REPAIR PARTS

AVXC20 Inverter Air Conditioners

AVXC200241AD
AVXC200241AE
AVXC200241AF
AVXC200361AD
AVXC200361AE
AVXC200481AD
AVXC200481AE
AVXC200601AD
AVXC200601AE



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This manual is to be used by qualified technicians only.

This manual replaces RP-A4317A.

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Important Information

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Illustration and Parts ..... 4 - 13

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

Goodman 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 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 Company, L.P.
19001 Kermier Road
Waller, Texas 77484
713-861-2500-Telephone
713-863-2382-Facsimile

Functional Parts

Part No:	Description:
0151R00097	3/4" BALL VALVE (M1, M2, M3)
0151R00081	7/8" BALL VALVE (M4, M5, M6, M7, M8, M9)
0151L00019	ACCUMULATOR (M1, M2, M3, M4, M5)
0151L00021	ACCUMULATOR (M8, M9)
0151L00020	ACCUMULATOR (M6, M7)
0151R00167	BASE VALVE 3/8"
3E600193-1	CAPACITOR (M8, M9)
4SA27006-1	CHECK VALVE (M1, M2, M3)
4SA27011-1	CHECK VALVE (M4, M5, M6, M7)
0156R00006	COMPRESSOR 2YC36MXD (M1, M2, M3)
0156R00007	COMPRESSOR 2YC63TXD (M4, M5)
0156R00008	COMPRESSOR 2YC90FXD (M6, M7)
0156R00005	COMPRESSOR JT100GCVDW@SB (M8, M9)
3P130357-15	CRANKCASE HEATER (M8, M9)
3EA74081-1	CURRENT SENSOR, CHR-6Z-E-X (M8, M9)
10625738	FAN BLADE 26" ALUM CCW
3P356931-1	FAN MOTOR
3P381424-2	HIGH PRESSURE SWITCH
2P346080-1	NF PCB (M6, M7, M8, M9)
0151R00144	OIL SEPARATOR
0272R00978	PCB ASSY (M4, M5)
0272R00976	PCB ASSY (M1, M2, M3)
0272R00981	PCB ASSY (M6, M7)
0272R00994	PCB ASSY (M8, M9)
2P361564-1	PCB, FAN DRIVE, INVERTER (M8, M9)
3E750074-1	POWER CONDITIONER (M1, M2, M3, M4, M5)
3P362914-1	POWER CONDITIONER (M8, M9)
3S481010-1	PRESSURE SENSOR
0130M00568	Shared data (M4, M5)
0130M00569	Shared data (M6, M7)
0130M00570	Shared data (M8, M9)
0130M00567	Shared data (M1, M2, M3)
0130M00186	TERMINAL BLOCK
3P381576-1	THERMISTOR AMBIENT
3P381575-2	THERMISTOR ASSY

