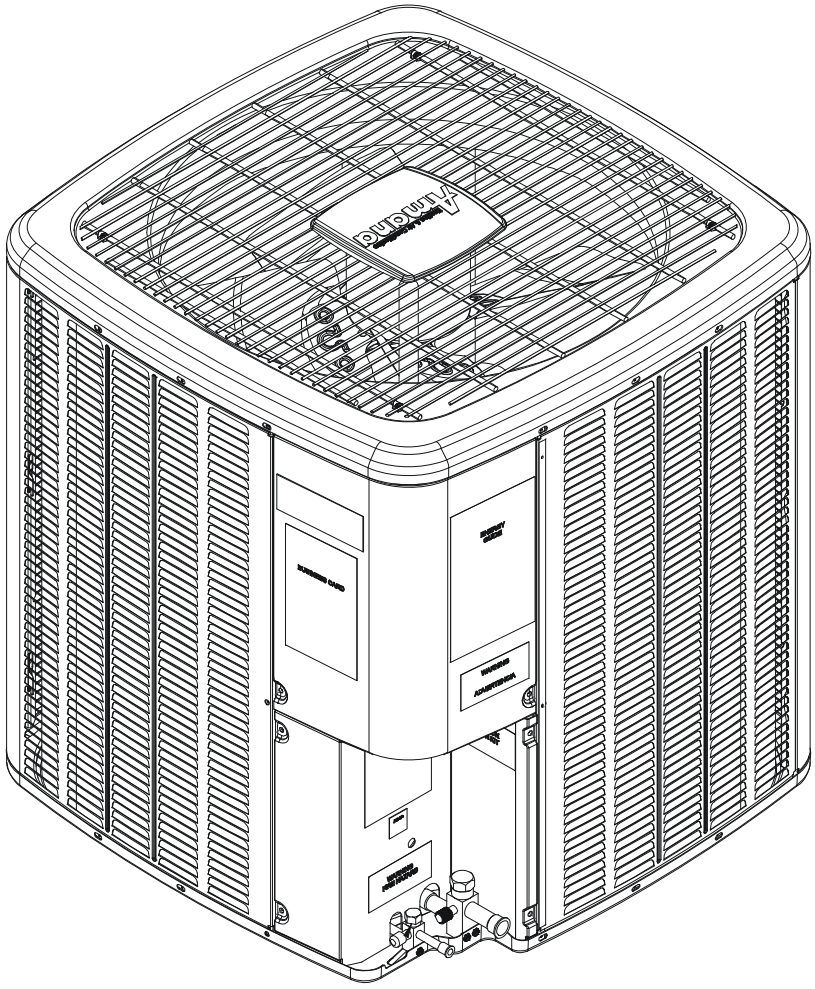
REPAIR PARTS

ASZ13 R410A Remote Heat Pumps

ASZ130181AB
ASZ130181AC
ASZ130181AD
ASZ130181AE
ASZ130241AC
ASZ130241AD
ASZ130241AE
ASZ130241AF
ASZ130301AC
ASZ130301AD
ASZ130301AE
ASZ130301AF
ASZ130361AB
ASZ130361AC
ASZ130361AD
ASZ130361AE
ASZ130421AB
ASZ130421AC
ASZ130421AD
ASZ130421AE
ASZ130481AB
ASZ130481AC
ASZ130481AD
ASZ130481AE
ASZ130601AB
ASZ130601AC
ASZ130601AD
ASZ130601AE



This manual is to be used by qualified technicians only.

This manual replaces RP-650B.

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Important Information

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Functional Parts List 3

Illustration and Parts ..... 4 - 9

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.

