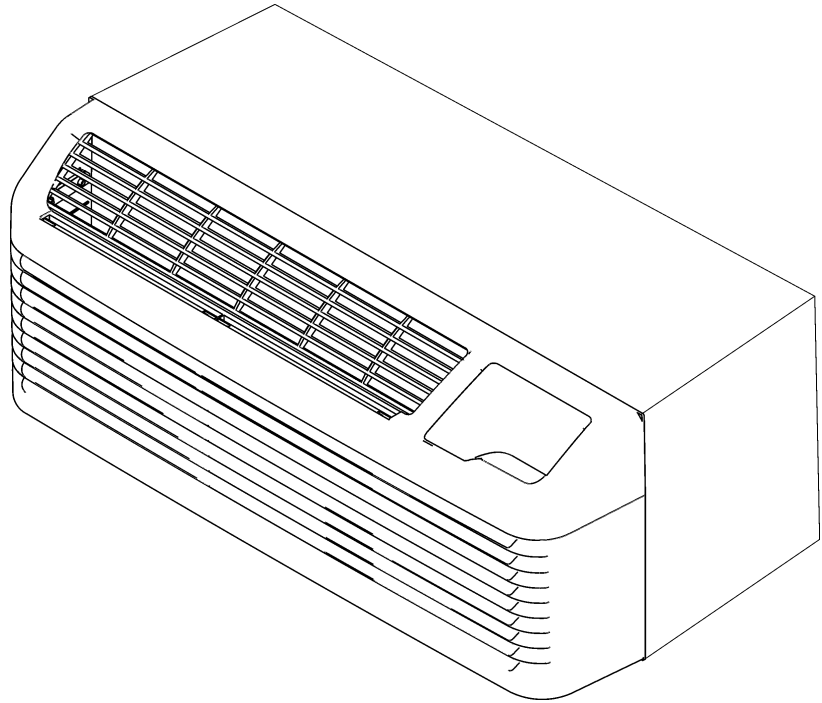


PTC153E Package Terminal Air Conditioner

PTC153E00AXXXAA
PTC153E00AXXXAC
PTC153E00CXXXAA
PTC153E00CXXXAC
PTC153E00HRXXAA
PTC153E00HVXXAA
PTC153E00HXXXAA
PTC153E00RXXXAC
PTC153E25AXXXAA
PTC153E25AXXXAC
PTC153E25CXXXAA
PTC153E25CXXXAC
PTC153E25RXXXAA
PTC153E35AXXXAA
PTC153E35AXXXAC
PTC153E35CXXXAA
PTC153E35CXXXAC
PTC153E35DXXXAC
PTC153E35QRXXAC
PTC153E35QXXXAC
PTC153E35RXXXAA
PTC153E35VXXXAA
PTC153E50AXXXAA
PTC153E50AXXXAC
PTC153E50CXXXAA
PTC153E50CXXXAC
PTC153E50DXXXAA
PTC153E50RXXXAA
PTC153E50VXXXAA



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This manual is to be used by qualified technicians only.

This manual replaces RP-647C.

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:

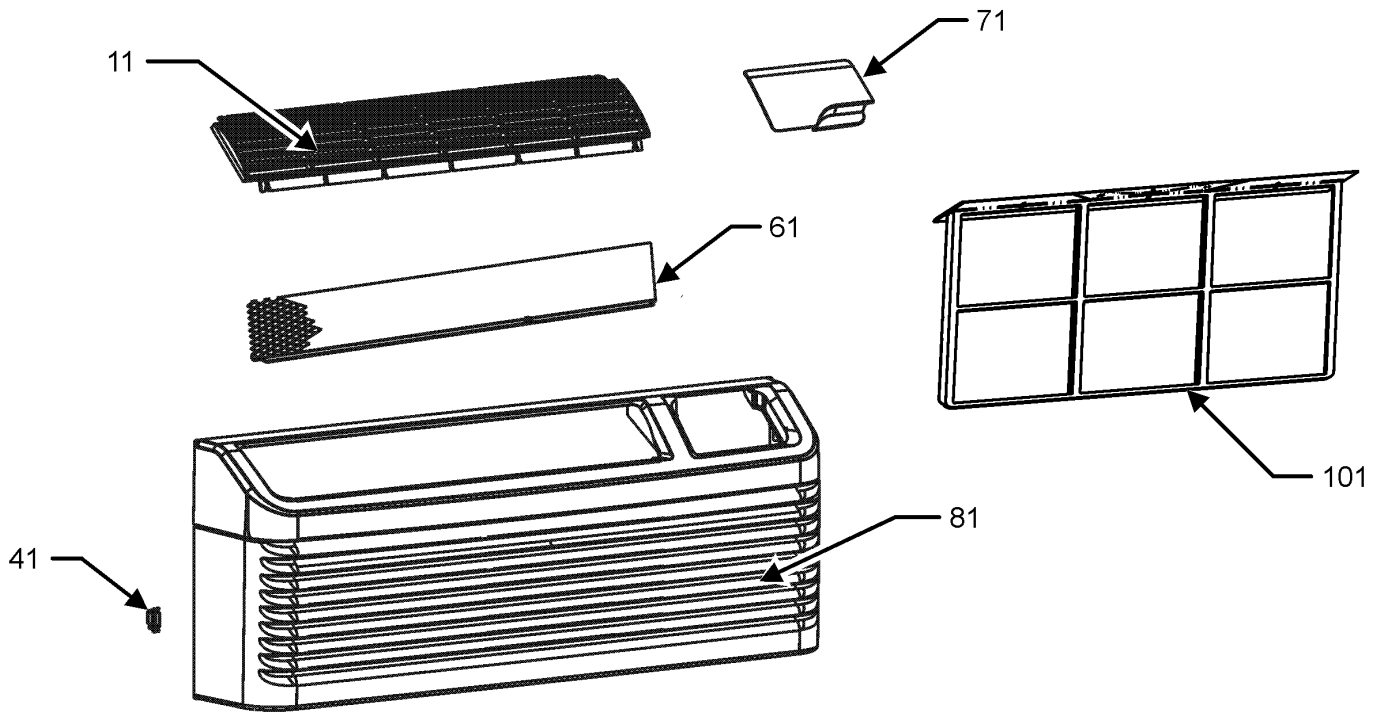
Expanded Model Nomenclature

CAP020000440RP	CAPACITOR 2/440V
CAP030300440RS	CAPACITOR 3/30/440V/DUAL RD (M1, M3, M5, M6, M7, M9, M11, M13, M14, M16, M21, M22, M23, M25, M27, M28, M29)
CAP050300450CS	CAPACITOR 5/30/450V/DUAL RD (M2, M4, M8, M10, M12, M15, M17, M18, M19, M20, M24, M26)
50A362Q	COMPRESSOR, RECHI
RSKP0010	CONTROL BOARD M61
RSKP0005	CONTROL PANEL COVER AND MEMBRANE
0130P00059	CORD, 250VAC, 15A (LCD) (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13)
0130P00058	CORD, 250VAC, 20A (LCD) (M14, M15, M16, M17, M18, M19, M20, M21, M22)
0130P00061	CORD, 250VAC, 30A (LCD) (M23, M24, M25, M26, M27, M28, M29)
0130M00132	CUT-OUT SWITCH, HIGH PRESSURE
0131P00025	FAN MOTOR OUTDOOR (M2, M4, M8, M10, M12, M15, M17, M18, M19, M20, M24, M26)
0131P00036	FAN MOTOR, INDOOR
0131P00008	FAN MOTOR, OUTDOOR (M1, M3, M5, M6, M7, M9, M11, M13, M14, M16, M21, M22, M23, M25, M27, M28, M29)
0161P00055	FAN, CONDENSER
0275P00039	HEATER ASSY (M23, M24, M25, M26, M27, M28, M29)
0275P00038	HEATER ASSY (M14, M15, M16, M17, M18, M19, M20, M21, M22)
0275P00019	HEATER ASSY (M9, M10, M11, M12, M13)
0130P00137	MOTOR (M6, M18, M22, M27, M29)
60343546	OVERLOAD PROTECTOR
0130M00096	RELAY (M2, M4, M8, M10, M12, M15, M17, M18, M19, M20, M24, M26)
C8873917	RELAY (HYDRONIC) (M5, M6, M7)
C8873932	RELAY (POWER VENT) (M6, M18, M22, M27, M29)
0130P00134	THERMISTOR - DISCHARGE
0130P00077	THERMISTOR - INDOOR (M5, M8, M13, M19, M21, M28)
0130P00047	THERMISTOR - INDOOR AMBIENT
0130P00098	THERMISTOR - OUTDOOR AMBIENT (M5, M8, M13, M19, M21, M28)
0130P00093	THERMISTOR, .375 CLIP, BLUE (M5, M8, M13, M19, M21, M28)
0130P00033	THERMISTOR-INDOOR COIL
0130M00329	TRANSFORMER 20VA 60HZ (M1, M2, M3, M4, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29)
0130M00149	TRANSFORMER 240V/208V TO 24V, 40VA (M5, M6, M7, M18, M22, M27, M29)

