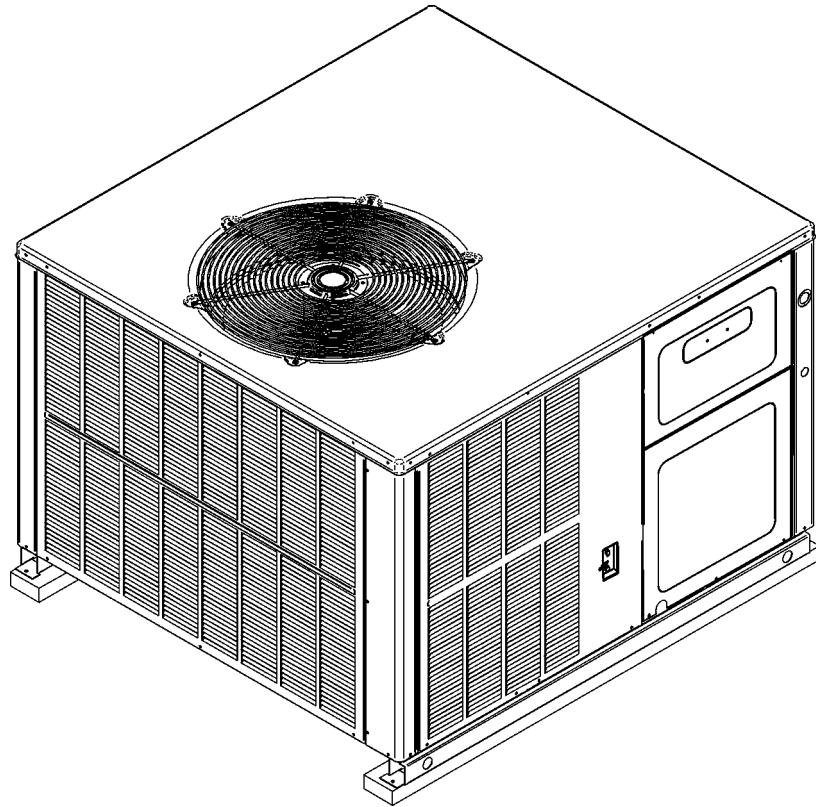


REPAIR PARTS

APH / GPH15 Package Heat Pumps

APH1524M41AC
APH1524M41AD
APH1530M41AC
APH1530M41AD
APH1536M41AC
APH1536M41AD
APH1543M41AC
APH1549M41AC
APH1549M41AD
APH1560M41AD
GPH1524M41AC
GPH1524M41AD
GPH1530M41AC
GPH1530M41AD
GPH1536M41AC
GPH1536M41AD
GPH1549M41AC
GPH1549M41AD
GPH1560M41AC
GPH1560M41AD



This manual is to be used by qualified technicians only.

This manual replaces RP-700.

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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 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:

		CONT2P040024V	CONTACTOR 40 AMP, 2P, 24V (M17, M19)
B1370751	24V RELAY (M8, M9, M10, M17, M18, M19, M20)	0163R00003	CRANK CASE HEATER, 230V 40W (M7, M8, M9, M17, M18)
0131M00337	BLOWER MOTOR - 1 HP PROGRAMMED SELEC (M19, M20)	0130L00017	CRANK CASE HEATER-70W 240V (M10, M19, M20)
0131M00350	BLOWER MOTOR - 3/4 HP PROGRAMMED SELE (M17, M18)	0130R00045	CRANKCASE HEATER SWITCH (M5, M6, M7, M8, M9, M10, M15, M16, M17, M18, M19, M20)
0231K00067	BLOWER MOTOR 1 HP PROGRAMMED ECM (M10)	0163R00002	CRANKCASE HEATER, 230V, 40W (M5, M6, M15, M16)
0231K00065	BLOWER MOTOR 1/2 HP PROGRAMMED ECM (M3, M4, M5, M6)	0121G00235	FAN BAFFLE (M17, M18, M19, M20)
0231K00070	BLOWER MOTOR 1/2 HP PROGRAMMED ECM (M1, M2)	0150M00011	FAN BLADE SWEPT-WING (M10, M19, M20)
0231K00066	BLOWER MOTOR 3/4 HP PROGRAMMED ECM (M7, M8, M9)	0150G00002	FAN BLADE-SWEPT WING (M1, M2, M3, M4, M5, M6, M7, M8, M9, M11, M12, M13, M14, M15, M16, M17, M18)
0131M00365	BLOWER MOTOR-1/2 HP PROGRAMMED SELEC (M15, M16)	0130M00074	HIGH PRESSURE SWITCH
0131M00366	BLOWER MOTOR-1/2 HP PROGRAMMED SELEC (M11, M12)	0130M00075	LOW PRESSURE SWITCH
0131M00367	BLOWER MOTOR-1/2 HP PROGRAMMED SELEC (M13, M14)	0151M00021	REVERSING VALVE (M5, M6, M7, M8, M9, M10, M15, M16, M17, M18, M19, M20)
D6723303	BLOWER WHEEL	0151M00019	REVERSING VALVE (M1, M2, M3, M4, M11, M12, M13, M14)
CAP050300440RS	CAPACITOR 5/30/440V (M9, M18)	B1141643	TRANSFORMER 208/230, 24V
CAP050400440RT	CAPACITOR 5/40/440V (M1, M2, M3, M4, M10, M11, M12, M13, M14, M20)	0151G00003	VALVE, TXV R-410A [COND] (M1, M3, M11, M13)
CAP050450440RT	CAPACITOR 5/45/440V (M5, M6, M7, M8, M15, M16, M17)	0151G00003	VALVE, TXV R-410A [EVAP] (M1, M2, M3, M4, M11, M12, M13, M14)
CAP050800440RT	CAPACITOR 5/80/440V (M19)	0151M00030	VALVE-TXV [COND] (M8, M9, M10, M17, M18, M19, M20)
ZPS51K5EPFV130	COMP, 51900/208/230/60/1 (M10, M20)	0151M00029	VALVE-TXV [COND] (M5, M15)
ZP34K5EPFV130	COMP,34500,208/230/60/1 (M7)	0151M00029	VALVE-TXV [EVAP] (M5, M6, M15, M16)
ZPS40K5EPFV130	COMP,41100,208/230/60/1 (M9, M18)	0151M00030	VALVE-TXV [EVAP] (M8, M9, M10, M17, M18, M19, M20)
ZP21K5EPFV130	COMPRESSOR 21300, 208/230/60/1 (M1, M2, M11, M12)		
ZP25K5EPFV130	COMPRESSOR 25200, 208/230/60/1 (M3, M4, M13, M14)		
ZP31K5EPFV130	COMPRESSOR 31100, 208/230/60/1 (M5, M6, M15, M16)		
ZPS40K4EPFV230	COMPRESSOR 40000, 208/230/60/1/2STG (M8, M17)		
ZPS51K4EPFV230	COMPRESSOR 52000, 208/230/60/1/2STG (M19)		
0131M00008P	COND MOTOR 1/3 HP, 1 SP, 6 PL (M10, M19, M20)		
0131M00007P	COND MOTOR 1/4 HP, 1 SP, 6 PL (M7, M8, M9, M17, M18)		
0131M00061	COND MOTOR 1/4 HP, 1 SP, 8 PL (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)		
CONT2P040024V	CONTACTOR , 2 POLE, 40 AMP, 24 VAC (M8, M9, M10, M18, M20)		
CONT1P025024V	CONTACTOR 25 AMP, 1P, 24V (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)		
CONT1P030024V	CONTACTOR 30 AMP, 1P, 24V (M7)		

