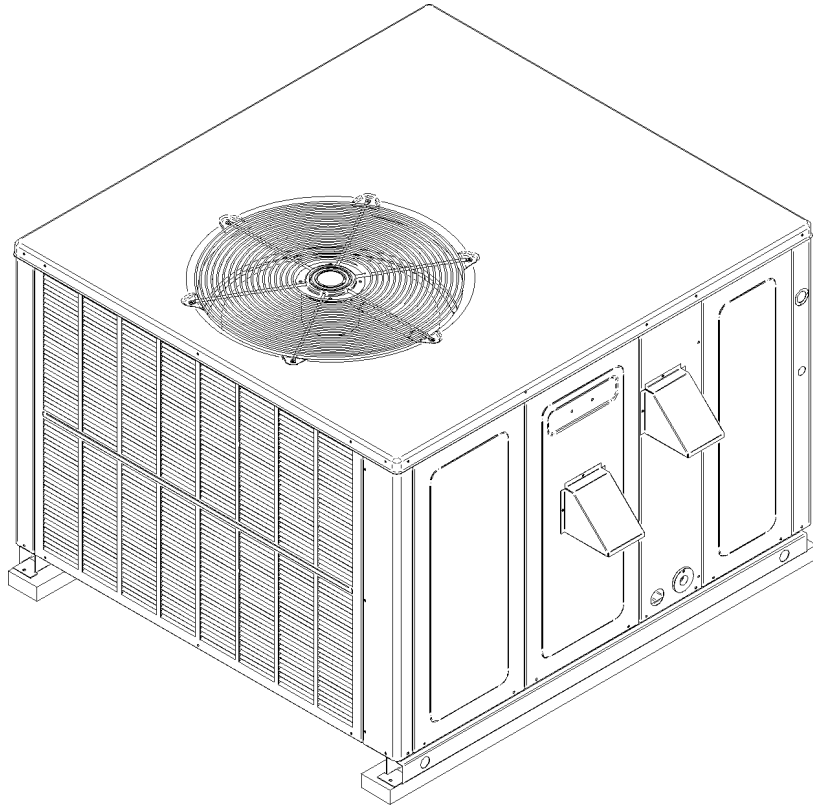


REPAIR PARTS

14 SEER DUEL FUEL PACKAGE MODELS

APD1424070M41AA
APD1430090M41AA
APD1436090M41AA
APD1442115M41AA
APD1448115M41AA
GPD1424070M41AA
GPD1430090M41AA
GPD1436090M41AA
GPD1442115M41AA
GPD1448115M41AA



This manual is to be used by qualified technicians only.

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Important Information

Index

Functional Parts List	3
Illustration and Parts	4 - 15

Views shown are for parts illustrations only, not servicing procedures.

This system uses R410A refrigerant. If sealed system work is required, use approved equipment and follow service procedures. Refer to Service Manual or Installation Instructions for service 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:

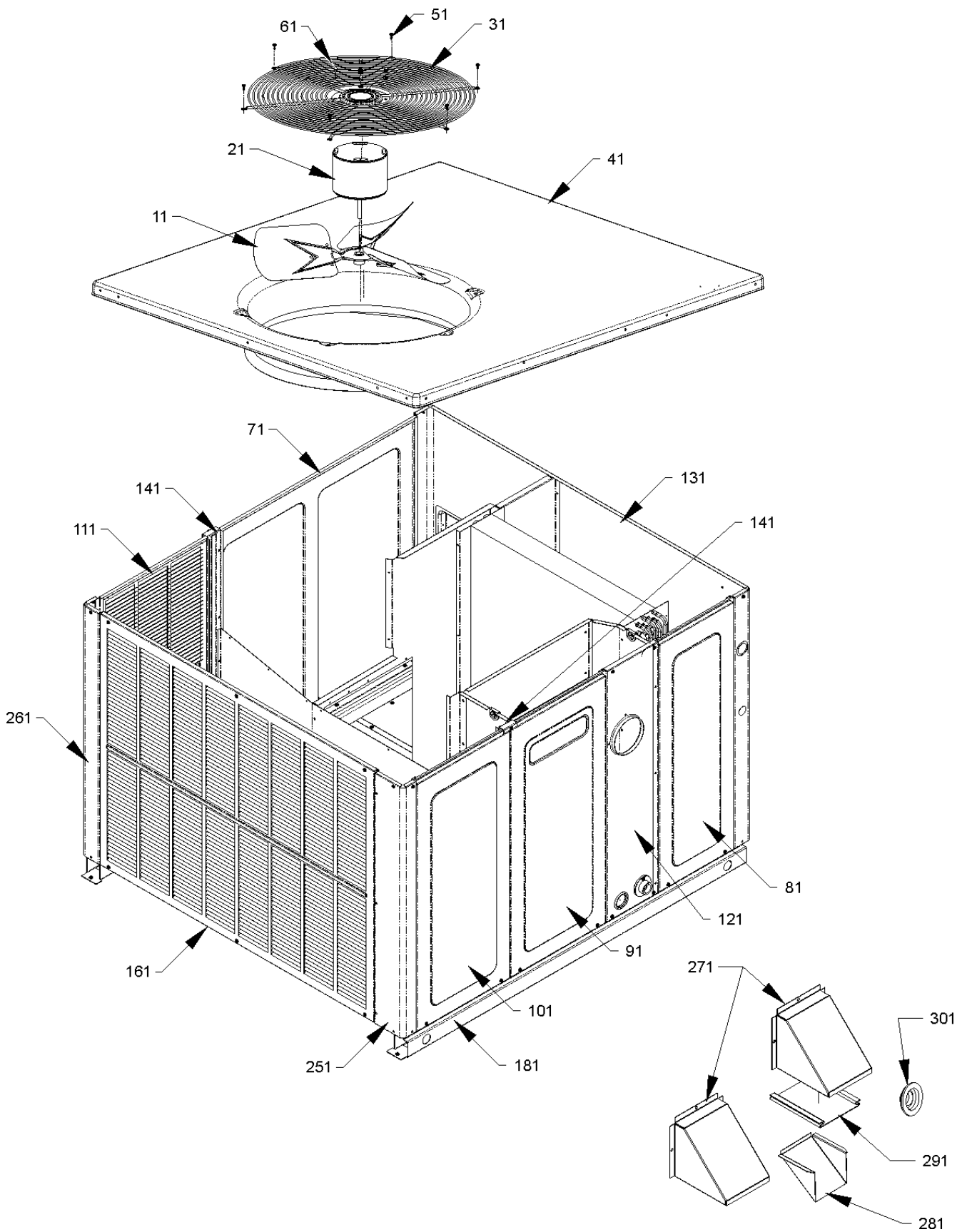
0130M00025S	24V RELAY	B10259253	AMANA LABEL (M1, M2, M3, M4, M5)
20269903	AUXILIARY LIMIT, AUTO RESET	B10259251	GOODMAN LABEL (M6, M7, M8, M9, M10)
CAP050400440RTS	CAPACITOR 5/40/440V (M1, M2, M6, M7)	Expanded Model Nomenclature	
CAP050450440RTS	CAPACITOR 5/45/440V (M3, M4, M5, M8, M9, M10)	M1 - APD1424070M41AA M2 - APD1430090M41AA M3 - APD1436090M41AA M4 - APD1442115M41AA M5 - APD1448115M41AA M6 - GPD1424070M41AA M7 - GPD1430090M41AA M8 - GPD1436090M41AA M9 - GPD1442115M41AA M10 - GPD1448115M41AA	
ZP21K5EPFV830	COMP,21300,208/230/60/1 (M1, M6)		
ZP26K3EPFV930	COMPRESSOR 25200, 208/230/60/1 (M2, M7)		
ZP31K5EPFV830	COMPRESSOR 31100, 208/230/60/1 (M3, M8)		
ZP34K5EPFV830	COMPRESSOR 34500, 208/230/60/1 (M4, M9)		
ZP39K5EPFV830	COMPRESSOR 39000, 208/230/60/1 (M5, M10)		
0131M00007PS	COND MOTOR 1/4 HP, 1 SP, 6 PL (M4, M5, M9, M10)		
0131M00009PS	COND MOTOR 1/6 HP, 1 SP, 8 PL (M1, M6)		
CONT2P025024VS	CONTACTOR 25 AMP, 2P, 24V (M1, M2, M3, M6, M7, M8)		
CONT2P030024VS	CONTACTOR 30 AMP, 2P, 24V (M4, M5, M9, M10)		
0130R00045	CRANKCASE HEATER SWITCH (M4, M9)		
0230G00005	CRANKCASE HEATER SWITCH (M4, M9)		
PCBDM133	DEFROST CONTROL BOARD		
0130M00057	DEFROST THERMOSTAT (M1, M2, M3, M6, M7, M8)		
0130M00009P	DEFROST THERMOSTAT OPEN 60°, CLOSE 34° (M4, M5, M9, M10)		
0130F00010	FLAME SENSOR		
0151F00000P	GAS VALVE - WHITE-RODGERS 2-STAGE		
0163R00003	HEATER, CRANKCASE 230V 40W (M4, M9)		
0130M00074	HIGH PRESSURE SWITCH		
0131G00001S	ID BLOWER		
20261709S	IGNITOR		
10728344	LIMIT SWITCH (M4, M5, M9, M10)		
10728343	LIMIT SWITCH (M1, M2, M3, M6, M7, M8)		
0130M00075	LOW PRESSURE SWITCH		
10123529	MANUAL RESET LIMIT		
0131M00290	MOTOR- 1/2 HP PROGRAMMED SELEC (M3, M8)		
0131M00061S	MOTOR, 1/4HP, 1SP, 8PL (M2, M3, M7, M8)		
0131M00292	MOTOR-1/2 HP PROGRAMMED SELE (M2, M7)		
0131M00288	MOTOR-3/4 HP PROGRAMMED SELE (M5, M10)		
PCBAG127	PCB, IGNITION, DSI, 2 STG		
11112501S	PRESSURE SWITCH		
B1141643	TRANSFORMER 208/230, 24V		

