

PTH123G Package Terminal Heat Pump

PTH123G25TXXXGA
PTH123G35LQRXGA
PTH123G50DRXXGA
PTH123G50DXXXGA
PTH123G50QRXXGA
PTH123G50QXXXGA
PTH123G50RXXXGA
PTH123G50VXXXGA
PTH123G50WXXXGA



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This manual is to be used by qualified technicians only.

This manual replaces RP-A5340

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Important Information

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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:

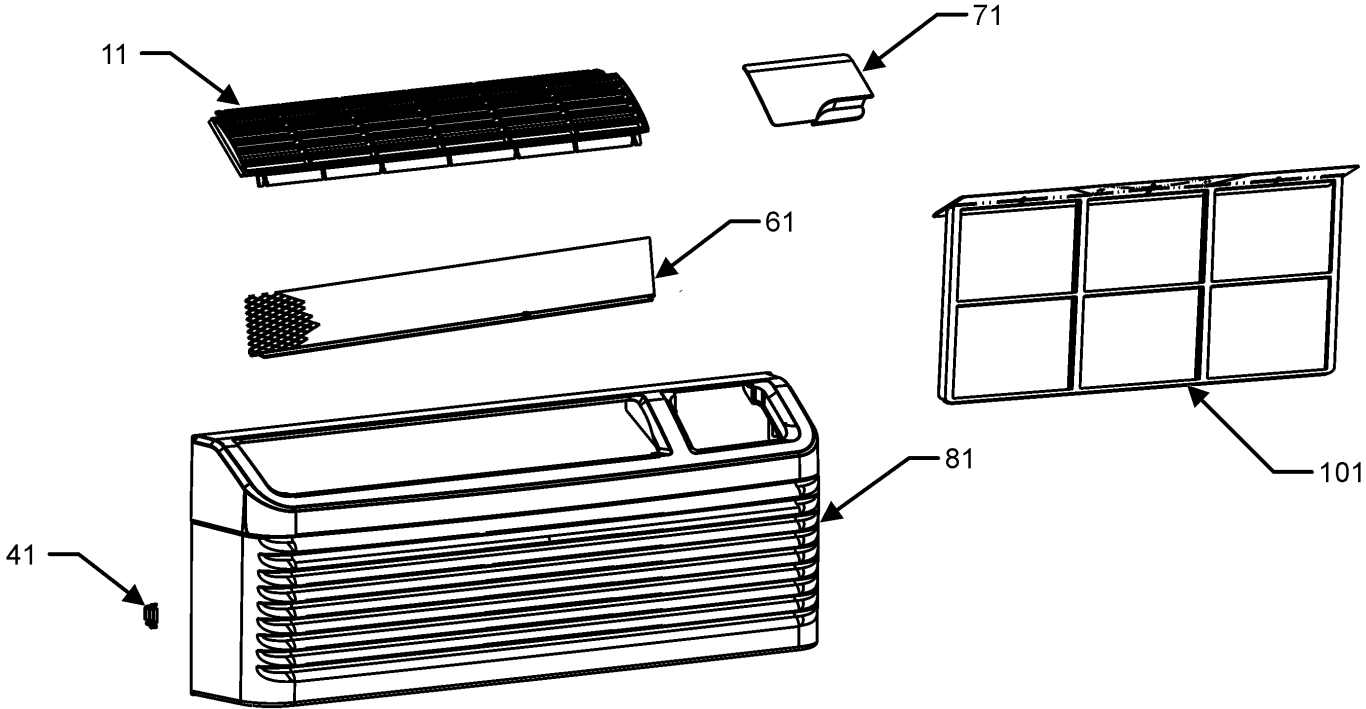
20406303	BASE PAN VALVE
CAP020000440RP	CAPACITOR 2/440V
CAP030300450CS	CAPACITOR, 500V
44A272AL&FEKC	COMPRESSOR, RECHI
RSKP0014	CONTROL BOARD KIT
RSKP0012	CONTROL BOARD M70
RSKP0015	CONTROL PANEL COVER AND MEMBRANE
0130P00112	CORD,250VAC,15A (LCD) (M1)
0130P00115	CORD,250VAC,20A (LCD) (M2)
0130P00118	CORD,250VAC,30A (LCD) (M3, M4, M5, M6, M7, M8, M9)
0131P00055	FAN MOTOR, INDOOR (M3, M4, M5, M6, M7, M8, M9)
0131P00054	FAN MOTOR, INDOOR (M1, M2)
0131P00031	FAN MOTOR, OUTDOOR
0161P00055	FAN, CONDENSER
0275P00019	HEATER ASSY (M1)
0275P00038	HEATER ASSY (M2)
0275P00039	HEATER ASSY (M3, M4, M5, M6, M7, M8, M9)
0130P00133	HUMIDITY SENSOR (M3, M4, M8)
60349601A	OVERLOAD PROTECTOR-ORANGE DOT
PCBCP150	PCB CONTROL
PCBCP147	PCB, CONTROL, D70 (M1, M2, M3, M4, M8)
0130P00137	POWER VENT MOTOR (M3, M4, M8)
0151P00013	PTAC Reversing Valve Assy
0130P00022	REVERSING VALVE COIL
0130M00169	SWITCH, HIGH PRESS
802007090	TERMINAL BOARD
0130P00164	THERMISTOR IAT BLACK
0130P00159	THERMISTOR ICT RED
0130P00134	THERMISTOR IDT YELLOW
0130P00077	THERMISTOR IHD ORANGE (M2, M3, M5, M7)
0130P00098	THERMISTOR OAT GREEN (M2, M3, M4, M5, M7, M8)
0130P00130	THERMISTOR OCT BLUE
0130M00341	TRANSFORMER 20VA 230V (M3, M4, M5, M6, M7, M8, M9)
0150P00005	WHEEL, BLOWER

