

PTH123G Package Terminal Heat Pump

PTH123G50AXXEA
PTH123G50CXXEA
PTH123G50DRXXEA
PTH123G50DXXEA
PTH123G50QRXXEA
PTH123G50QXXEA
PTH123G50RXXEA
PTH123G50VXXEA
PTH123G50WXXEA



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This manual is to be used by qualified technicians only.

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

No: **Description:**

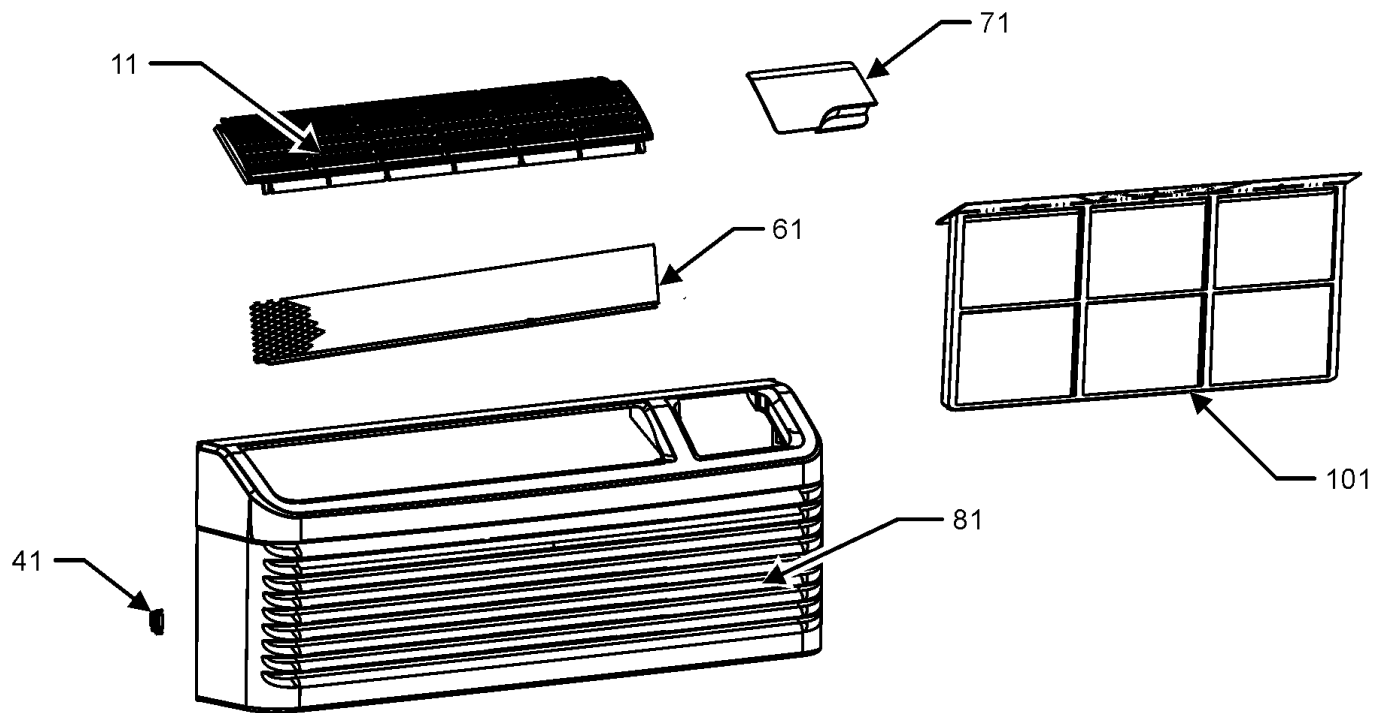
20406303	BASE PAN VALVE
CAP020000440RP	CAPACITOR 2/440V
CAP030300450CS	CAPACITOR, 500V
44A262BM&JEKD	COMPRESSOR, RECHI
RSKP0012	CONTROL BOARD M70
0130P00118	CORD,250VAC,30A (LCD)
0131P00055	FAN MOTOR, INDOOR
0131P00031	FAN MOTOR, OUTDOOR
0161P00055	FAN, CONDENSER
0130P00133	HUMIDITY SENSOR (M3, M4, M8)
RSKP0015	MEMBRANE KIT
0130P00137	MOTOR (M3, M4, M8)
60343526	OVERLOAD PROTECTOR
0151P00009	PTAC REVERSING VALVE ASSY
0130P00022	REVERSING VALVE COIL
0130M00169	SWITCH, HIGH PRESS
802007090	TERMINAL BOARD
0130P00077	THERMISTOR (M3, M5, M7)
0130P00142	THERMISTOR
0130P00144	THERMISTOR
0130P00130	THERMISTOR
0130P00134	THERMISTOR - DISCHARGE
0130P00098	THERMISTOR - OUTDOOR AMBIENT (M3, M4, M5, M7, M8)
0130M00599	TRANS, 40VA, 240V/208V TO 24V (M3, M4, M8)
0130M00341	TRANSFORMER 20VA 230V