Cabinet Assembly

Image 1

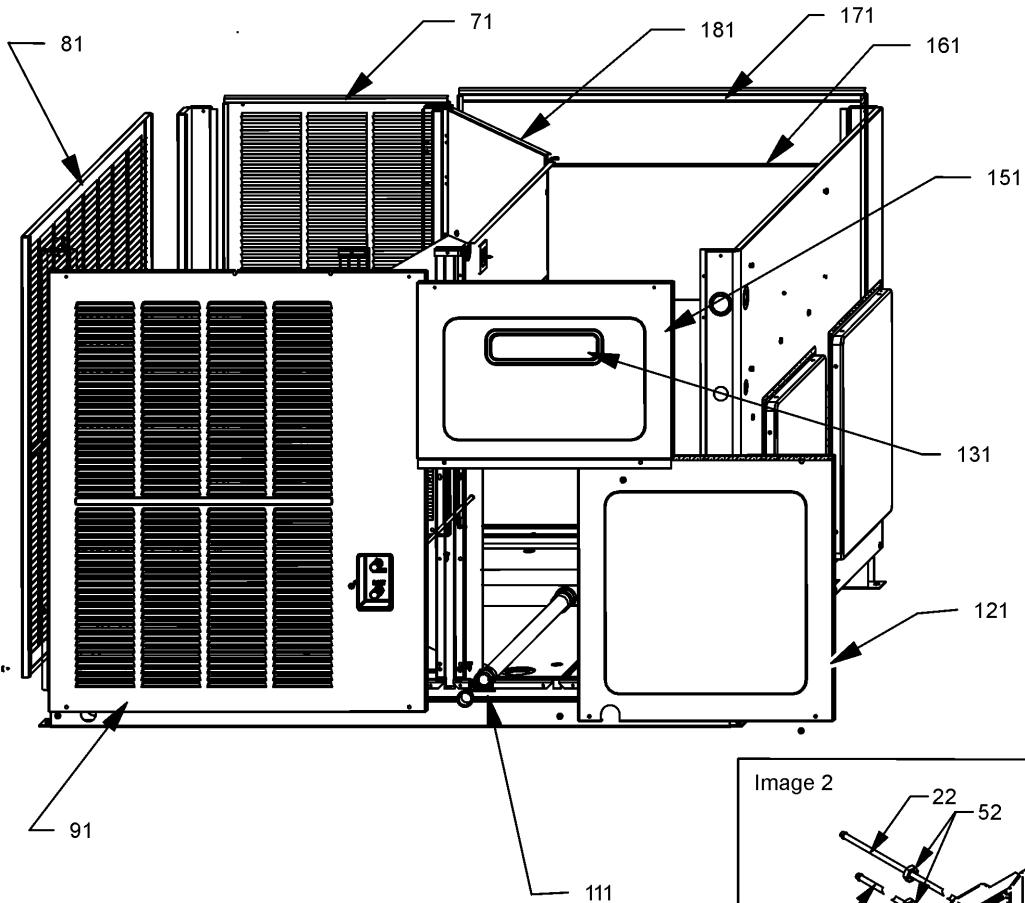
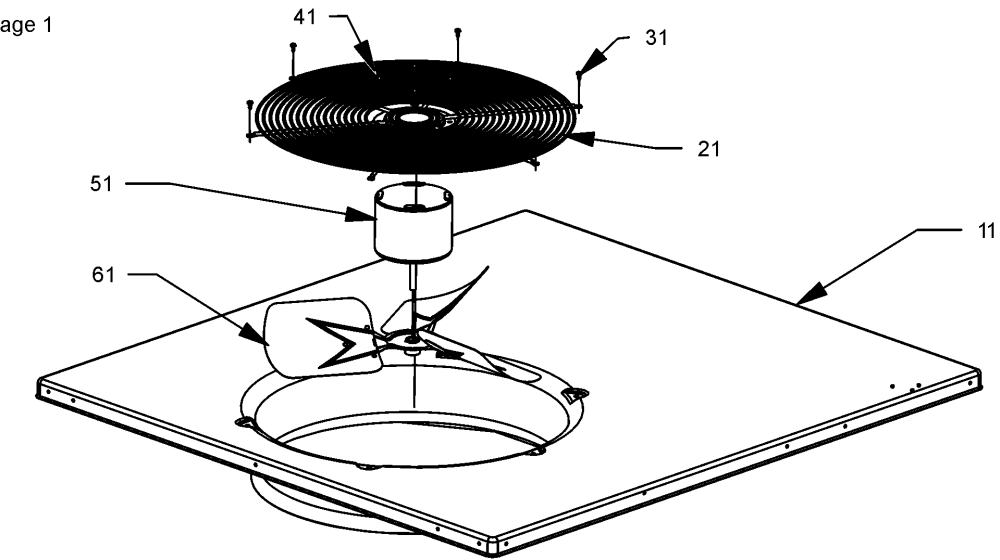
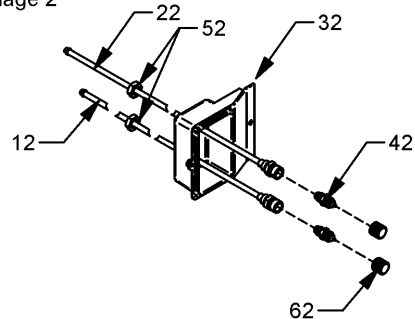