Expanded Model Nomenclature

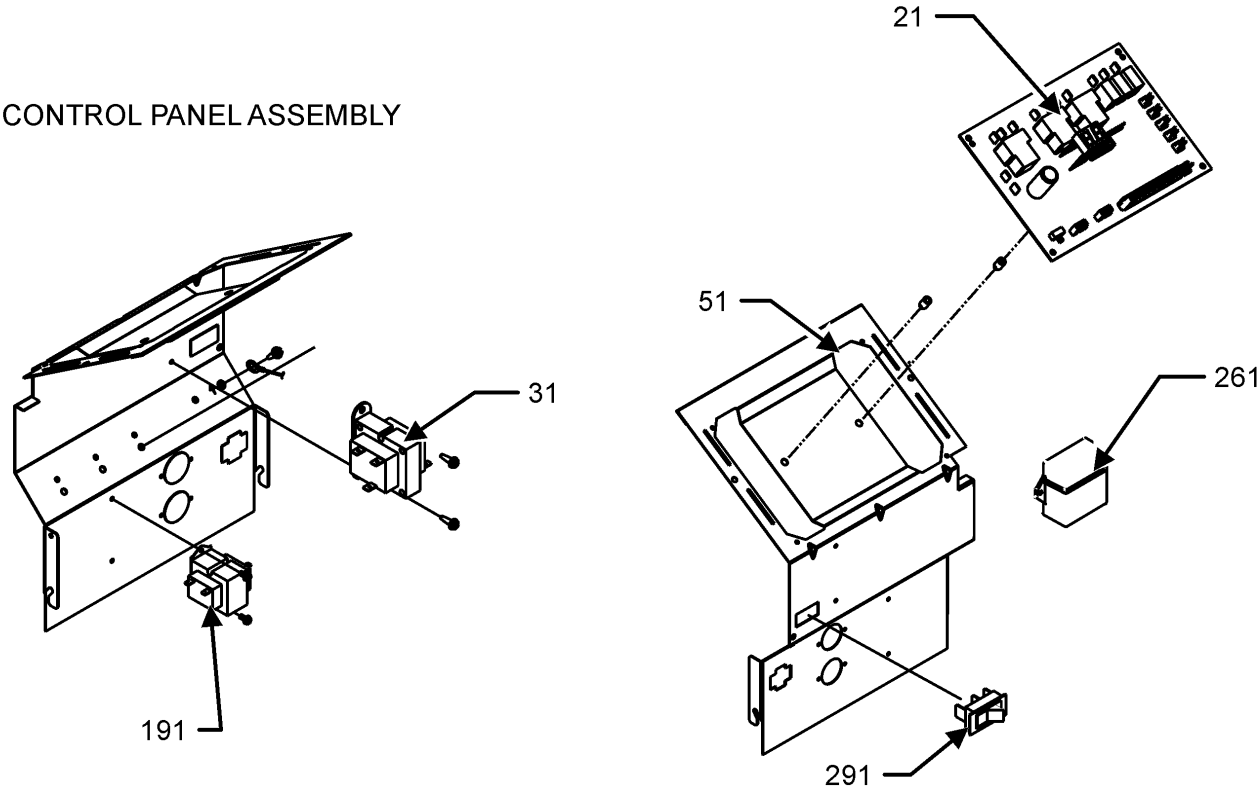
M1 - PTH123G25TXXXGA
M2 - PTH123G35LQRXGA
M3 - PTH123G50DRXXGA
M4 - PTH123G50DXXXGA
M5 - PTH123G50QRXXGA
M6 - PTH123G50QXXXGA
M7 - PTH123G50RXXXGA
M8 - PTH123G50VXXXGA
M9 - PTH123G50WXXXGA