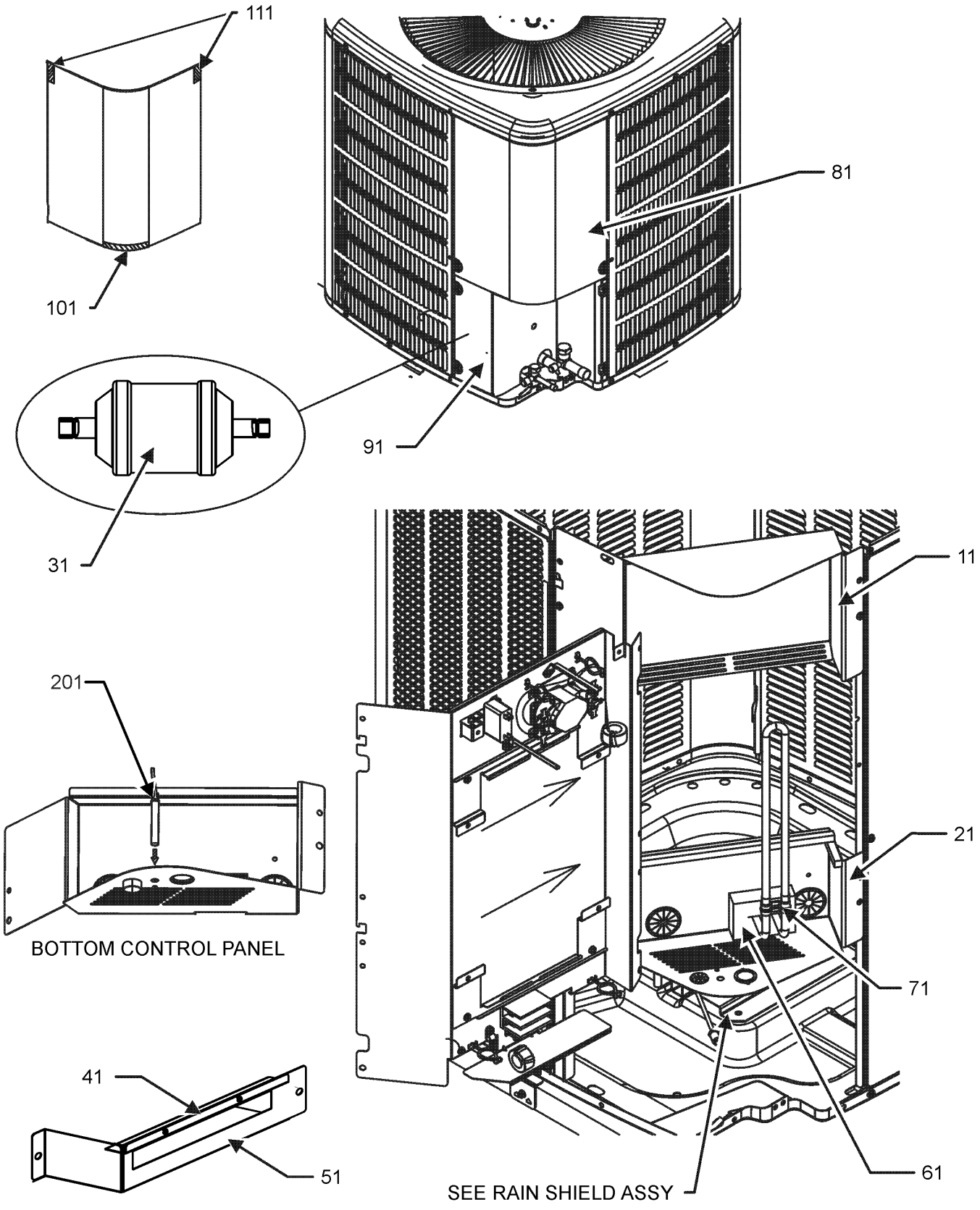
SPECIAL PARTS

0161R00086	CAP, GRILL
0161R00087	NAMEPLATE, AMANA LOGO
0361R00000	THERMAL GREASE (M1, M2, M3, M4, M5, M6, M7)

Expanded Model Nomenclature

M1 - AVXC200241AD
M2 - AVXC200241AE
M3 - AVXC200241AF
M4 - AVXC200361AD
M5 - AVXC200361AE
M6 - AVXC200481AD
M7 - AVXC200481AE
M8 - AVXC200601AD
M9 - AVXC200601AE