Expanded Model Nomenclature

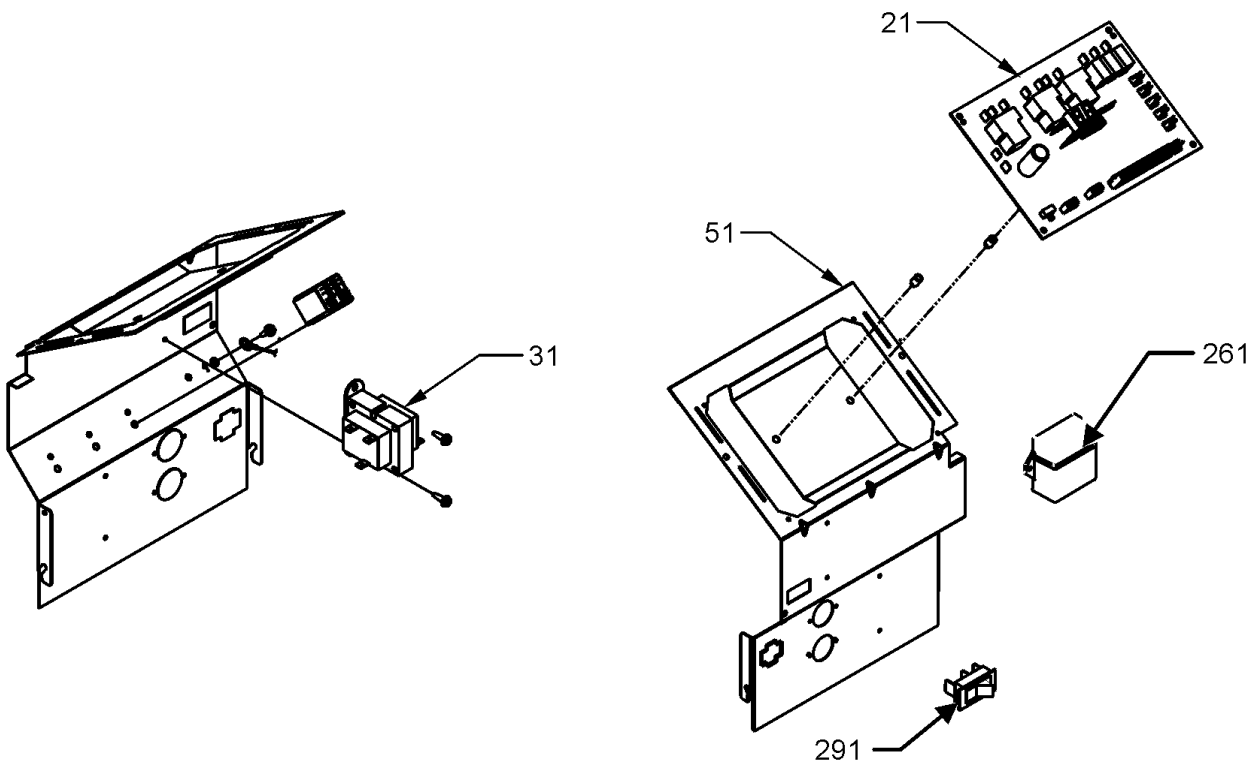
M1 - PTH123G50AXXXEA
M2 - PTH123G50CXXxEA
M3 - PTH123G50DRXXEA
M4 - PTH123G50DXXxEA
M5 - PTH123G50QRXXEA
M6 - PTH123G50QXXxEA
M7 - PTH123G50RXXxEA
M8 - PTH123G50VXXxEA
M9 - PTH123G50WXXxEA