Front Panel / Control Board Assembly

FRONT PANEL ASSEMBLY



CONTROL PANEL ASSEMBLY



Front Panel / Control Board Assembly

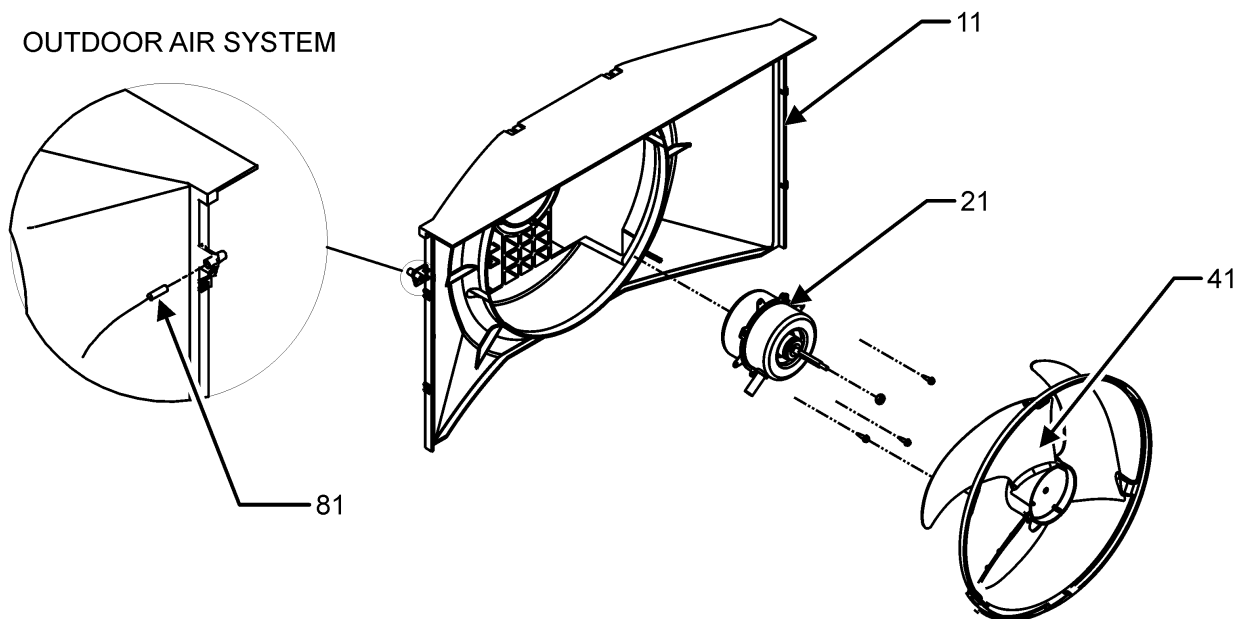
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0161P00048		FRONT, LOUVERS DISCHARGE
21	RSKP0012		CONTROL BOARD M70
21	PCBCP150		PCB CONTROL
31	0130M00341		TRANSFORMER 20VA 230V (M3, M4, M5, M6, M7, M8, M9)
41	0163P00025		CLIP (QTY 2)
51	0121P00130		PANEL, CONTROL
61	0121P00194BL		SCREEN, DISCHARGE, PAINTED
71	0261P00003		DOOR ASSY -AMANA-
81	0261P00011		FRONT ASSY
101	0161P00035		FILTER, RACK (QTY 2)
191	0130M00599		TRANSFMR, 40VA, 240V/208V TO 24V (M1, M2, M3, M4, M8)
261	0130P00104		ANTENNA (M2, M3, M5, M7)
291	B1337701		PADDLE SWITCH (M3, M4, M8)
NS	RSKP0014		CONTROL BOARD KIT
NS	PCBCP147		PCB, CONTROL, D70 (M1, M2, M3, M4, M8)
NS	0259P00015		WIRE HARNESS (M1, M2, M3, M4, M8)

