

PTH123G Package Terminal Heat Pump

PTH123G00CHXXEA
PTH123G15AXXXEA
PTH123G15DXXEA
PTH123G25CQXXEA
PTH123G25CRXXEA
PTH123G25CXXEA
PTH123G25DRXXEA
PTH123G25DXXEA
PTH123G25QRXXEA
PTH123G25QXXEA
PTH123G25RXXEA
PTH123G25VXXEA
PTH123G35CRXXEA
PTH123G35CVXXEA
PTH123G35CXXEA
PTH123G35DRXXEA
PTH123G35DXXEA
PTH123G35LQRXEA
PTH123G35PQXXEA
PTH123G35PXXEA
PTH123G35QRXXEA
PTH123G35QXXEA
PTH123G35RVXXEA
PTH123G35RXXEA
PTH123G35VXXEA



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This manual is to be used by qualified technicians only.

This manual replaces RP-A5087.

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

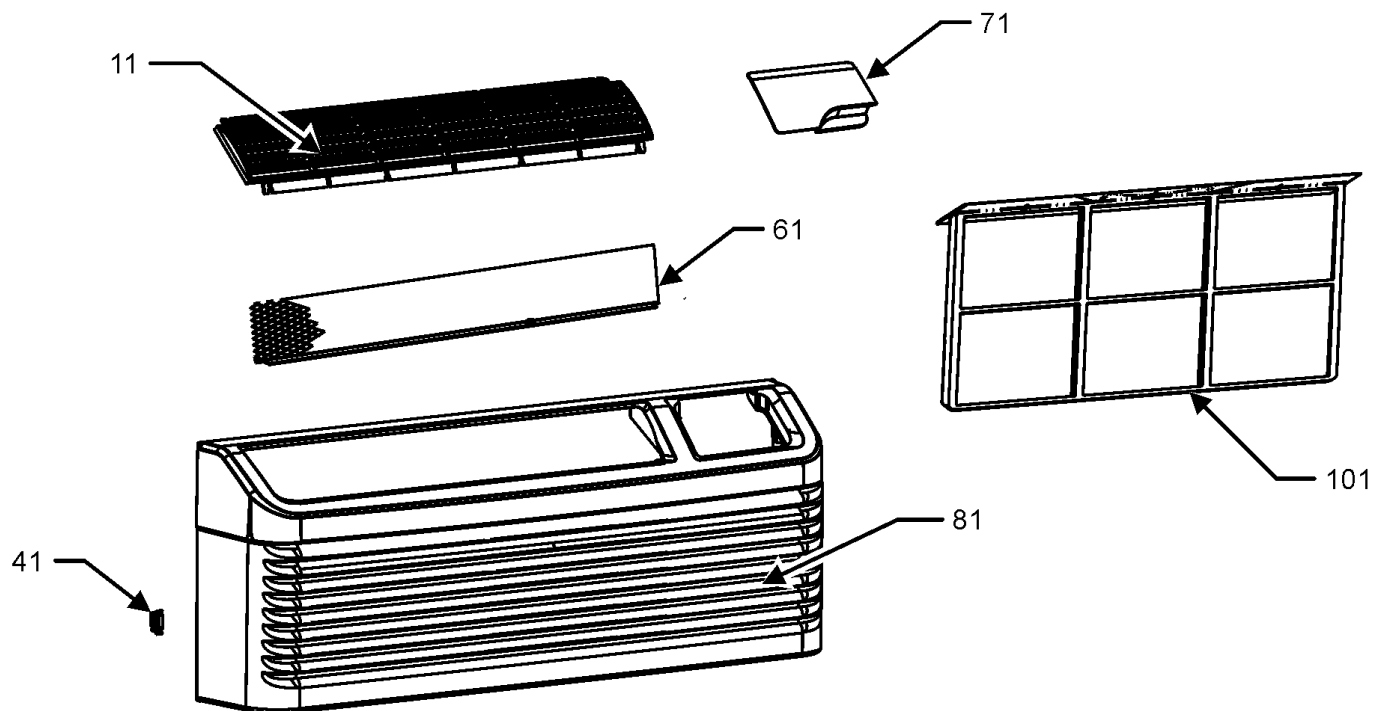
Part

No: Description:

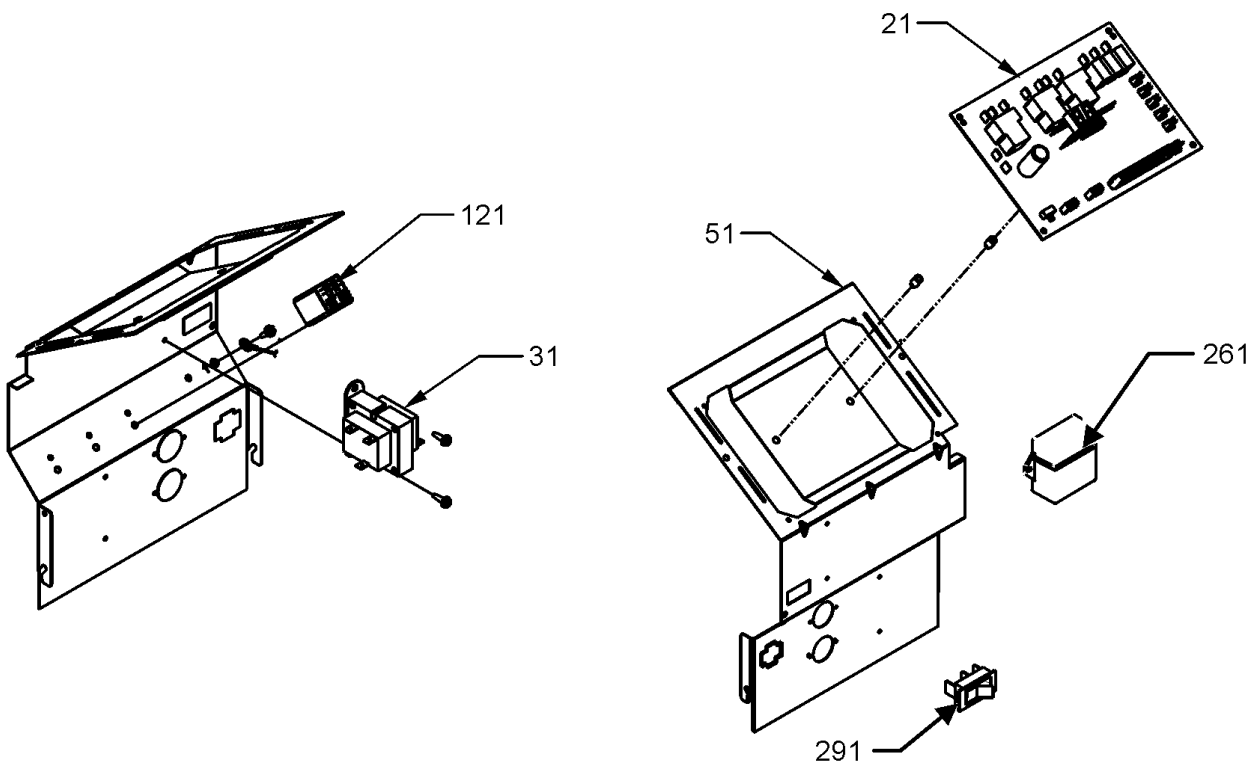
		Expanded Model Nomenclature
20406303	BASE PAN VALVE (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M21, M22, M23, M24, M25)	M1 - PTH123G00CHXXEA M2 - PTH123G15AXXXEA M3 - PTH123G15DXXXEA M4 - PTH123G25CQXXEA M5 - PTH123G25CRXXEA M6 - PTH123G25CXXXEA M7 - PTH123G25DRXXEA M8 - PTH123G25DXXXEA M9 - PTH123G25QRXXEA M10 - PTH123G25QXXXEA M11 - PTH123G25RXXXEA M12 - PTH123G25VXXXEA M13 - PTH123G35CRXXEA M14 - PTH123G35CVXXEA M15 - PTH123G35CXXXEA M16 - PTH123G35DRXXEA M17 - PTH123G35DXXXEA M18 - PTH123G35LQRXEA M19 - PTH123G35PQXXEA M20 - PTH123G35PXXXEA M21 - PTH123G35QRXXEA M22 - PTH123G35QXXXEA M23 - PTH123G35RVXXEA M24 - PTH123G35RXXXEA M25 - PTH123G35VXXXEA
CAP020000440RP	CAPACITOR 2/440V	
CAP030300450CS	CAPACITOR, 500V	
44A262BM&JEKD	COMPRESSOR, RECHI	
0163P00023	CONDENSATE PUMP (M19, M20)	
0121P00077	CONDENSATE PUMP BRACKET (M19, M20)	
RSKP0012	CONTROL BOARD M70	
0130P00112	CORD,250VAC,15A (LCD) (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)	
0130P00115	CORD,250VAC,20A (LCD) (M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)	
0131P00054	FAN MOTOR, INDOOR (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)	
0131P00055	FAN MOTOR, INDOOR (M1)	
0131P00031	FAN MOTOR, OUTDOOR	
0161P00055	FAN, CONDENSER	
0130P00133	HUMIDITY SENSOR (M3, M7, M8, M12, M14, M16, M17, M23, M25)	
RSKP0015	MEMBRANE KIT	
0130P00137	MOTOR (M3, M7, M8, M12, M14, M16, M17, M23, M25)	
60343526	OVERLOAD PROTECTOR	
0151P00009	PTAC REVERSING VALVE ASSY	
0130P00022	REVERSING VALVE COIL	
0130M00181	SPDT RELAY (M1)	
0130M00169	SWITCH, HIGH PRESS	
802007090	TERMINAL BOARD	
0130P00130	THERMISTOR	
0130P00142	THERMISTOR	
0130P00144	THERMISTOR	
0130P00077	THERMISTOR (M5, M7, M9, M11, M13, M16, M18, M21, M23, M24)	
0130P00134	THERMISTOR - DISCHARGE	
0130P00098	THERMISTOR - OUTDOOR AMBIENT (M3, M5, M7, M8, M9, M11, M12, M13, M14, M16, M17, M18, M19, M20, M21, M23, M24, M25)	
0130M00600	TRANS, 40VA, 240V/208V TO 120V (M19, M20)	
0130M00599	TRANS, 40VA, 240V/208V TO 24V (M1, M3, M7, M8, M12, M14, M16, M17, M18, M19, M20, M23, M25)	
0130M00341	TRANSFORMER 20VA 230V (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M21, M22, M23, M24, M25)	