Control Panel / Front Assembly

FRONT PANEL ASSEMBLY



CONTROL PANEL ASSEMBLY



Control Panel / Front Assembly

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

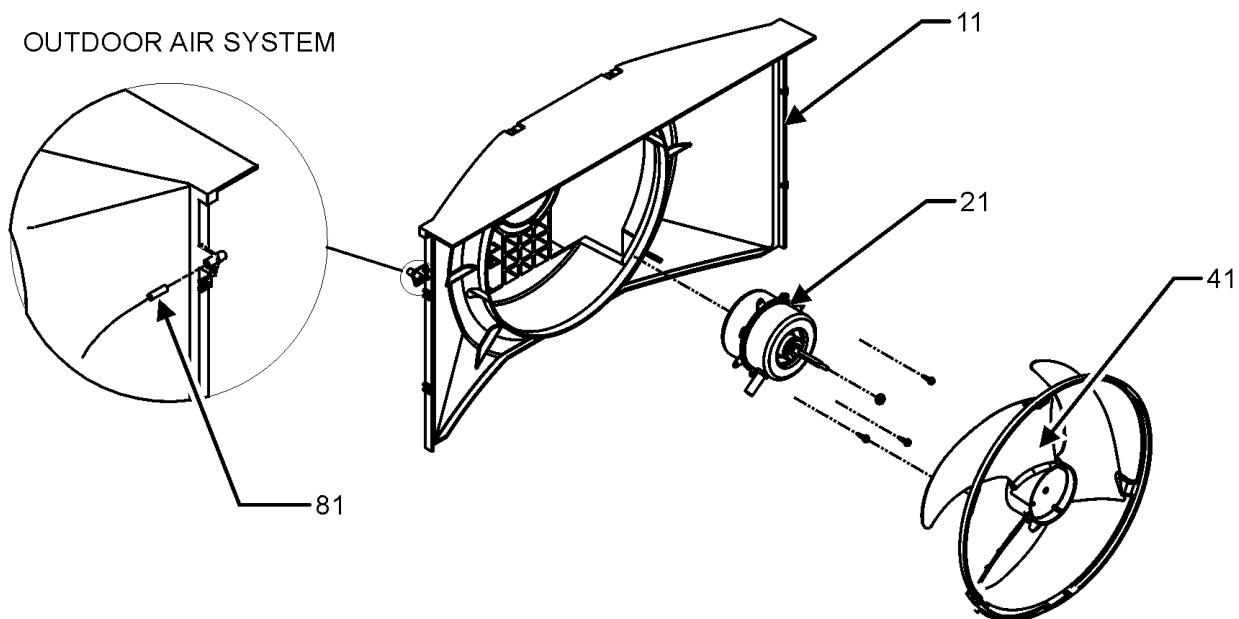
11	0161P00048	FRONT-DICHARGE LOUVERS
21	RSKP0012	CONTROL BOARD M70
31	0130M00341	TRANSFORMER 20VA 230V
41	0163P00025	CLIP (QTY 2)
51	0121P00130	PANEL, CONTROL
71	0261P00003	DOOR ASSY -AMANA-
81	0261P00011	FRONT ASSY
101	0161P00035	FILTER, RACK (QTY 2)
261	0130P00104	ANTENNA (M3, M5, M7)
291	B1337701	PADDLE SWITCH (M3, M4, M8)
NS	0130M00599	TRANS, 40VA, 240V/208V TO 24V (M3, M4, M8)

