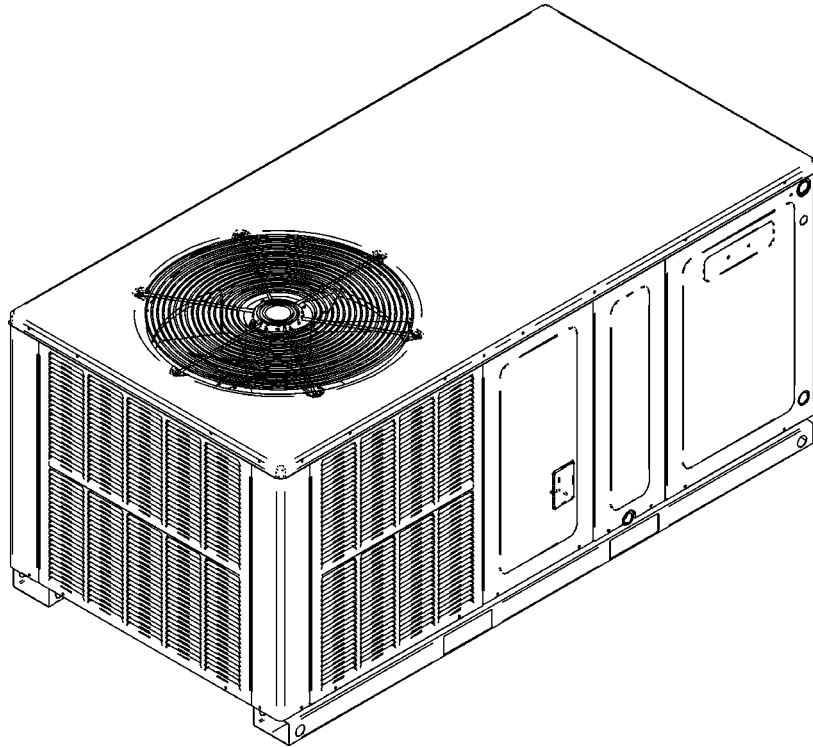


REPAIR PARTS

GPH14 H-Series Package Heat Pumps

GPH1424H41AB
GPH1424H41AC
GPH1430H41AB
GPH1430H41AC
GPH1436H41AB
GPH1436H41AC
GPH1442H41AB
GPH1442H41AC
GPH1448H41AB
GPH1448H41AC
GPH1460H41AB
GPH1460H41AC



This manual is to be used by qualified technicians only.

This manual replaces RP-631.

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Important Information

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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:
Consumer Affairs Department
Goodman Manufacturing Company, L.P.
7401 Security Way
Houston, Texas 77040
877-254-4729-Telephone
713-863-2382-Facsimile

For assistance outside the U.S.A. contact:
International Division
Goodman Manufacturing Company, L.P.
7401 Security Way
Houston, Texas 77040
713-861-2500-Telephone
713-863-2382-Facsimile