Expanded Model Nomenclature

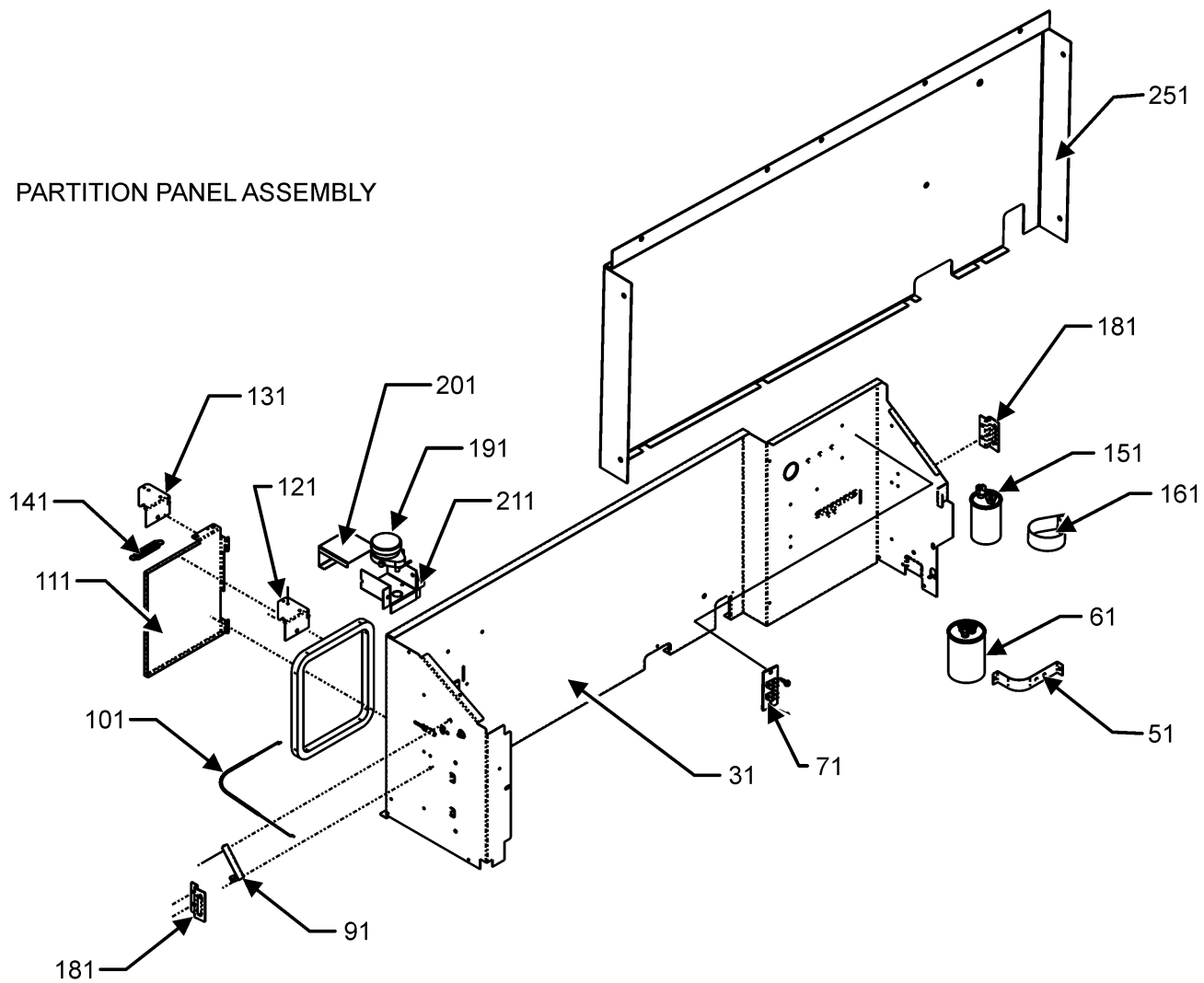
M1 - PTH123G25TXXXGA
M2 - PTH123G35LQRXGA
M3 - PTH123G50DRXXGA
M4 - PTH123G50DXXXGA
M5 - PTH123G50QRXXGA
M6 - PTH123G50QXXXGA
M7 - PTH123G50RXXXGA
M8 - PTH123G50VXXXGA
M9 - PTH123G50WXXXGA

