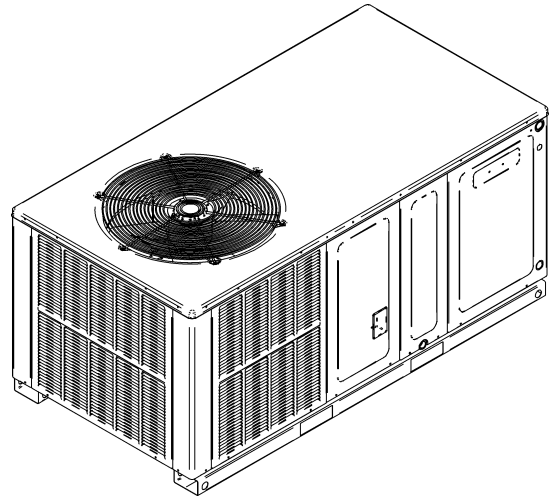




REPAIR PARTS

GPHH5 Horizontal Package Heat Pump

GPHH52431AA
GPHH53031AA
GPHH53631AA
GPHH54231AA
GPHH54831AA
GPHH56031AA



This manual is to be used by qualified technicians only.

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Important Information

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Functional Parts List	3
Illustration and Parts	4 - 11

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 Manufacturing 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 Manufacturing Company, L.P. also recommends contacting an authorized technician and using authorized factory parts.

Goodman Manufacturing 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 Manufacturing 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 Manufacturing Company, L.P.

19001 Kermier Road

Waller, Texas 77484

713-861-2500-Telephone

713-863-2382-Facsimile

Functional Parts

Part

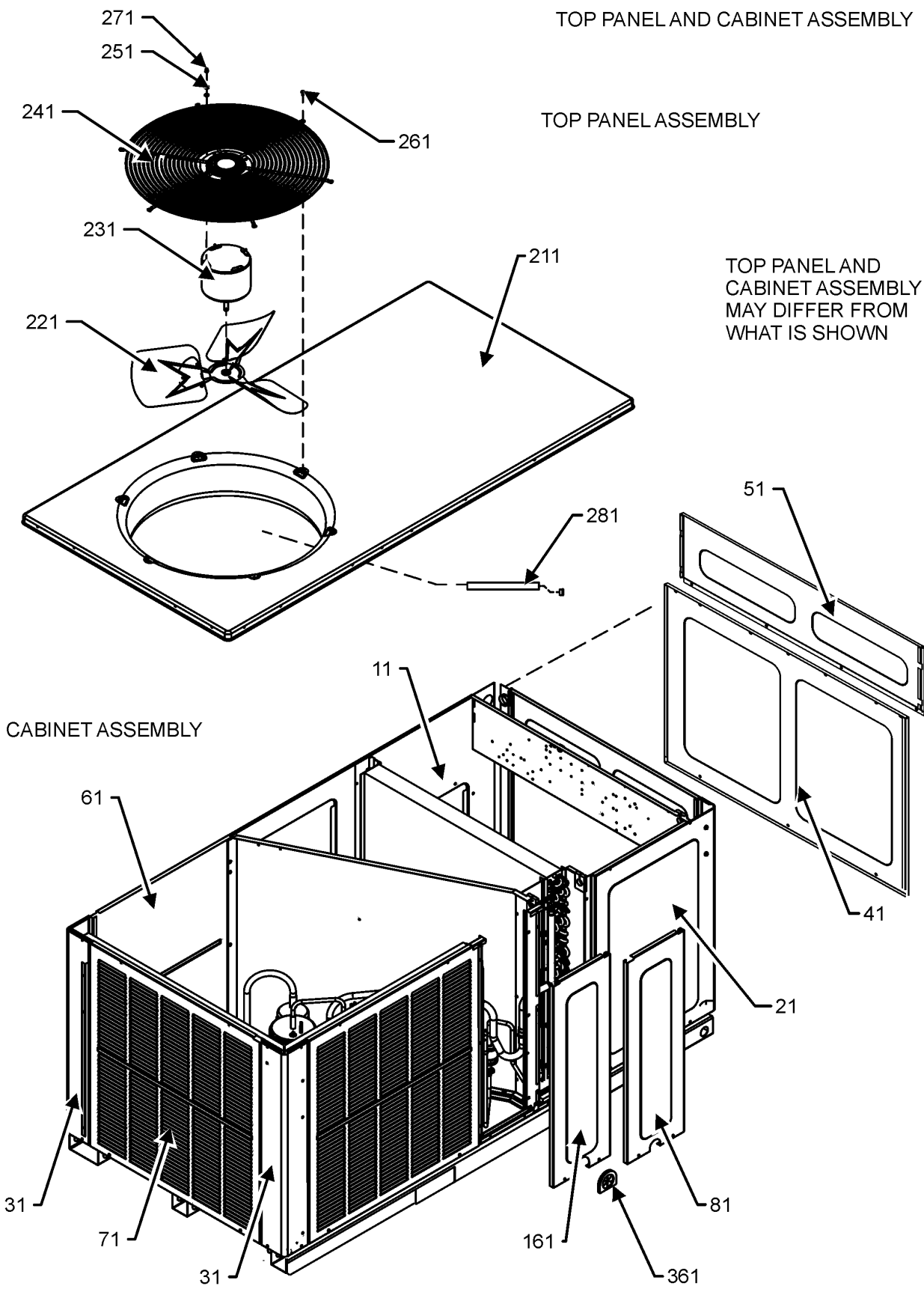
No: Description:

Expanded Model Nomenclature

0150G00004	BLADE, FAN 24 OA SERIES (M4, M5, M6)
B1368054	BLOWR WHEEL (11X8, CLOCKWISE) (M6)
CAP100350370RS	CAP, 10/35 MFD/370/DUAL RD (M4, M5)
CAB050350440CS	CAP, 5/35 MFD/440V RD - BPRF (M1, M3)
CAB050400440CT	CAP, 5/40 MFD/440V RD - BPRF (M2, M6)
YP25K1TPFVASE	COMPRESSOR (M2)
YP21K1TPFVASE	COMPRESSOR (M1)
YPS29K1TPFVASE	COMPRESSOR (M3)
YPS51K1TPFVASC	COMPRESSOR (M6)
YPS40K1TPFVASC	COMPRESSOR (M4, M5)
CONT1P030024D	CONT, 1 POLE, 30 AMP, 24VAC (M1, M2, M3, M4)
CONT2P040024D	CONT, 2 POLE, 40 AMP, 24VAC (M5, M6)
0130M00099	CONTROL DEFROST
0131M00747M	CONTROLLERLESS MOTOR (M4, M5, M6)
0131M00750M	CONTROLLERLESS MOTOR (M1, M2, M3)
0150M00055	FAN BLADE, 22" (M1, M2)
B1086765	FAN BLADE, TYPE 3 (M3)
0130M20009	HIGH PRESSURE SWITCH
0130M00075	LOW PRESSUE SWITCH
0131M00847	MOTOR, 1/4 HP, 1 SP, 6 PL (M6)
0131M00836	MOTOR, 1/4HP,1SP,8PL,AL (M3)
0131M00979	MOTOR, 1/6 HP, 1SP, 8PL,AL (M1, M2)
PCBCM301V0001	PCB CONTROL AIR HANDLER
PCBDM133	PCB DEFROST CONTROL
0131G20019	PROGRAMMED CONTROLLER (M1)
0131G20020	PROGRAMMED CONTROLLER (M3)
0131G00136	PROGRAMMED CONTROLLER (M4, M5)
0131G00133	PROGRAMMED CONTROLLER (M2)
0131G20021	PROGRAMMED CONTROLLER (M6)
0130M00242	RELAY 24V (M3, M4, M5, M6)
0151R00099	REVERSING VALVE (M1, M2, M3)
0151R00068	REVERSING VALVE (M4, M5, M6)
SER2A08012	SENSATA R32 SENSOR
B1225022	SOLENOID COIL
0130M00138	TRANSFORMER, 208/230, 24V
0151G20019	VALVE, TXV(COND COIL) (M5)
0151G20018	VALVE, TXV(COND COIL) (M4)
0151G20020	VALVE, TXV(COND COIL) (M6)
0151G20006	VALVE, TXV(EVAP COIL) (M1)
0151G20007	VALVE, TXV(EVAP COIL) (M2)
0151G20008	VALVE, TXV(EVAP COIL) (M3)
0151G20009	VALVE, TXV(EVAP COIL) (M4)
0151G20010	VALVE, TXV(EVAP COIL) (M5)
0151G20011	VALVE, TXV(EVAP COIL) (M6)
B1368016	WHEEL, BLOWER, 10X8 (M1, M2, M3, M4, M5)