Control Box Assembly



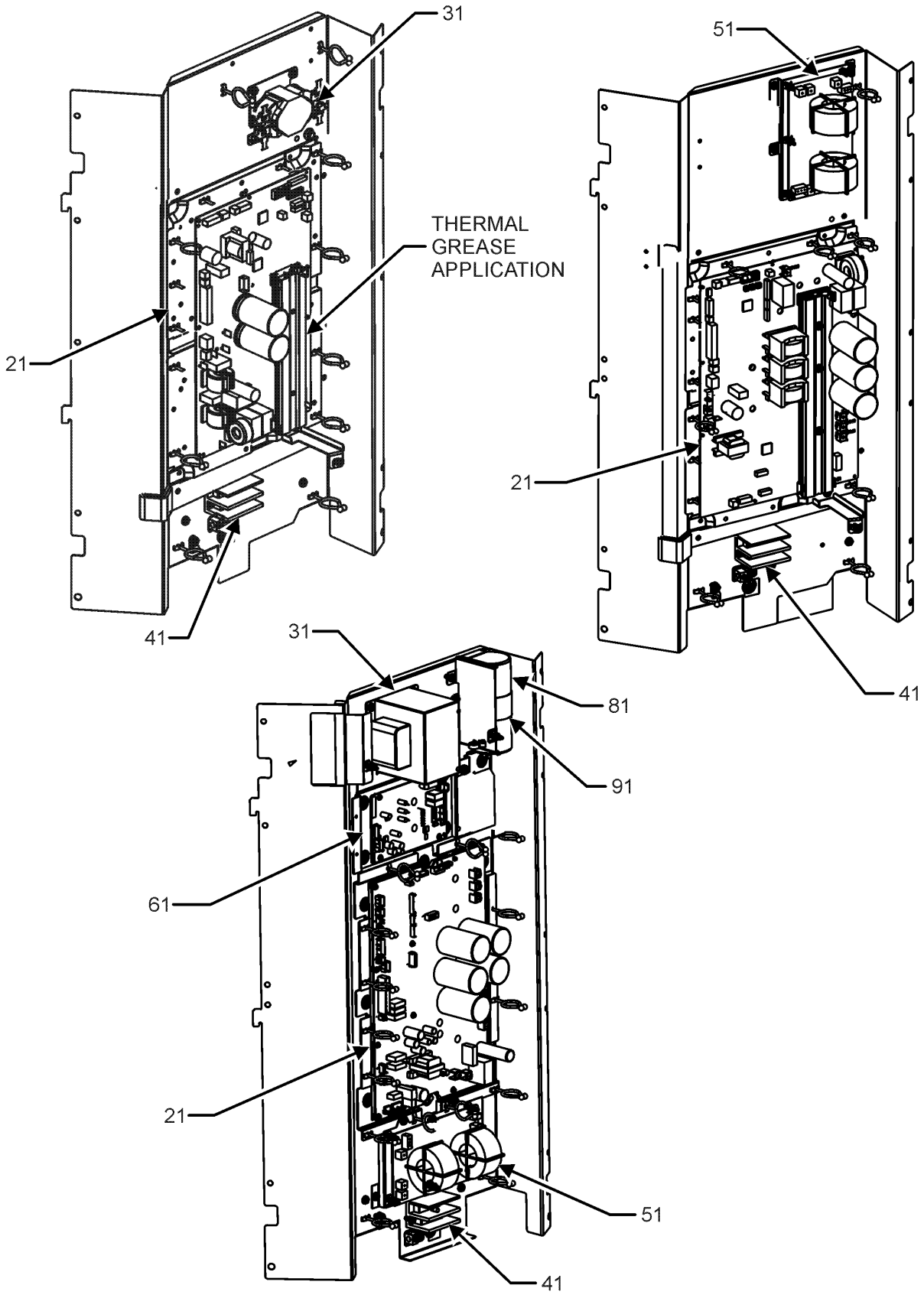
Control Box Assembly

Ref. No:	Part No:	Description:
Image 1:		
11	0121R00519PDG	TOP CONTROL PANEL (M8, M9)
11	0272R01007PDG	TOP CONTROL PANEL ASSY (M1, M2, M3, M4, M5, M6, M7)
21	0121R00521PDG	BOTTOM CONTROL PANEL ASSY
31	20485201	BI-FLOW FILTER DRIER
41	0121R00562	RAIN SHIELD COVER
51	0121R00563	RAIN SHIELD BRACKET
61	0154R00016	GASKET - CONTROL PANEL
71	4P305027-1	COOLING LOOP SEPARATOR (M1, M2, M3, M4, M5, M6, M7)
81	0121R00380PDG	CONTROL COVER (M1, M2, M3, M4, M5)
81	0121R00517PDG	CONTROL COVER (M6, M7, M8, M9)
91	0121R00379PDG	PANEL, LOWER ACCESS
101	0154R00023	GASKET, CONTROL PANEL COVER
111	0154R00017	GASKET - CONTROL PANEL (QTY 2)
201	3P381576-1	THERMISTOR AMBIENT
NS	0161R00086	CAP, GRILL
NS	0154R00015	GASKET - CONTROL PANEL (QTY 2)
NS	0161R00087	NAMEPLATE, AMANA LOGO