Functional Parts

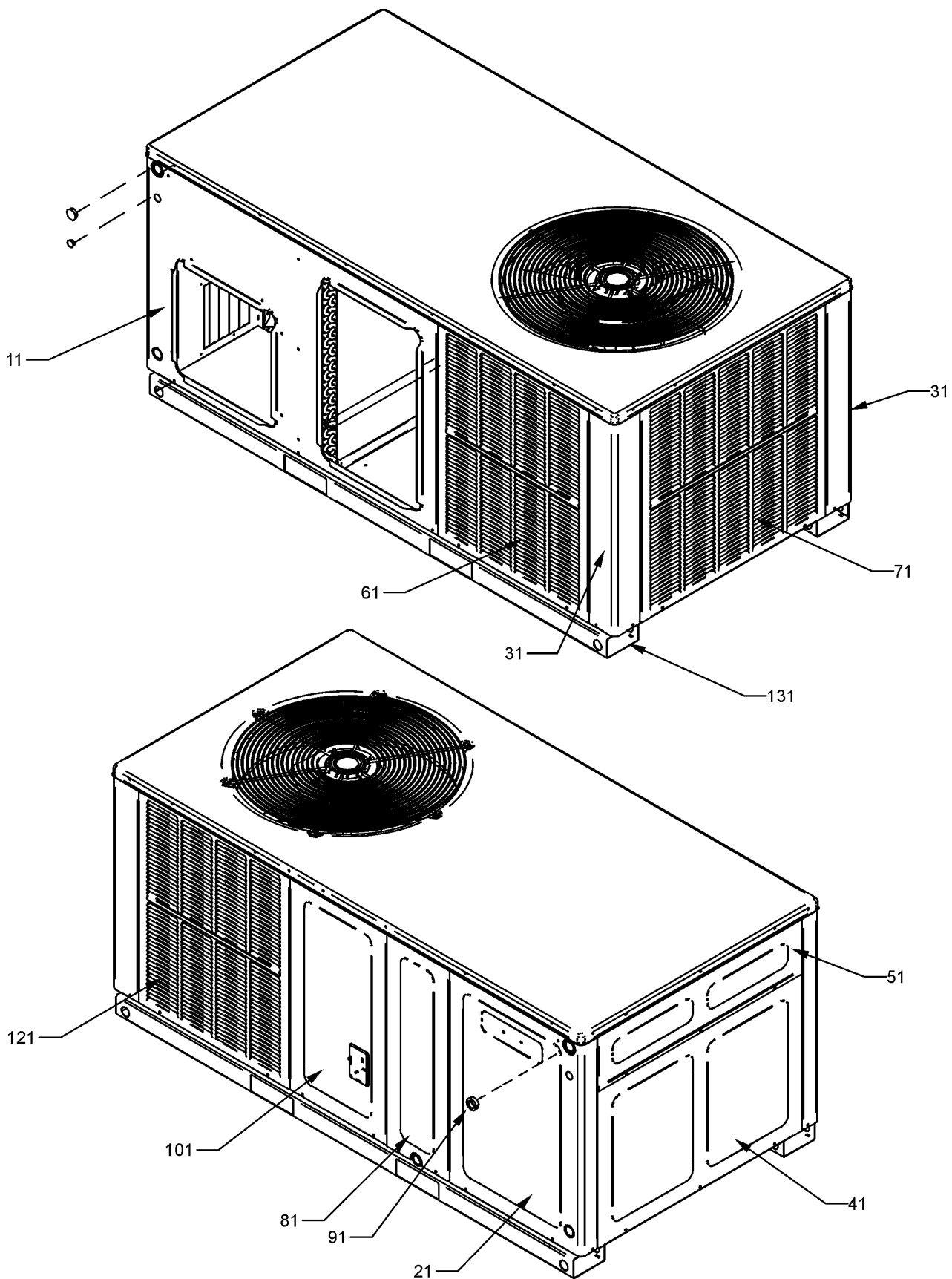
Part

No:

Description:

0131M00347	BLOWER MOTOR - 3/4 HP PROGRAMMED SELE (M9, M10)	0151M00021	REVERSING VALVE (M5, M6, M7, M8, M9, M10, M11, M12)
0131M00349	BLOWER MOTOR - 3/4 HP PROGRAMMED SELE (M11, M12)	0151M00019	REVERSING VALVE (M1, M2, M3, M4)
0131M00370	BLOWER MOTOR-1/2 HP PROGRAMMED SELEC (M3, M4)	B1141643	TRANSFORMER 208/230, 24V
0131M00369	BLOWER MOTOR-1/2 HP PROGRAMMED SELEC (M1, M2)		
0131M00371	BLOWER MOTOR-1/2 HP PROGRAMMED SELEC (M5, M6)		
0131M00372	BLOWER MOTOR-1/2 HP PROGRAMMED SELEC (M7, M8)		
B1368016	BLOWER WHEEL 10 X 8 (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10)		
B1368054	BLOWER WHEEL 11 X 8 (M11, M12)		
CAP050400440RT	CAPACITOR 5/40/440V (M1, M2, M3, M4)		
CAP050450440RT	CAPACITOR 5/45/440V (M5, M6, M7, M8, M9, M10)		
CAP050800440RT	CAPACITOR 5/80/440V (M11, M12)		
ZP21K5EPFV130	COMP,21300,208/230/60/1 (M1, M2)		
ZP34K5EPFV130	COMP,34500,208/230/60/1 (M7, M8)		
ZP25K5EPFV130	COMPRESSOR 25200, 208/230/60/1 (M3, M4)		
ZP31K5EPFV130	COMPRESSOR 31100, 208/230/60/1 (M5, M6)		
ZP39K5EPFV130	COMPRESSOR 39000, 208/230/60/1 (M9, M10)		
ZP51K5EPFV130	COMPRESSOR 51000, 208/230/60/1 (M11, M12)		
0131M00007P	COND MOTOR 1/4 HP, 1 SP, 6 PL (M7, M8, M9, M10, M11, M12)		
0131M00009P	COND MOTOR 1/6 HP, 1 SP, 8 PL (M1, M2, M3, M4)		
0131M00061	COND MOTOR, 1/4HP, 1SP, 8PL (M5, M6)		
CONT1P025024V	CONTACTOR 25 AMP, 1P, 24V (M1, M2, M3, M4, M5, M6)		
CONT2P030024V	CONTACTOR 30 AMP, 2P, 24V (M7, M8, M9, M10)		
CONT2P040024V	CONTACTOR 40 AMP, 2P, 24V (M11, M12)		
0163R00003	CRANKCASE HEATER 230V 40W (M11, M12)		
0230G00005	CRANKCASE HEATER SWITCH (M11, M12)		
0130M00099	DEFROST CONTROL (M1, M2, M3, M4, M5, M6, M9, M10)		
0130M00102	DEFROST CONTROL (M7, M8, M11, M12)		
PCBDM160	DEFROST CONTROL PCB		
0150G00005	FAN BLADE (M1, M2, M3, M4)		
0150G00001	FAN BLADE (M7, M8, M9, M10, M11, M12)		
B1086765	FAN BLADE TYPE 3 (M5, M6)		
0130M00074	HIGH PRESSURE SWITCH		
0130M00075	LOW PRESSURE SWITCH (M2, M4, M6, M8, M10, M12)		