Expanded Model Nomenclature

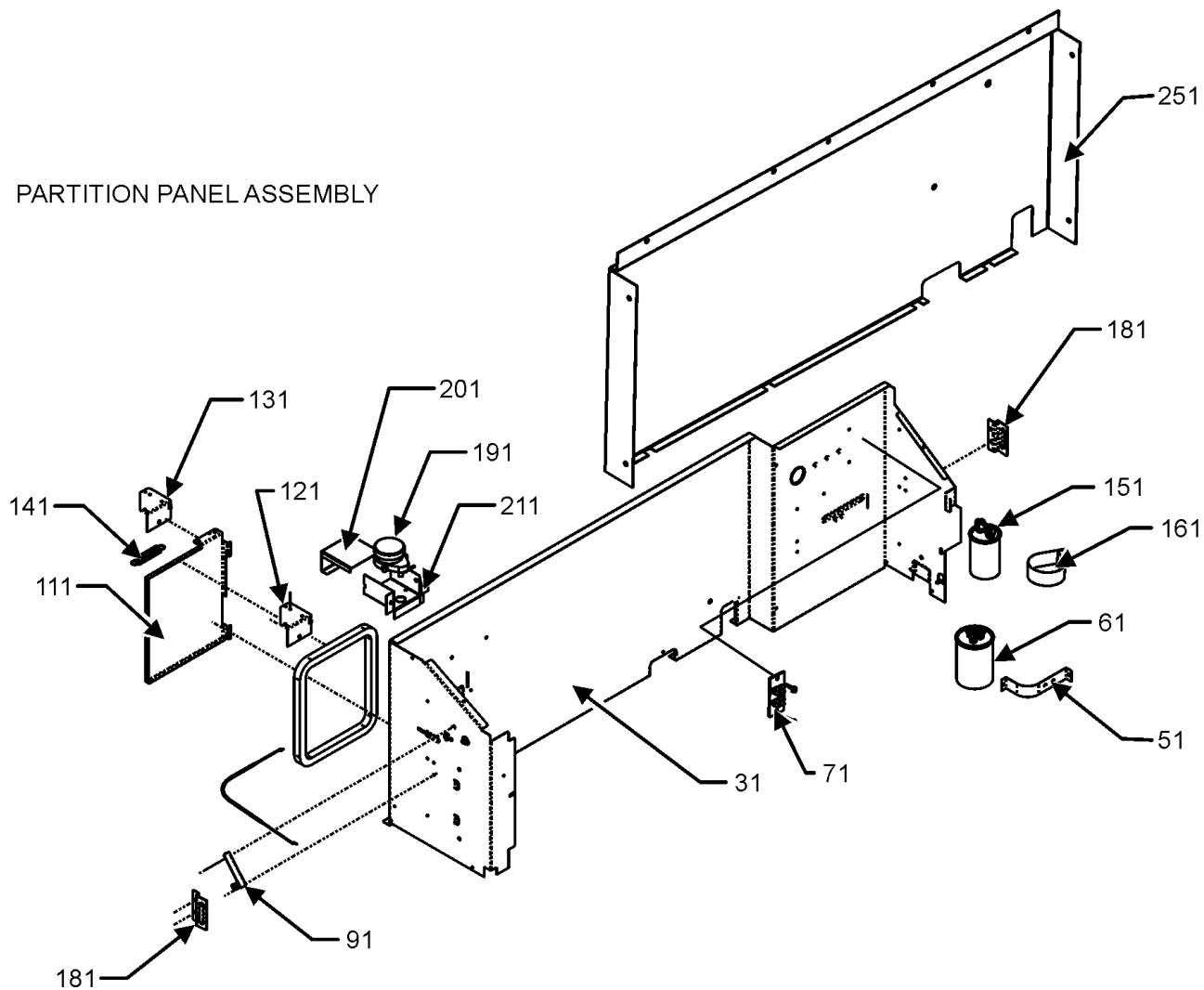
M1 - PTH123G50AXXXEA
M2 - PTH123G50CXXEA
M3 - PTH123G50DRXXEA
M4 - PTH123G50DXXEA
M5 - PTH123G50QRXXEA
M6 - PTH123G50QXXEA
M7 - PTH123G50RXXEA
M8 - PTH123G50VXXEA
M9 - PTH123G50WXXEA