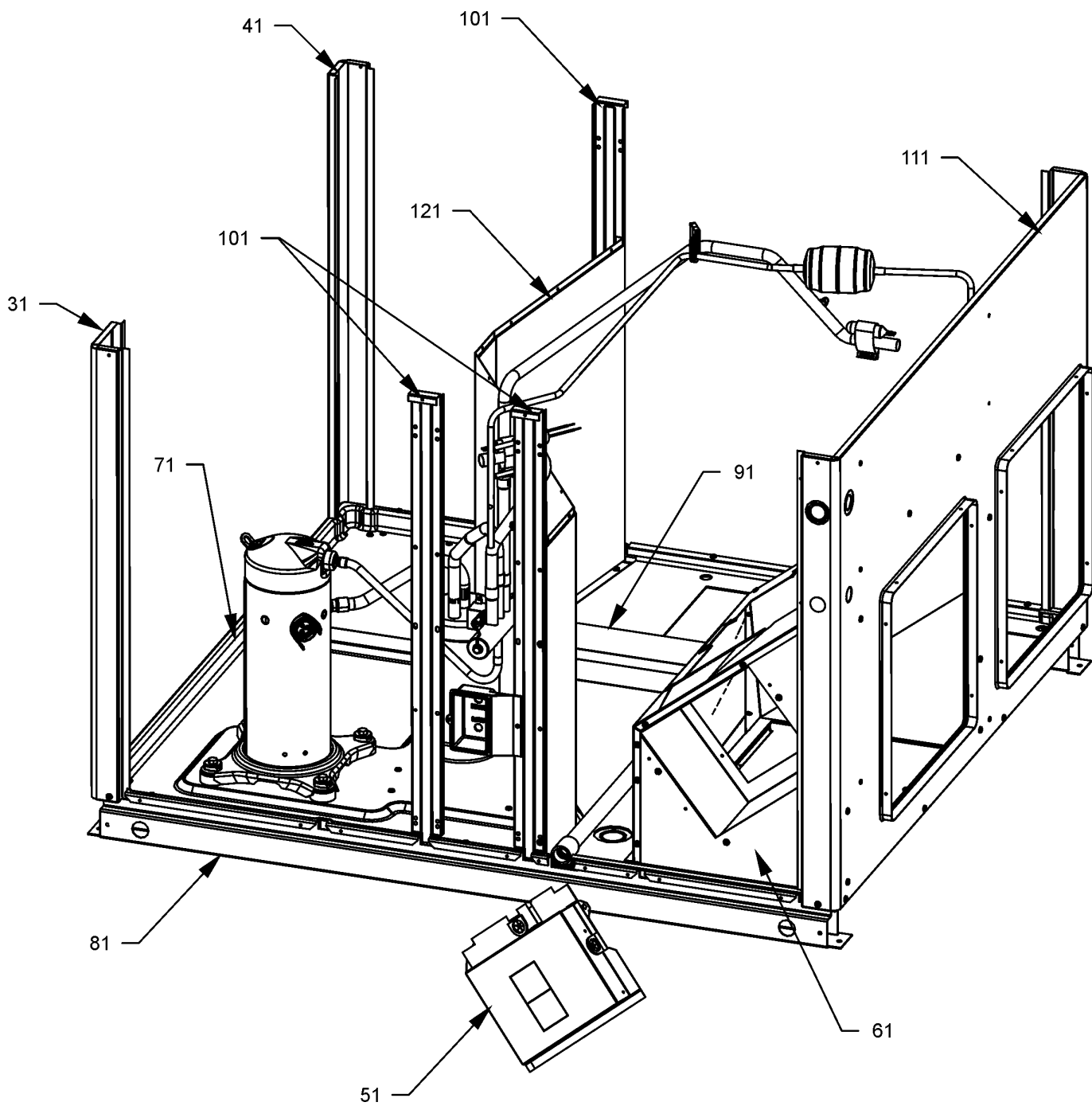
Image 2



Cabinet Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 1:</i>		<i>Image 2:</i>	
11	0121G00156PDG PNL, TOP, PNT	12	0210G00031P PROCESS TUBE ASSY-SUCTION
21	0152G00000 FAN GRILLE, RAISED	22	0210G00391 PROCESS TUBING ASSY - LIQUID (M7, M8, M9, M10, M17, M18, M19, M20)
31	B1393530 SCREW HWH,10 X 1/2, A, YZD, SLOT, SR (M7, M8, M9, M10, M17, M18, M19, M20)	22	0210G00481 PROCESS TUBING ASSY - LIQUID (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)
31	M0221817 SMALL SCREW (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)	32	0161G00001P ACCESS FITTING BOX
41	0163M00006P ACORN NUT 5/16 HEX BLACK (QTY 4)	42	B1373315 ACCESS FITTING (QTY 2)
51	0131M00008P COND MOTOR 1/3 HP, 1 SP, 6 PL (M10, M19, M20)	52	0163G00000P FASTEST FITTING NUT (QTY 2)
51	0131M00007P COND MOTOR 1/4 HP, 1 SP, 6 PL (M7, M8, M9, M17, M18)	62	B9102097 CAP W/O-RING (QTY 2)
51	0131M00061 COND MOTOR 1/4 HP, 1 SP, 8 PL (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)	Expanded Model Nomenclature	
61	0150M00011 FAN BLADE SWEPT-WING (M10, M19, M20)	M1 - APH1524M41AC M2 - APH1524M41AD M3 - APH1530M41AC M4 - APH1530M41AD M5 - APH1536M41AC M6 - APH1536M41AD M7 - APH1543M41AC M8 - APH1549M41AC M9 - APH1549M41AD M10 - APH1560M41AD M11 - GPH1524M41AC M12 - GPH1524M41AD M13 - GPH1530M41AC M14 - GPH1530M41AD M15 - GPH1536M41AC M16 - GPH1536M41AD M17 - GPH1549M41AC M18 - GPH1549M41AD M19 - GPH1560M41AC M20 - GPH1560M41AD	
61	0150G00002 FAN BLADE-SWEPT WING (M1, M2, M3, M4, M5, M6, M7, M8, M9, M11, M12, M13, M14, M15, M16, M17, M18)		