Rev C: Comfort Alert module replaced with CoreSense module

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:
B12825171	3/8" SERVICE VALVE
CAP050700440RT	CAP, 5/70 MFD/440V/DUAL RD (M25, M26, M27, M28)
CAP050300440RS	CAPACITOR 5/30/370V (M1, M2, M3, M4)
CAP050400440RT	CAPACITOR 5/40/440V (M5, M6, M7, M8, M9, M10, M11, M12)
CAP050450440RT	CAPACITOR 5/45/440V (M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
ZP21K5EPFV130	COMP,21300,208/230/60/1 (M5, M6, M7, M8)
ZP36K5EPFV130	COMP,36200,208/230/60/1 (M17, M18, M19, M20)
ZP16K5EPFV130	COMPRESSOR 15500, 208/230/60/1 (M1, M2, M3, M4)
ZP25K5EPFV130	COMPRESSOR 25200, 208/230/60/1 (M9, M10, M11, M12)
ZP31K5EPFV130	COMPRESSOR 31100, 208/230/60/1 (M13, M14, M15, M16)
ZP39K5EPFV130	COMPRESSOR 39000, 208/230/60/1 (M21, M22, M23, M24)
ZP51K5EPFV130	COMPRESSOR 51000, 208/230/60/1 (M25, M26, M27, M28)
0131M00015P	COND MOTOR 1/4 HP, 2 SP, 8 PL (M13, M14, M17, M18, M21, M22, M25, M26)
0131M00016P	COND MOTOR 1/6 HP, 1 SP, 8 PL (M15, M16, M19, M20)
0131M00017P	COND MOTOR 1/6 HP, 2 SP, 8 PL (M1, M2, M5, M6, M9, M10)
0131M00061	COND MOTOR, 1/4HP, 1SP, 8PL (M23, M24, M27, M28)
0131M00266	COND PSC MOTOR 1/8 HP 8 PL (M3, M4, M7, M8, M11, M12)
CONT1P025024V	CONTACTOR 25 AMP, 1P, 24V (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20)
CONT1P030024V	CONTACTOR 30 AMP, 1P, 24V (M21, M22, M23, M24, M25, M26, M27, M28)
571006700	CORE SENSE MODULE
0150M00018	FAN BLADE 20" (M1, M2, M3, M4, M5, M6, M7, M8)
0150M00012	FAN BLADE- 20" CCW (M9, M10, M11, M12)
0150M00008	FAN BLADE 22" TNT2203-25 (M13, M14, M15, M16, M17, M18, M19, M20)
0150M00013	FAN BLADE 26" CCW (M25, M26, M27, M28)
B1086765	FAN BLADE TYPE 3 (M21, M22, M23, M24)
0163R00006	HEATER, CRANKCASE 230V, 40W (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
0163R00007	HEATER, CRANKCASE 230V, 40W (M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28)
0130M00089	HIGH PRESSSURE SWITCH (M1, M5, M9, M13, M17, M21, M25)
0130R00003	HIGH PRESSURE SWITCH (M2, M3, M4, M6, M7, M8, M10, M11, M12, M14, M15, M16, M18, M19, M20, M22, M23, M24, M26, M27, M28)
0130M00088	LOW PRESSURE SWITCH
PCBDM160	PCB, DEFROST CONTROL
10135604	RELAY (M1, M2, M5, M6, M9, M10, M13, M14, M17, M18, M21, M22, M25, M26)
0151R00032	VALVE, BASE 3/4" OPEN LEFT (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
0151R00033	VALVE, BASE 7/8" OPEN LEFT (M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28)