Control Panel / Front Assembly

FRONT PANEL ASSEMBLY



CONTROL PANEL ASSEMBLY

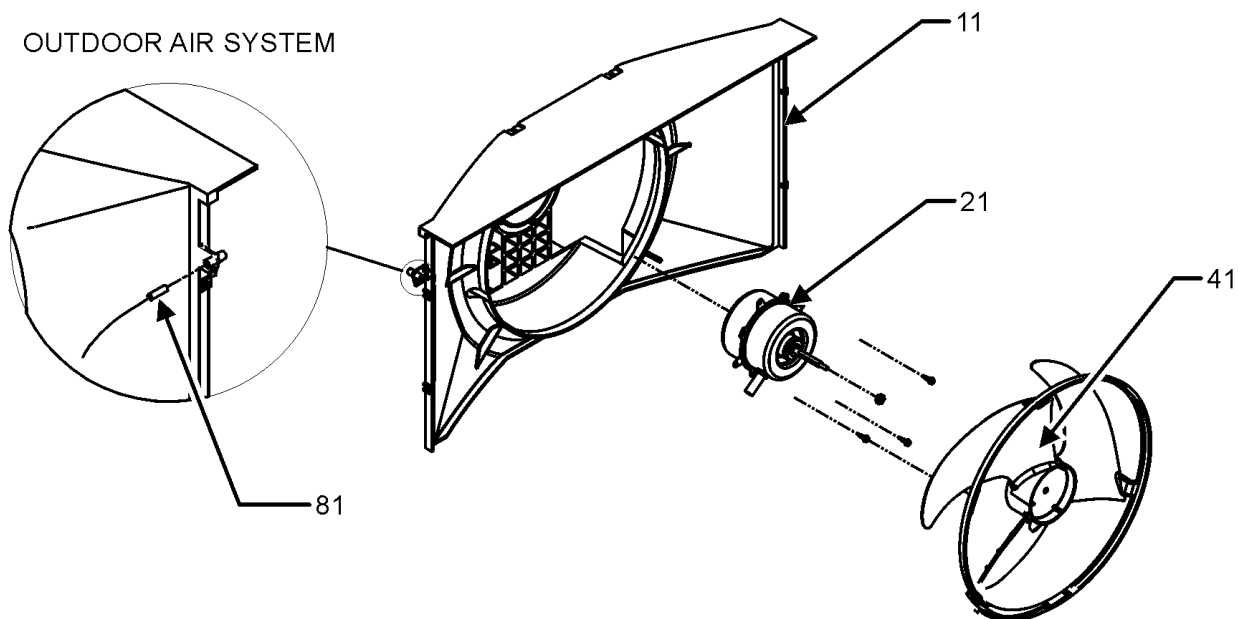


Control Panel / Front Assembly

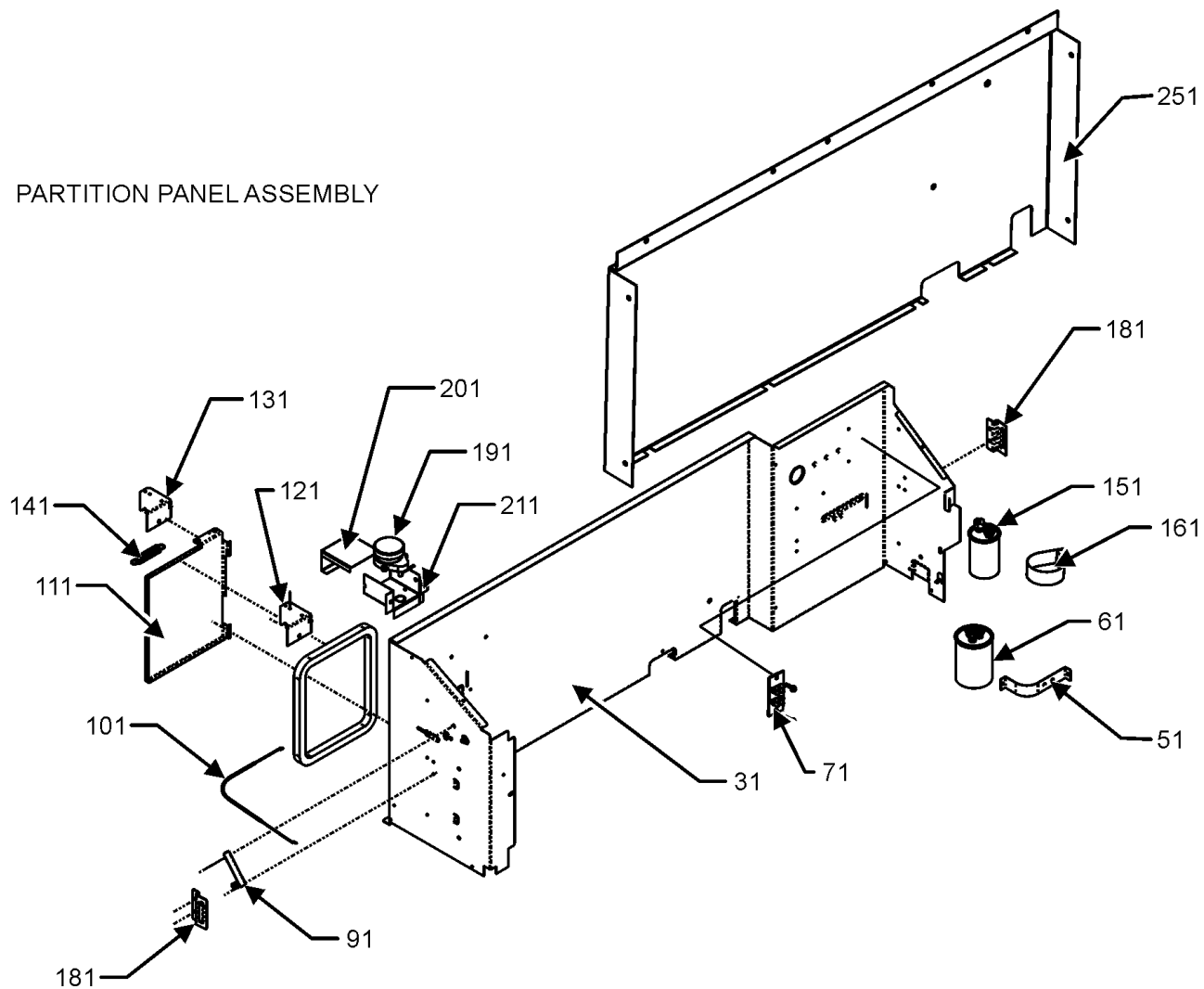
Ref. Part No: No:		Description:	Ref. Part No: No:		Description:
Image 1:			Expanded Model Nomenclature		
11	0161P00048	FRONT-DICHARGE LOUVERS (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)	M1 - PTH123G00CHXXEA		
21	RSKP0012	CONTROL BOARD M70	M2 - PTH123G15A XXXEA		
31	0130M00599	TRANS, 40VA, 240V/208V TO 24V (M1, M3, M7, M8, M12, M14, M16, M17, M18, M19, M20, M23, M24, M25)	M3 - PTH123G15DXXXEA		
31	0130M00341	TRANSFORMER 20VA 230V (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M21, M22, M23, M24, M25)	M4 - PTH123G25CQXXEA		
41	0163P00025	CLIP (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)	M5 - PTH123G25CRXXEA		
51	0121P00130	PANEL, CONTROL	M6 - PTH123G25CXXXEA		