M1 - GPHH52431AA
M2 - GPHH53031AA
M3 - GPHH53631AA
M4 - GPHH54231AA
M5 - GPHH54831AA
M6 - GPHH56031AA

Top Panel and Cabinet Assembly



Top Panel and Cabinet Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

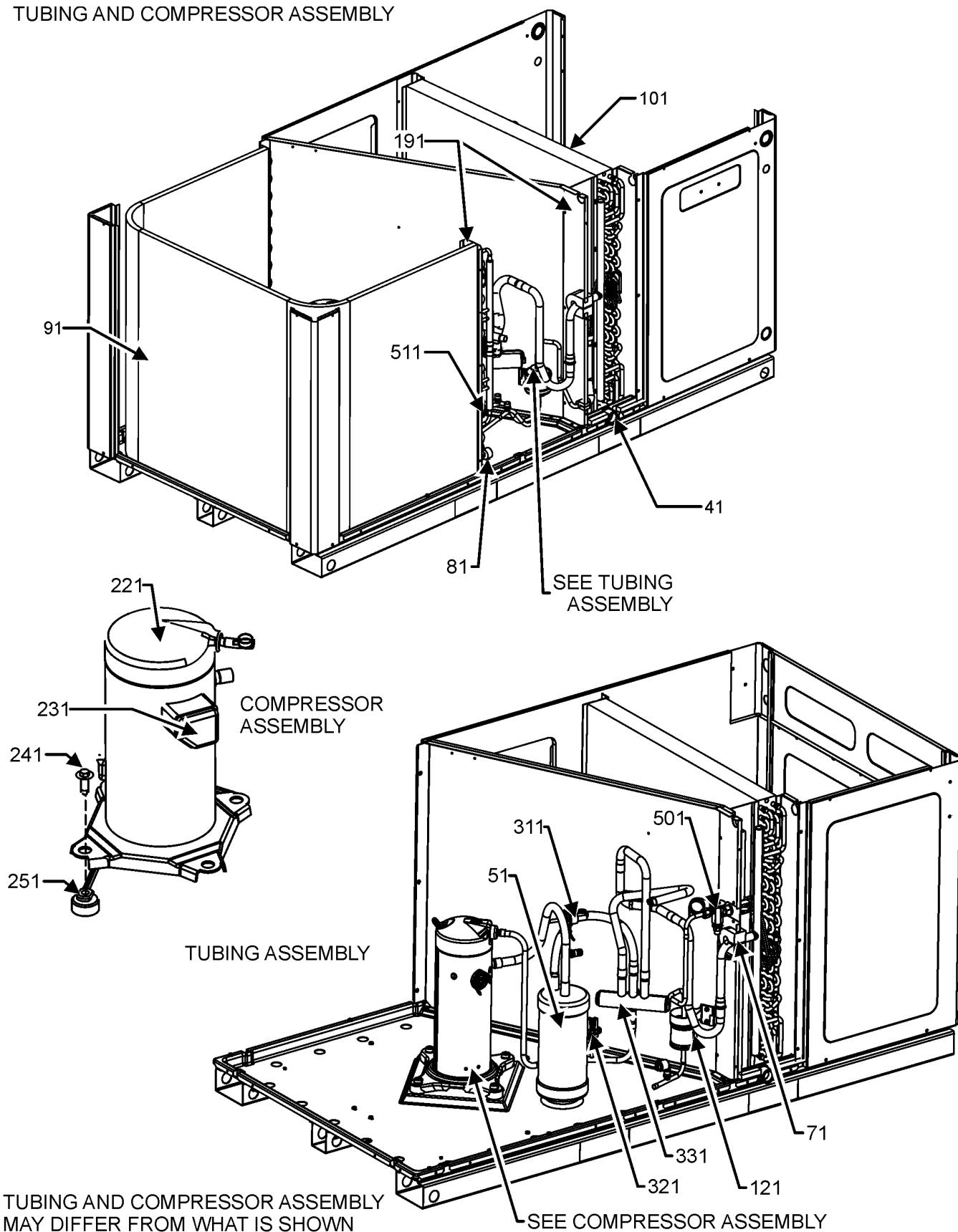
11	0121G00667PDG	PNL, DUCT 27.5" (M1, M2)
11	0121G00668PDG	PNL, DUCT, 32.5" (M3, M4, M5)
11	0121G00669PDG	PNL, DUCT, 36" (M6)
21	0121G00664DG	PNL, CORNER, 27.5" (M1, M2)
21	0121G00665DG	PNL, CORNER, 32.5" (M3, M4, M5)
21	0121G00666DG	PNL, CORNER, 36" (M6)
31	0121G00047PDG	POST, COR, 27.5" (M1, M2)
31	0121G00048PDG	POST, COR, 32.5" (M3, M4, M5)
31	0121G00082PDG	POST, COR, 36" (M6)
41	0121G00271DG	PNL, EXT BLOWER, 27.5" (M1, M2)
41	0121G00272DG	PNL, EXT BLOWER, 32.5" (M3, M4, M5)
41	0121G00273DG	PNL, EXT BLOWER, 36" (M6)
51	0121G00276DG	EXTERNAL CONTROL BOX PANEL
61	0121G00090PDG	PNL, 4BANK 36" LVR (M6)
61	0121G00069PDG	PNL, LVR, 27.5" 4BANK (M1, M2)
61	0121G00070PDG	PNL, LVR, 32.5" 4BANK (M3, M4, M5)