Outdoor Air System / Partition Panel

OUTDOOR AIR SYSTEM



PARTITION PANEL ASSEMBLY



Outdoor Air System / Partition Panel

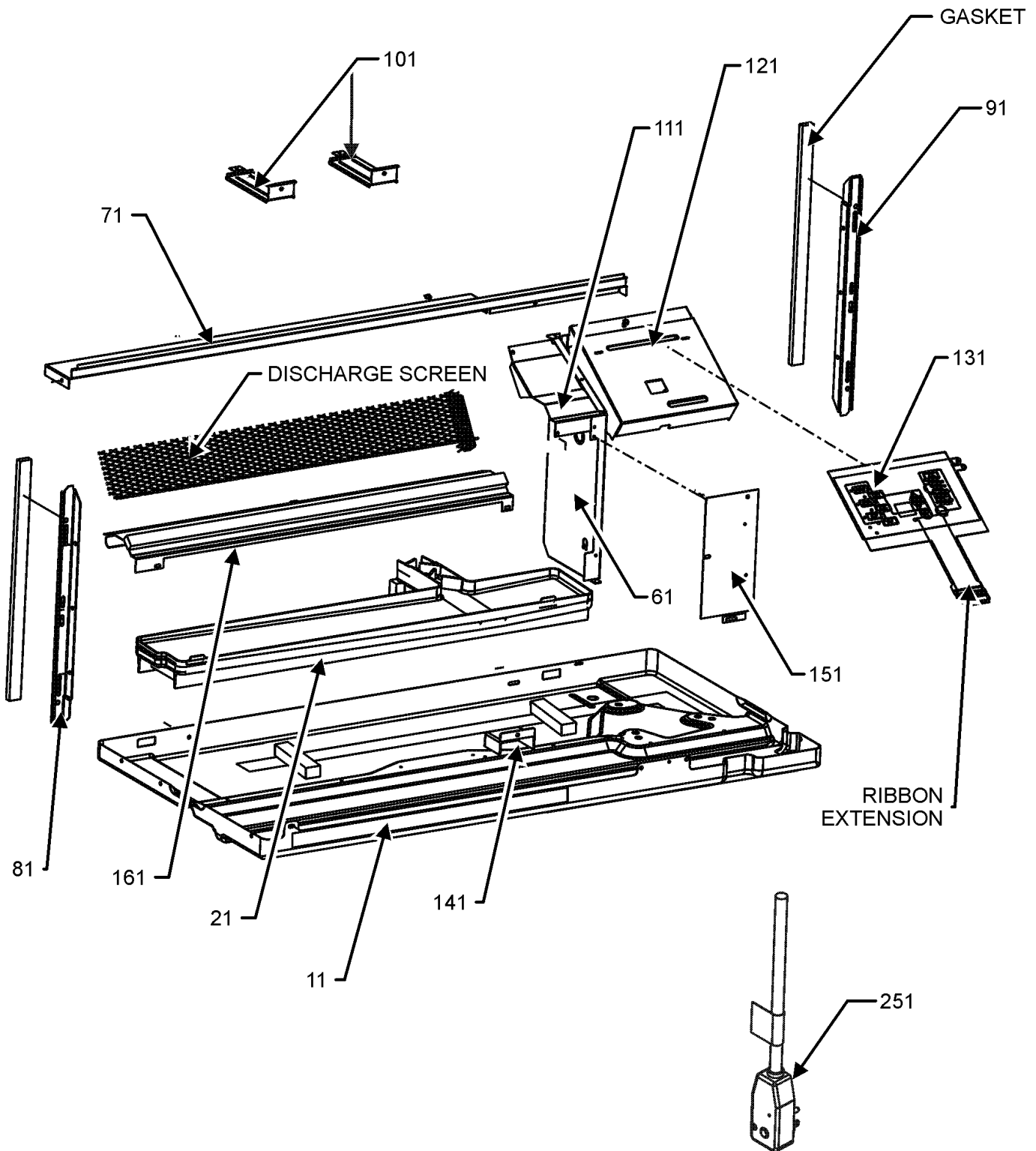
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0161P00110		CONDENSER SHROUD
21	0131P00031		FAN MOTOR, OUTDOOR
31	0121P00093		PANEL-PARTITION (M2, M5, M6)
31	0121P00108		PANEL-PARTITION (M1, M3, M4, M7, M8, M9)
41	0161P00055		FAN, CONDENSER
51	C6300502		CAPACITOR STRAP
61	CAP030300450CS		CAPACITOR, 500V
71	802007090		TERMINAL BOARD
81	0130P00098		THERMISTOR OAT GREEN (M2, M3, M4, M5, M7, M8)
91	11046302		LEVER ARM (M1, M7, M9)
101	0163P00019		CABLE (M1, M7, M9)
111	0121P00177		DOOR-VENT PTC (M1, M3, M4, M7, M8, M9)
121	0121P00079		BRACKET, VENT DOOR (M3, M4, M8)
131	0121P00072		BRACKET, VENT DOOR-C (M1, M7, M9)
131	0121P00180		BRKT, POWER VENT (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		POWER VENT 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 (M2, M5, M6)
NS	0130P00133		HUMIDITY SENSOR (M3, M4, M8)