71	0261P00003	DOOR ASSY -AMANA- (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)	M7 - PTH123G25DRXXEA		
81	0261P00011	FRONT ASSY (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)	M8 - PTH123G25DXXXEA		
101	0161P00035	FILTER, RACK (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)	M9 - PTH123G25QRXXEA		
121	0130M00181	SPDT RELAY (M1)	M10 - PTH123G25QXXXEA		
261	0130P00104	ANTENNA (M5, M7, M9, M11, M13, M16, M18, M21, M23, M24)	M11 - PTH123G25RXXXEA		
291	B1337701	PADDLE SWITCH (M3, M7, M8, M12, M14, M16, M17, M23, M25)	M12 - PTH123G25VXXXEA		
NS	0130M00600	TRANS, 40VA, 240V/208V TO 120V (M19, M20)	M13 - PTH123G35CRXXEA		
			M14 - PTH123G35CVXXEA		
			M15 - PTH123G35CXXXEA		
			M16 - PTH123G35DRXXEA		
			M17 - PTH123G35DXXXEA		
			M18 - PTH123G35LQRXEA		
			M19 - PTH123G35PQXXEA		
			M20 - PTH123G35PXXXEA		
			M21 - PTH123G35QRXXEA		
			M22 - PTH123G35QXXXEA		
			M23 - PTH123G35RVXXEA		
			M24 - PTH123G35RXXXEA		
			M25 - PTH123G35VXXXEA		