Cabinet Assembly



Cabinet Assembly

Ref. Part			Ref. Part	
No:	No:	Description:	No:	Description:
<i>Image 1:</i>			Expanded Model Nomenclature	
11	0270G00008P	INSULATED ASSY, DUCT PANEL 27.5" (M1, M2, M3, M4)	M1 -	GPH1424H41AB
11	0270G00009P	INSULATED ASSY, DUCT PANEL 32.5" (M5, M6, M7, M8)	M2 -	GPH1424H41AC
11	0270G00010P	INSULATED ASSY, DUCT PANEL 36" (M9, M10, M11, M12)	M3 -	GPH1430H41AB
21	0270G00011P	INSULATED ASSY, CORNER PANEL 27.5" (M1, M2, M3, M4)	M4 -	GPH1430H41AC
21	0270G00012P	INSULATED ASSY, CORNER PANEL 32.5" (M5, M6, M7, M8)	M5 -	GPH1436H41AB
21	0270G00013P	INSULATED ASSY, CORNER PANEL 36" (M9, M10, M11, M12)	M6 -	GPH1436H41AC
31	0121G00047PDG	CORNER POST 27.5" (M1, M2, M3, M4)	M7 -	GPH1442H41AB
31	0121G00048PDG	CORNER POST 32.5" (M5, M6, M7, M8)	M8 -	GPH1442H41AC
31	0121G00082PDG	CORNER POST 36" (M9, M10, M11, M12)	M9 -	GPH1448H41AB
41	0270G00113	INSULATED ASSY, BLOWER DOOR 27.5" (M1, M2, M3, M4)	M10 -	GPH1448H41AC
41	0270G00114	INSULATED ASSY, BLOWER DOOR 32.5" (M5, M6, M7, M8)	M11 -	GPH1460H41AB
41	0270G00115	INSULATED ASSY, BLOWER DOOR 36" (M9, M10, M11, M12)	M12 -	GPH1460H41AC
51	0121G00276DG	EXTERNAL CONTROL BOX PANEL		
61	0121G00090PDG	PNL, 4BANK 36" LVR (M9, M10, M11, M12)		
61	0121G00069PDG	PNL, LVR, 27.5" 4BANK (M1, M2, M3, M4)		
61	0121G00070PDG	PNL, LVR, 32.5" 4BANK (M5, M6, M7, M8)		
71	0121G00073PDG	LOUVERED PANEL 5 BANK 32.5" (M5, M6, M7, M8)		
71	0121G00091PDG	LOUVERED PANEL 5 BANK 36" (M9, M10, M11, M12)		
71	0121G00072PDG	PNL, LVR, 27.5" 5BANK (M1, M2, M3, M4)		
81	0270G00017P	EVAP PANEL INSUL ASSY-27.5" (M1, M2, M3, M4)		
81	0270G00018P	EVAP PANEL INSUL ASSY-32.5" (M5, M6, M7, M8)		
81	0270G00019P	EVAP PANEL INSUL ASSY-36" (M9, M10, M11, M12)		
91	B1392011	GROMMET / HS .62 - .45		
101	0121G00087PDG	PNL, COMP 8.75"X36" (M9, M10, M11, M12)		
101	0121G00062PDG	PNL, COMP, 13.68" X 27.50" (M1, M2, M3, M4)		
101	0121G00060PDG	PNL, COMP, 8.75" X 32.50" (M5, M6, M7, M8)		
121	0121G00090PDG	PNL, 4BANK 36" LVR (M9, M10, M11, M12)		
121	0121G00069PDG	PNL, LVR, 27.5" 4BANK (M1, M2, M3, M4)		
121	0121G00070PDG	PNL, LVR, 32.5" 4BANK (M5, M6, M7, M8)		
131	0121G00044PRF	BASEPAN RAIL (QTY 2)		