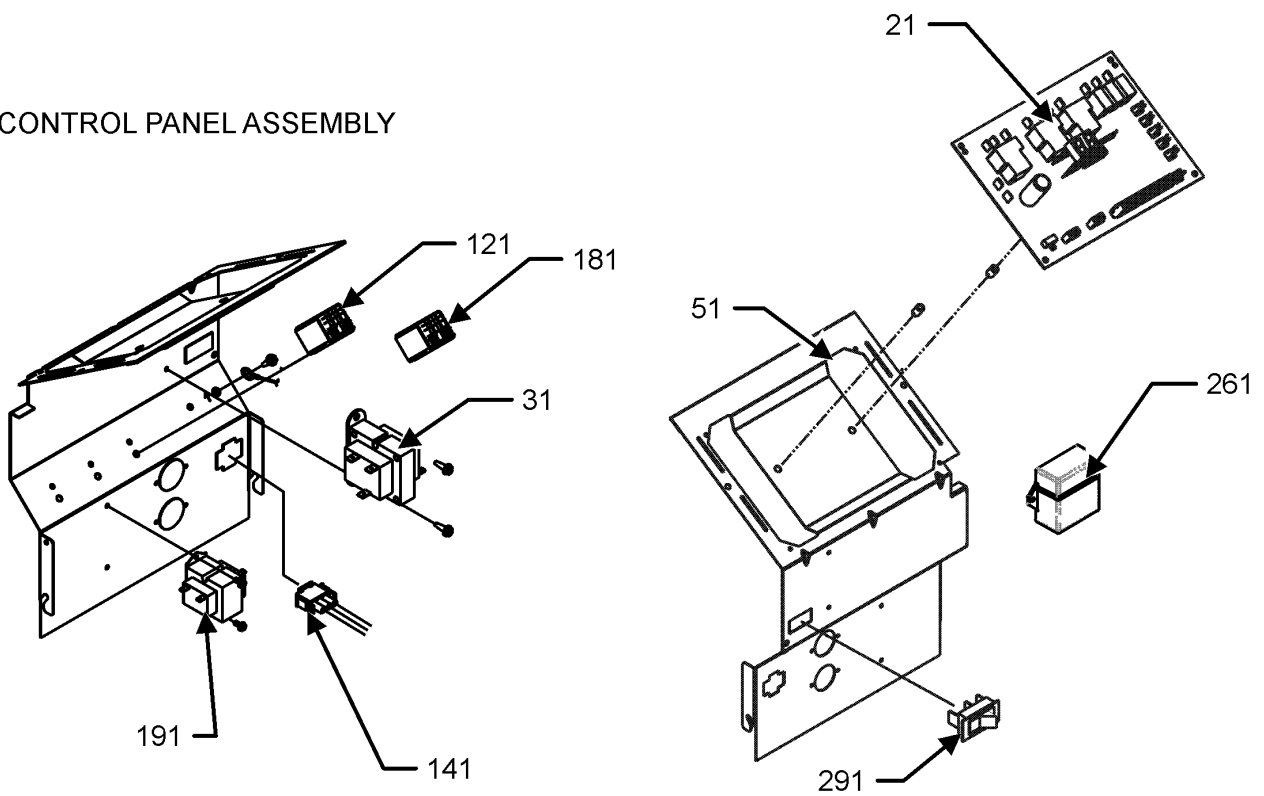
M1 - PTC153E00AXXXAA
M2 - PTC153E00AXXXAC
M3 - PTC153E00CXXXAA
M4 - PTC153E00CXXXAC
M5 - PTC153E00HRXXAA
M6 - PTC153E00HVXXAA
M7 - PTC153E00HXXXAA
M8 - PTC153E00RXXXAC
M9 - PTC153E25AXXXAA
M10 - PTC153E25AXXXAC
M11 - PTC153E25CXXXAA
M12 - PTC153E25CXXXAC
M13 - PTC153E25RXXXAA
M14 - PTC153E35AXXXAA
M15 - PTC153E35AXXXAC
M16 - PTC153E35CXXXAA
M17 - PTC153E35CXXXAC
M18 - PTC153E35DXXXAC
M19 - PTC153E35QRXXAC
M20 - PTC153E35QXXXAC
M21 - PTC153E35RXXXAA
M22 - PTC153E35VXXXAA
M23 - PTC153E50AXXXAA
M24 - PTC153E50AXXXAC
M25 - PTC153E50CXXXAA
M26 - PTC153E50CXXXAC
M27 - PTC153E50DXXXAA
M28 - PTC153E50RXXXAA
M29 - PTC153E50VXXXAA

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:

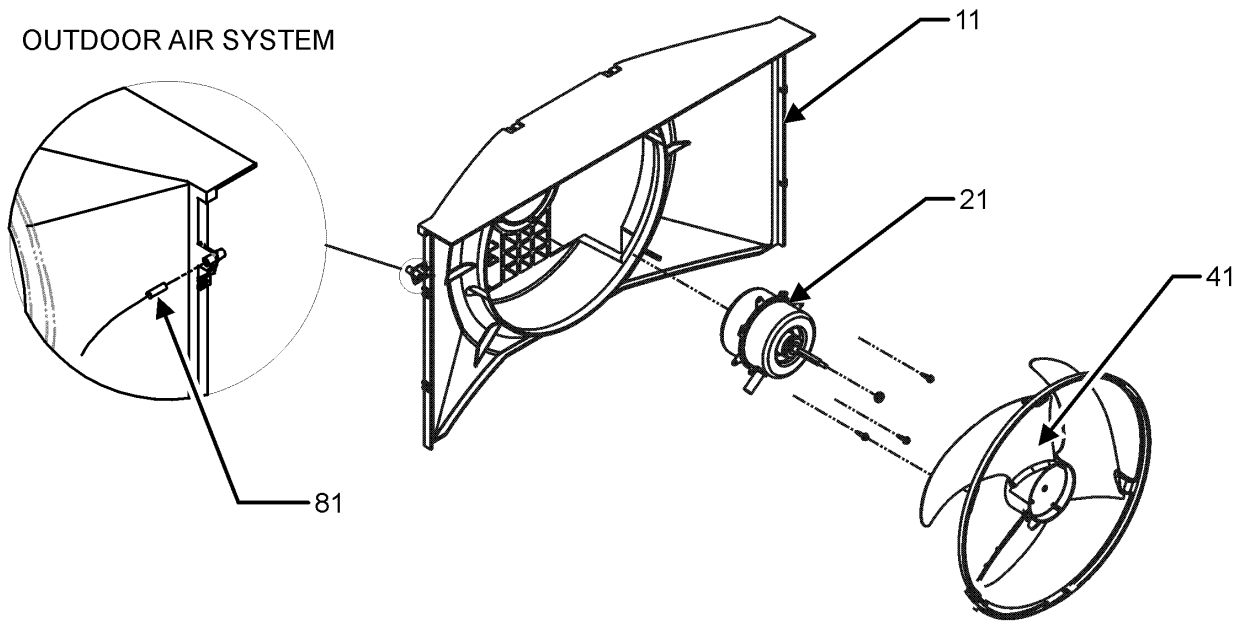
11	0161P00048	FRONT-DICHARGE LOUVERS (M1, M2, M3, M4, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29)
21	RSKP0010	CONTROL BOARD M61
31	0130M00329	TRANSFORMER 20VA 60HZ (M1, M2, M3, M4, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29)
41	0163P00025	CLIP (M1, M2, M3, M4, 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	0121P00073	SCREEN, DISCHARGE (M1, M2, M3, M4, 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- (M1, M2, M3, M4, 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 (M1, M2, M3, M4, 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 (M1, M2, M3, M4, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29)
121	0130M00096	RELAY (M2, M4, M8, M10, M12, M15, M17, M18, M19, M20, M24, M26)
121	C8873917	RELAY (HYDRONIC) (M5, M6, M7)
141	0259P00009	HARNESS, HYDR HT PTC (M5, M6, M7)
181	C8873932	RELAY (POWER VENT) (M6, M18, M22, M27, M29)
191	0130M00149	TRANSFORMER 240V/208V TO 24V, 40VA (M5, M6, M7, M18, M22, M27, M29)
261	0130P00104	ANTENNA (DIGITENNA) (M5, M8, M13, M19, M21, M28)
291	B1337701	PADDLE SWITCH (M6, M18, M22, M27, M29)