Outdoor Air System / Partition Assembly

OUTDOOR AIR SYSTEM



PARTITION PANEL ASSEMBLY



Outdoor Air System / Partition Assembly

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

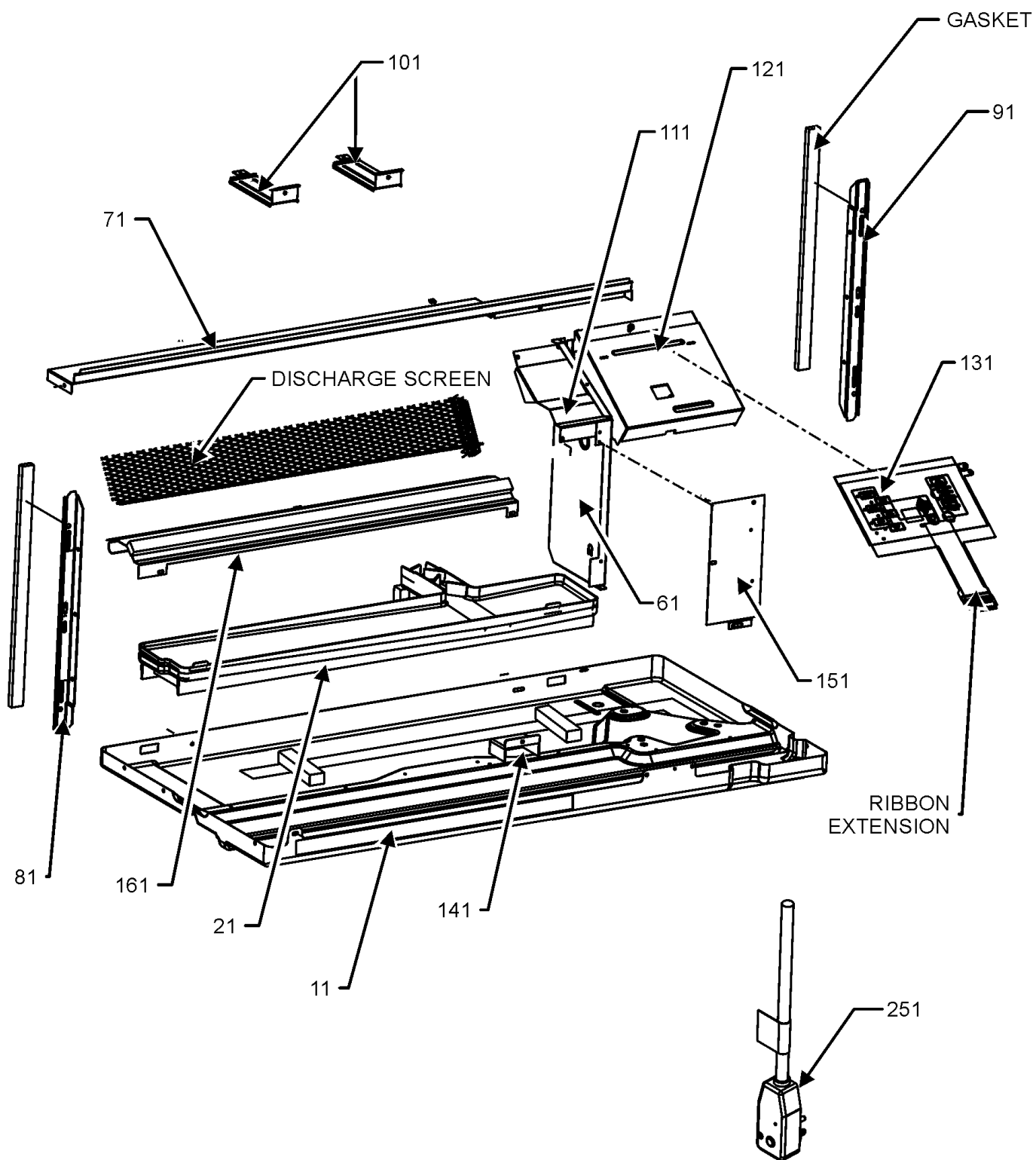
11	0161P00053	SHROUD, CONDENSER
21	0131P00031	FAN MOTOR, OUTDOOR
31	0121P00108NG	PANEL-PARTITION (M1, M2, M3, M4, M7, M8, M9)
41	0161P00055	FAN, CONDENSER
51	C6300502	CAPACITOR STRAP
61	CAP030300450CS	CAPACITOR, 500V
71	802007090	TERMINAL BOARD
81	0130P00098	THERMISTOR - OUTDOOR AMBIENT (M3, M4, M5, M7, M8)
91	11046302	LEVER ARM (M1, M2, M7, M9)
111	0121P00177NG	DOOR - PNT VENT PTC (M1, M2, M3, M4, M7, M8, M9)
121	0121P00072NG	BRACKET, VENT DOOR-C (M1, M2, M7, M9)
131	0121P00079	BRACKET, VENT DOOR (M3, M4, M8)
141	11166401	EXTENSION SPRING (M3, M4, M8)
151	CAP020000440RP	CAPACITOR 2/440V
161	0163P00029	CAPACITOR CLAMP
181	11191703	PARTITION PANEL BRACKET (QTY 2)
191	0130P00137	MOTOR (M3, M4, M8)
201	11166201	POWER VENT COVER BRACKET (M3, M4, M8)
211	11166101	POWER VENT MOTOR BRACKET (M3, M4, M8)
251	0121P00091	PANEL-AUXILLIARY (M5, M6)
NS	0163P00019	CABLE (M1, M2, M7, M9)
NS	0130P00133	HUMIDITY SENSOR (M3, M4, M8)