71	20467701PLG LOUVERED PANEL, COND SIDE 32" (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)		
71	20467702PLG PANEL - COND SIDE 40 W/PAINT (M7, M8, M9, M10, M17, M18, M19, M20)		
81	20464401PLG LOUVERED PANEL, COND SIDE 32" (M1, M2, M3, M4, M5, M6)		
81	20467702PLG LOUVERED PANEL, COND SIDE 40" (M7, M8, M9, M10)		
91	0121G00146LG LOUVERED PANEL 4 BANK 32.5", COMP SIDE (M1, M2, M3, M4, M5, M6)		
91	0121G00146PDG LOUVERED PANEL 4 BANK 32.5", COMP SIDE (M11, M12, M13, M14, M15, M16)		
91	0121G00147LG LOUVERED PANEL 4 BANK 40", COMP SIDE (M7, M8, M9, M10)		
91	0121G00147PDG LOUVERED PANEL 4 BANK 40", COMP SIDE (M17, M18, M19, M20)		
111	0261G00000 DRAIN PIPE		
121	0260G00023P INSULATED ASSY, BLOWER PANEL 32.5" (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)		
121	0260G00024P INSULATED ASSY, BLOWER PANEL 40" (M17, M18, M19, M20)		
131	B10259253 AMANA LABEL (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10)		
131	B10259251 GOODMAN LABEL (M11, M12, M13, M14, M15, M16, M17, M18, M19, M20)		
151	0121G00137 PL, LV BARRIER		
161	0260G00034 INSULATED ASSY, EVAP BLOCK-OFF 32" (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)		
161	0260G00035 INSULATED ASSY, EVAP BLOCK-OFF 40" (M7, M8, M9, M10)		
171	0260G00025P ASSY, INSUL, BLO PNL, 32.5 (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)		
171	0260G00026P ASSY, INSUL, BLO PNL, 40 (M7, M8, M9, M10, M17, M18, M19, M20)		
181	0260G00022P INSULATED ASSY, FAN SHROUD		
NS	0121G00235 FAN BAFFLE (M17, M18, M19, M20)		
NS	17788000083F PVC CONDUIT 8.25"		