Expanded Model Nomenclature

M1 - AVXC200241AD
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M4 - AVXC200361AD
M5 - AVXC200361AE
M6 - AVXC200481AD
M7 - AVXC200481AE
M8 - AVXC200601AD
M9 - AVXC200601AE

Control Panel Assembly



Control Panel Assembly

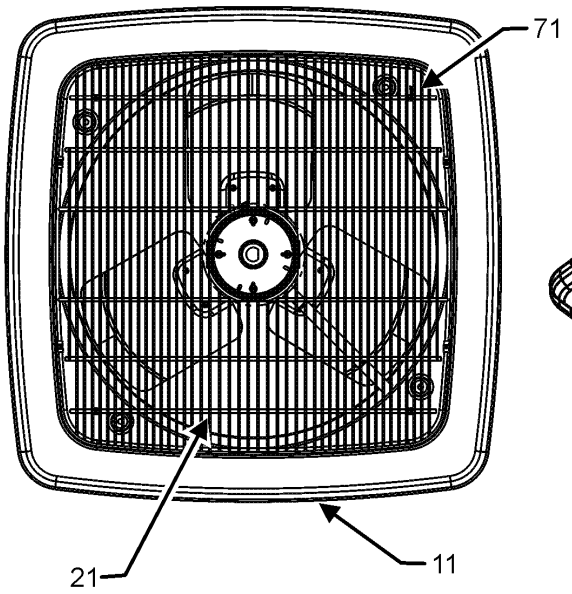
Ref. No:	Part No:	Description:
Image 1:		
21	0272R00976	PCB ASSY (M1, M2, M3)
21	0272R00978	PCB ASSY (M4, M5)
21	0272R00981	PCB ASSY (M6, M7)
21	0272R00994	PCB ASSY (M8, M9)
31	3E750074-1	POWER CONDITIONER (M1, M2, M3, M4, M5)
31	3P362914-1	POWER CONDITIONER (M8, M9)
41	0130M00186	TERMINAL BLOCK
51	2P346080-1	NF PCB (M6, M7, M8, M9)
61	2P361564-1	PCB, FAN DRIVE, INVERTER (M8, M9)
81	3E600193-1	CAPACITOR (M8, M9)
91	4P171335-1	CAPACITOR STRAP (M8, M9)
NS	3EA74081-1	CURRENT SENSOR, CHR-6Z-E-X (M8, M9)
NS	3P263839-1	FERRITE CORE
NS	0163M00075	FLANGE NUT, SERRATED
NS	0154R00026	GASKET - CONTROL PANEL
NS	0154R00018	GASKET - MOUNTING PANEL (M1, M2, M3, M4, M5, M6, M7)
NS	0154R00019	GASKET - MOUNTING PANEL (M1, M2, M3, M4, M5, M6, M7)
NS	0154R00024	GASKET, CONTROL PANEL (M8, M9)
NS	0154R00025	GASKET, CONTROL PANEL (M8, M9)
NS	0163M00092	SCREW, HWH, 10-24X.500,BZ,SLOT
NS	0130M00567	Shared data (M1, M2, M3)
NS	0130M00568	Shared data (M4, M5)
NS	0130M00569	Shared data (M6, M7)
NS	0130M00570	Shared data (M8, M9)
NS	0361R00000	THERMAL GREASE (M1, M2, M3, M4, M5, M6, M7)
NS	3P381575-2	THERMISTOR ASSY
NS	0130M00210	WIRE HARNESS (M6, M7)
NS	0130M00211	WIRE HARNESS (M6, M7)
NS	0130M00212	WIRE HARNESS (M8, M9)
NS	0130M00213	WIRE HARNESS (M8, M9)
NS	0130M00214	WIRE HARNESS (M8, M9)
NS	0130M00215	WIRE HARNESS (M8, M9)
NS	0130M00217	WIRE HARNESS (M8, M9)
NS	0130M00218	WIRE HARNESS (M8, M9)
NS	0130M00219	WIRE HARNESS (M8, M9)
NS	0130M00220	WIRE HARNESS (M1, M2, M3, M4, M5)
NS	0130M00221	WIRE HARNESS (M1, M2, M3, M4, M5)
NS	0130M00222	WIRE HARNESS (M1, M2, M3, M4, M5)
NS	0130M00227	WIRE HARNESS
NS	0130M00200	WIRE HARNESS ASSY (M8, M9)
NS	0130M00201	WIRE HARNESS ASSY (M8, M9)
NS	0130M00202	WIRE HARNESS ASSY (M8, M9)
NS	0130M00225	WIRE HARNESS ASSY (M8, M9)