SPECIAL PARTS

RP-658

www.goodmanmfg.com www.amana-hac.com

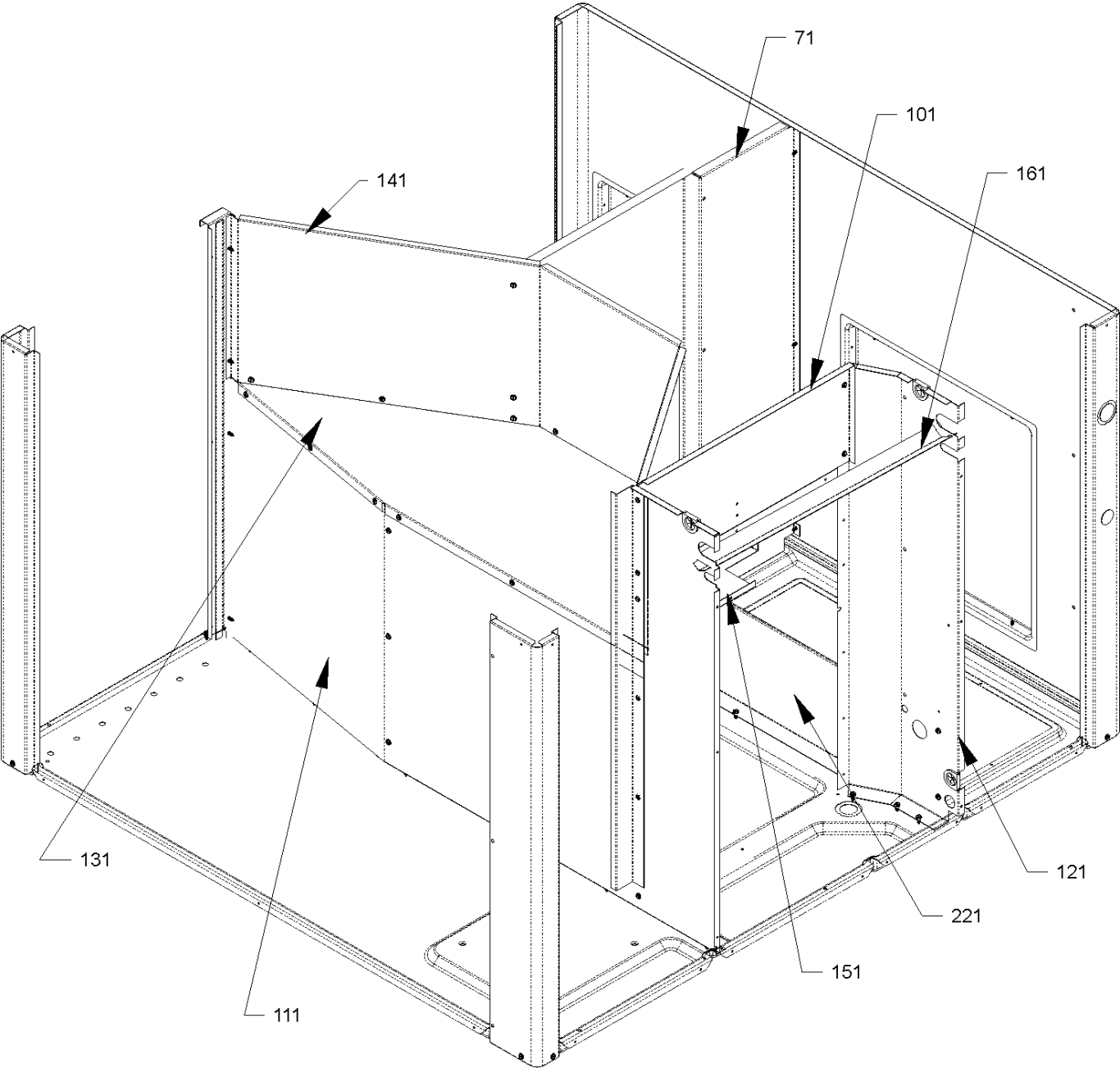
Top Panel/Fan/Cabinet



Top Panel/Fan/Cabinet

Ref. Part			Ref. Part		
No:	No:	Description:	No:	No:	Description:
Image 1:			Image 1:		
1	0290G00290	BASE PAN RAIL (QTY 2)	271	0121G00323	FLUE HOOD (QTY 2)
11	0150G00003S	BLADE, FAN 26 SWEPT WING (M4, M5, M9, M10)	281	0121G00190S	FLUE HOOD-LOWER
11	0150G00002S	FAN BLADE SWEPT-WING (M2, M3, M7, M8)	291	20472601	FLUE HOOD SCREEN
11	B1086773	FAN BLADE, 22" DIA. (M1, M6)	301	B1910012	GAS LINE GROMMET
21	0131M00007PS	COND MOTOR 1/4 HP, 1 SP, 6 PL (M4, M5, M9, M10)	NS	B1373315	ACCESS FITTING (QTY 2)
21	0131M00009PS	COND MOTOR 1/6 HP, 1 SP, 8 PL (M1, M6)	NS	B10259253	AMANA LABEL (M1, M2, M3, M4, M5)
21	0131M00061S	MOTOR, 1/4HP, 1SP, 8PL (M2, M3, M7, M8)	NS	B9102097	CAP W/O-RING (QTY 2)
31	0152G00002S	FAN GRILLE	NS	0270G00131	FLUE HOOD ASSY
51	B1393564	SCREW,HWH,6X3/4,AB,BZ,SLOT (QTY 4)	NS	B10259251	GOODMAN LABEL (M6, M7, M8, M9, M10)
51	M0221817	SMALL SCREW (M4, M5, M9, M10)	NS	1778800083F	PVC CONDUIT 8.25"
61	0163M00006P	ACORN NUT 5/16 HEX BLACK (QTY 4)	NS	0163M00005P	WASHER, BLACK (.50 OD .218ID) (QTY 4)
71	20464807PDGS	EVAP/CONTROL DOOR 40" (M4, M5, M9, M10)	NS	0259G00106	WIRE HARNESS, FAN MOTOR (M1, M4, M5, M6, M9, M10)
81	20464802PDGS	DOOR-EVAP/CONTROL 32 W/PAINT (M1, M2, M3, M6, M7, M8)	NS	0259G00107	WIRE HARNESS, FAN MOTOR (M2, M3, M7, M8)
81	0260G00025PS	INSULATED ASSY, BLOWER PANEL 32.5" (M1, M2, M3, M6, M7, M8)	Expanded Model Nomenclature M1 - APD1424070M41AA M2 - APD1430090M41AA M3 - APD1436090M41AA M4 - APD1442115M41AA M5 - APD1448115M41AA M6 - GPD1424070M41AA M7 - GPD1430090M41AA M8 - GPD1436090M41AA M9 - GPD1442115M41AA M10 - GPD1448115M41AA		
81	0260G00026PS	INSULATED ASSY, BLOWER PANEL 40" (M4, M5, M9, M10)			
91	0121G00179DGS	HEAT EXCHANGER DOOR 32" (M1, M2, M3, M6, M7, M8)			
91	0121G00181DGS	HEAT EXCHANGER DOOR 40" (M4, M5, M9, M10)			
101	20464804PDGS	DOOR-COMPRESSOR 32 W/PAINT (M1, M2, M3, M6, M7, M8)			
101	20464809PDGS	DOOR-COMPRESSOR 40 W/PAINT (M4, M5, M9, M10)			
111	20467701PDGS	LOUVERED PANEL, COND SIDE 32" (M6, M7, M8)			
111	20467701PLG	LOUVERED PANEL, COND SIDE 32" (M1, M2, M3)			
111	20467702PDGS	LOUVERED PANEL, COND SIDE 40" (M4, M5, M9, M10)			
111	20466001PDGS	TOP PANEL			
121	20466101PDGS	UTILITY PANEL 32" (M1, M2, M3, M6, M7, M8)			
121	20466102PDGS	UTILITY PANEL 40" (M4, M5, M9, M10)			
131	0121G00442DG	PNL, DUCT, GAS 32.5" (M1, M2, M3, M6, M7, M8)			
131	0121G00443DG	PNL, DUCT, GAS 40" (M4, M5, M9, M10)			
141	0121G00208	SUPPORT POST 32" (M1, M2, M3, M6, M7, M8)			
141	0121G00209	SUPPORT POST 40" (M4, M5, M9, M10)			
161	20464401PDGS	LOUVERED PANEL, COND SIDE 32" (M6, M7, M8)			
161	20464401PLGS	LOUVERED PANEL, COND SIDE 32" (M1, M2, M3)			
161	20464402PDGS	LOUVERED PANEL, COND SIDE 40" (M9, M10)			
161	20464402PLG	LOUVERED PANEL, COND SIDE 40" (M4, M5)			
161	20467702PLGS	PANEL - COND SIDE 40 W/PAINT (M4, M5)			
251	20464201PDGS	CORNER POST-COMP END 32" (M1, M2, M3, M6, M7, M8)			
251	20464202PDGS	CORNER POST-COMP END 40" (M4, M5, M9, M10)			
261	20464301PDGS	CORNER POST-HAIRPIN END 32" (M1, M2, M3, M6, M7, M8)			
261	20464302PDGS	CORNER POST-HAIRPIN END 40" (M4, M5, M9, M10)			