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M6 - PTH123G50QXXXGA
M7 - PTH123G50RXXXGA
M8 - PTH123G50VXXXGA
M9 - PTH123G50WXXXGA

Base Pan Assembly

BASE PAN ASSEMBLY



Base Pan Assembly

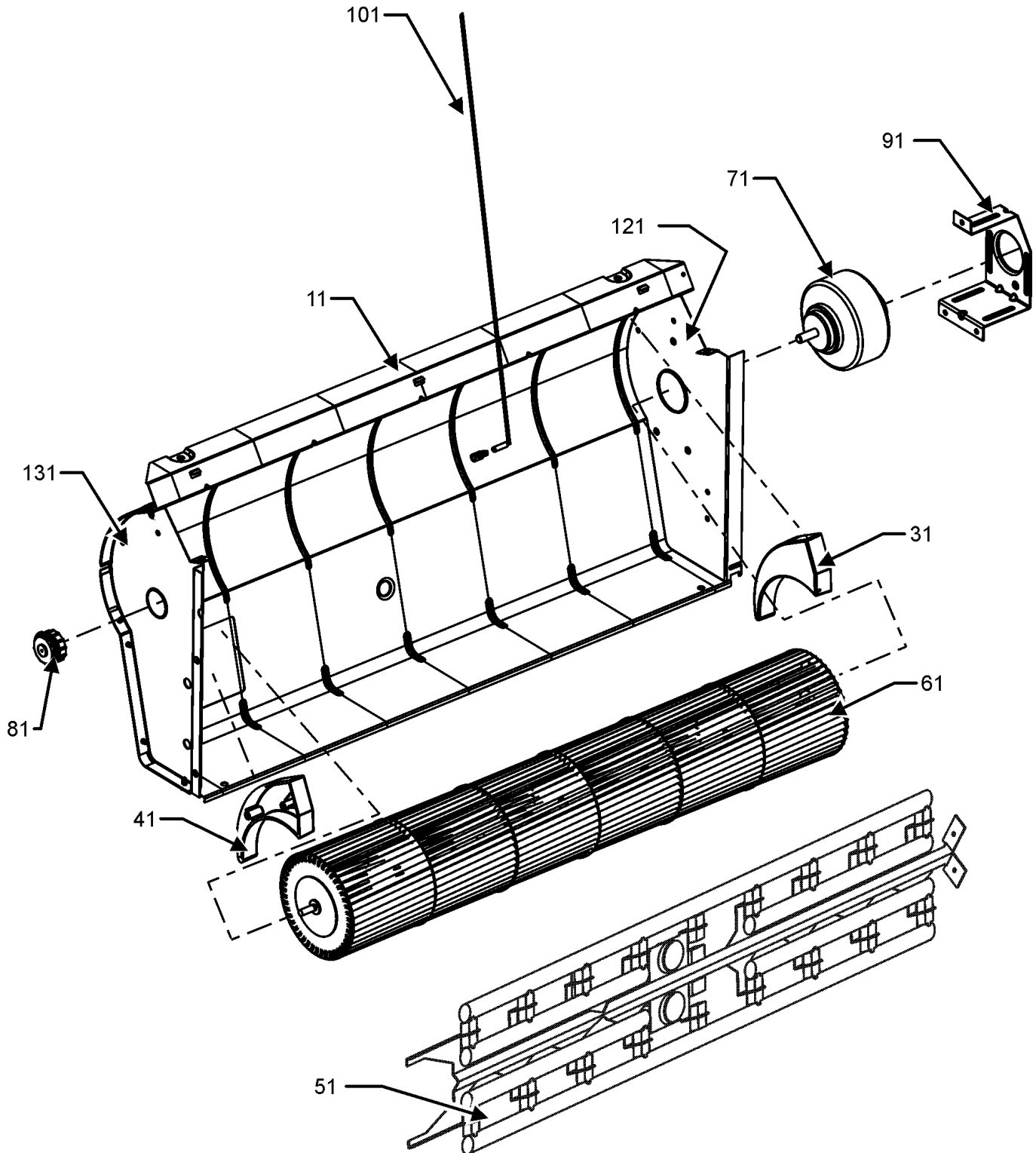
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0121P00175DG		BASE PAN
21	0161P00044		PLASTIC-DRAIN PAN
61	0121P00278		PANEL-MID PTN PTC
71	0121P00063		TOP, PARTITION PANEL
81	0121P00197		SEAL-L SIDE PTC
91	0121P00198		SEAL-R SIDE PTC
101	0121P00071		BRACE, TIE (QTY 2)
111	0121P00070DG		COVER, MOTOR
121	0121P00280		COVER-CONTROL PANEL
131	RSKP0015		CONTROL PANEL COVER AND MEMBRANE
141	0161P00016		PLASTIC-HOOD (M1, M3, M4, M7, M8, M9)
151	20410801		ACCESS COVER
161	0121P00061DG		CUTOFF-SCROLL DG
251	0130P00112		CORD,250VAC,15A (LCD) (M1)
251	0130P00115		CORD,250VAC,20A (LCD) (M2)
251	0130P00118		CORD,250VAC,30A (LCD) (M3, M4, M5, M6, M7, M8, M9)
NS	0130P00109		MEMBRANE (CONTROL)