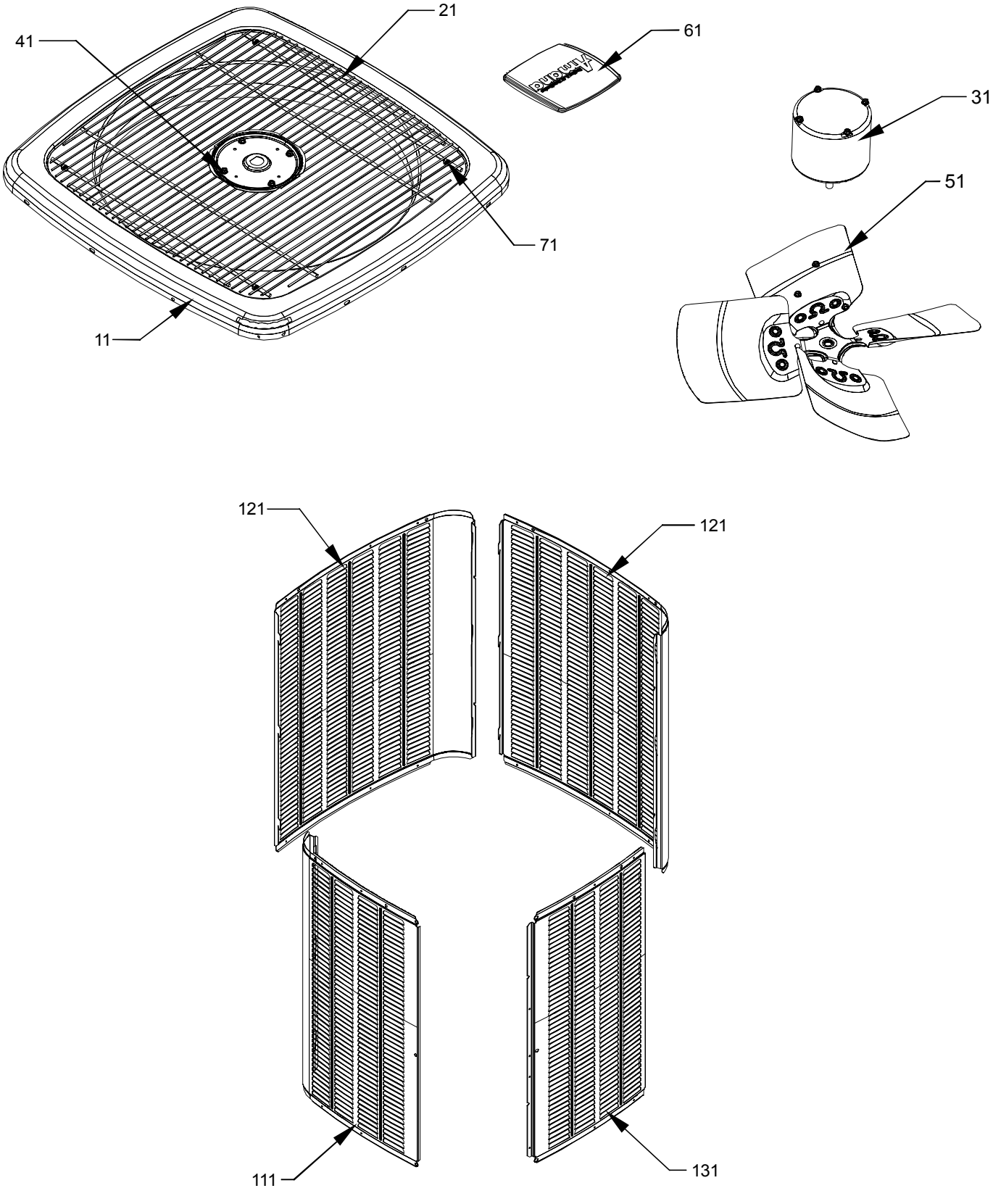
SPECIAL PARTS

0161R00008P	AMANA LOGO CAP
0161R00010P	AMANA NAMEPLATE
B1789849	FLOW CHECK PISTON KIT .049 (M1, M2, M3)
B1789851	FLOW CHECK PISTON KIT .051 (M4)
B1789857	FLOW CHECK PISTON KIT .057 (M5, M6, M7, M8)
B1789863	FLOW CHECK PISTON KIT .063 (M9, M10, M11, M12)
B1789868	FLOW CHECK PISTON KIT .068 (M13, M14, M15, M16)
B1789874	FLOW CHECK PISTON KIT .074 (M17, M18, M19, M20)
B1789878	FLOW CHECK PISTON KIT .078 (M21, M22, M23, M24)
B1789888	FLOW CHECK PISTON KIT .088 (M25, M26, M27, M28)

Expanded Model Nomenclature

M1 - ASZ130181AB
M2 - ASZ130181AC
M3 - ASZ130181AD
M4 - ASZ130181AE
M5 - ASZ130241AC
M6 - ASZ130241AD
M7 - ASZ130241AE
M8 - ASZ130241AF
M9 - ASZ130301AC
M10 - ASZ130301AD
M11 - ASZ130301AE
M12 - ASZ130301AF
M13 - ASZ130361AB
M14 - ASZ130361AC
M15 - ASZ130361AD
M16 - ASZ130361AE
M17 - ASZ130421AB
M18 - ASZ130421AC
M19 - ASZ130421AD
M20 - ASZ130421AE
M21 - ASZ130481AB
M22 - ASZ130481AC
M23 - ASZ130481AD
M24 - ASZ130481AE
M25 - ASZ130601AB
M26 - ASZ130601AC
M27 - ASZ130601AD
M28 - ASZ130601AE

Cabinet Top / Side Panels



Cabinet Top / Side Panels

Image 1:

Ref. No:	Part No:	Description:
11	0121R00009PDG	VENTURI TOP PANEL 26" (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)
11	0121R00011PDG	VENTURI TOP PANEL 29" (M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
11	0121R00013PDG	VENTURI TOP PANEL 35" (M25, M26, M27, M28)
21	0152R00010	GRILLE, WIRE 26" TOP (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)
21	0152R00011	GRILLE, WIRE 29" TOP (M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
21	0152R00012	GRILLE, WIRE 35" TOP (M25, M26, M27, M28)
31	0131M00015P	COND MOTOR 1/4 HP, 2 SP, 8 PL (M13, M14, M17, M18, M21, M22, M25, M26)
31	0131M00016P	COND MOTOR 1/6 HP, 1 SP, 8 PL (M15, M16, M19, M20)
31	0131M00017P	COND MOTOR 1/6 HP, 2 SP, 8 PL (M1, M2, M5, M6, M9, M10)
31	0131M00061	COND MOTOR, 1/4HP, 1SP, 8PL (M23, M24, M27, M28)
31	0131M00266	COND PSC MOTOR 1/8 HP 8 PL (M3, M4, M7, M8, M11, M12)
41	M0280801	HEX NUT (QTY 4)
51	0150M00018	FAN BLADE 20" (M1, M2, M3, M4, M5, M6, M7, M8)
51	0150M00012	FAN BLADE- 20" CCW (M9, M10, M11, M12)
51	0150M00008	FAN BLADE 22" TNT2203-25 (M13, M14, M15, M16, M17, M18, M19, M20)
51	0150M00013	FAN BLADE 26" CCW (M25, M26, M27, M28)
51	B1086765	FAN BLADE TYPE 3 (M21, M22, M23, M24)
61	0161R00008P	AMANA LOGO CAP
71	0163M00003P	SCREW #10 X 1/2, A, SLOT, SR, BLACK (QTY 4)
111	4400402PLGB	LOUVERED SIDE PANEL [LT OF CNTL PNL] (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)
111	4400457PLGB	LOUVERED SIDE PANEL [LT OF CNTL PNL] (M21, M22, M23, M24)
111	4400458PLGB	LOUVERED SIDE PANEL [LT OF CNTL PNL] (M13, M14, M15, M16, M17, M18, M19, M20)
111	4400463PLGB	LOUVERED SIDE PANEL [LT OF CNTL PNL] (M25, M26, M27, M28)
121	4400407PLGB	LOUVERED SIDE PANEL (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)
121	4400459PLGB	LOUVERED SIDE PANEL (M21, M22, M23, M24)
121	4400460PLGB	LOUVERED SIDE PANEL (M13, M14, M15, M16, M17, M18, M19, M20)
121	4400465PLGB	LOUVERED SIDE PANEL (M25, M26, M27, M28)
131	4400412PLG	LOUVERED SIDE PANEL [RT OF CNTL PNL] (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)
131	4400461PLG	LOUVERED SIDE PANEL [RT OF CNTL PNL] (M21, M22, M23, M24)
131	4400462PLG	LOUVERED SIDE PANEL [RT OF CNTL PNL] (M13, M14, M15, M16, M17, M18, M19, M20)
131	4400467PLG	LOUVERED SIDE PANEL [RT OF CNTL PNL] (M25, M26, M27, M28)

Expanded Model Nomenclature

M1 - ASZ130181AB
M2 - ASZ130181AC
M3 - ASZ130181AD
M4 - ASZ130181AE
M5 - ASZ130241AC
M6 - ASZ130241AD
M7 - ASZ130241AE
M8 - ASZ130241AF
M9 - ASZ130301AC
M10 - ASZ130301AD
M11 - ASZ130301AE
M12 - ASZ130301AF
M13 - ASZ130361AB
M14 - ASZ130361AC
M15 - ASZ130361AD
M16 - ASZ130361AE
M17 - ASZ130421AB
M18 - ASZ130421AC
M19 - ASZ130421AD
M20 - ASZ130421AE
M21 - ASZ130481AB
M22 - ASZ130481AC
M23 - ASZ130481AD
M24 - ASZ130481AE
M25 - ASZ130601AB
M26 - ASZ130601AC
M27 - ASZ130601AD
M28 - ASZ130601AE