Panels and Supports



Panels and Supports

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 1:</i>			
31	20464201PDG		CORNER POST-COMP END 32" (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)
31	20464202PDG		CORNER POST-COMP END 40" (M7, M8, M9, M10, M17, M18, M19, M20)
41	20464301PDG		CORNER POST-HAIRPIN END 32" (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)
41	20464302PDG		CORNER POST-HAIRPIN END 40" (M7, M8, M9, M10, M17, M18, M19, M20)
51	0121G00221		HEATER KIT COVER (QTY 2)
61	0221G00014		BLOWER TRANSITION ASSY
71	0121G00290		BASE PAN RAIL
81	0121G00444		BASEPAN, PACKAGE
91	0161G00003		PLASTIC DRIP PAN
101	0121G00208		SUPPORT POST 32" (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)
101	0121G00209		SUPPORT POST 40" (M7, M8, M9, M10, M17, M18, M19, M20)
111	0260G00018P		INSULATED ASSY, DUCT 32.5" (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)
111	0260G00019P		INSULATED ASSY, DUCT 40" (M7, M8, M9, M10, M17, M18, M19, M20)
121	0260G00020P		INSULATED ASSY, PARTITION PANEL 32" (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)
121	0260G00021P		INSULATED ASSY, PARTITION PANEL 40" (M7, M8, M9, M10, M17, M18, M19, M20)
NS	0121G00158		EVAP BLOCK-OFF 32.5" (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)
NS	0121G00159		EVAP BLOCK-OFF 40" (M7, M8, M9, M10, M17, M18, M19, M20)

Expanded Model Nomenclature

M1 - APH1524M41AC
M2 - APH1524M41AD
M3 - APH1530M41AC
M4 - APH1530M41AD
M5 - APH1536M41AC
M6 - APH1536M41AD
M7 - APH1543M41AC
M8 - APH1549M41AC
M9 - APH1549M41AD
M10 - APH1560M41AD
M11 - GPH1524M41AC
M12 - GPH1524M41AD
M13 - GPH1530M41AC
M14 - GPH1530M41AD
M15 - GPH1536M41AC
M16 - GPH1536M41AD
M17 - GPH1549M41AC
M18 - GPH1549M41AD
M19 - GPH1560M41AC
M20 - GPH1560M41AD

Tubing / Coil Assemblies

Image 1

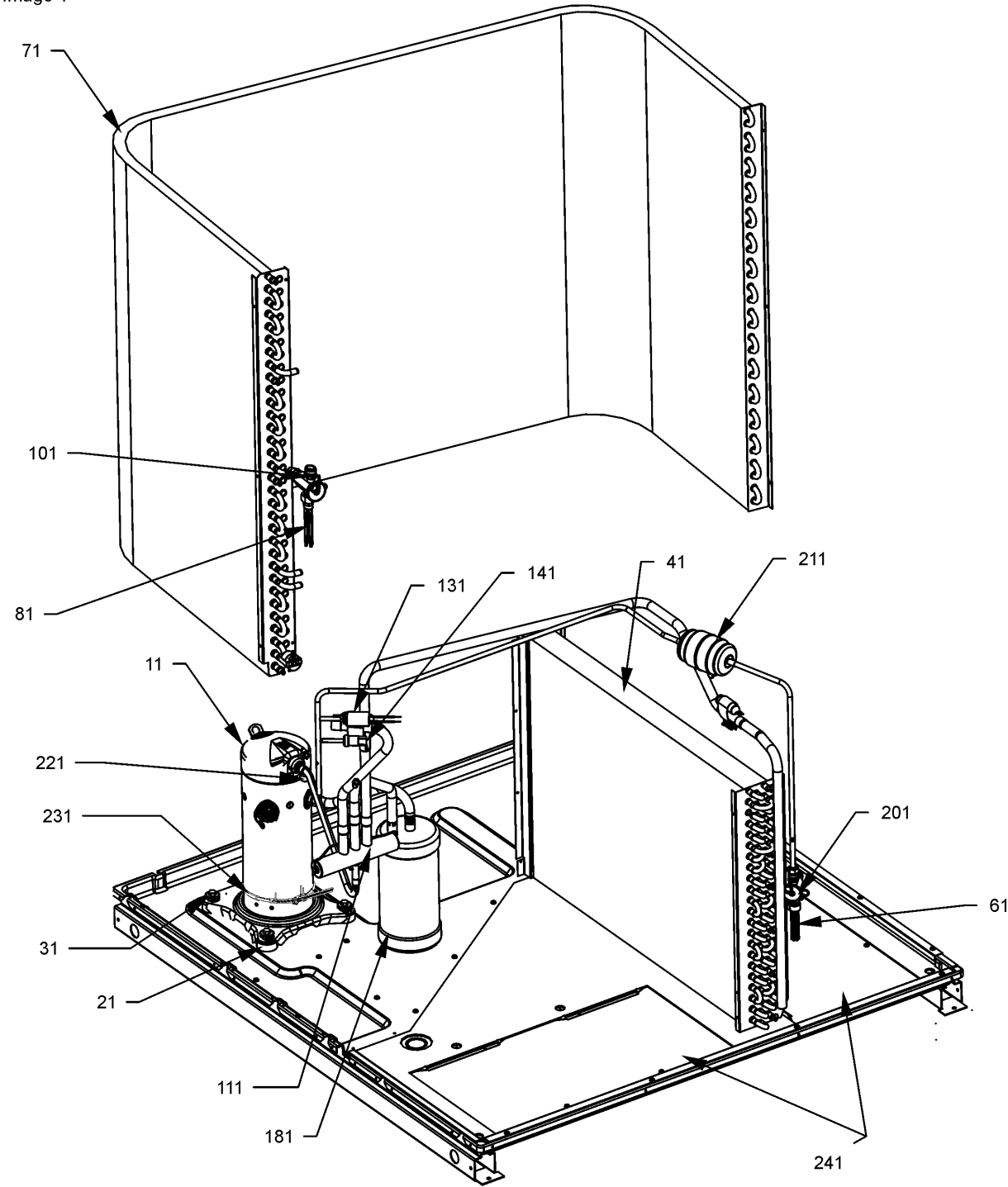
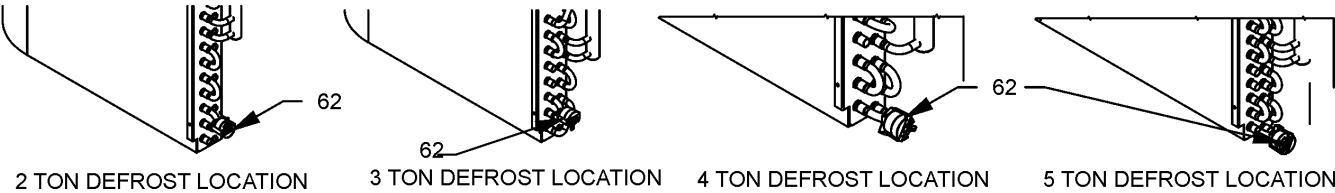