Outdoor Air System / Partition Assembly

OUTDOOR AIR SYSTEM



PARTITION PANEL ASSEMBLY

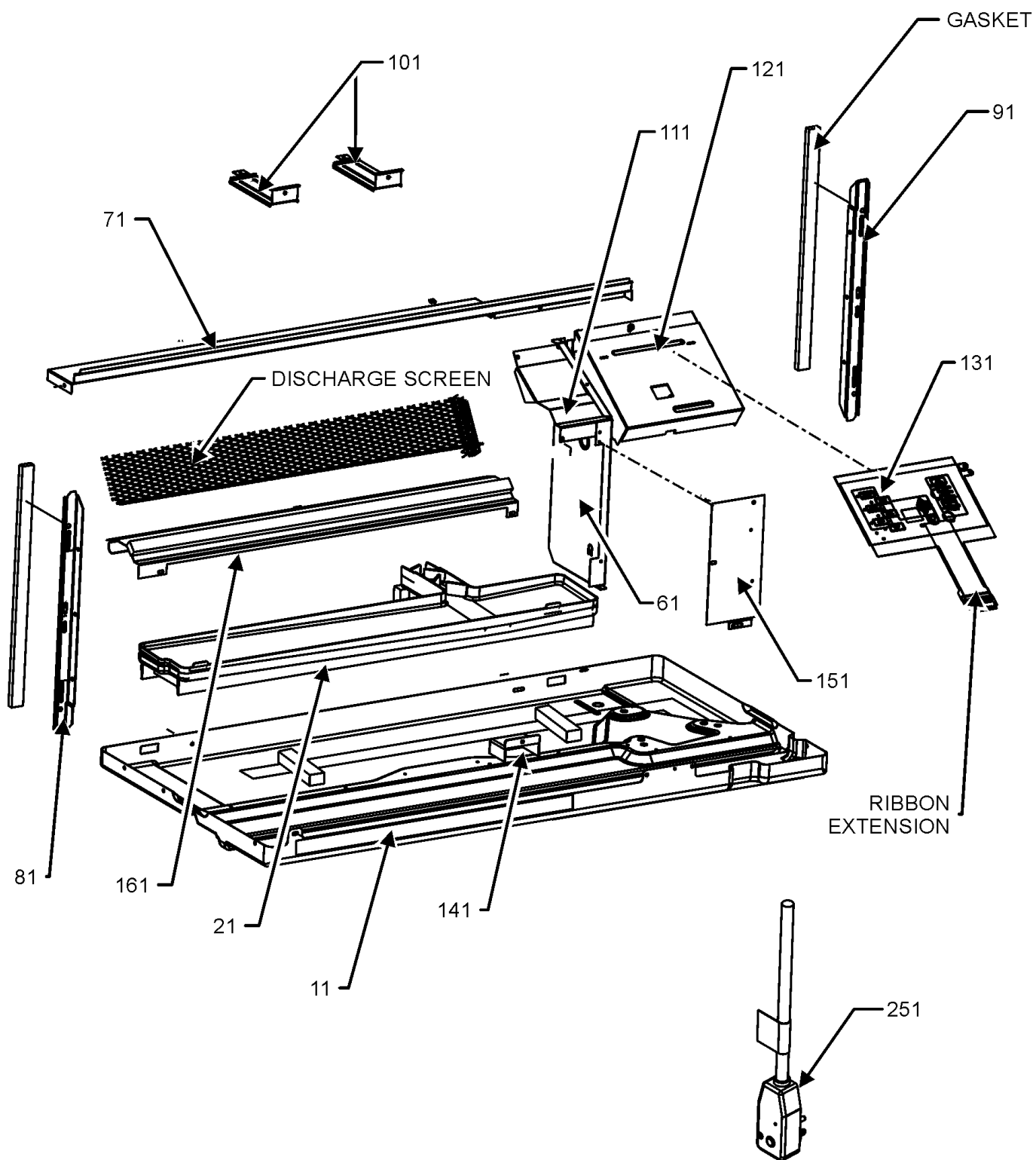


Outdoor Air System / Partition Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:		Expanded Model Nomenclature	
11	0161P00053	SHROUD, CONDENSER	M1 - PTH123G00CHXXEA
21	0131P00031	FAN MOTOR, OUTDOOR	M2 - PTH123G15A XXXEA
31	0121P00093NG	PANEL-PARTITION (M4, M9, M10, M18, M19, M21, M22)	M3 - PTH123G15DXXXEA
31	0121P00108DG	PANEL-PARTITION (M1, M2, M3, M5, M6, M7, M8, M11, M12, M13, M14, M15, M16, M17, M20, M23, M24, M25)	M4 - PTH123G25CQXXEA
41	0161P00055	FAN, CONDENSER	M5 - PTH123G25CRXXEA
51	C6300502	CAPACITOR STRAP	M6 - PTH123G25CXXXEA
61	CAP030300450C S	CAPACITOR, 500V	M7 - PTH123G25DRXXEA
71	802007090	TERMINAL BOARD	M8 - PTH123G25DXXXEA
81	0130P00098	THERMISTOR - OUTDOOR AMBIENT (M3, M5, M7, M8, M9, M11, M12, M13, M14, M16, M17, M18, M19, M20, M21, M23, M24, M25)	M9 - PTH123G25QRXXEA
91	11046302	LEVER ARM (M1, M2, M5, M6, M11, M13, M15, M20, M24)	M10 - PTH123G25QXXXEA
101	0163P00019	CABLE (M1, M2, M5, M6, M11, M13, M15, M20, M24)	M11 - PTH123G25RXXXEA
111	0121P00177	DOOR-VENT PTC (M2, M3, M7, M8, M11, M12, M16, M17, M20, M23, M24, M25)	M12 - PTH123G25VXXXEA
121	0121P00072NG	BRACKET, VENT DOOR-C (M1, M5, M6, M13, M15)	M13 - PTH123G35CRXXEA
131	0121P00079	BRACKET, VENT DOOR (M3, M7, M8, M12, M14, M16, M17, M23, M25)	M14 - PTH123G35CVXXEA
141	11166401	EXTENSION SPRING (M3, M7, M8, M12, M14, M16, M17, M23, M25)	M15 - PTH123G35CXXXEA
151	CAP020000440R P	CAPACITOR 2/440V	M16 - PTH123G35DRXXEA
161	0163P00029	CAPACITOR CLAMP	M17 - PTH123G35DXXXEA
181	11191703	PARTITION PANEL BRACKET (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)	M18 - PTH123G35LQRXEA
191	0130P00137	MOTOR (M3, M7, M8, M12, M14, M16, M17, M23, M25)	M19 - PTH123G35PQXXEA
201	11166201	POWER VENT COVER BRACKET (M3, M7, M8, M12, M14, M16, M17, M23, M25)	M20 - PTH123G35PXXXEA
211	11166101	POWER VENT MOTOR BRACKET (M3, M7, M8, M12, M14, M16, M17, M23, M25)	M21 - PTH123G35QRXXEA
251	0121P00174	PANEL - AUXILIARY (M19)	M22 - PTH123G35QXXXEA
251	0121P00091NG	PANEL AUXILIARY, PNT (M4, M9, M10, M18, M21, M22)	M23 - PTH123G35RVXXEA
NS	0163P00023	CONDENSATE PUMP (M19, M20)	M24 - PTH123G35RXXXEA
NS	0121P00077	CONDENSATE PUMP BRACKET (M19, M20)	M25 - PTH123G35VXXXEA
NS	0130P00133	HUMIDITY SENSOR (M3, M7, M8, M12, M14, M16, M17, M23, M25)	