Control Panel & Cover / Condenser

Image 1

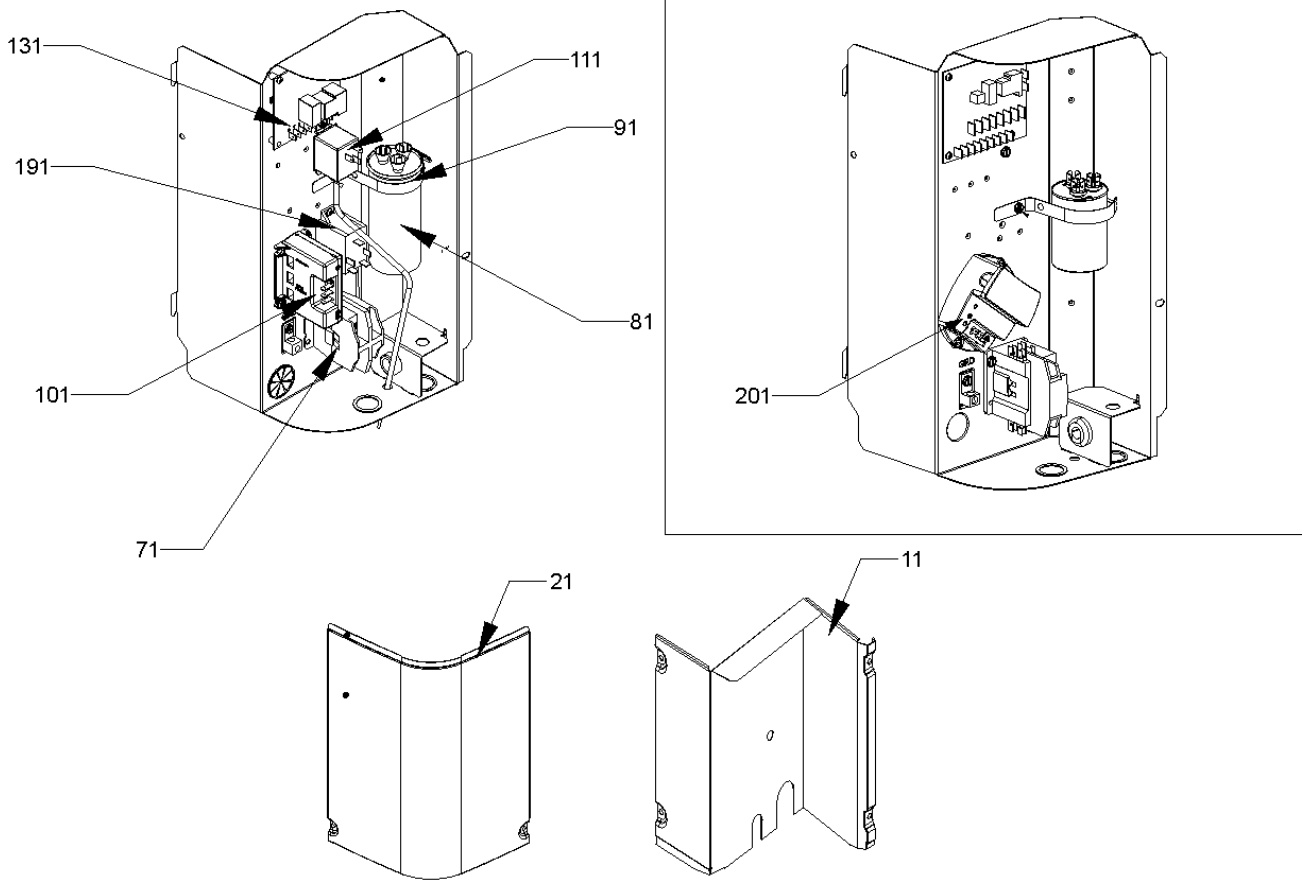
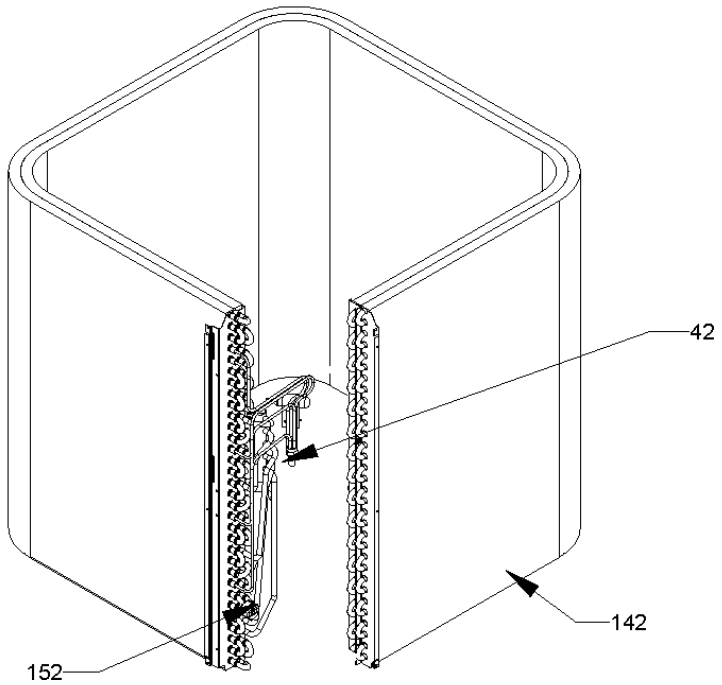