Expanded Model Nomenclature

M1 - PTH123G50AXXXEA
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M3 - PTH123G50DRXXEA
M4 - PTH123G50DXXEA
M5 - PTH123G50QRXXEA
M6 - PTH123G50QXXEA
M7 - PTH123G50RXXEA
M8 - PTH123G50VXXEA
M9 - PTH123G50WXXEA

Base Pan Assembly

BASE PAN ASSEMBLY



Base Pan Assembly

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

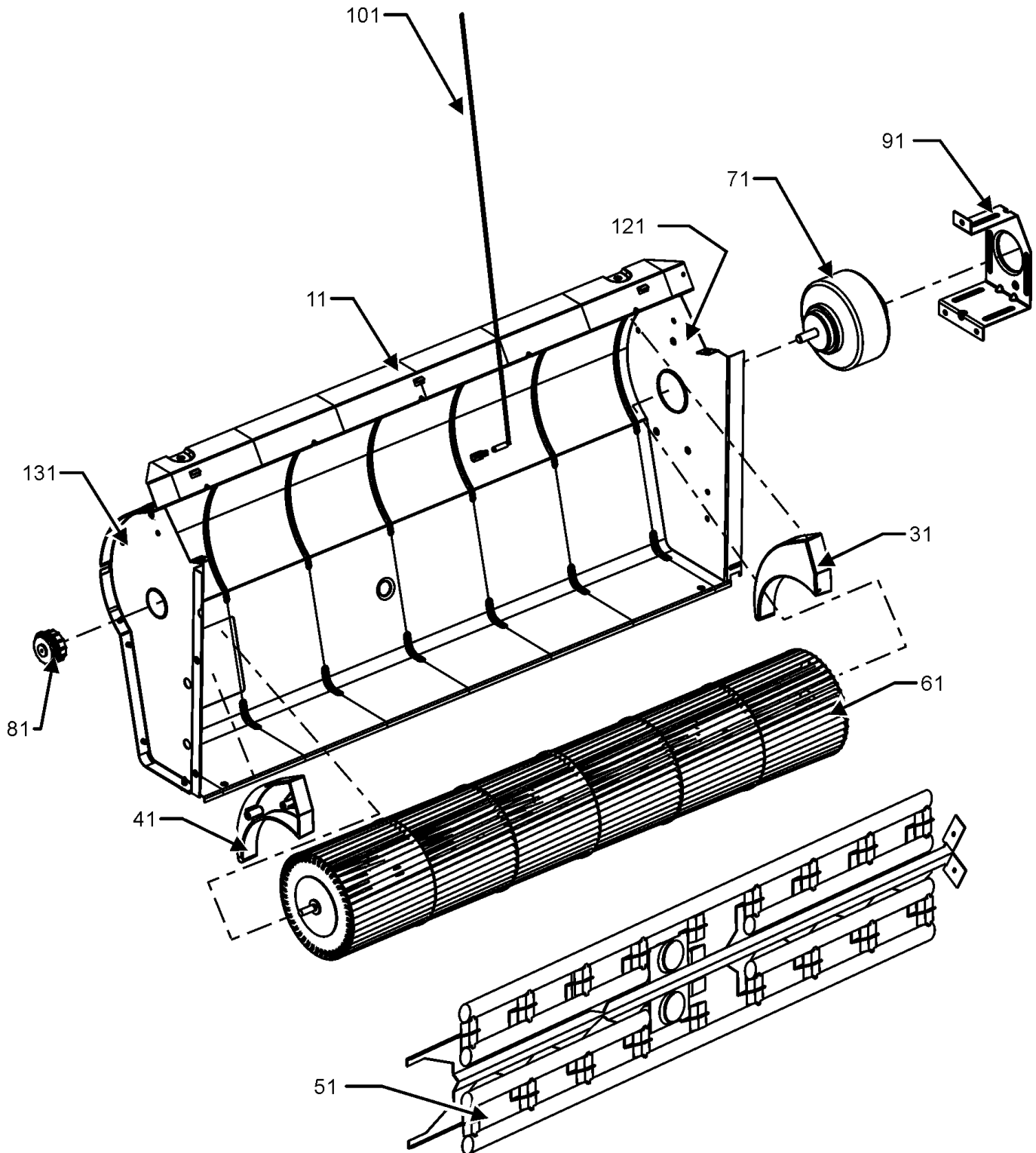
11	0121P00175DG	BASEPAN (M1, M3, M4, M5, M6, M7, M8, M9)
11	0121P00175NG	BASEPAN (M2)
21	0161P00044	PLASTIC-DRAIN PAN
61	20403301	MID PARTITION PANEL
71	0121P00063NG	TOP, PARTITION PANEL
91	0121P00198	SEAL-R SIDE PTC
101	0121P00071NG	BRACE, TIE (QTY 2)
111	0121P00070DG	COVER, MOTOR
121	0121P00129	COVER-CONTROL PANEL
131	RSKP0015	MEMBRANE KIT
141	0161P00016	PLASTIC-HOOD (M1, M2, M3, M4, M7, M8, M9)
151	20410801	ACCESS COVER
161	0121P00061DG	CUTOFF-SCROLL DG
251	0130P00118	CORD,250VAC, 30A (LCD)
NS	0130P00109	MEMBRANE (CONTROL)