Expanded Model Nomenclature

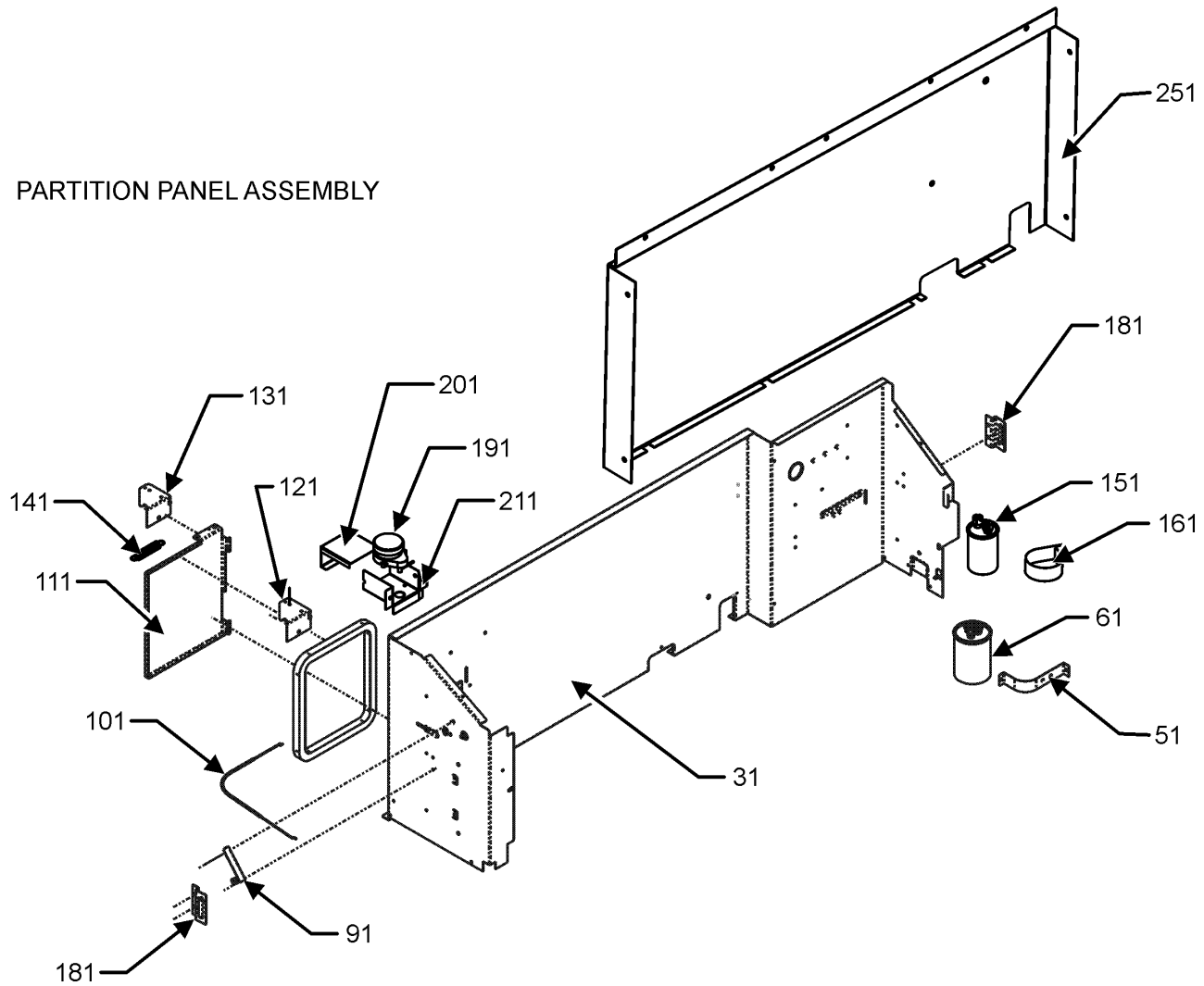
M1 - PTC153E00AXXXAA
M2 - PTC153E00AXXXAC
M3 - PTC153E00CXXXAA
M4 - PTC153E00CXXXAC
M5 - PTC153E00HRXXAA
M6 - PTC153E00HVXXAA
M7 - PTC153E00HXXXAA
M8 - PTC153E00RXXXAC
M9 - PTC153E25AXXXAA
M10 - PTC153E25AXXXAC
M11 - PTC153E25CXXXAA
M12 - PTC153E25CXXXAC
M13 - PTC153E25RXXXAA
M14 - PTC153E35AXXXAA
M15 - PTC153E35AXXXAC
M16 - PTC153E35CXXXAA
M17 - PTC153E35CXXXAC
M18 - PTC153E35DXXXAC
M19 - PTC153E35QRXXAC
M20 - PTC153E35QXXXAC
M21 - PTC153E35RXXXAA
M22 - PTC153E35VXXXAA
M23 - PTC153E50AXXXAA
M24 - PTC153E50AXXXAC
M25 - PTC153E50CXXXAA
M26 - PTC153E50CXXXAC
M27 - PTC153E50DXXXAA
M28 - PTC153E50RXXXAA
M29 - PTC153E50VXXXAA