Expanded Model Nomenclature

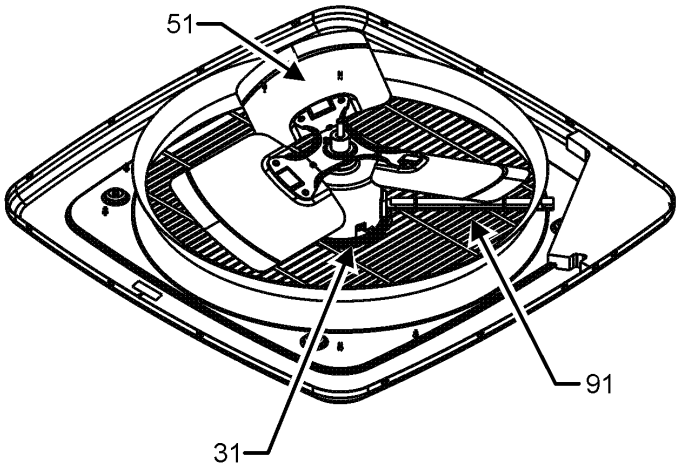
M1 - AVXC200241AD
M2 - AVXC200241AE
M3 - AVXC200241AF
M4 - AVXC200361AD
M5 - AVXC200361AE
M6 - AVXC200481AD
M7 - AVXC200481AE
M8 - AVXC200601AD
M9 - AVXC200601AE

