71	0131P00038	FAN MOTOR, INDOOR (M13, M14, M15, M16, M17, M18)
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 - PTH124E25AXXXAC
 M2 - PTH124E25CXXXAB
 M3 - PTH124E25CXXXAC
 M4 - PTH124E25RXXXAB
 M5 - PTH124E35AXXXAC
 M6 - PTH124E35CXXXAB
 M7 - PTH124E35CXXXAC
 M8 - PTH124E35DXXXAB
 M9 - PTH124E35QRXXAC
 M10 - PTH124E35QXXXAC
 M11 - PTH124E35RXXXAB
 M12 - PTH124E35VXXXAC
 M13 - PTH124E50AXXXAB
 M14 - PTH124E50AXXXAC
 M15 - PTH124E50CXXXAB
 M16 - PTH124E50CXXXAC
 M17 - PTH124E50DXXXAC
 M18 - PTH124E50RXXXAB

Refrigerate Tubing Assembly

REFRIGERATE TUBING ASSEMBLY



COMPRESSOR ASSEMBLY

Refrigerate Tubing Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
21	0130M00132	CUT-OUT SWITCH, HIGH PRESSURE	
31	0202P00065	EVAP ASSY, 5/16, 3 ROW	
51	0201P00079	CONDENSER ASSY (M1, M4, M5, M8, M9, M10, M11, M12, M13, M14, M17, M18)	
51	0201P00083DG	CONDENSER ASSY PNT (M2, M3, M6, M7, M15, M16)	
61	0130P00077	THERMISTOR - INDOOR (M4, M9, M11, M18)	
71	44A287A	COMPRESSOR, RECHI	
81	60130203	GROMMET - RECHI COMPRESSOR (QTY 3)	
91	0163M00079	SCREW, SHOULDER (QTY 3)	
101	60100103	TERMINAL GASKET	
111	60343539	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	0210P00106	CAPILLARY TUBE WELD	
311	20295711	THERMISTOR (M2, M4, M6, M8, M11, M13, M15, M18)	
311	0130P00093	THERMISTOR, .375 CLIP, BLUE (M1, M3, M5, M7, M9, M10, M12, M14, M16, M17)	
321	0130P00074	THERMISTOR (M1, M3, M5, M7, M9, M10, M12, M14, M16, M17)	
321	0130P00047	THERMISTOR - INDOOR AMBIENT (M2, M4, M6, M8, M11, M13, M15, M18)	
331	0130P00086	THERMISTOR - INDOOR COIL (M1, M3, M5, M7, M9, M10, M12, M14, M16, M17)	
331	0130P00033	THERMISTOR-INDOOR COIL (M2, M4, M6, M8, M11, M13, M15, M18)	

Expanded Model Nomenclature

M1 - PTH124E25AXXXAC
 M2 - PTH124E25CXXXAB
 M3 - PTH124E25CXXXAC
 M4 - PTH124E25RXXXAB
 M5 - PTH124E35AXXXAC
 M6 - PTH124E35CXXXAB
 M7 - PTH124E35CXXXAC
 M8 - PTH124E35DXXXAB
 M9 - PTH124E35QRXXAC
 M10 - PTH124E35QXXXAC
 M11 - PTH124E35RXXXAB
 M12 - PTH124E35VXXXAC
 M13 - PTH124E50AXXXAB
 M14 - PTH124E50AXXXAC
 M15 - PTH124E50CXXXAB
 M16 - PTH124E50CXXXAC
 M17 - PTH124E50DXXXAC
 M18 - PTH124E50RXXXAB