Chassis Assembly

Image 1

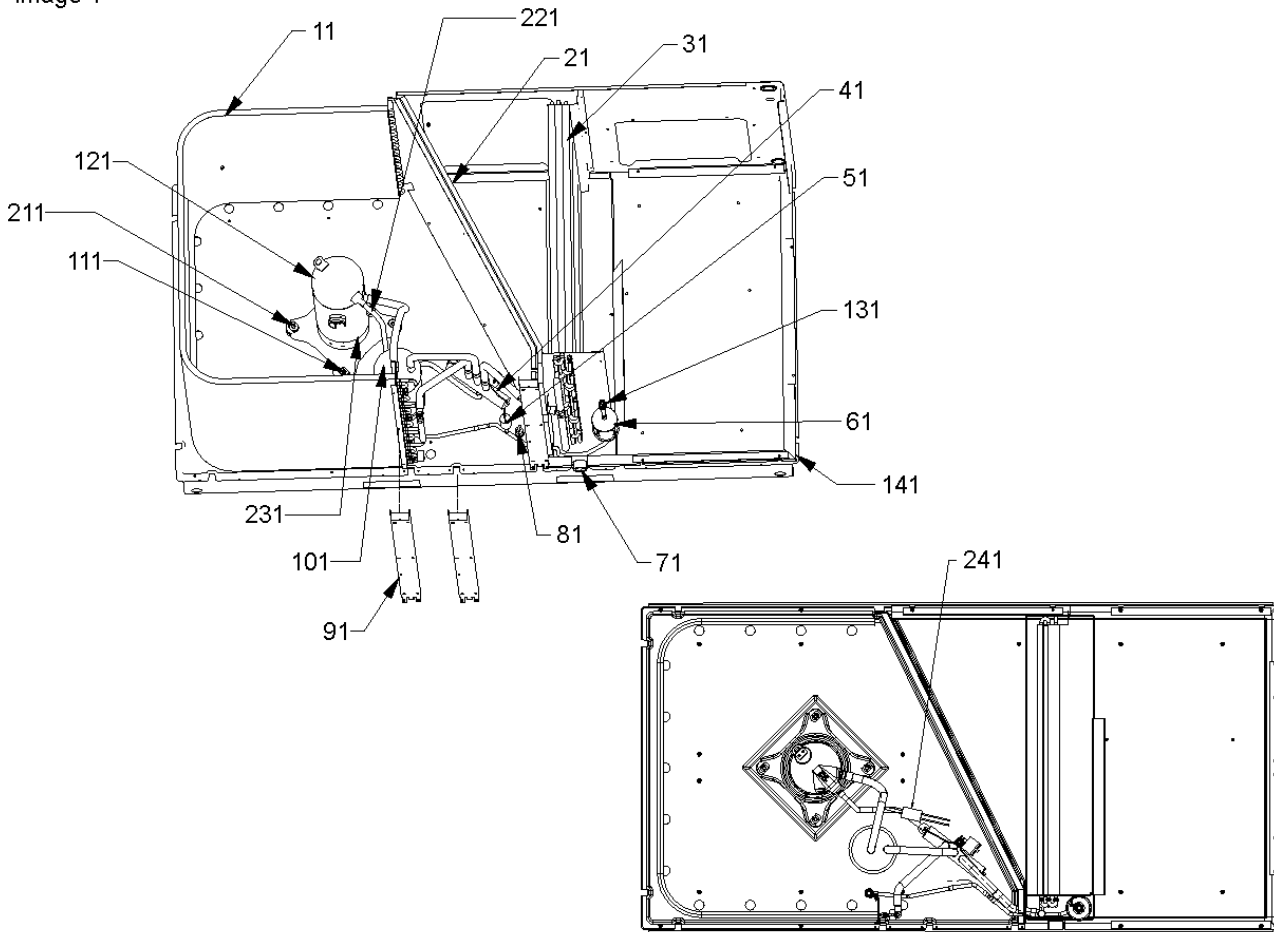


Image 2

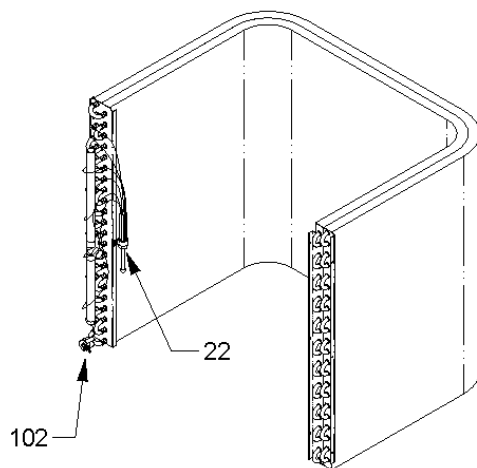
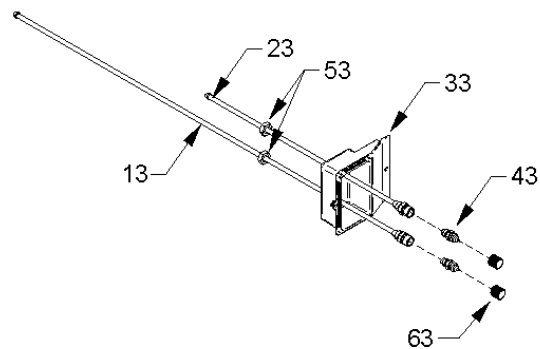


Image 3



Chassis Assembly

Ref. Part			Ref. Part		
No:	No:	Description:	No:	No:	Description:
Image 1:			Image 1:		
11	0201G00123	COND COIL TUBING ASSY (M7, M8)	221	0230G00005	CRANKCASE HEATER SWITCH (M11, M12)
11	0201G00126	COND COIL TUBING ASSY (M5, M6)	231	0163R00003	CRANKCASE HEATER 230V 40W (M11, M12)
11	0201G00131	COND COIL TUBING ASSY (M3, M4)	241	0130M00075	LOW PRESSURE SWITCH (M2, M4, M6, M8, M10, M12)
11	0201G00145	COND COIL TUBING ASSY (M9, M10)	NS	0159G00004	COMPRESSOR SCROLL HARNESS
11	0201G00156	TUBING ASSY, COND COIL (M11, M12)	NS	0121G00043P	EVAP DRIP SHIELD
11	0201G00160	TUBING ASSY, COND COIL (M1, M2)	Image 2:		
21	0270G00075	INSULATED ASSY, PARTITION PANEL 27.5" (M1, M2, M3, M4)	22	0162M00021P	FLOWRATOR .047 (M3, M4)
21	0270G00076	INSULATED ASSY, PARTITION PANEL 32.5" (M5, M6, M7, M8)	22	0162M00112	FLOWRATOR .049 [COND] (M1, M2)
21	0270G00077	INSULATED ASSY, PARTITION PANEL 36" (M9, M10, M11, M12)	22	0162M00098	FLOWRATOR .065 [COND] (M5, M6, M7, M8, M9, M10)
31	0202G00271	TUBING ASSY, EVAP COIL (M5, M6)	22	0162M00012P	FLOWRATOR .071 [COND] (M11, M12)
31	0202G00298	TUBING ASSY, EVAP COIL (M3, M4)	102	0130M00099	DEFROST CONTROL (M1, M2, M3, M4, M5, M6, M9, M10)
31	0202G00300	TUBING ASSY, EVAP COIL (M1, M2)	102	0130M00102	DEFROST CONTROL (M7, M8, M11, M12)
31	0202G00302	TUBING ASSY, EVAP COIL (M11, M12)	Image 3:		
31	0202G00305	TUBING ASSY, EVAP COIL (M9, M10)	13	0210G00031P	PROCESS TUBE ASSY-SUCTION
31	0202G00307	TUBING ASSY, EVAP COIL (M7, M8)	23	0201G00030P	PROCESS TUBING ASSY - LIQUID (M1, M3, M5, M7, M9, M11)