71	0121G00091PDG	PNL, 5 BANK 36" LVR (M6)
71	0121G00072PDG	PNL, LVR, 27.5" 5BANK (M1, M2)
71	0121G00073PDG	PNL, LVR, 32.5" 5BANK (M3, M4, M5)
81	0121G00089PDG	PNL, 36" EXT EVAP RMV (M6)
81	0121G00065PDG	PNL, EVAP, 8.75" X 27.5" (M1, M2)
81	0121G00066PDG	PNL, EVAP, 8.75" X 32.5" (M3, M4, M5)
161	0121G00711DG	PNT, COMPRESSOR PANEL (M1, M2)
161	0121G00712DG	PNT, COMPRESSOR PANEL (M3, M4, M5)
161	0121G00715DG	PNT, COMPRESSOR PANEL (M6)
211	0121G00936DG	PAINTED, PANEL, TOP
221	0150G00004	BLADE, FAN 24 OA SERIES (M4, M5, M6)
221	0150M00055	FAN BLADE, 22" (M1, M2)
221	B1086765	FAN BLADE, TYPE 3 (M3)
231	0131M00847	MOTOR, 1/4 HP, 1 SP, 6 PL (M6)
231	0131M00836	MOTOR, 1/4HP,1SP,8PL,AL (M3)
231	0131M00979	MOTOR, 1/6 HP, 1SP, 8PL,AL (M1, M2)
241	0152G00003	FAN GRILLE
251	0163M00005P	WASHER, BLACK (.50 OD .218ID) (QTY 4)
261	M0221817	SMALL SCREW (QTY 6)
271	0163M00006P	ACORN NUT 5/16 HEX BLACK (QTY 4)
281	0161R00123	CONDUIT
361	0164G00005	GROMMET-HORSESHOE 1.675
NS	B1392012	GROMMET / HS 1.0 - .79