Image 2



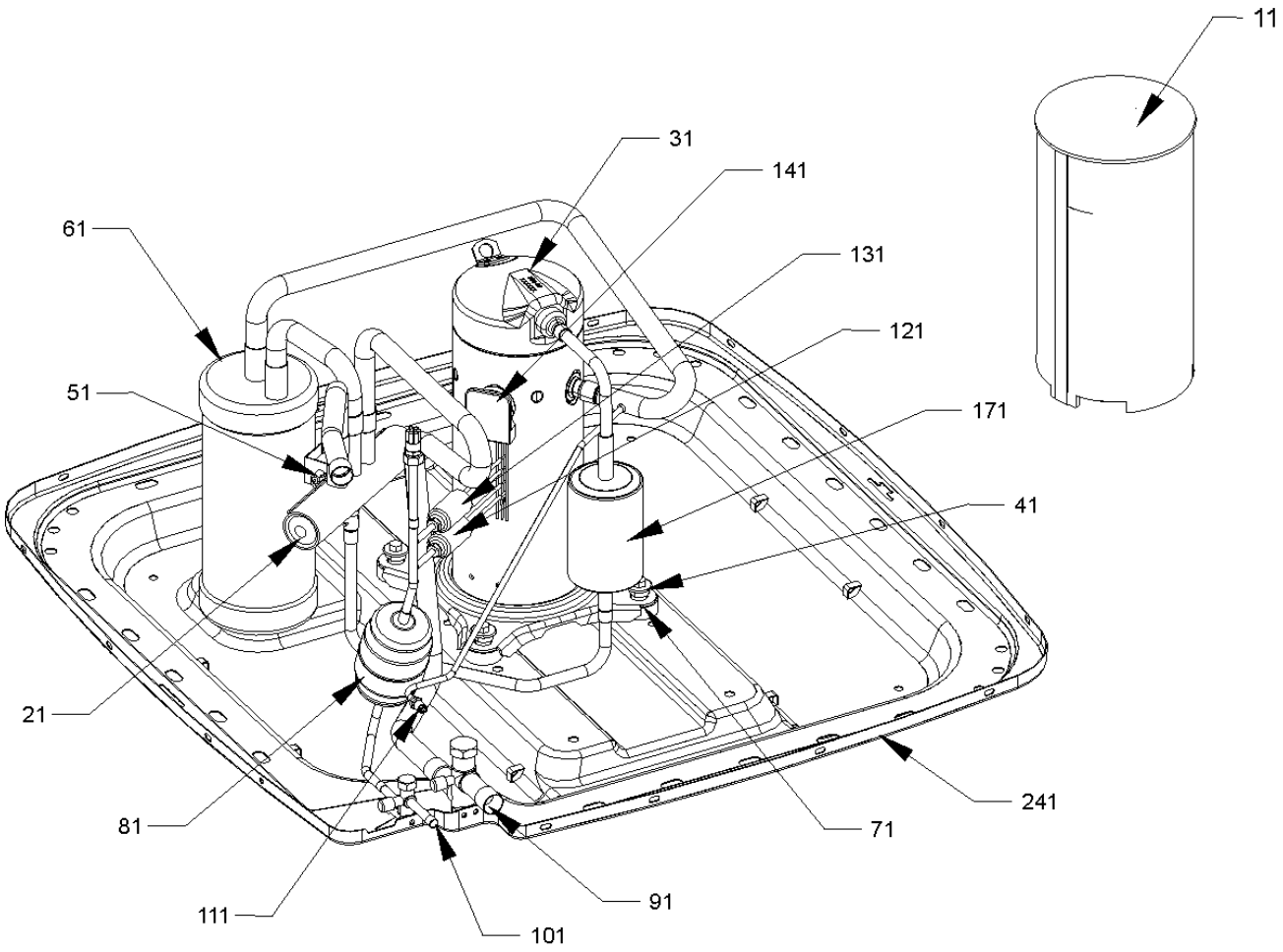
Control Panel & Cover / Condenser

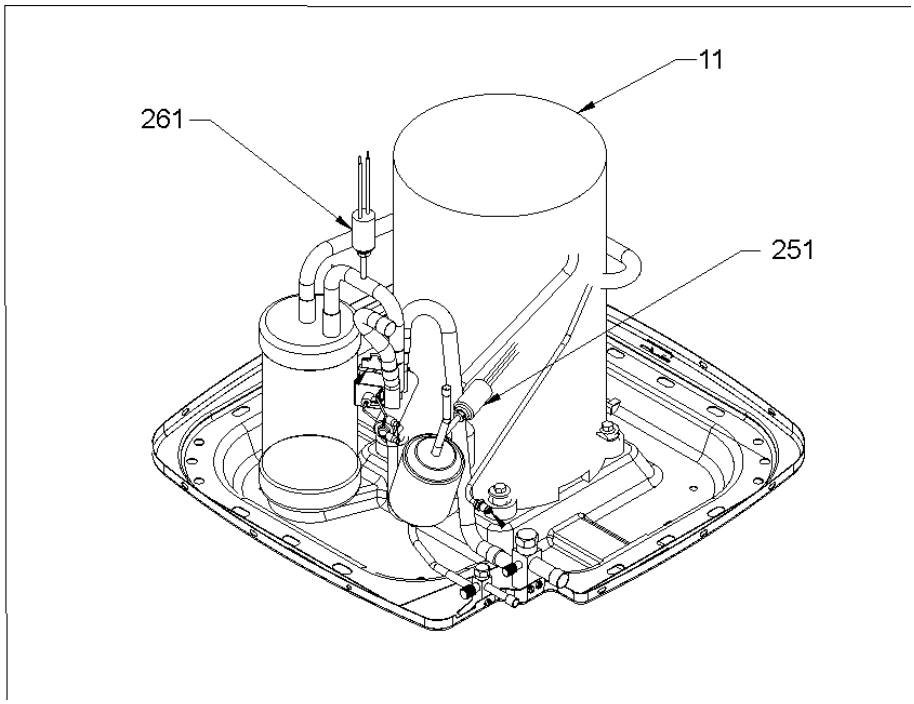
Ref. No:	Part No:	Description:
Image 1:		
11	0121R00318	LOWER ACCESS PANEL (M13, M14, M15, M16, M17, M18, M19, M20)
11	0121R00321	LOWER ACCESS PANEL (M21, M22, M23, M24, M25, M26, M27, M28)
11	0121R00323	LOWER ACCESS PANEL (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)
21	0121R00053PDG	CONTROL COVER
71	CONT1P025024V	CONTACTOR 25 AMP, 1P, 24V (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20)
71	CONT1P030024V	CONTACTOR 30 AMP, 1P, 24V (M21, M22, M23, M24, M25, M26, M27, M28)
81	CAP050700440RT	CAP, 5/70 MFD/440V/DUAL RD (M25, M26, M27, M28)
81	CAP050300440RS	CAPACITOR 5/30/370V (M1, M2, M3, M4)
81	CAP050400440RT	CAPACITOR 5/40/440V (M5, M6, M7, M8, M9, M10, M11, M12)
81	CAP050450440RT	CAPACITOR 5/45/440V (M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
91	4400065	CAPACITOR STRAP
101	571006700	CORE SENSE MODULE (M1, M2, M5, M6, M9, M10, M13, M14, M17, M18, M21, M22, M25, M26)
111	0130M00011P	LOW AMBIENT THERMOSTAT, SPDT (M1, M2, M5, M6, M9, M10, M13, M14, M17, M18, M21, M22, M25, M26)
131	PCBDM160	PCB, DEFROST CONTROL
191	10135604	RELAY (M1, M2, M5, M6, M9, M10, M13, M14, M17, M18, M21, M22, M25, M26)
201	571006700	CORE SENSE MODULE (M3, M4, M7, M8, M11, M12, M15, M16, M19, M20, M23, M24, M27, M28)
NS	0161R00010P	AMANA NAMEPLATE
Image 2:		