41	0151M00019	REVERSING VALVE (M1, M2, M3, M4)	23	0201G00389	PROCESS TUBING ASSY - LIQUID (M2, M4, M6, M8, M10, M12)
41	0151M00021	REVERSING VALVE (M5, M6, M7, M8, M9, M10, M11, M12)	33	0161G00001P	ACCESS FITTING BOX
51	0130M00074	HIGH PRESSURE SWITCH	43	B1373315	ACCESS FITTING (QTY 2)
61	20485201	BI-FLOW FILTER DRIER	53	0163G00000P	FASTEST FITTING NUT (QTY 2)
71	0270G00004P	DRAIN PAN ASSY	63	B9102097	CAP W/O-RING (QTY 2)
81	0130M00075	LOW PRESSURE SWITCH (M1, M3, M5, M7, M9, M11)	Expanded Model Nomenclature		
91	0121G00045P	POST 27.5" (M1, M2, M3, M4)	M1 - GPH1424H41AB		
91	0121G00079P	POST 32.5" (M5, M6, M7, M8)	M2 - GPH1424H41AC		
91	0121G00083P	POST 36" (M9, M10, M11, M12)	M3 - GPH1430H41AB		
101	B1226206	ACCUMULATOR (M1, M2, M3, M4)	M4 - GPH1430H41AC		
101	B1226207	ACCUMULATOR .875 (M5, M6, M7, M8, M9, M10, M11, M12)	M5 - GPH1436H41AB		
111	B1339533	COMPRESSOR GROMMET (QTY 4)	M6 - GPH1436H41AC		
121	ZP21K5EPFV130	COMP,21300,208/230/60/1 (M1, M2)	M7 - GPH1442H41AB		
121	ZP34K5EPFV130	COMP,34500,208/230/60/1 (M7, M8)	M8 - GPH1442H41AC		
121	ZP25K5EPFV130	COMPRESSOR 25200, 208/230/60/1 (M3, M4)	M9 - GPH1448H41AB		
121	ZP31K5EPFV130	COMPRESSOR 31100, 208/230/60/1 (M5, M6)	M10 - GPH1448H41A		
121	ZP39K5EPFV130	COMPRESSOR 39000, 208/230/60/1 (M9, M10)	M11 - GPH1460H41A		
121	ZP51K5EPFV130	COMPRESSOR 51000, 208/230/60/1 (M11, M12)	M12 - GPH1460H41A		
131	0162M00111	FLOWRATOR .057 [EVAP] (M1, M2)			
131	0162M00018P	FLOWRATOR .065 (M3, M4)			
131	0162M00053	FLOWRATOR .068 (M5, M6)			
131	0162M00109	FLOWRATOR .072 [EVAP] (M7, M8)			
131	0162M00019P	FLOWRATOR .076 [EVAP] (M9, M10)			
131	0162M00093	FLOWRATOR .088 [EVAP] (M11, M12)			
141	0273G00001P	INSULATED ASSY, BASEPAN			
211	M0221641	TF SHOULDER SCREW (QTY 4)			