Expanded Model Nomenclature

M1 - GPHH52431AA
M2 - GPHH53031AA
M3 - GPHH53631AA
M4 - GPHH54231AA
M5 - GPHH54831AA
M6 - GPHH56031AA

Tubing and Compressor Assembly

TUBING AND COMPRESSOR ASSEMBLY



Tubing and Compressor Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

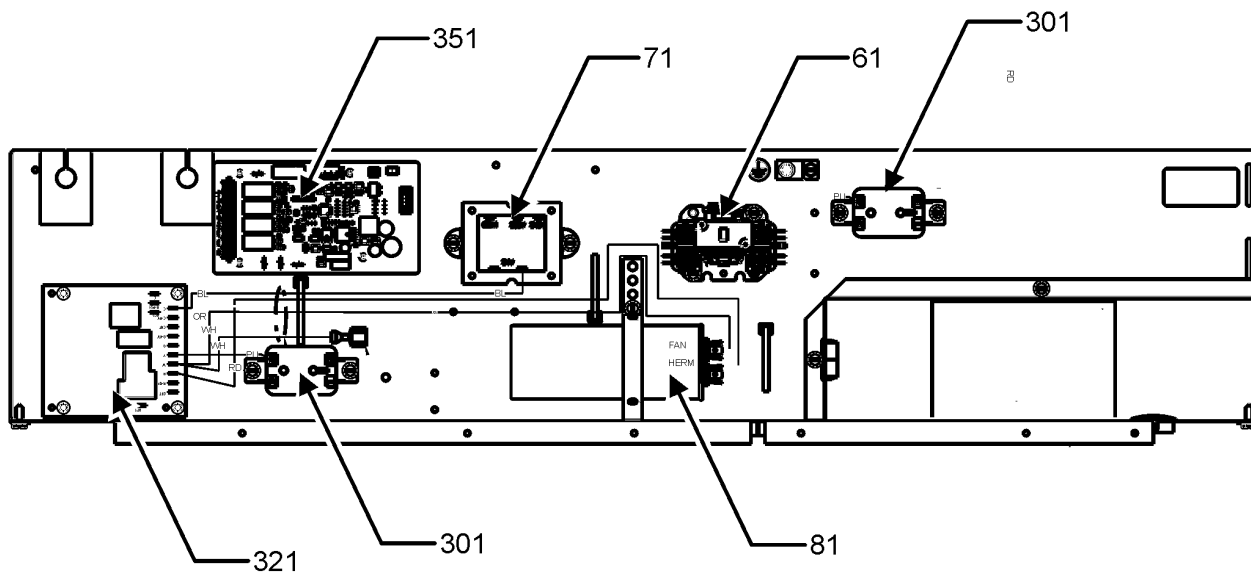
41	0161G00000P	DRIP PAN
51	B1226206	ACCUMULATOR (M1, M2)
51	B1226207	ACCUMULATOR (M3, M4, M5, M6)
71	20333501	GROMMET-HORSESHOE
81	0130M00099	CONTROL DEFROST
91	0201G20010	COND COIL ASSEMBLY (M6)
91	0201G20011	COND COIL ASSEMBLY (M4)
91	0201G20015	COND COIL ASSEMBLY (M5)
91	0201G20027	COND COIL TUBING ASSEMBLY (M1)
91	0201G20028	COND COIL TUBING ASSEMBLY (M2)
91	0201G20029	COND COIL TUBING ASSEMBLY (M3)
101	0202G20024	EVAP COIL ASSEMBLY (M3)
101	0202G20025	EVAP COIL ASSEMBLY (M4)
101	0202G20026	EVAP COIL ASSEMBLY (M1)
101	0202G20027	EVAP COIL ASSEMBLY (M6)
101	0202G20034	EVAP COIL ASSEMBLY (M5)
101	0202G20035	EVAP COIL ASSEMBLY (M2)
121	0162G00009	BI-FLOW FILTER DRIER,STEEL (M6)
121	0162R00056	FILTER/DRIER-BI-FLOW (M1, M2, M3, M4, M5)
191	0121G00045P	POST 27.5" (M1, M2)
191	0121G00079P	POST 32.5" (M3, M4, M5)
191	0121G00083P	POST, 36" (M6)
221	YP21K1TPFVASE	COMPRESSOR (M1)
221	YP25K1TPFVASE	COMPRESSOR (M2)
221	YPS29K1TPFVASE	COMPRESSOR (M3)
221	YPS40K1TPFVASC	COMPRESSOR (M4, M5)
221	YPS51K1TPFVASC	COMPRESSOR (M6)
231	0159G00004	COMPRESSOR SCROLL HARNESS
241	M0221641	TF SHOULDER SCREW (QTY 4)
251	B1339533	GROMMET, COMPRESSOR (SCROLL & (QTY 4)
311	0130M00075	LOW PRESSUE SWITCH
321	0130M20009	HIGH PRESSURE SWITCH
331	0151R00068	REVERSING VALVE (M4, M5, M6)
331	0151R00099	REVERSING VALVE (M1, M2, M3)
501	0151G20006	VALVE, TXV(EVAP COIL) (M1)
501	0151G20007	VALVE, TXV(EVAP COIL) (M2)
501	0151G20008	VALVE, TXV(EVAP COIL) (M3)
501	0151G20009	VALVE, TXV(EVAP COIL) (M4)
501	0151G20010	VALVE, TXV(EVAP COIL) (M5)
501	0151G20011	VALVE, TXV(EVAP COIL) (M6)
511	0151G20018	VALVE, TXV(COND COIL) (M4)
511	0151G20019	VALVE, TXV(COND COIL) (M5)
511	0151G20020	VALVE, TXV(COND COIL) (M6)
NS	B1373315	ACCESS FITTING (QTY 2)
NS	0121G00953	BASEPAN
NS	0121G00044PRF	BASEPAN RAIL (QTY 2)
NS	0159G00010	CABLE COMPR SOL (M3, M4, M5, M6)
NS	0128G00052	EVAP DRIP SHIELD
NS	0121G00577	PANEL, REAR EVAP BLOCKOFF (M6)
NS	0121G00593	PANEL, REAR EVAP BLOCKOFF (M1, M2)
NS	0121G00598	PANEL, REAR EVAP BLOCKOFF (M3, M4, M5)
NS	0121G00952	RAIL, BASEPAN SUPPORT
NS	0163M00629	RED CAP WITH O-RING (QTY 2)
NS	B1225022	SOLENOID COIL