Outdoor System and Partition Panel Assy

OUTDOOR AIR SYSTEM



PARTITION PANEL ASSEMBLY

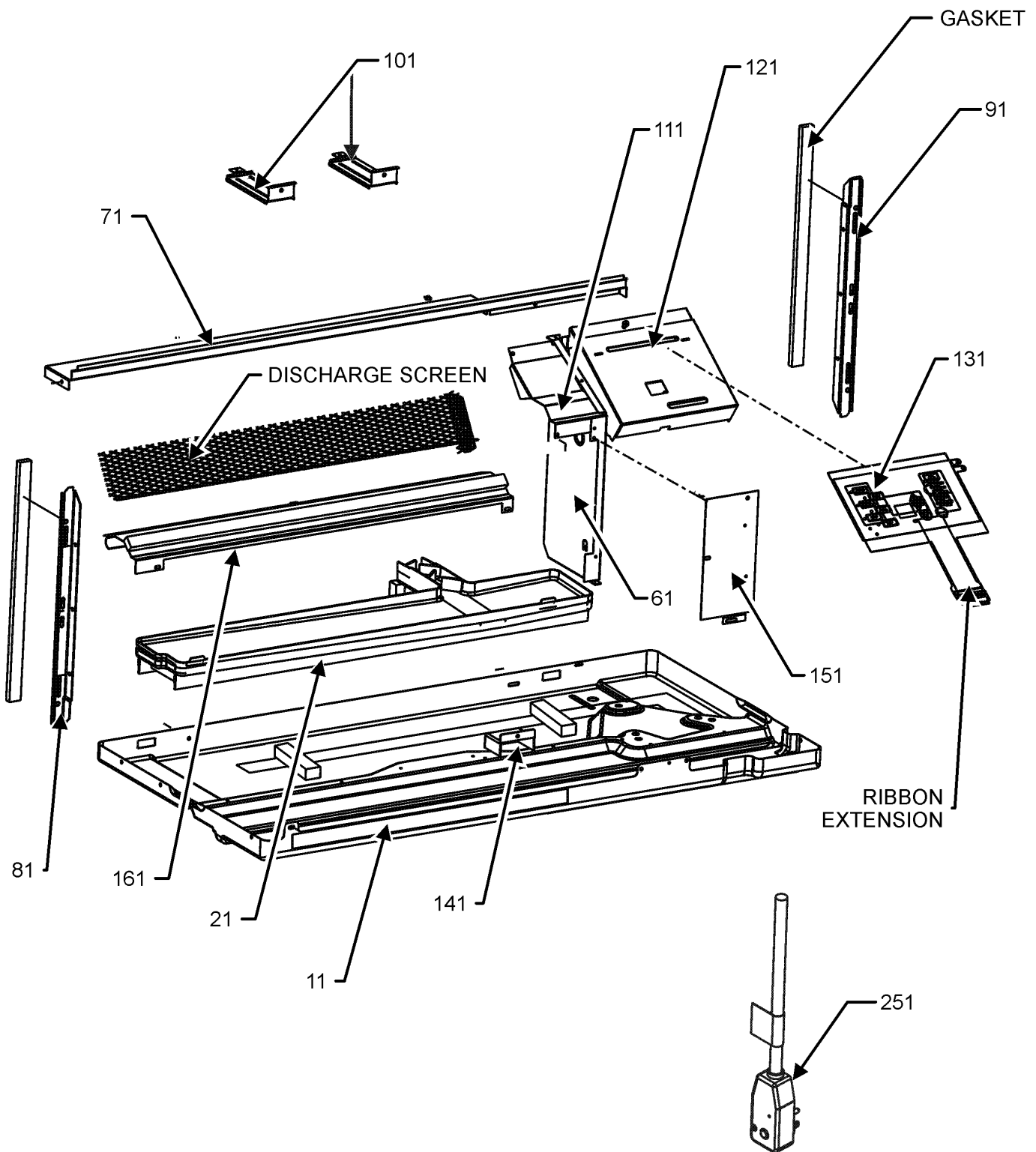


Outdoor System and Partition Panel Assy

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:		Expanded Model Nomenclature	
11	0161P00053	SHROUD, CONDENSOR (M2, M4, M8, M10, M12, M15, M17, M18, M19, M20, M24, M26)	M1 - PTC153E00AXXXAA
21	0131P00025	FAN MOTOR OUTDOOR (M2, M4, M8, M10, M12, M15, M17, M18, M19, M20, M24, M26)	M2 - PTC153E00AXXXAC
21	0131P00008	FAN MOTOR, OUTDOOR (M1, M3, M5, M6, M7, M9, M11, M13, M14, M16, M21, M22, M23, M25, M27, M28, M29)	M3 - PTC153E00CXXXAA
31	0121P00093	PANEL-PARTITION (M19, M20)	M4 - PTC153E00CXXXAC
31	0121P00108NG	PANEL-PARTITION (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M21, M22, M23, M24, M25, M26, M27, M28, M29)	M5 - PTC153E00HRXXAA
41	0161P00055	FAN, CONDENSER	M6 - PTC153E00HVXXAA
51	C6300502	CAPACITOR STRAP	M7 - PTC153E00HXXXAA
61	CAP030300440RS	CAPACITOR 3/30/440V/DUAL RD (M1, M3, M5, M6, M7, M9, M11, M13, M14, M16, M21, M22, M23, M25, M27, M28, M29)	M8 - PTC153E00RXXXAC
61	CAP050300450CS	CAPACITOR 5/30/450V/DUAL RD (M2, M4, M8, M10, M12, M15, M17, M18, M19, M20, M24, M26)	M9 - PTC153E25AXXXAA
81	0130P00098	THERMISTOR - OUTDOOR AMBIENT (M5, M8, M13, M19, M21, M28)	M10 - PTC153E25AXXXAC
91	11046302	LEVER ARM (M1, M2, M3, M4, M5, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M21, M23, M24, M25, M26, M28)	M11 - PTC153E25CXXXAA
101	0163P00019	CABLE (M1, M2, M3, M4, M5, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M21, M23, M24, M25, M26, M28)	M12 - PTC153E25CXXXAC
111	0121P00177NG	DOOR - PNT VENT PTC (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M21, M22, M23, M24, M25, M26, M27, M28, M29)	M13 - PTC153E25RXXXAA
121	0121P00079	BRACKET, VENT DOOR (M6, M18, M22, M27, M29)	M14 - PTC153E35AXXXAA