Partition Panels



Partition Panels

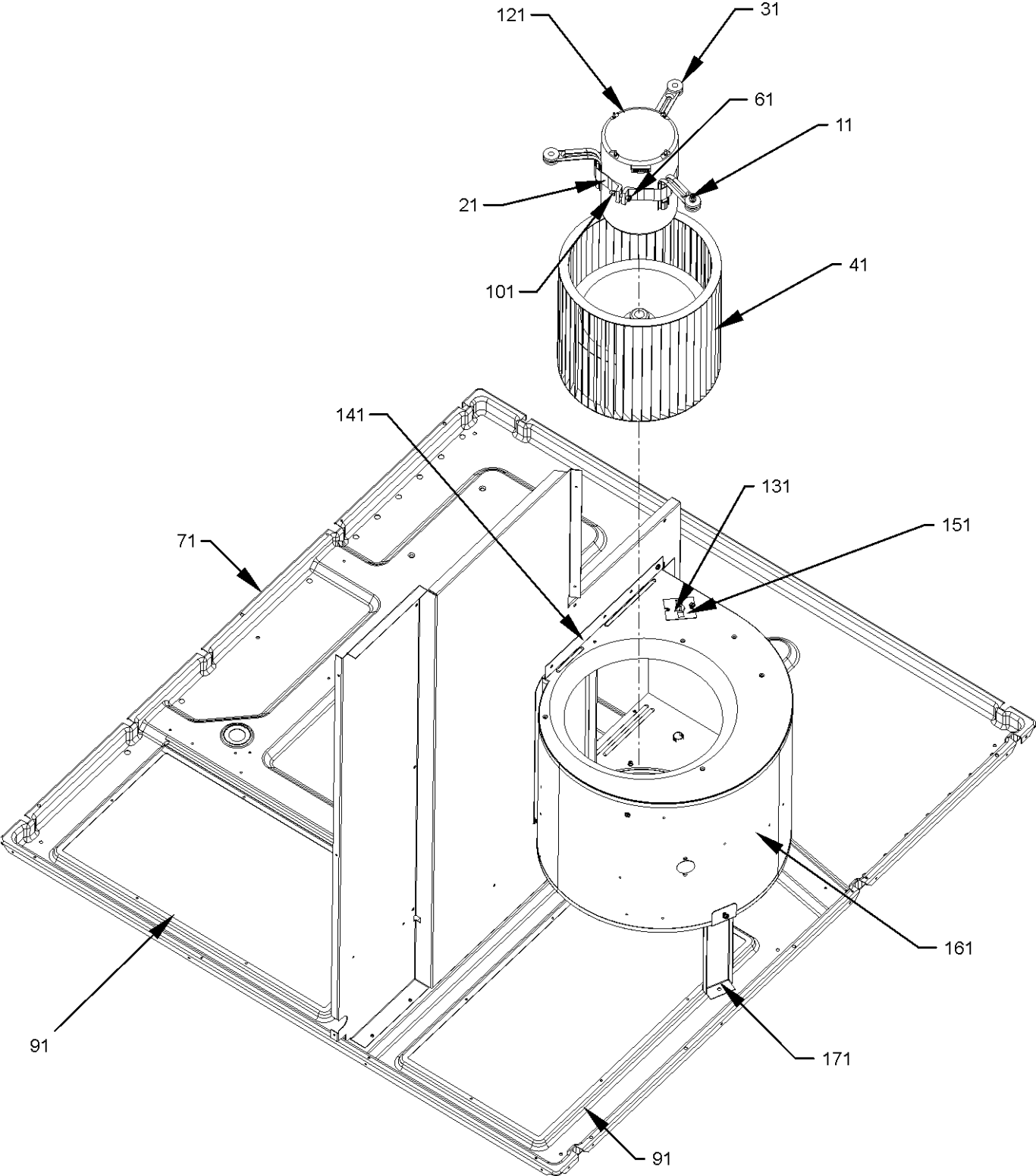
Ref. Part			Ref. Part		
No:	No:	Description:	No:	No:	Description:
Image 1:					
71	20465305	BLOWER DIVIDER (M1, M6)			
71	20465304	BLOWER DIVIDER 32" 10 X 9 (M2, M3, M7, M8)			
71	0121G00177	BLOWER DIVIDER 38" (M4, M5, M9, M10)			
101	20465201	FILLER PANEL, HEAT EXCHANGER 32" (M1, M2, M3, M6, M7, M8)			
121	20465501	EVAP/HEAT EXCHANGER DIVIDER 32" (M1, M2, M3, M6, M7, M8)			
121	20465502	EVAP/HEAT EXCHANGER DIVIDER 38" (M4, M5, M9, M10)			
131	20465701	FAN PARTITION SHELF			
141	20465801	FAN SURROUND 32" (M1, M2, M3, M6, M7, M8)			
161	20496801	DRAIN CHANNEL, SUCTION TUBE			