Base Pan Assembly

BASE PAN ASSEMBLY



Base Pan Assembly

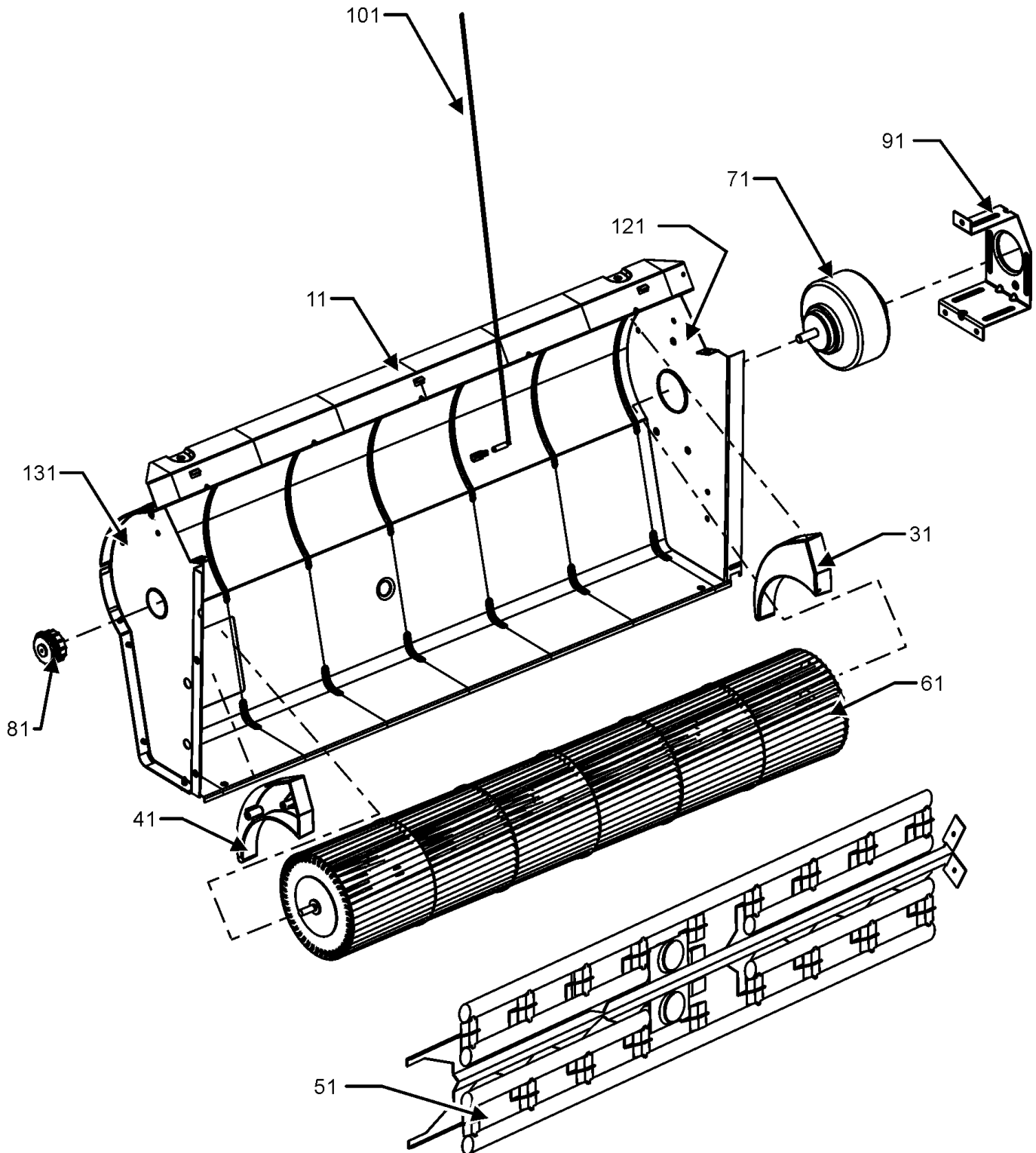
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0121P00175DG		BASEPAN (M2, M3, M7, M8, M9, M10, M11, M12, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)
11	0121P00175NG		BASEPAN (M1, M4, M5, M6, M13, M14, M15)
21	0161P00044		PLASTIC-DRAIN PAN
61	20403301		MID PARTITION PANEL
71	0121P00063NG		TOP, PARTITION PANEL
91	0121P00198		SEAL-R SIDE PTC
101	0121P00071NG		BRACE, TIE (QTY 2)
111	0121P00070DG		COVER, MOTOR
121	0121P00280		COVER-CONTROL PANEL
131	RSKP0015		MEMBRANE KIT
141	0161P00016		PLASTIC-HOOD (M1, M2, M3, M5, M6, M7, M8, M11, M12, M13, M14, M15, M16, M17, M20, M23, M24, M25)
151	20410801		ACCESS COVER
161	0121P00061DG		CUTOFF-SCROLL DG
251	0130P00112		CORD,250VAC, 15A (LCD) (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)
251	0130P00115		CORD,250VAC, 20A (LCD) (M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)
NS	0130P00109		MEMBRANE (CONTROL)