42	B1789849	FLOW CHECK PISTON KIT .049 (M1, M2, M3)
42	B1789851	FLOW CHECK PISTON KIT .051 (M4)
42	B1789857	FLOW CHECK PISTON KIT .057 (M5, M6, M7, M8)
42	B1789863	FLOW CHECK PISTON KIT .063 (M9, M10, M11, M12)
42	B1789868	FLOW CHECK PISTON KIT .068 (M13, M14, M15, M16)
42	B1789874	FLOW CHECK PISTON KIT .074 (M17, M18, M19, M20)
42	B1789878	FLOW CHECK PISTON KIT .078 (M21, M22, M23, M24)
42	B1789888	FLOW CHECK PISTON KIT .088 (M25, M26, M27, M28)
142	0201R00150	TUBING ASSY, COND COIL (M1, M2, M3, M4)
142	0201R00151	TUBING ASSY, COND COIL (M13, M14, M15, M16)
142	0201R00152	TUBING ASSY, COND COIL (M17, M18, M19, M20)
142	0201R00154	TUBING ASSY, COND COIL (M21, M22, M23, M24)
142	0201R00155	TUBING ASSY, COND COIL (M25, M26, M27, M28)
142	0201R00324	TUBING ASSY, COND COIL (M5, M6, M7, M8)
142	0201R00325	TUBING ASSY, COND COIL (M9, M10, M11, M12)
152	0130M00106	CONTROL, DEFROST

Expanded Model Nomenclature

M1 - ASZ130181AB
M2 - ASZ130181AC
M3 - ASZ130181AD
M4 - ASZ130181AE
M5 - ASZ130241AC
M6 - ASZ130241AD
M7 - ASZ130241AE
M8 - ASZ130241AF
M9 - ASZ130301AC
M10 - ASZ130301AD
M11 - ASZ130301AE
M12 - ASZ130301AF
M13 - ASZ130361AB
M14 - ASZ130361AC
M15 - ASZ130361AD
M16 - ASZ130361AE
M17 - ASZ130421AB
M18 - ASZ130421AC
M19 - ASZ130421AD
M20 - ASZ130421AE
M21 - ASZ130481AB
M22 - ASZ130481AC
M23 - ASZ130481AD
M24 - ASZ130481AE
M25 - ASZ130601AB
M26 - ASZ130601AC
M27 - ASZ130601AD
M28 - ASZ130601AE