Expanded Model Nomenclature

M1 - APD1424070M41AA
M2 - APD1430090M41AA
M3 - APD1436090M41AA
M4 - APD1442115M41AA
M5 - APD1448115M41AA
M6 - GPD1424070M41AA
M7 - GPD1430090M41AA
M8 - GPD1436090M41AA
M9 - GPD1442115M41AA
M10 - GPD1448115M41AA

Effective July 2008 (serial codes 0807), single phase units will no longer be factory shipped with horizontal duct covers. For downshot applications, contact your local Goodman distributor.

Basepan/Blower Assembly



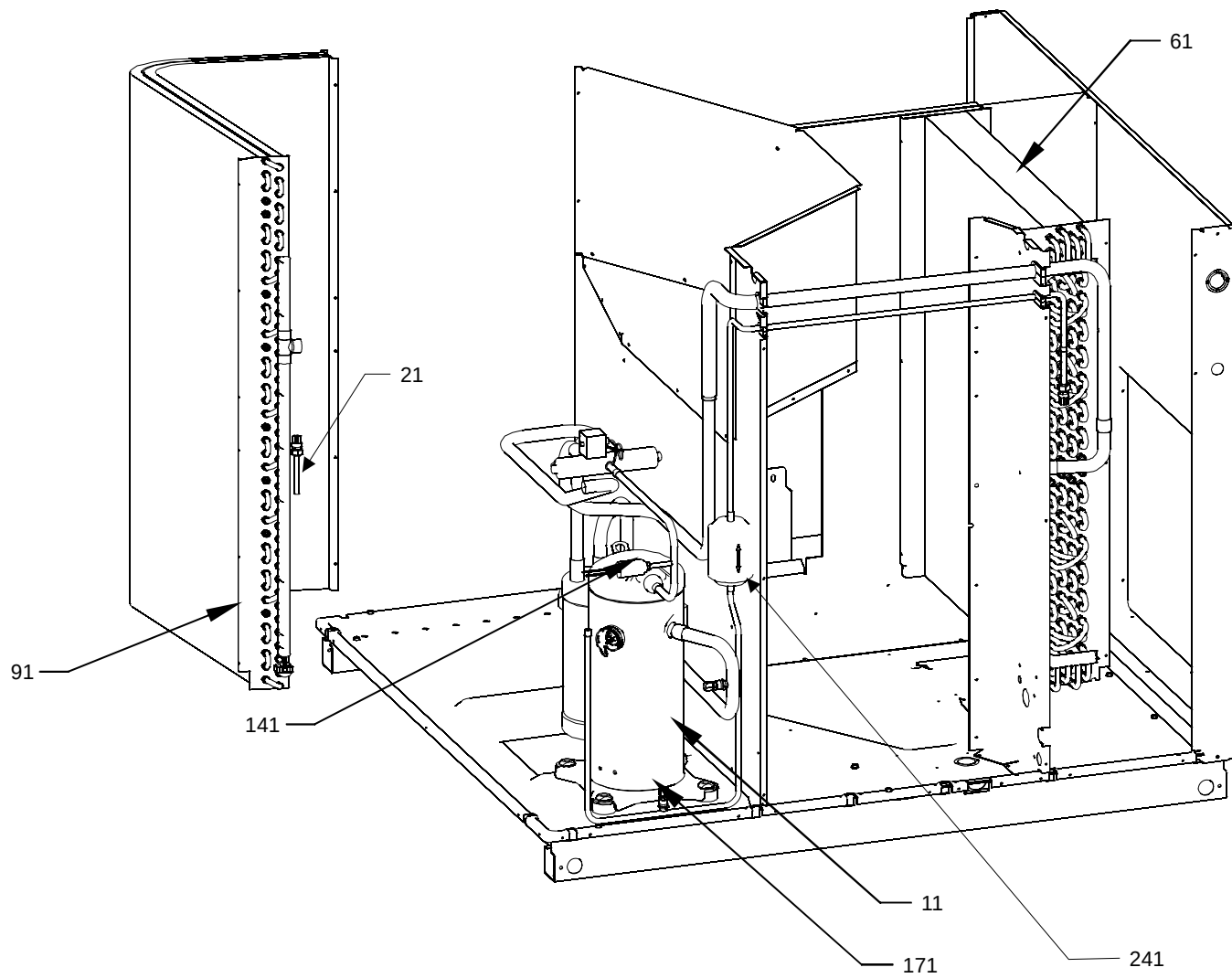
Basepan/Blower Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 1:</i>			
21	0131M00290		MOTOR- 1/2 HP PROGRAMMED SELEC (M3, M8)
21	0121M00038		MOTOR MOUNT BAND
21	0131M00292		MOTOR-1/2 HP PROGRAMMED SELE (M2, M7)
31	B1376857		MOTOR MOUNT ARM (QTY 3)
41	D6723303S		BLOWER WHEEL (M2, M3, M7, M8)
41	D6723311S		BLOWER WHEEL (M4, M5, M9, M10)
41	B1368058S		BLOWER WHEEL 10 X 8 (M1, M6)
51	1864703F		BLOWER CUT-OFF (M4, M5, M9, M10)
91	0121G00148		SINGLE COVER, DOWN DISCHARGE (QTY 2)
101	M0250565		TC SCREW 1.25" (QTY 3)
121	0131M00288		MOTOR-3/4 HP PROGRAMMED SELE (M5, M10)
131	20269903		AUXILIARY LIMIT, AUTO RESET
151	2509503F		AUXILIARY LIMIT BRACKET
161	0271F00001PS		BLOWER HOUSING ASSY 10 X 8 (M1, M6)
161	0271G00024S		BLOWER HOUSING ASSY 10 X 9 (M2, M3, M7, M8)
161	2539309S		BLOWER HOUSING ASSY 11 X 10 (M4, M5, M9, M10)
171	20463701		11 X 10 BLOWER MOUNTING (M4, M5, M9, M10)
171	4322801		11 X 10 BLOWER SUPPORT LRG (M4, M5, M9, M10)
301	B1393323		MACHINE SCREW HWH 1/4-20 X 1-1/2 BZ
311	B1393800		LOCKNUT, NYLON, INSERT 1/4, 20
NS	764742		BLOWER BLOCK-OFF (M2, M3, M7, M8)
NS	764740F		BLOWER BLOCK-OFF 10 X 8 (M1, M6)