Expanded Model Nomenclature

M1 - GPHH52431AA
M2 - GPHH53031AA
M3 - GPHH53631AA
M4 - GPHH54231AA
M5 - GPHH54831AA
M6 - GPHH56031AA

Control Box Assembly

CONTROL BOX ASSEMBLY



CONTROL BOX ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

Control Box Assembly

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

61	CONT1P030024D	CONT, 1 POLE, 30 AMP, 24VAC (M1, M2, M3, M4)
61	CONT2P040024D	CONT, 2 POLE, 40 AMP, 24VAC (M5, M6)
71	0130M00138	TRANSFORMER, 208/230, 24V
81	CAP100350370RS	CAP, 10/35 MFD/370/DUAL RD (M4, M5)
81	CAB050350440CS	CAP, 5/35 MFD/440V RD - BPRF (M1, M3)
81	CAB050400440CT	CAP, 5/40 MFD/440V RD - BPRF (M2, M6)
201	20520901	CAPACITOR STRAP
301	0130M00242	RELAY 24V (M3, M4, M5, M6)
321	PCBDM133	PCB DEFROST CONTROL
351	PCBCM301V0001	PCB CONTROL AIR HANDLER

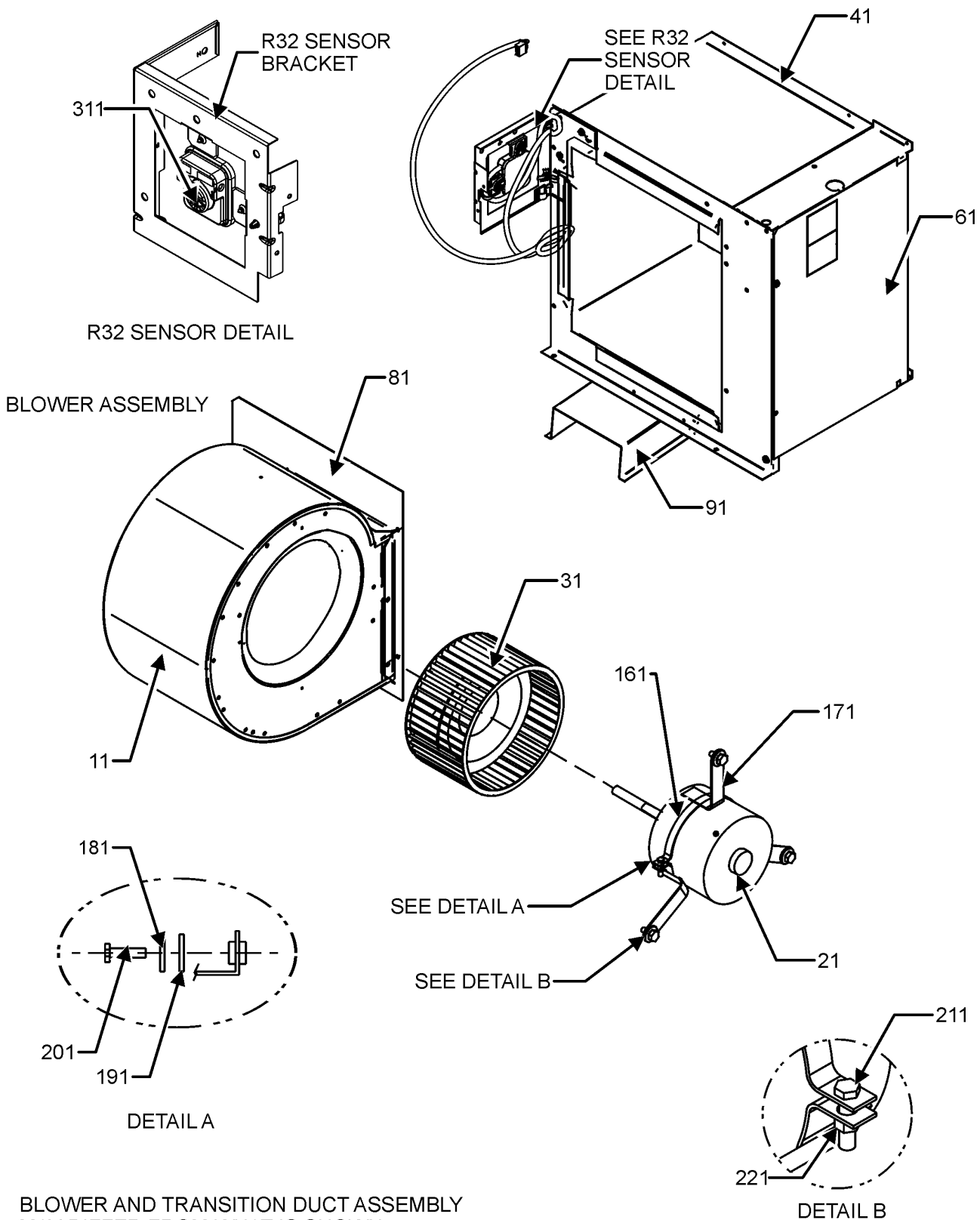
Expanded Model Nomenclature

M1 - GPHH52431AA
M2 - GPHH53031AA
M3 - GPHH53631AA
M4 - GPHH54231AA
M5 - GPHH54831AA
M6 - GPHH56031AA

Blower and Transition Duct Assembly

BLOWER AND TRANSITION DUCT ASSEMBLY

TRANSITION DUCT ASSEMBLY



Blower and Transition Duct Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0271G00355		BLOWER SHELL ASSY 11X8 (M6)
11	10324248		HSG WELD- 10X8 BWR (M1, M2, M3, M4, M5)