Top Panel and Control Box Assembly

Image 1

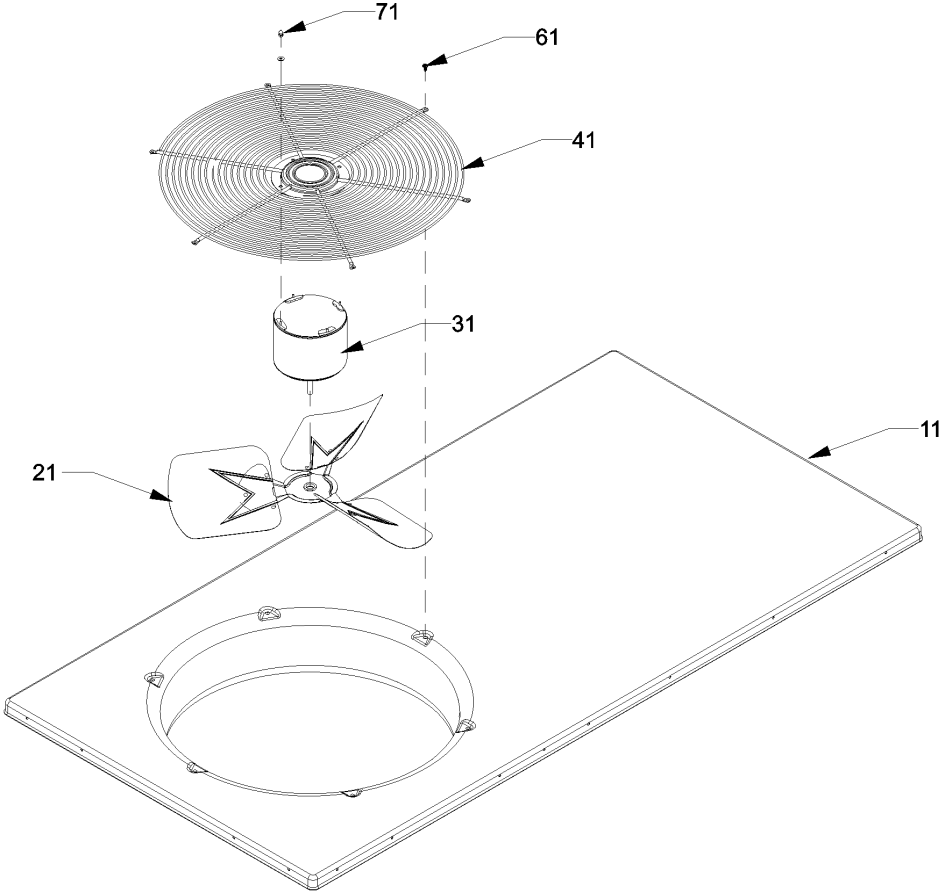
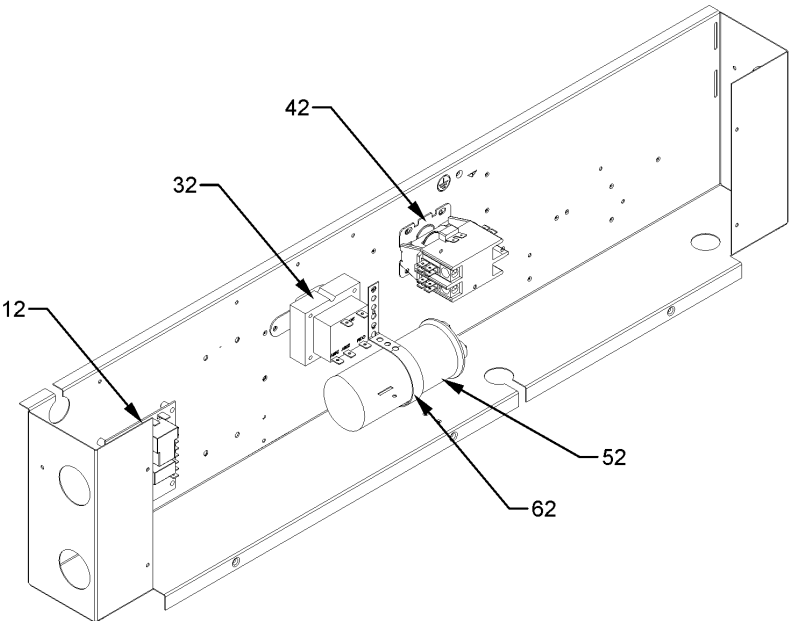