131	0121P00072NG	BRACKET, VENT DOOR-C (M1, M2, M3, M4, M5, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M21, M23, M24, M25, M26, M28)	M15 - PTC153E35AXXXAC
141	11166401	EXTENSION SPRING (M6, M18, M22, M27, M29)	M16 - PTC153E35CXXXAA
151	CAP020000440RP	CAPACITOR 2/440V	M17 - PTC153E35CXXXAC
161	0163P00029	CAPACITOR CLAMP	M18 - PTC153E35DXXXAC
181	11191703	PARTITION PANEL BRACKET (M1, M2, M3, M4, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29)	M19 - PTC153E35QRXXAC
191	0130P00137	MOTOR (M6, M18, M22, M27, M29)	M20 - PTC153E35QXXXAC
201	11166201	POWER VENT COVER BRACKET (M6, M18, M22, M27, M29)	M21 - PTC153E35RXXXAA
211	11166101	POWER VENT MOTOR BRACKET (M6, M18, M22, M27, M29)	M22 - PTC153E35VXXXAA
251	0121P00091	PANEL-AUXILLIARY (M19, M20)	M23 - PTC153E50AXXXAA
			M24 - PTC153E50AXXXAC
			M25 - PTC153E50CXXXAA
			M26 - PTC153E50CXXXAC
			M27 - PTC153E50DXXXAA
			M28 - PTC153E50RXXXAA
			M29 - PTC153E50VXXXAA

Base Pan Assembly

BASE PAN ASSEMBLY



Base Pan Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

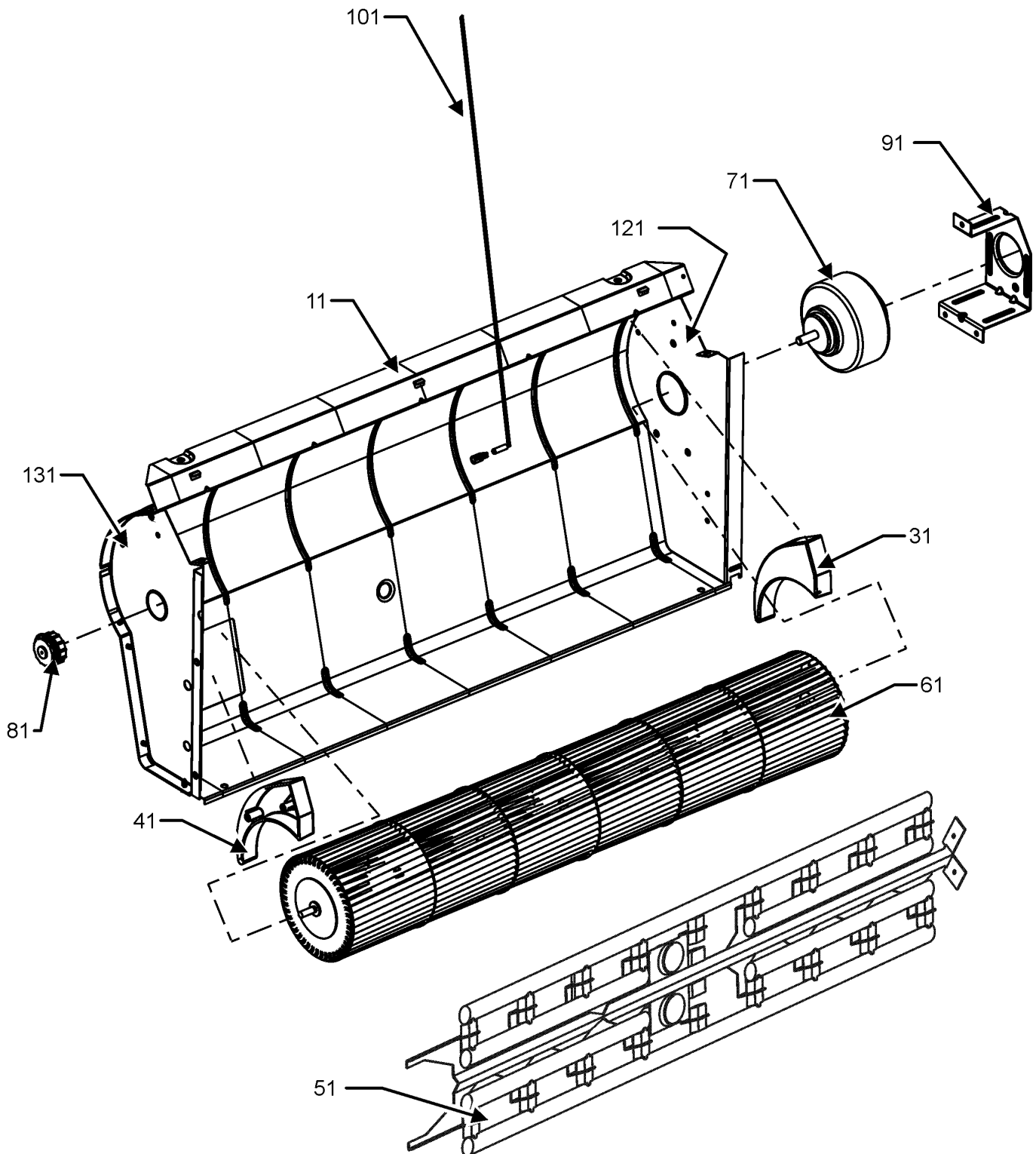
11	0121P00175DG	BASE PAN (M1, M2, M5, M6, M7, M8, M9, M10, M13, M14, M15, M18, M19, M20, M21, M22, M23, M24, M27, M28, M29)
11	0121P00175NG	BASE PAN (M3, M4, M11, M12, M16, M17, M25, M26)
21	0161P00044	PLASTIC-DRAIN PAN
61	20403301	MID PARTITION PANEL
71	0121P00063NG	TOP, PARTITION PANEL
81	0121P00197	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, M10, M11, M12, M13, M14, M15, M16, M17, M18, M21, M22, M23, M24, M25, M26, M27, M28, M29)
151	20410801	ACCESS COVER
161	0121P00061DG	CUTOFF-SCROLL DG
251	0130P00059	CORD, 250VAC, 15A (LCD) (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13)
251	0130P00058	CORD, 250VAC, 20A (LCD) (M14, M15, M16, M17, M18, M19, M20, M21, M22)
251	0130P00061	CORD, 250VAC, 30A (LCD) (M23, M24, M25, M26, M27, M28, M29)
NS	0130P00054	MEMBRANE (CONTROL)