Image 2



Tubing / Coil Assemblies

Ref. Part No: No:			Ref. Part No: No:		
Description:			Description:		
Image 1:			Image 1:		
11	ZPS51K5EPFV130	COMP, 51900/208/230/60/1 (M10, M20)	201	0151G00003	VALVE, TXV R-410A [EVAP] (M1, M2, M3, M4, M11, M12, M13, M14)
11	ZP34K5EPFV130	COMP,34500,208/230/60/1 (M7)	201	0151M00029	VALVE-TXV [EVAP] (M5, M6, M15, M16)
11	ZPS40K5EPFV130	COMP,41100,208/230/60/1 (M9, M18)	201	0151M00030	VALVE-TXV [EVAP] (M8, M9, M10, M17, M18, M19, M20)
11	ZP21K5EPFV130	COMPRESSOR 21300, 208/230/60/1 (M1, M2, M11, M12)	211	20485201	BI-FLOW FILTER DRIER
11	ZP25K5EPFV130	COMPRESSOR 25200, 208/230/60/1 (M3, M4, M13, M14)	221	0130R00045	CRANKCASE HEATER SWITCH (M5, M6, M7, M8, M9, M10, M15, M16, M17, M18, M19, M20)
11	ZP31K5EPFV130	COMPRESSOR 31100, 208/230/60/1 (M5, M6, M15, M16)	231	0163R00003	CRANK CASE HEATER, 230V 40W (M7, M8, M9, M17, M18)
11	ZPS40K4EPFV230	COMPRESSOR 40000, 208/230/60/1/2STG (M8, M17)	231	0130L00017	CRANK CASE HEATER-70W 240V (M10, M19, M20)
11	ZPS51K4EPFV230	COMPRESSOR 52000, 208/230/60/1/2STG (M19)	231	0163R00002	CRANKCASE HEATER, 230V, 40W (M5, M6, M15, M16)
21	B1339533	COMPRESSOR GROMMET (QTY 4)	241	0121G00148	SINGLE COVER, DOWN DISCHARGE (QTY 2)
31	M0221641	TF SHOULDER SCREW (QTY 4)	NS	0259G00063	COMPRESSOR HARNESS (M8, M17, M19)
41	0202G00110	TUBING ASSY, EVAP COIL (M1, M2, M3, M4, M11, M12, M13, M14)	NS	0159G00002	COMPRESSOR SCROLL HARNESS (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)
41	0202G00111	TUBING ASSY, EVAP COIL (M5, M6, M15, M16)	NS	0159G00004	COMPRESSOR SCROLL HARNESS (M9, M10, M18, M20)
41	0202G00317	TUBING ASSY, EVAP COIL (M7)	NS	0159R00003P	COMPRESSOR SCROLL HARNESS (M7)
41	0202G00321	TUBING ASSY, EVAP COIL (M8, M9, M10, M17, M18, M19, M20)	NS	0159G00001	COMPRESSOR SOLENOID CABLE (M8, M9, M10, M17, M18, M19, M20)
61	0162M00086	FLOWRATOR .072 [COND] (M7)	Image 2:		
61	B2114600	FLOWRATOR [EVAP] (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)	62	0130M00102	CONTROL, DEFROST
61	B2114800	FLOWRATOR [EVAP] (M8, M9, M10, M17, M18, M19, M20)	Expanded Model Nomenclature		
71	0201G00173	CONDENSER COIL ASSY (M8, M9, M10, M17, M18, M19, M20)	M1 - APH1524M41AC M2 - APH1524M41AD M3 - APH1530M41AC M4 - APH1530M41AD M5 - APH1536M41AC M6 - APH1536M41AD M7 - APH1543M41AC M8 - APH1549M41AC M9 - APH1549M41AD M10 - APH1560M41AD M11 - GPH1524M41AC M12 - GPH1524M41AD M13 - GPH1530M41AC M14 - GPH1530M41AD M15 - GPH1536M41AC M16 - GPH1536M41AD M17 - GPH1549M41AC M18 - GPH1549M41AD M19 - GPH1560M41AC M20 - GPH1560M41AD		
71	0201G00255	CONDENSER COIL ASSY (M7)			
71	0201G00276	CONDENSER COIL ASSY (M2, M4, M12, M14)			
71	0201G00277	CONDENSER COIL ASSY (M6, M16)			
71	0201G00094	TUBING ASSY, COND COIL (M1, M3, M5, M11, M13, M15)			
81	0162M00055	FLOWRATOR [COND] (M8, M9, M10, M17, M18, M19, M20)			
81	0162M00154	FLOWRATOR [COND] (M7)			
81	B2114600	FLOWRATOR [COND] (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)			
101	0151G00003	VALVE, TXV R-410A [COND] (M1, M3, M11, M13)			
101	0151M00029	VALVE-TXV [COND] (M5, M15)			
101	0151M00030	VALVE-TXV [COND] (M8, M9, M10, M17, M18, M19, M20)			
111	0151M00019	REVERSING VALVE (M1, M2, M3, M4, M11, M12, M13, M14)			
111	0151M00021	REVERSING VALVE (M5, M6, M7, M8, M9, M10, M15, M16, M17, M18, M19, M20)			
131	0130M00074	HIGH PRESSURE SWITCH			
141	0130M00075	LOW PRESSURE SWITCH			
181	B1226206	ACCUMULATOR (M1, M2, M3, M4, M11, M12, M13, M14)			
181	B1226207	ACCUMULATOR .875 (M5, M6, M7, M8, M9, M10, M15, M16, M17, M18, M19, M20)			