Image 2



Top Panel and Control Box Assembly

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

11	0274G00037	INSULATED ASSY, TOP PANEL
21	0150G00001	FAN BLADE (M7, M8, M9, M10, M11, M12)
21	0150G00005	FAN BLADE (M1, M2, M3, M4)
21	B1086765	FAN BLADE TYPE 3 (M5, M6)
31	0131M00007P	COND MOTOR 1/4 HP, 1 SP, 6 PL (M7, M8, M9, M10, M11, M12)
31	0131M00009P	COND MOTOR 1/6 HP, 1 SP, 8 PL (M1, M2, M3, M4)
31	0131M00061	COND MOTOR, 1/4HP, 1SP, 8PL (M5, M6)
41	0152G00002	FAN GRILLE
61	M0221817	SMALL SCREW (QTY 6)
71	0163M00006P	ACORN NUT 5/16 HEX BLACK (QTY 4)
NS	17788000083F	PVC CONDUIT 8.25"

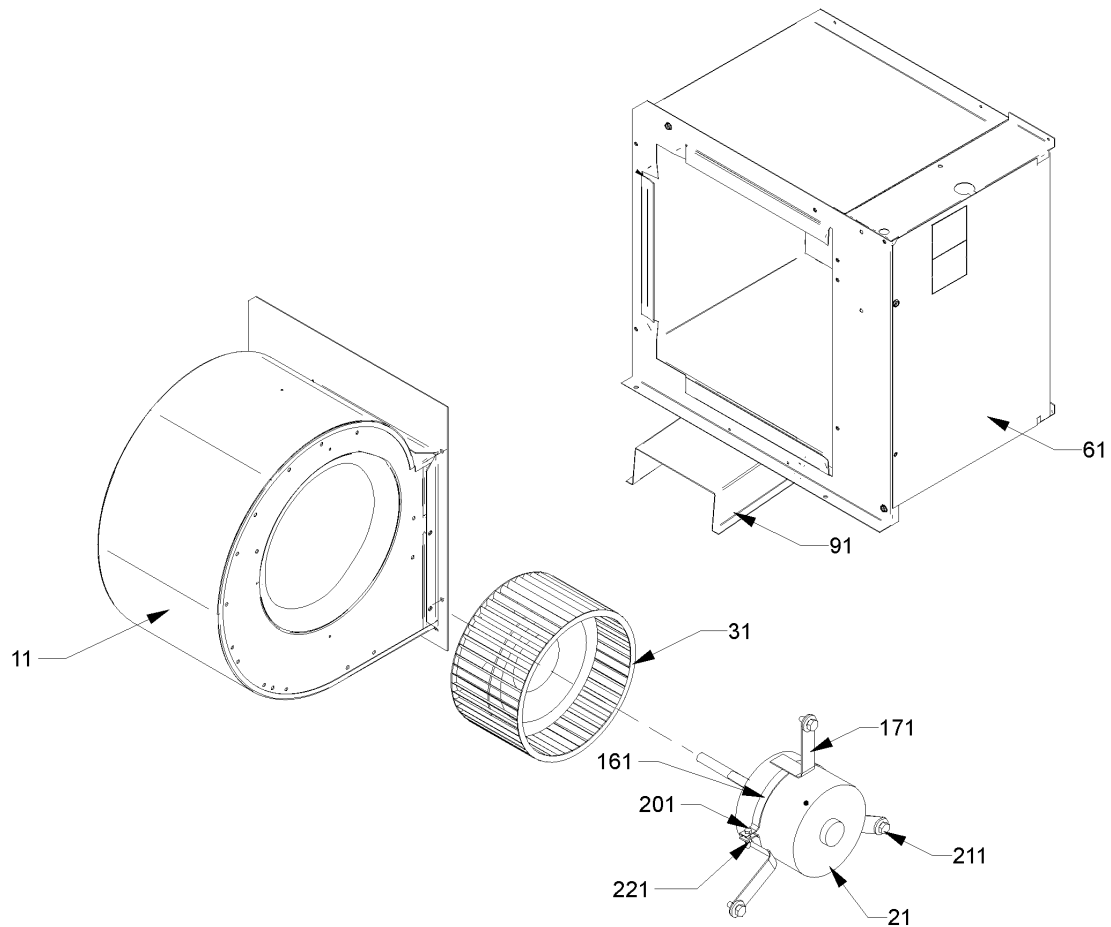
Image 2:

12	PCBDM160	DEFROST CONTROL PCB
32	B1141643	TRANSFORMER 208/230, 24V
42	CONT1P025024V	CONTACTOR 25 AMP, 1P, 24V (M1, M2, M3, M4, M5, M6)
42	CONT2P030024V	CONTACTOR 30 AMP, 2P, 24V (M7, M8, M9, M10)
42	CONT2P040024V	CONTACTOR 40 AMP, 2P, 24V (M11, M12)
52	CAP050400440RT	CAPACITOR 5/40/440V (M1, M2, M3, M4)
52	CAP050450440RT	CAPACITOR 5/45/440V (M5, M6, M7, M8, M9, M10)
52	CAP050800440RT	CAPACITOR 5/80/440V (M11, M12)
62	20520901	CAPACITOR STRAP
NS	0259G00003	WIRE HARNESS, ELECTRIC HEAT

Expanded Model Nomenclature

M1 - GPH1424H41AE
M2 - GPH1424H41AC
M3 - GPH1430H41AE
M4 - GPH1430H41AC
M5 - GPH1436H41AE
M6 - GPH1436H41AC
M7 - GPH1442H41AE
M8 - GPH1442H41AC
M9 - GPH1448H41AE
M10 - GPH1448H41AC
M11 - GPH1460H41AE
M12 - GPH1460H41AC

Blower Assembly



Blower Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 1:</i>			
11 10324248	BLOWER HOUSING 10 X 8 (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10)		
11 0271G00017	BLOWER HOUSING 11 X 8 (M11, M12)		
21 0131M00347	BLOWER MOTOR - 3/4 HP PROGRAMMED SELE (M9, M10)		
21 0131M00349	BLOWER MOTOR - 3/4 HP PROGRAMMED SELE (M11, M12)		
21 0131M00369	BLOWER MOTOR-1/2 HP PROGRAMMED SELEC (M1, M2)		
21 0131M00370	BLOWER MOTOR-1/2 HP PROGRAMMED SELEC (M3, M4)		
21 0131M00371	BLOWER MOTOR-1/2 HP PROGRAMMED SELEC (M5, M6)		
21 0131M00372	BLOWER MOTOR-1/2 HP PROGRAMMED SELEC (M7, M8)		
31 B1368016	BLOWER WHEEL 10 X 8 (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10)		
31 B1368054	BLOWER WHEEL 11 X 8 (M11, M12)		
61 0121G00039P	HEATER KIT COVER		
91 0121G00040P	BLOWER SUPPORT		
161 0121M00038	MOTOR MOUNT BAND		
171 B1376853	MOTOR MOUNT ARM (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10)		
171 B1376857	MOTOR MOUNT ARM (M11, M12)		
201 B1393323	MACHINE SCREW HWH 1/4-20 X 1-1/2 BZ		
211 M0250565	TC SCREW 1.25" (QTY 3)		
221 B1393800	LOCKNUT, NYLON, INSERT 1/4, 20		
NS C6121810	BLOWER CUT-OFF (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10)		
NS 2964700	BLOWER CUT-OFF 11 X 8 (M11, M12)		

Expanded Model Nomenclature

M1 - GPH1424H41AE
M2 - GPH1424H41AC
M3 - GPH1430H41AE
M4 - GPH1430H41AC
M5 - GPH1436H41AE
M6 - GPH1436H41AC
M7 - GPH1442H41AE
M8 - GPH1442H41AC
M9 - GPH1448H41AE
M10 - GPH1448H41A
M11 - GPH1460H41A
M12 - GPH1460H41A