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 M5 - PTH123G50QRXXEA
 M6 - PTH123G50QXXEA
 M7 - PTH123G50RXXEA
 M8 - PTH123G50VXXEA
 M9 - PTH123G50WXXEA

Indoor Blower Assembly

INDOOR BLOWER ASSEMBLY



Indoor Blower Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

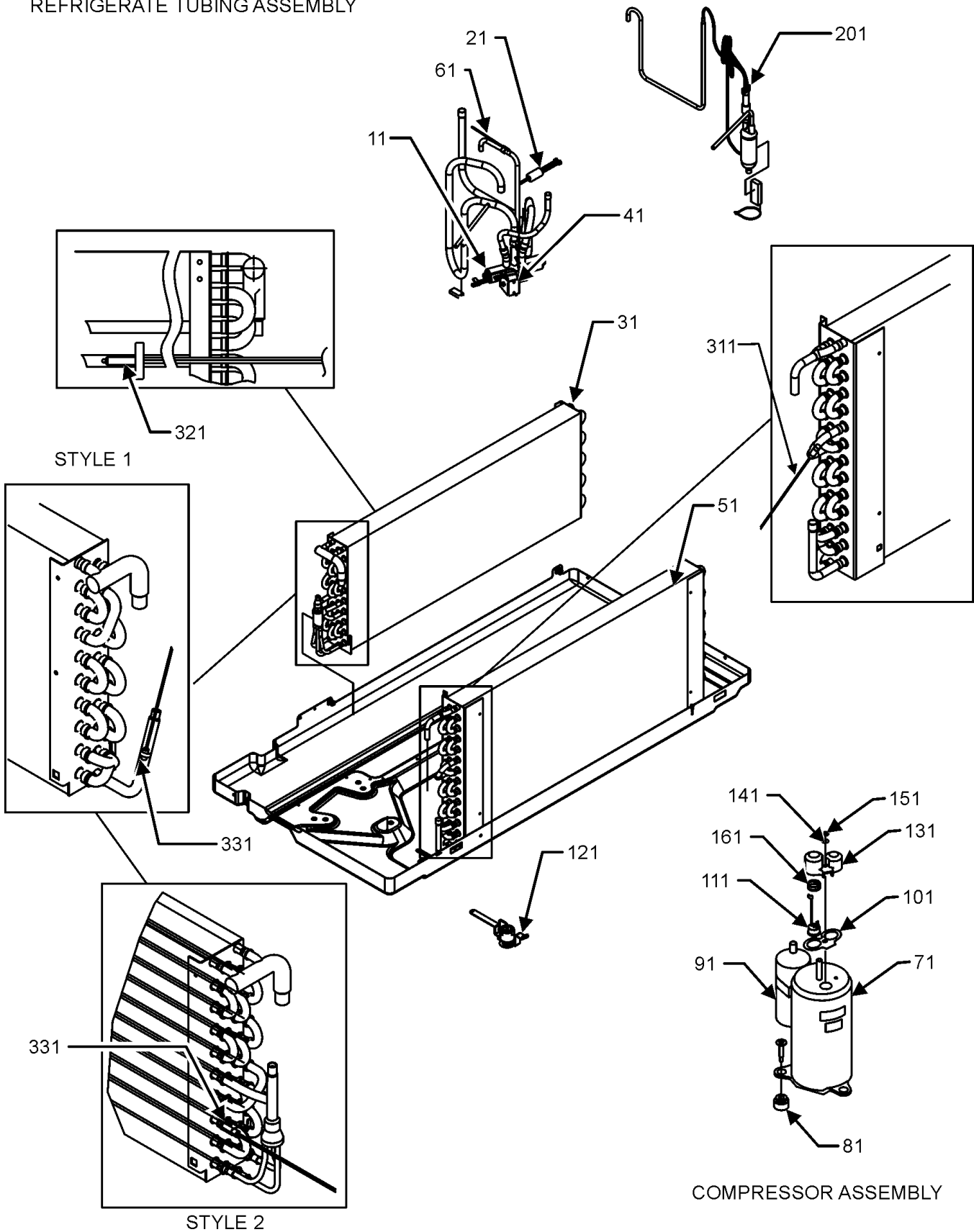
11	0121P00173DG	SCROLL
31	0161P00021	END CAP, RIGHT
41	0161P00022	END CAP, LEFT
51	0275P00039	HEATER ASSY
61	0150P00005	WHEEL, BLOWER
71	0131P00055	FAN MOTOR, INDOOR
81	0163P00027	BEARING
91	0121P00048	BRACKET-MOTOR MOUNT
101	0130P00134	THERMISTOR - DISCHARGE
121	0121P00059DG	ENDPLATE-RH SCROLL
131	0121P00215DG	ENDPLATE- LH SCROLL

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M1 - PTH123G50AXXXEA
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M3 - PTH123G50DRXXEA
M4 - PTH123G50DXXxEA
M5 - PTH123G50QRXXEA
M6 - PTH123G50QXXxEA
M7 - PTH123G50RXXxEA
M8 - PTH123G50VXXxEA