21	0131M00747M		CONTROLLERLESS MOTOR (M4, M5, M6)
21	0131M00750M		CONTROLLERLESS MOTOR (M1, M2, M3)
21	0131G00133		PROGRAMMED CONTROLLER (M2)
21	0131G00136		PROGRAMMED CONTROLLER (M4, M5)
21	0131G20019		PROGRAMMED CONTROLLER (M1)
21	0131G20020		PROGRAMMED CONTROLLER (M3)
21	0131G20021		PROGRAMMED CONTROLLER (M6)
31	B1368054		BLOWR WHEEL (11X8, CLOCKWISE) (M6)
31	B1368016		WHEEL, BLOWER, 10X8 (M1, M2, M3, M4, M5)
41	0270G00629		TRANSITION DUCT ASSY-ALL
61	0121G00934		PANEL, HK COVER
81	0121G00035P		BLOWER MOUNT 10 X 8 (M1, M2, M3, M4, M5)
81	0121G00128P		MT BLOWER (M6)
91	0121G00040P		SPRT BLO
161	0121M00038		MOTOR MOUNT BAND
171	0171M00012		MOTOR MOUNT ARM (M1, M2, M3, M4, M5)
171	B1376857		MOTOR MOUNT ARM (M6)
181	B1392820		WASHER, SPLIT LOCK 1/4 BZ (QTY 3)
191	B1392918		WASHER, FLAT 1/4 ID X 1 OD (QTY 3)
201	M0250565		TC SCREW 1.25" (QTY 3)
211	B1393323		MACHINE SCREW HWH 1/4-20 X 1-1/2 BZ
221	B1393800		LOCKNUT, NYLON, INSERT 1/4, 20
311	SER2A08012		SENSATA R32 SENSOR
NS	2964700		BLOWER CUTOFF (11X8) (M6)
NS	0121G20000		BRACKET R32 SENSOR
NS	C6121810		CUTOFF CO FUR (M1, M2, M3, M4, M5)

Expanded Model Nomenclature

M1 - GPHH52431AA
M2 - GPHH53031AA
M3 - GPHH53631AA
M4 - GPHH54231AA
M5 - GPHH54831AA
M6 - GPHH56031AA