Control Panel / Blower Assembly

Image 1

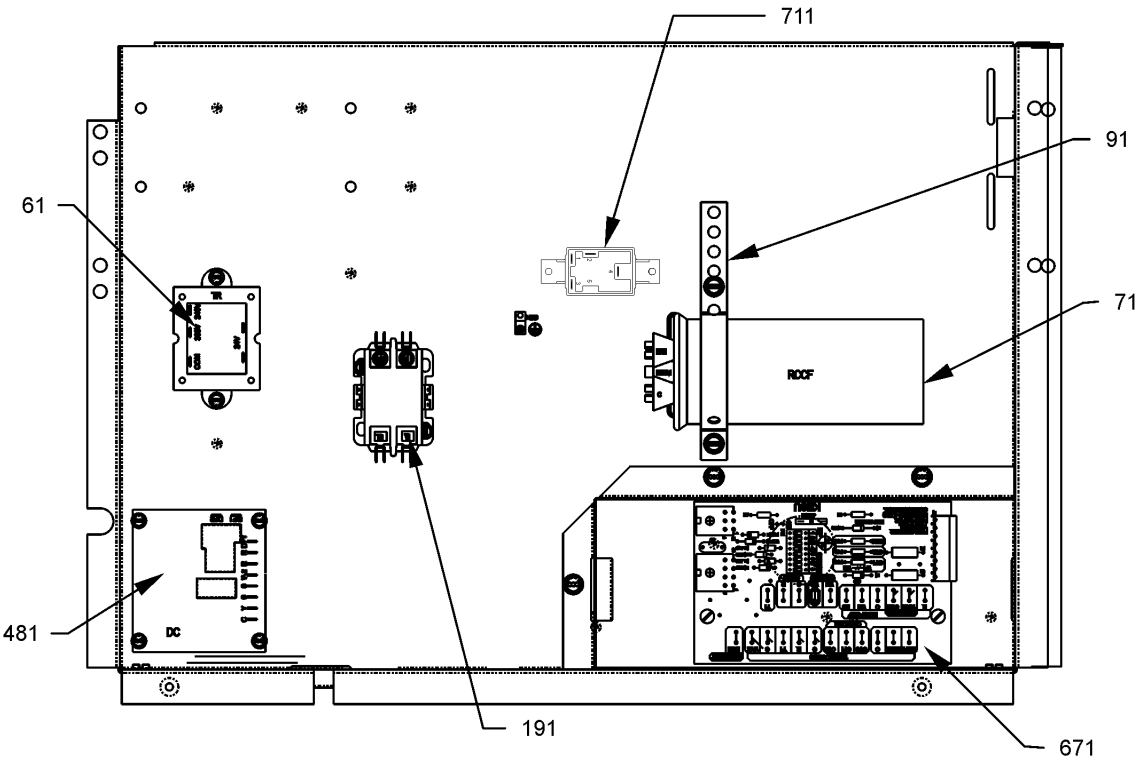
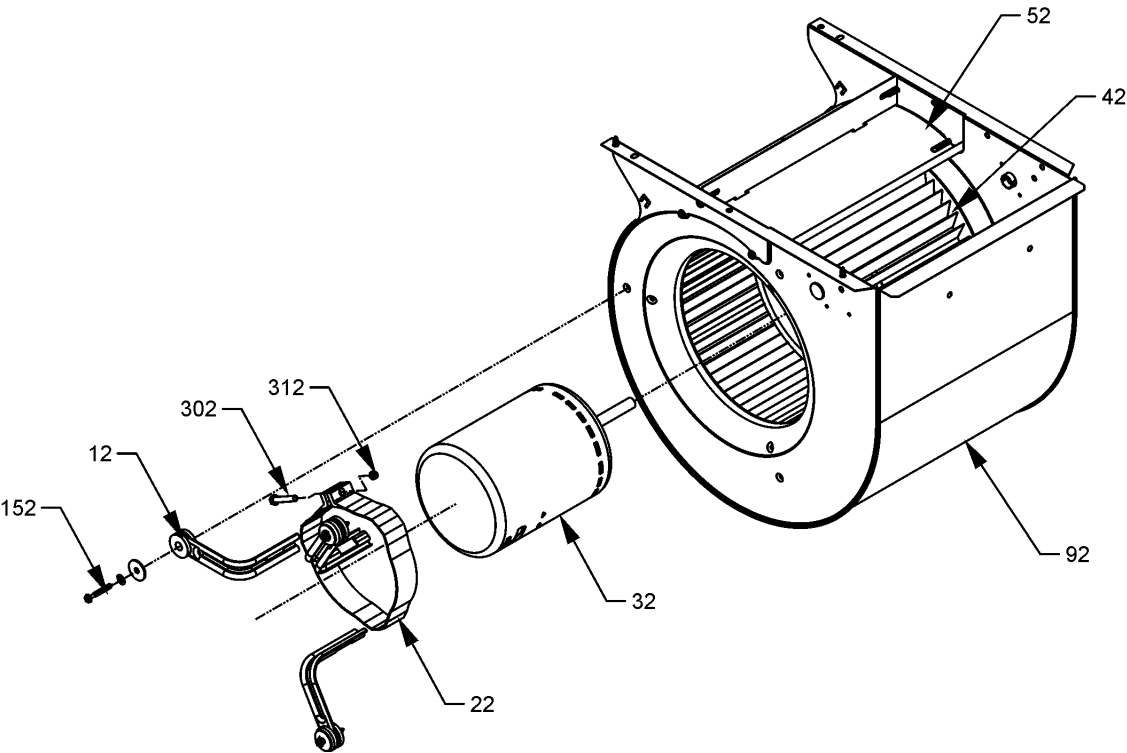