Expanded Model Nomenclature

M1 - PTC153E00AXXXAA
M2 - PTC153E00AXXXAC
M3 - PTC153E00CXXXAA
M4 - PTC153E00CXXXAC
M5 - PTC153E00HRXXAA
M6 - PTC153E00HVXXAA
M7 - PTC153E00HXXXAA
M8 - PTC153E00RXXXAC
M9 - PTC153E25AXXXAA
M10 - PTC153E25AXXXAC
M11 - PTC153E25CXXXAA
M12 - PTC153E25CXXXAC
M13 - PTC153E25RXXXAA
M14 - PTC153E35AXXXAA
M15 - PTC153E35AXXXAC
M16 - PTC153E35CXXXAA
M17 - PTC153E35CXXXAC
M18 - PTC153E35DXXXAC
M19 - PTC153E35QRXXAC
M20 - PTC153E35QXXXAC
M21 - PTC153E35RXXXAA
M22 - PTC153E35VXXXAA
M23 - PTC153E50AXXXAA
M24 - PTC153E50AXXXAC
M25 - PTC153E50CXXXAA
M26 - PTC153E50CXXXAC
M27 - PTC153E50DXXXAA
M28 - PTC153E50RXXXAA
M29 - PTC153E50VXXXAA

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:

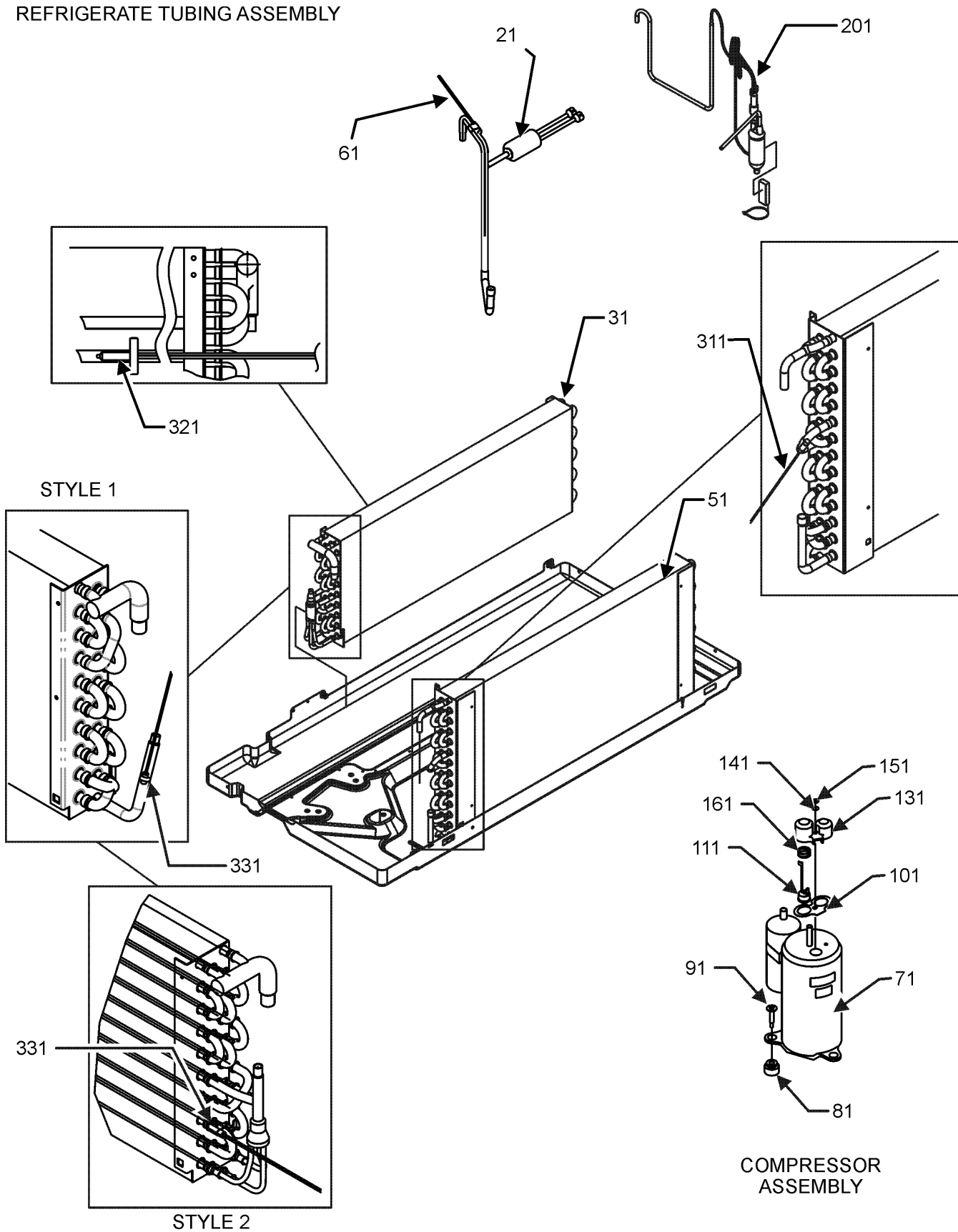
11	0121P00173DG	SCROLL
31	0161P00021	END CAP, RIGHT
41	0161P00022	END CAP, LEFT
51	0275P00019	HEATER ASSY (M9, M10, M11, M12, M13)
51	0275P00038	HEATER ASSY (M14, M15, M16, M17, M18, M19, M20, M21, M22)
51	0275P00039	HEATER ASSY (M23, M24, M25, M26, M27, M28, M29)
61	0150P00004	WHEEL, BLOWER
71	0131P00036	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 - PTC153E00AXXXAA
 M2 - PTC153E00AXXXAC
 M3 - PTC153E00CXXXAA
 M4 - PTC153E00CXXXAC
 M5 - PTC153E00HRXXAA
 M6 - PTC153E00HVXXAA
 M7 - PTC153E00HXXXAA
 M8 - PTC153E00RXXXAC
 M9 - PTC153E25AXXXAA
 M10 - PTC153E25AXXXAC
 M11 - PTC153E25CXXXAA
 M12 - PTC153E25CXXXAC
 M13 - PTC153E25RXXXAA
 M14 - PTC153E35AXXXAA
 M15 - PTC153E35AXXXAC
 M16 - PTC153E35CXXXAA
 M17 - PTC153E35CXXXAC
 M18 - PTC153E35DXXXAC
 M19 - PTC153E35QRXXAC
 M20 - PTC153E35QXXXAC
 M21 - PTC153E35RXXXAA
 M22 - PTC153E35VXXXAA