Expanded Model Nomenclature

M1 - PTH123G00CHXXEA
 M2 - PTH123G15AXXXEA
 M3 - PTH123G15DXXEA
 M4 - PTH123G25CQXXEA
 M5 - PTH123G25CRXXEA
 M6 - PTH123G25CXXEA
 M7 - PTH123G25DRXXEA
 M8 - PTH123G25DXXEA
 M9 - PTH123G25QRXXEA
 M10 - PTH123G25QXXEA
 M11 - PTH123G25RXXEA
 M12 - PTH123G25VXXEA
 M13 - PTH123G35CRXXEA
 M14 - PTH123G35CVXXEA
 M15 - PTH123G35CXXEA
 M16 - PTH123G35DRXXEA
 M17 - PTH123G35DXXEA
 M18 - PTH123G35LQRXXEA
 M19 - PTH123G35PQXXEA
 M20 - PTH123G35PXXEA
 M21 - PTH123G35QRXXEA
 M22 - PTH123G35QXXEA
 M23 - PTH123G35RVXXEA
 M24 - PTH123G35RXXEA
 M25 - PTH123G35VXXEA

Indoor Blower Assembly

INDOOR BLOWER ASSEMBLY



Indoor Blower Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

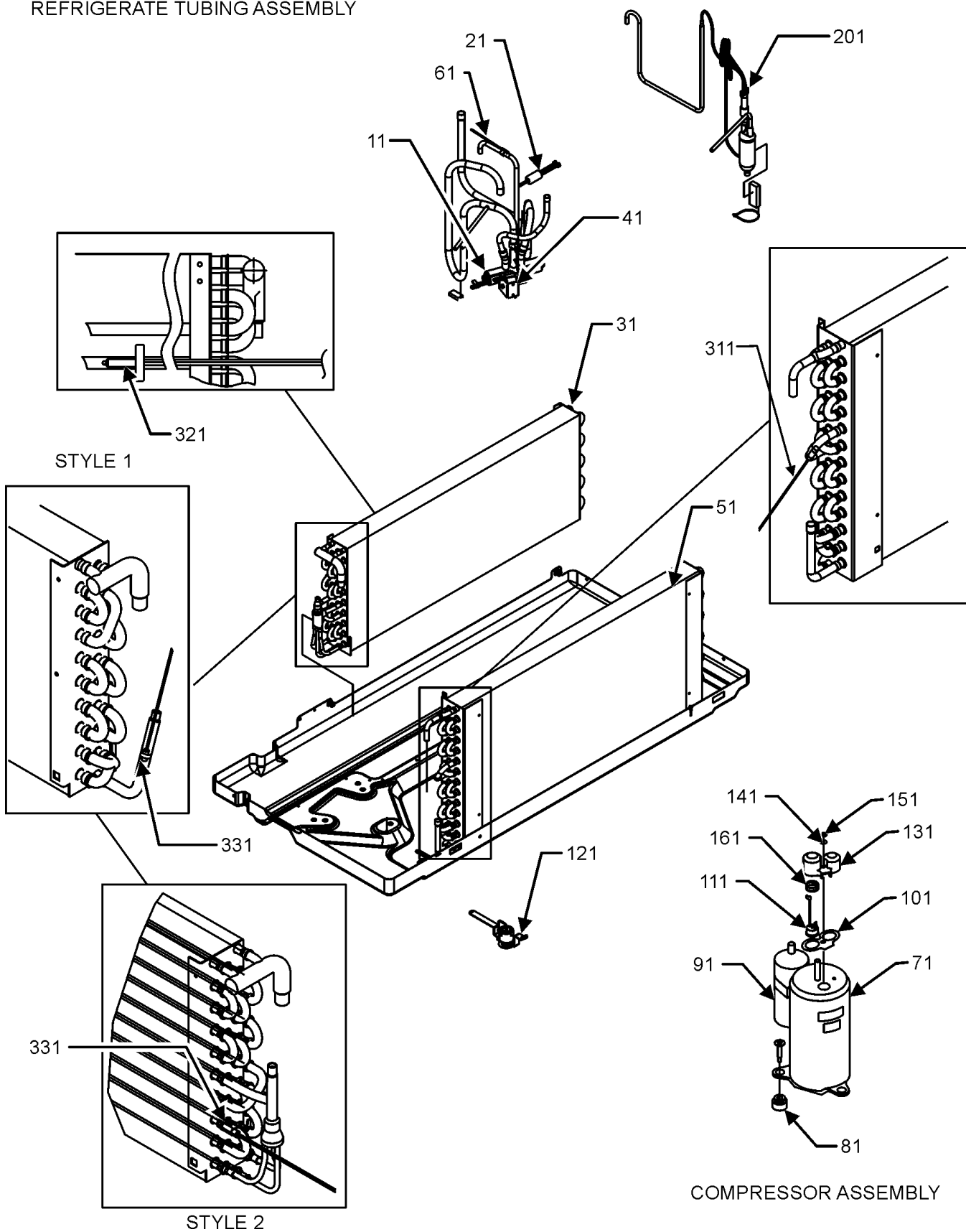
11	0121P00173DG	SCROLL
31	0161P00021	END CAP, RIGHT
41	0161P00022	END CAP, LEFT
51	0275P00019	HEATER ASSY (M4, M5, M6, M7, M8, M9, M10, M11, M12)
51	0275P00022	HEATER ASSY (M2, M3)
51	0275P00038	HEATER ASSY (M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)
61	0150P00005	WHEEL, BLOWER
71	0131P00054	FAN MOTOR, INDOOR (M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)
71	0131P00055	FAN MOTOR, INDOOR (M1)
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 - PTH123G00CHXXEA
 M2 - PTH123G15AXXXEA
 M3 - PTH123G15DXXEA
 M4 - PTH123G25CQXXEA
 M5 - PTH123G25CRXXEA
 M6 - PTH123G25CXXEA
 M7 - PTH123G25DRXXEA
 M8 - PTH123G25DXXEA
 M9 - PTH123G25QRXXEA
 M10 - PTH123G25QXXEA
 M11 - PTH123G25RXXEA
 M12 - PTH123G25VXXEA
 M13 - PTH123G35CRXXEA