Image 2



Control Panel / Blower Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

61	B1141643	TRANSFORMER 208/230, 24V
71	CAP050300440RS	CAPACITOR 5/30/440V (M9, M18)
71	CAP050400440RT	CAPACITOR 5/40/440V (M1, M2, M3, M4, M10, M11, M12, M13, M14, M20)
71	CAP050450440RT	CAPACITOR 5/45/440V (M5, M6, M7, M8, M15, M16, M17)
71	CAP050800440RT	CAPACITOR 5/80/440V (M19)
91	20520901	CAPACITOR STRAP
191	CONT2P040024V	CONTACTOR , 2 POLE, 40 AMP, 24 VAC (M8, M9, M10, M18, M20)
191	CONT1P025024V	CONTACTOR 25 AMP, 1P, 24V (M1, M2, M3, M4, M5, M6, M11, M12, M13, M14, M15, M16)
191	CONT1P030024V	CONTACTOR 30 AMP, 1P, 24V (M7)
191	CONT2P040024V	CONTACTOR 40 AMP, 2P, 24V (M17, M19)
481	PCBDM160	PCB, DEFROST CONTROL
671	PCBEM102	PCB, ECM PRIMARY, VSTB (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10)
711	B1370751	24V RELAY (M8, M9, M10, M17, M18, M19, M20)
NS	0259G00065	BLOWER HARNESS (M11, M12, M13, M14, M15, M16)
NS	0259G00068	BLOWER HARNESS (M18, M20)
NS	0259G00070	WIRE HARNESS, ELECTRIC HEAT (M11, M12, M13, M14, M15, M16, M17, M18, M19, M20)
NS	0259G00071	WIRE HARNESS, ELECTRIC HEAT (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10)
NS	B1378700	WIRE HARNESS, LOW VOLTAGE (16-PIN ECM) (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10)

Image 2:

12	B1376857	MOTOR MOUNT ARM (QTY 3)
22	0121M00038	MOTOR MOUNT BAND
32	0131M00337	BLOWER MOTOR - 1 HP PROGRAMMED SELEC (M19, M20)
32	0131M00350	BLOWER MOTOR - 3/4 HP PROGRAMMED SELE (M17, M18)
32	0231K00067	BLOWER MOTOR 1 HP PROGRAMMED ECM (M10)
32	0231K00065	BLOWER MOTOR 1/2 HP PROGRAMMED ECM (M3, M4, M5, M6)
32	0231K00070	BLOWER MOTOR 1/2 HP PROGRAMMED ECM (M1, M2)
32	0231K00066	BLOWER MOTOR 3/4 HP PROGRAMMED ECM (M7, M8, M9)
32	0131M00365	BLOWER MOTOR-1/2 HP PROGRAMMED SELEC (M15, M16)
32	0131M00366	BLOWER MOTOR-1/2 HP PROGRAMMED SELEC (M11, M12)
32	0131M00367	BLOWER MOTOR-1/2 HP PROGRAMMED SELEC (M13, M14)
42	D6723303	BLOWER WHEEL
52	764742	BLOWER BLOCK-OFF
92	0271G00024	BLOWER HOUSING ASSY 10 X 9
152	M0250565	TC SCREW 1.25" (QTY A/R)
302	B1393323	MACHINE SCREW HWH 1/4-20 X 1-1/2 BZ

Image 2:

312	B1393800	LOCKNUT, NYLON, INSERT 1/4, 20
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Expanded Model Nomenclature

M1 - APH1524M41AC
M2 - APH1524M41AD
M3 - APH1530M41AC
M4 - APH1530M41AD
M5 - APH1536M41AC
M6 - APH1536M41AD
M7 - APH1543M41AC
M8 - APH1549M41AC
M9 - APH1549M41AD
M10 - APH1560M41AD
M11 - GPH1524M41AC
M12 - GPH1524M41AD
M13 - GPH1530M41AC
M14 - GPH1530M41AD
M15 - GPH1536M41AC
M16 - GPH1536M41AD
M17 - GPH1549M41AC
M18 - GPH1549M41AD
M19 - GPH1560M41AC
M20 - GPH1560M41AD