M9 - PTH123G50WXXxEA

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	0151P00009	PTAC REVERSING VALVE ASSY
21	0130M00169	SWITCH, HIGH PRESS
31	0202P00065	EVAP ASSY, 5/16, 3 ROW
41	0130P00022	REVERSING VALVE COIL
51	0201P00104NG	7MM CONDENSER ASSEMBLY PAINTED (M2)
51	0201P00098	7MM CONDENSER COIL ASSY (M1, M3, M4, M5, M6, M7, M8, M9)
61	0130P00077	THERMISTOR (M3, M5, M7)
71	44A262BM&JEKD	COMPRESSOR, RECHI
81	60130203	GROMMET - RECHI COMPRESSOR (QTY 3)
91	0163M00079	SHOULDER SCREW (QTY 3)
101	60100103	TERMINAL GASKET
111	60343526	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	0210P00422	CAPILLARY TUBE WELDMENT
311	0130P00130	THERMISTOR
321	0130P00142	THERMISTOR
331	0130P00144	THERMISTOR
NS	BT1392310	PLASTIC CLAMP, .1875 DIA (M3, M4, M8)

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M5 - PTH123G50QRXXEA
M6 - PTH123G50QXXEA
M7 - PTH123G50RXXEA
M8 - PTH123G50VXXEA
M9 - PTH123G50WXXEA