Expanded Model Nomenclature

M1 - APD1424070M41AA
M2 - APD1430090M41AA
M3 - APD1436090M41AA
M4 - APD1442115M41AA
M5 - APD1448115M41AA
M6 - GPD1424070M41AA
M7 - GPD1430090M41AA
M8 - GPD1436090M41AA
M9 - GPD1442115M41AA
M10 - GPD1448115M41AA

Compresor/Tubing Assembly



Compresor/Tubing Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

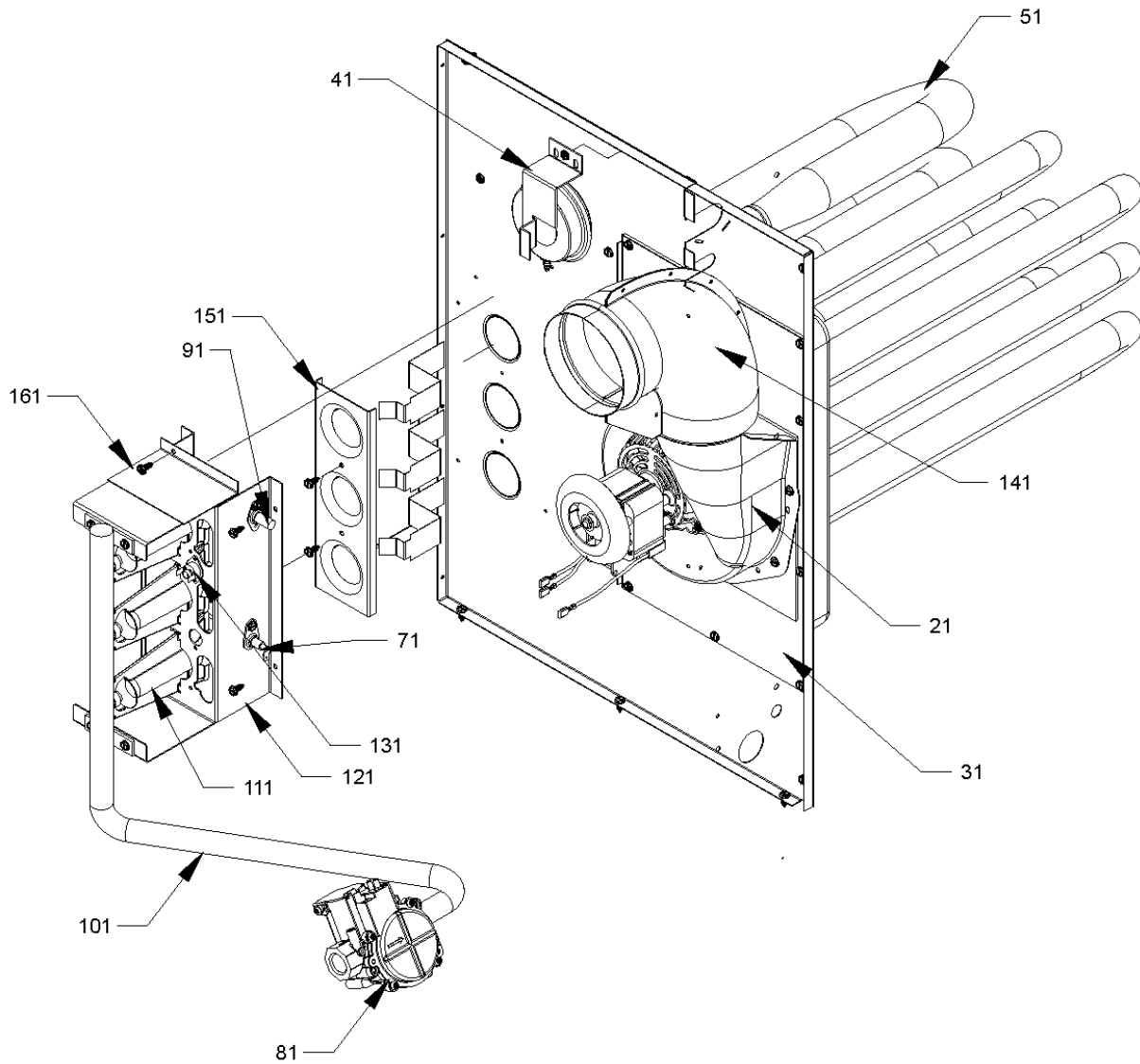
Image 1:

11	ZP21K5EPFV830	COMP,21300,208/230/60/1 (M1, M6)
11	ZP26K3EPFV930	COMPRESSOR 25200, 208/230/60/1 (M2, M7)
11	ZP31K5EPFV830	COMPRESSOR 31100, 208/230/60/1 (M3, M8)
11	ZP34K5EPFV830	COMPRESSOR 34500, 208/230/60/1 (M4, M9)
11	ZP39K5EPFV830	COMPRESSOR 39000, 208/230/60/1 (M5, M10)
21	0162M00156	FLOWRATOR, [COND] .045 (M1, M6)
21	0162M00157	FLOWRATOR, [COND] .047 (M2, M7)
21	0162M00085S	FLOWRATOR, [COND] .065 (M2, M7)
21	0162M00158	FLOWRATOR, [COND] .055 (M4, M9)
31	M0221641	TF SHOULDER SCREW (QTY 4)
41	10728343	LIMIT SWITCH (M1, M2, M3, M6, M7, M8)
61	0202G00283S	EVAP COIL TUBING ASSY (M1, M2, M6, M7)
61	0202G00291S	EVAP COIL TUBING ASSY (M4, M9)
61	0202G00292S	EVAP COIL TUBING ASSY (M5, M10)
61	1262643	TUBING ASSY, EVAP COIL (M3, M8)
91	0201G00164S	COND COIL TUBING ASSY (M1, M2, M3, M6, M7, M8)
91	0201G00260S	COND COIL TUBING ASSY (M4, M5, M9, M10)
141	0130M00074	HIGH PRESSURE SWITCH
241	20485201	BI-FLOW FILTER DRIER
NS	B1226206	ACCUMULATOR (M1, M2, M6, M7)
NS	B1226207	ACCUMULATOR .875 (M3, M4, M5, M8, M9, M10)
NS	B1339533	COMPRESSOR GROMMET (QTY 4)
NS	0159G00002	COMPRESSOR SCROLL HARNESS (M1, M2, M3, M6, M7, M8)
NS	0159G00006	COMPRESSOR SCROLL HARNESS (M4, M5, M9, M10)
NS	0130R00045	CRANKCASE HEATER SWITCH (M4, M9)
NS	0230G00005	CRANKCASE HEATER SWITCH (M4, M9)
NS	0130M00057	DEFROST THERMOSTAT (M1, M2, M3, M6, M7, M8)
NS	0130M00009P	DEFROST THERMOSTAT OPEN 60°, CLOSE 34° (M4, M5, M9, M10)
NS	20464901DF	DRAIN PAN-EVAP COIL (M1, M2, M3, M6, M7, M8)
NS	20513001	EVAP DRAIN FITTING
NS	0121G00324	EVAP DRIP SHIELD
NS	0162M00118	FLOWRATOR .072 (M4, M9)
NS	0162M00155	FLOWRATOR, [EVAP] .059 (M1, M6)
NS	0163R00003	HEATER, CRANKCASE 230V 40W (M4, M9)
NS	0130M00075	LOW PRESSURE SWITCH
NS	20464901DF	PAN-DRIP EVAP COIL (M4, M5, M9, M10)
NS	0151M00019S	REVERSING VALVE (M1, M2, M6, M7)
NS	0151M00021S	REVERSING VALVE (M3, M4, M5, M8, M9, M10)
NS	0259G00029	WIRE ASSY-9 CIRCUIT

Expanded Model Nomenclature

M1 - APD1424070M41AA
M2 - APD1430090M41AA
M3 - APD1436090M41AA
M4 - APD1442115M41AA
M5 - APD1448115M41AA
M6 - GPD1424070M41AA
M7 - GPD1430090M41AA
M8 - GPD1436090M41AA
M9 - GPD1442115M41AA
M10 - GPD1448115M41AA