 M14 - PTH123G35CVXXEA
 M15 - PTH123G35CXXEA
 M16 - PTH123G35DRXXEA
 M17 - PTH123G35DXXEA
 M18 - PTH123G35LQRXEA
 M19 - PTH123G35PQXXEA
 M20 - PTH123G35PXXEA
 M21 - PTH123G35QRXXEA
 M22 - PTH123G35QXXEA
 M23 - PTH123G35RVXXEA
 M24 - PTH123G35RXXEA
 M25 - PTH123G35VXXEA

Refrigerant Tubing Assembly

REFRIGERATE TUBING ASSEMBLY



Refrigerant Tubing Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

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 (M1, M4, M5, M6, M13, M14, M15)
51	0201P00098	7MM CONDENSER COIL ASSY (M2, M3, M7, M8, M9, M10, M11, M12, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25)
61	0130P00077	THERMISTOR (M5, M7, M9, M11, M13, M16, M18, M21, M23, M24)
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 (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M21, M22, M23, M24, M25)
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, M7, M8, M12, M14, M16, M17, M23, M25)

Expanded Model Nomenclature

M1 - PTH123G00CHXXEA
M2 - PTH123G15AXXXEA
M3 - PTH123G15DXXEA
M4 - PTH123G25CQXXEA
M5 - PTH123G25CRXXEA
M6 - PTH123G25CXXEA
M7 - PTH123G25DRXXEA
M8 - PTH123G25DXXEA
M9 - PTH123G25QRXXEA
M10 - PTH123G25QXXEA
M11 - PTH123G25RXXEA
M12 - PTH123G25VXXEA
M13 - PTH123G35CRXXEA
M14 - PTH123G35CVXXEA
M15 - PTH123G35CXXEA
M16 - PTH123G35DRXXEA
M17 - PTH123G35DXXEA
M18 - PTH123G35LQRXEA
M19 - PTH123G35PQXXEA
M20 - PTH123G35PXXEA
M21 - PTH123G35QRXXEA
M22 - PTH123G35QXXEA
M23 - PTH123G35RVXXEA
M24 - PTH123G35RXXEA
M25 - PTH123G35VXXEA