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 M6 - PTH123G50QXXXGA
 M7 - PTH123G50RXXXGA
 M8 - PTH123G50VXXXGA
 M9 - PTH123G50WXXXGA

Indoor Blower Assembly

INDOOR BLOWER ASSEMBLY



Indoor Blower Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

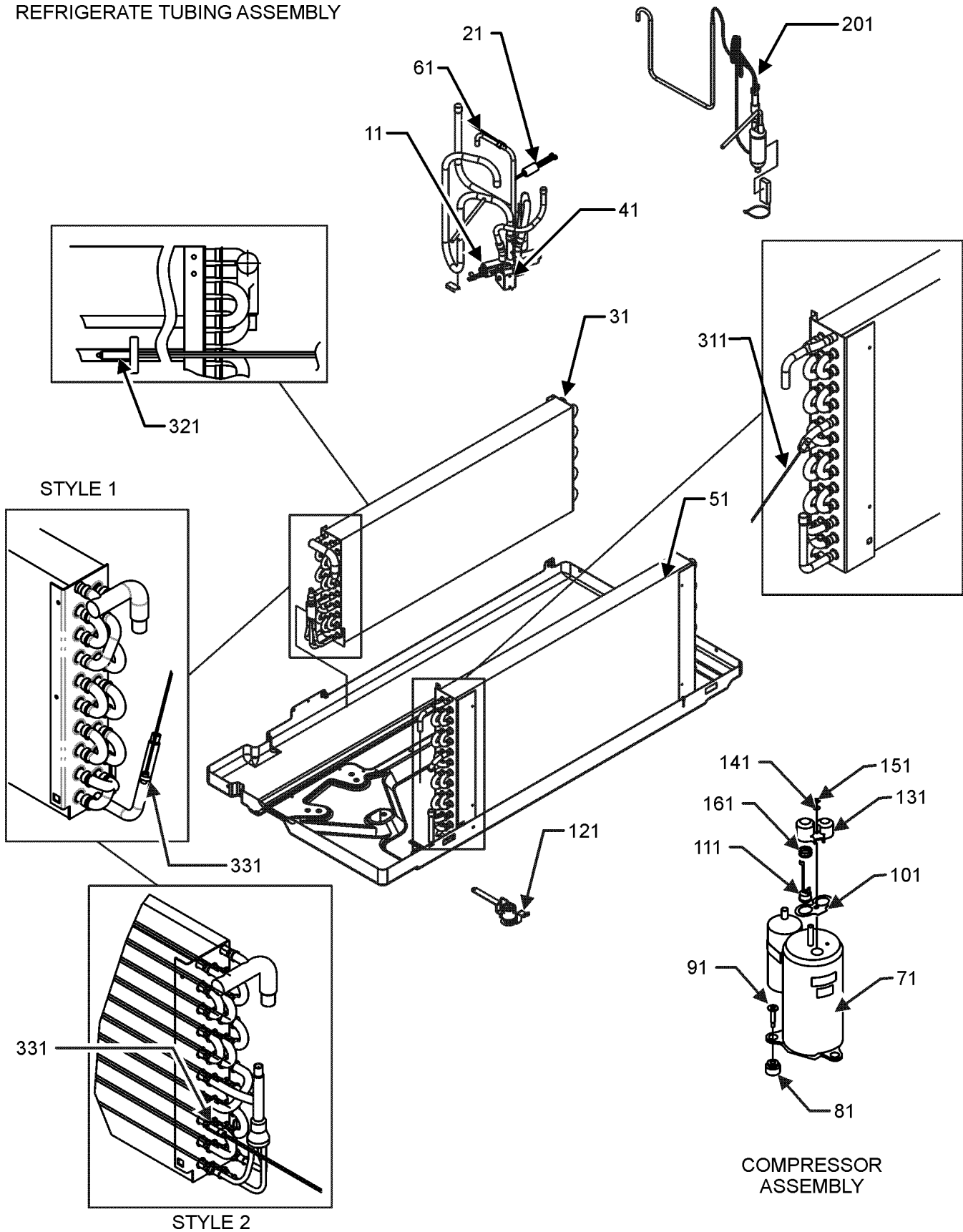
11	0121P00351DG	SCROLL, PNT
31	0161P00021	END CAP, RIGHT
41	0161P00022	END CAP, LEFT
51	0275P00019	HEATER ASSY (M1)
51	0275P00038	HEATER ASSY (M2)
51	0275P00039	HEATER ASSY (M3, M4, M5, M6, M7, M8, M9)
61	0150P00005	WHEEL, BLOWER
71	0131P00054	FAN MOTOR, INDOOR (M1, M2)
71	0131P00055	FAN MOTOR, INDOOR (M3, M4, M5, M6, M7, M8, M9)
81	0163P00027	BEARING
91	0121P00048	BRACKET-MOTOR MOUNT
101	0130P00134	THERMISTOR IDT YELLOW
121	0121P00059DG	ENDPLATE-RH SCROLL
131	0121P00215DG	ENDPLATE-LH SCROLL, PNT

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M3 - PTH123G50DRXXGA
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M5 - PTH123G50QRXXGA
M6 - PTH123G50QXXXGA
M7 - PTH123G50RXXXGA
M8 - PTH123G50VXXXGA
M9 - PTH123G50WXXXGA

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	0201P00098		7MM CONDENSER COIL ASSY
61	0130P00077		THERMISTOR IHD ORANGE (M2, M3, M5, M7)
71	44A272AL&FEKC		COMPRESSOR, RECHI
81	60130203		GROMMET - RECHI COMPRESSOR (QTY 3)
91	0163M00079		SHOULDER SCREW (QTY 3)
101	60100103		TERMINAL GASKET
111	60349601A		OVERLOAD PROTECTOR-ORANGE DOT
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	0210P00467		CAPILLARY TUBE WELDMENT
311	0130P00130		THERMISTOR OCT BLUE
321	0130P00164		THERMISTOR IAT BLACK
331	0130P00159		THERMISTOR ICT RED
NS	BT1392310		PLASTIC CLAMP, .1875 DIA (M3, M4, M8)

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M6 - PTH123G50QXXXGA
M7 - PTH123G50RXXXGA
M8 - PTH123G50VXXXGA
M9 - PTH123G50WXXXGA