 M23 - PTC153E50AXXXAA
 M24 - PTC153E50AXXXAC
 M25 - PTC153E50CXXXAA
 M26 - PTC153E50CXXXAC
 M27 - PTC153E50DXXXAA
 M28 - PTC153E50RXXXAA
 M29 - PTC153E50VXXXAA

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, M2, M5, M6, M7, M8, M9, M10, M13, M14, M15, M18, M19, M20, M21, M22, M23, M24, M27, M28, M29)
51	0201P00083DG	CONDENSER ASSY PNT (M3, M4, M11, M12, M16, M17, M25, M26)
61	0130P00077	THERMISTOR - INDOOR (M5, M8, M13, M19, M21, M28)
71	50A362Q	COMPRESSOR, RECHI
81	60140209	GROMMET - RECHI COMPRESSOR
91	M0253610	SHOULDER SCREW (QTY 3)
101	60100103	TERMINAL GASKET
111	60343546	OVERLOAD PROTECTOR
131	60100314	TERMINAL COVER - RECHI COMP
141	60100201	WASHER - RECHI COMPRESSOR
151	60100401	TERMINAL NUT - RECHI COMP
161	60500101	OLP SPRING - RECHI COMPRESSOR
201	0210P00153	CAPILLARY WELDMENT
311	0130P00093	THERMISTOR, .375 CLIP, BLUE (M5, M8, M13, M19, M21, M28)
321	0130P00047	THERMISTOR - INDOOR AMBIENT
331	0130P00033	THERMISTOR-INDOOR COIL

Expanded Model Nomenclature

M1 - PTC153E00AXXXAA
M2 - PTC153E00AXXXAC
M3 - PTC153E00CXXXAA
M4 - PTC153E00CXXXAC
M5 - PTC153E00HRXXAA
M6 - PTC153E00HVXXAA
M7 - PTC153E00HXXXAA
M8 - PTC153E00RXXXAC
M9 - PTC153E25AXXXAA
M10 - PTC153E25AXXXAC
M11 - PTC153E25CXXXAA
M12 - PTC153E25CXXXAC
M13 - PTC153E25RXXXAA
M14 - PTC153E35AXXXAA
M15 - PTC153E35AXXXAC
M16 - PTC153E35CXXXAA
M17 - PTC153E35CXXXAC
M18 - PTC153E35DXXXAC
M19 - PTC153E35QRXXAC
M20 - PTC153E35QXXXAC
M21 - PTC153E35RXXXAA
M22 - PTC153E35VXXXAA
M23 - PTC153E50AXXXAA
M24 - PTC153E50AXXXAC
M25 - PTC153E50CXXXAA
M26 - PTC153E50CXXXAC
M27 - PTC153E50DXXXAA
M28 - PTC153E50RXXXAA
M29 - PTC153E50VXXXAA