Basepan / Compressor / Tubing Assy





Basepan / Compressor / Tubing Assy

Ref. No:	Part No:	Description:
Image 1:		
11	B1488810	COMPRESSOR SOUND BLANKET
21	0151M00018	REVERSING VALVE (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)
21	0151M00019	REVERSING VALVE (M13, M14, M15, M16)
21	0151M00020	REVERSING VALVE (M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28)
31	ZP21K5EPFV130	COMP,21300,208/230/60/1 (M5, M6, M7, M8)
31	ZP36K5EPFV130	COMP,36200,208/230/60/1 (M17, M18, M19, M20)
31	ZP16K5EPFV130	COMPRESSOR 15500, 208/230/60/1 (M1, M2, M3, M4)
31	ZP25K5EPFV130	COMPRESSOR 25200, 208/230/60/1 (M9, M10, M11, M12)
31	ZP31K5EPFV130	COMPRESSOR 31100, 208/230/60/1 (M13, M14, M15, M16)
31	ZP39K5EPFV130	COMPRESSOR 39000, 208/230/60/1 (M21, M22, M23, M24)
31	ZP51K5EPFV130	COMPRESSOR 51000, 208/230/60/1 (M25, M26, M27, M28)
41	M0221641	TF SHOULDER SCREW (QTY 4)
51	B1225020	SOLENOID COIL CORD W/1/4"TERMINAL
61	B1226206	ACCUMULATOR (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)
61	0151R00004P	ACCUMULATOR .750 (M13, M14, M15, M16)
61	B1226207	ACCUMULATOR .875 (M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28)
71	B1339533	COMPRESSOR GROMMET (QTY 4)
81	20485201	BI-FLOW FILTER DRIER
91	0151R00032	VALVE, BASE 3/4" OPEN LEFT (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
91	0151R00033	VALVE, BASE 7/8" OPEN LEFT (M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28)
101	B12825171	3/8” SERVICE VALVE
111	B1787000	VALVE CORE
121	0130M00089	HIGH PRESSSURE SWITCH (M1, M5, M9, M13, M17, M21, M25)
131	0130M00088	LOW PRESSURE SWITCH (M1, M5, M9, M13, M17, M21, M25)
141	0159R00000P	COMPRESSOR SCROLL HARNESS (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)
141	0159R00002P	COMPRESSOR SCROLL HARNESS (M25, M26, M27, M28)
171	0162R00007	MUFFLER 1/2 X 1/2
241	0121R00005PDG	BASE PAN 26" (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12)
241	0121R00006PDG	BASE PAN 29" (M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
241	0121R00007PDG	BASE PAN 35" (M25, M26, M27, M28)
251	0130R00003	HIGH PRESSURE SWITCH (M2, M3, M4, M6, M7, M8, M10, M11, M12, M14, M15, M16, M18, M19, M20, M22, M23, M24, M26, M27, M28)
261	0130M00088	LOW PRESSURE SWITCH (M2, M3, M4, M6, M7, M8, M10, M11, M12, M14, M15, M16, M18, M19, M20, M22, M23, M24, M26, M27, M28)

Ref. No:	Part No:	Description:
Image 1:		
NS	0163R00006	HEATER, CRANKCASE 230V, 40W (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
NS	0163R00007	HEATER, CRANKCASE 230V, 40W (M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28)

Expanded Model Nomenclature

M1 - ASZ130181AB
M2 - ASZ130181AC
M3 - ASZ130181AD
M4 - ASZ130181AE
M5 - ASZ130241AC
M6 - ASZ130241AD
M7 - ASZ130241AE
M8 - ASZ130241AF
M9 - ASZ130301AC
M10 - ASZ130301AD
M11 - ASZ130301AE
M12 - ASZ130301AF
M13 - ASZ130361AB
M14 - ASZ130361AC
M15 - ASZ130361AD
M16 - ASZ130361AE
M17 - ASZ130421AB
M18 - ASZ130421AC
M19 - ASZ130421AD
M20 - ASZ130421AE
M21 - ASZ130481AB
M22 - ASZ130481AC
M23 - ASZ130481AD
M24 - ASZ130481AE
M25 - ASZ130601AB
M26 - ASZ130601AC
M27 - ASZ130601AD
M28 - ASZ130601AE