Heat Exchanger/Manifold/Gas Valve



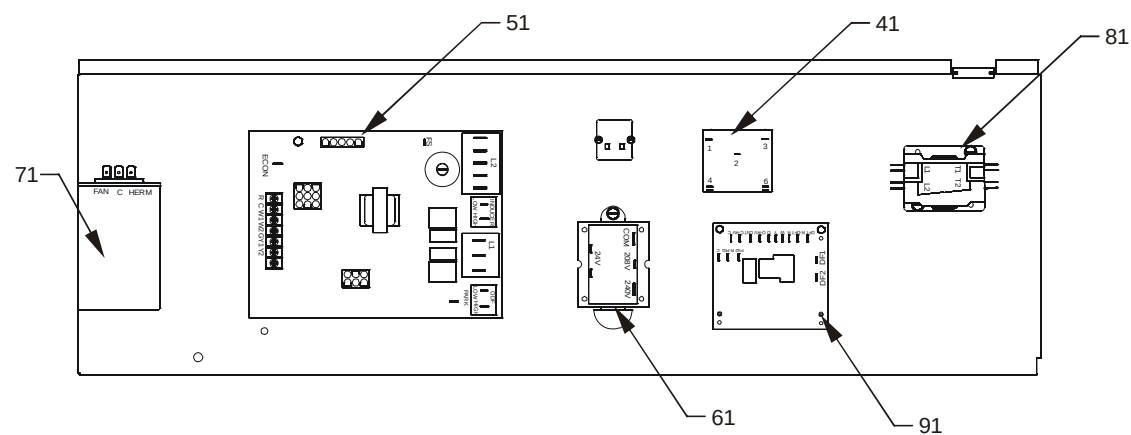
Heat Exchanger/Manifold/Gas Valve

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 1:</i>			
21	0131G00001S	ID BLOWER	
31	0121G00218	ID BLOWER PLATE LRG 5 BRNR (M4, M5, M9, M10)	
31	20463102	ID BLOWER PLATE SML 3 BRNR (M1, M6)	
31	20463103	ID BLOWER PLATE SML 4 BRNR (M2, M3, M7, M8)	
41	11112501S	PRESSURE SWITCH	
51	4305007S	HEAT EXCHANGER ASSY (M6)	
51	4305016S	HEAT EXCHANGER ASSY (M2, M3)	
51	4305018S	HEAT EXCHANGER ASSY (M4, M5)	
51	4305023S	HEAT EXCHANGER ASSY (M1)	
51	4305008S	HEAT EXCHANGER ASSY 4B (MED-12) (M7, M8)	
51	4305012S	HEAT EXCHANGER ASSY 5B (M9, M10)	
71	20261709S	IGNITOR	
81	0151F00000P	GAS VALVE - WHITE-RODGERS 2-STAGE	
91	0130F00010	FLAME SENSOR	
101	20493103	MANIFOLD - 3 BRNR (M1, M6)	
101	20493104	MANIFOLD - 4 BRNR (M2, M3, M7, M8)	
101	20493106	MANIFOLD - 5 BRNR (M4, M5, M9, M10)	
111	10735102S	BECKETT BURNER (QTY 3)	
121	20190411	BURNER BRACKET 3B (M1, M6)	
121	20190412	BURNER BRACKET 4B (M2, M3, M7, M8)	
121	20190413	BURNER BRACKET 5B (M4, M5, M9, M10)	
131	10123529	MANUAL RESET LIMIT	
141	20484401	ELBOW-FLUE LEFT	
141	20484402	ELBOW-FLUE RIGHT	
151	11072202	ORIFICE SHIELD (M1, M6)	
151	11072203	ORIFICE SHIELD (M2, M3, M7, M8)	
151	11072204	ORIFICE SHIELD (M4, M5, M9, M10)	
NS	20463001	ID BLOWER PLATE GASKET LRG (M4, M5, M9, M10)	
NS	20462801	ID BLOWER PLATE GASKET SML (M1, M2, M3, M6, M7, M8)	
NS	10716003	ORIFICE (QTY A/R)	

Expanded Model Nomenclature

M1 - APD1424070M41AA
M2 - APD1430090M41AA
M3 - APD1436090M41AA
M4 - APD1442115M41AA
M5 - APD1448115M41AA
M6 - GPD1424070M41AA
M7 - GPD1430090M41AA
M8 - GPD1436090M41AA
M9 - GPD1442115M41AA
M10 - GPD1448115M41AA

Control Panel



Control Panel

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 1:</i>			
41	10728344		LIMIT SWITCH (M4, M5, M9, M10)
51	PCBAG127		PCB, IGNITION, DSI, 2 STG
61	B1141643		TRANSFORMER 208/230, 24V
71	CAP050400440RTS		CAPACITOR 5/40/440V (M1, M2, M6, M7)
71	CAP050450440RTS		CAPACITOR 5/45/440V (M3, M4, M5, M8, M9, M10)
81	CONT2P025024VS		CONTACTOR 25 AMP, 2P, 24V (M1, M2, M3, M6, M7, M8)
81	CONT2P030024VS		CONTACTOR 30 AMP, 2P, 24V (M4, M5, M9, M10)
91	PCBDM133		DEFROST CONTROL BOARD
NS	0130M00025S		24V RELAY
NS	20520901		CAPACITOR STRAP
NS	0259G00101		WIRE HARNESS ASSY
NS	0259G00102		WIRE HARNESS ASSY
NS	0259G00103		WIRE HARNESS ASSY
NS	0259G00104		WIRE HARNESS ASSY (M1, M2, M3, M6, M7, M8)
NS	0259G00105		WIRE HARNESS ASSY (M4, M5, M9, M10)
NS	0259G00108		WIRE HARNESS ASSY (M1, M2, M3, M6, M7, M8)
NS	0259G00109		WIRE HARNESS ASSY (M4, M5, M9, M10)
NS	0259G00098		WIRE HARNESS, 6 CIRCUIT
NS	0259G00110		WIRE HARNESS, 9 CIRCUIT
NS	0259G00099		WIRE HARNESS, ECONO
NS	0259G00100		WIRE HARNESS, OUTDOOR THERMO

Expanded Model Nomenclature

M1 - APD1424070M41AA
M2 - APD1430090M41AA
M3 - APD1436090M41AA
M4 - APD1442115M41AA
M5 - APD1448115M41AA
M6 - GPD1424070M41AA
M7 - GPD1430090M41AA
M8 - GPD1436090M41AA
M9 - GPD1442115M41AA
M10 - GPD1448115M41AA