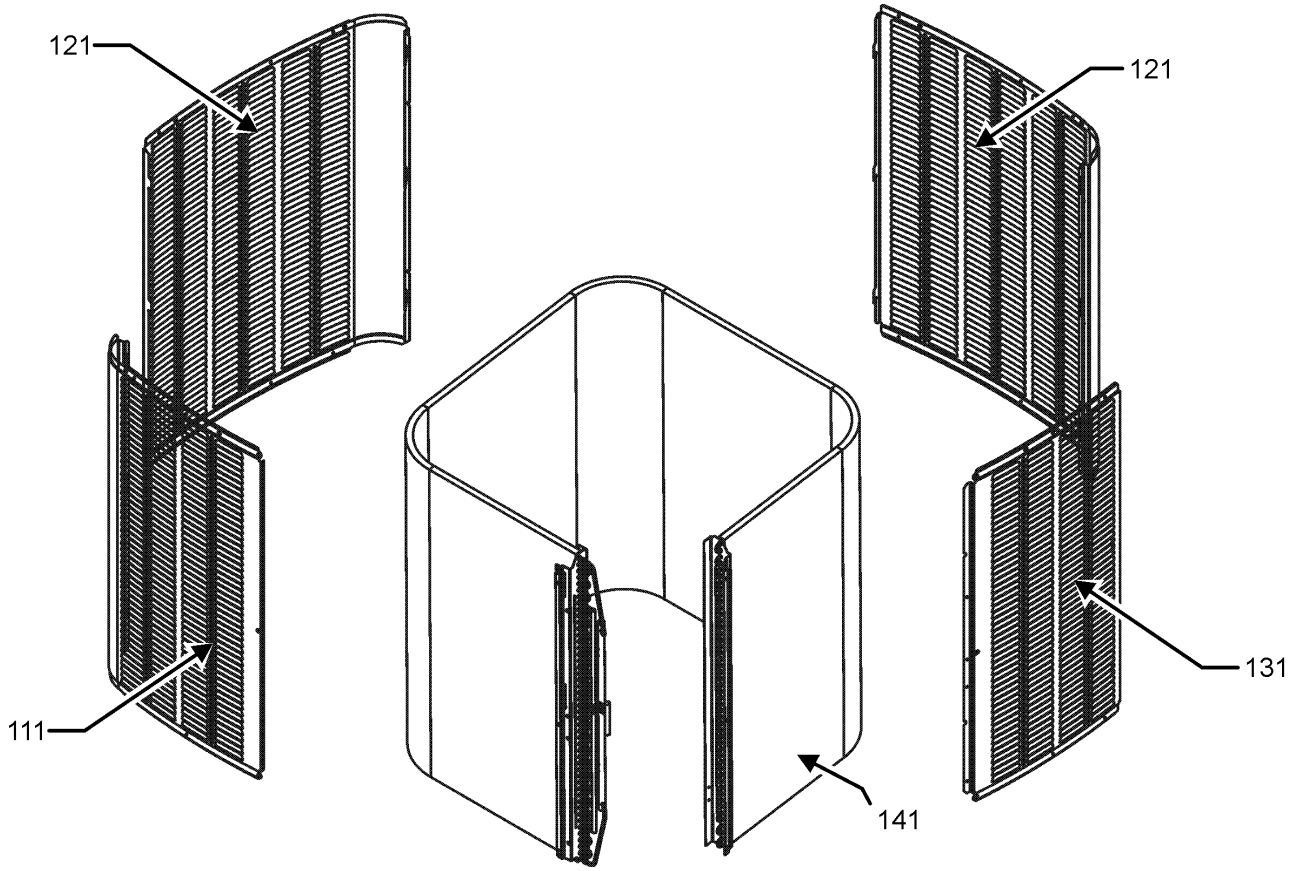
Top and Side Panel Assembly

TOP PANEL ASSEMBLY
TOP VIEW



TOP PANEL ASSEMBLY
BOTTOM VIEW





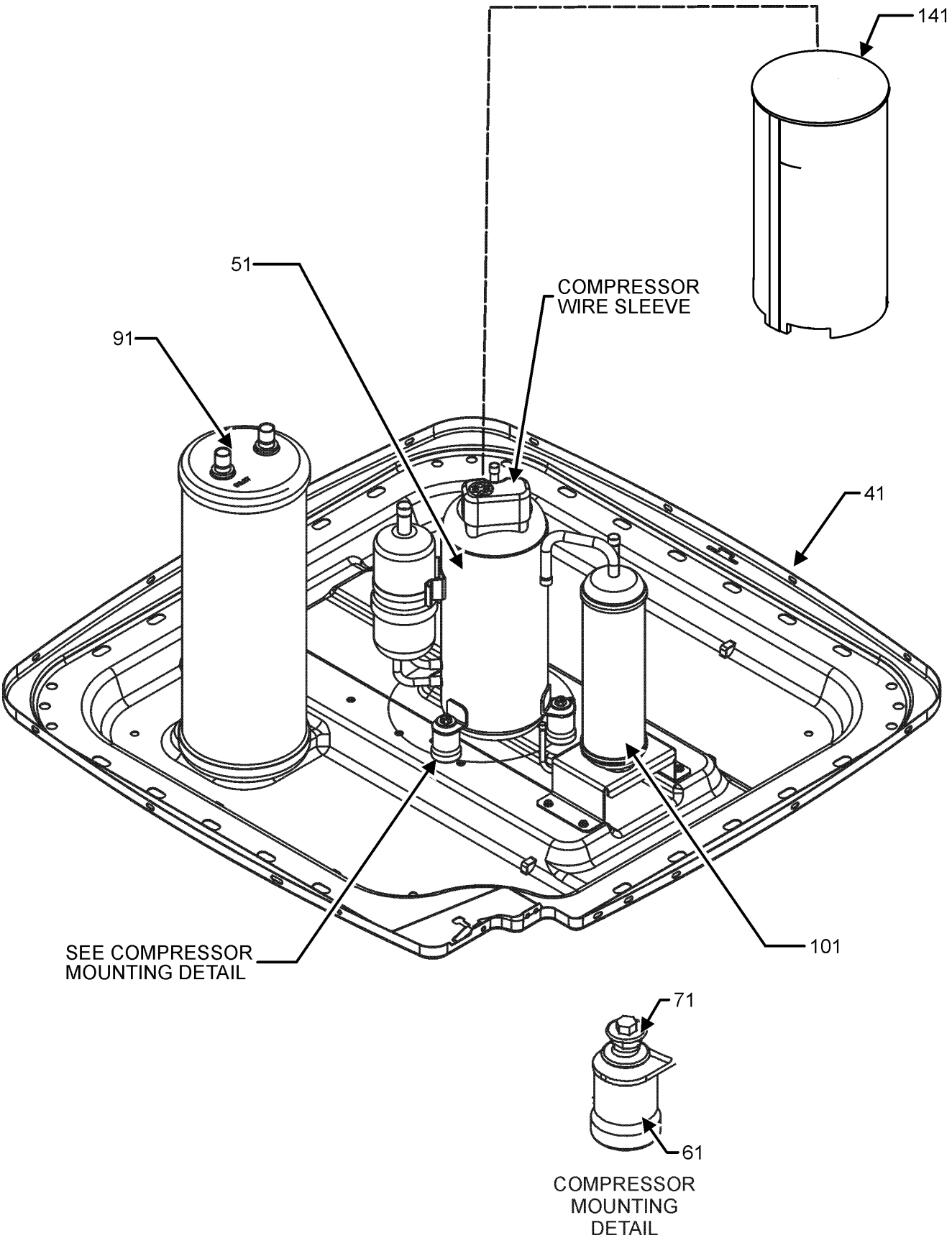
Top and Side Panel Assembly

Ref. No:	Part No:	Description:
Image 1:		
11	0121R00013PDG	PANEL, VENTURI 35" PNT
21	0152R00016	GRILLE, WIRE 35" TOP
31	3P356931-1	FAN MOTOR
51	10625738	FAN BLADE 26" ALUM CCW
71	0163M00003P	SCREW #10 X 1/2, A, SLOT, SR, BLACK (QTY 3)
91	0163M00385	CONDUIT-FLEXIBLE
111	0121R00363LG	PANEL 1, BENT LOUVER ASSY (M1, M2, M3, M4, M5)
111	0121R00513LG	PANEL 1, BENT LOUVER ASSY (M6, M7, M8, M9)
121	0121R00514PLG	PANEL 2, BENT LOUVER 35_39.84 (M6, M7, M8, M9)
121	0121R00364LG	PANEL 2, BENT LOUVER ASSY (M1, M2, M3, M4, M5)
131	0121R00365LG	PANEL 3, PAINTED LOUVER 35 (M1, M2, M3, M4, M5)
131	0121R00515LG	PANEL 3, PAINTED LOUVER 35 (M6, M7, M8, M9)
141	0201R00499	COIL TBG, 36.38xL, 22mm CTC (M1, M2, M3, M4, M5)
141	0201R00503	COIL TBG, 39.85xL, 22mm CTC (M6, M7, M8, M9)
NS	0121R00480	ADAPTER PLATE (M1, M2, M3, M4, M5)
NS	0121R00482	ADAPTER PLATE (M6, M7, M8, M9)

Expanded Model Nomenclature

M1 - AVXC200241AD
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M3 - AVXC200241AF
M4 - AVXC200361AD
M5 - AVXC200361AE
M6 - AVXC200481AD
M7 - AVXC200481AE
M8 - AVXC200601AD
M9 - AVXC200601AE

Base Pan and Compressor Assy



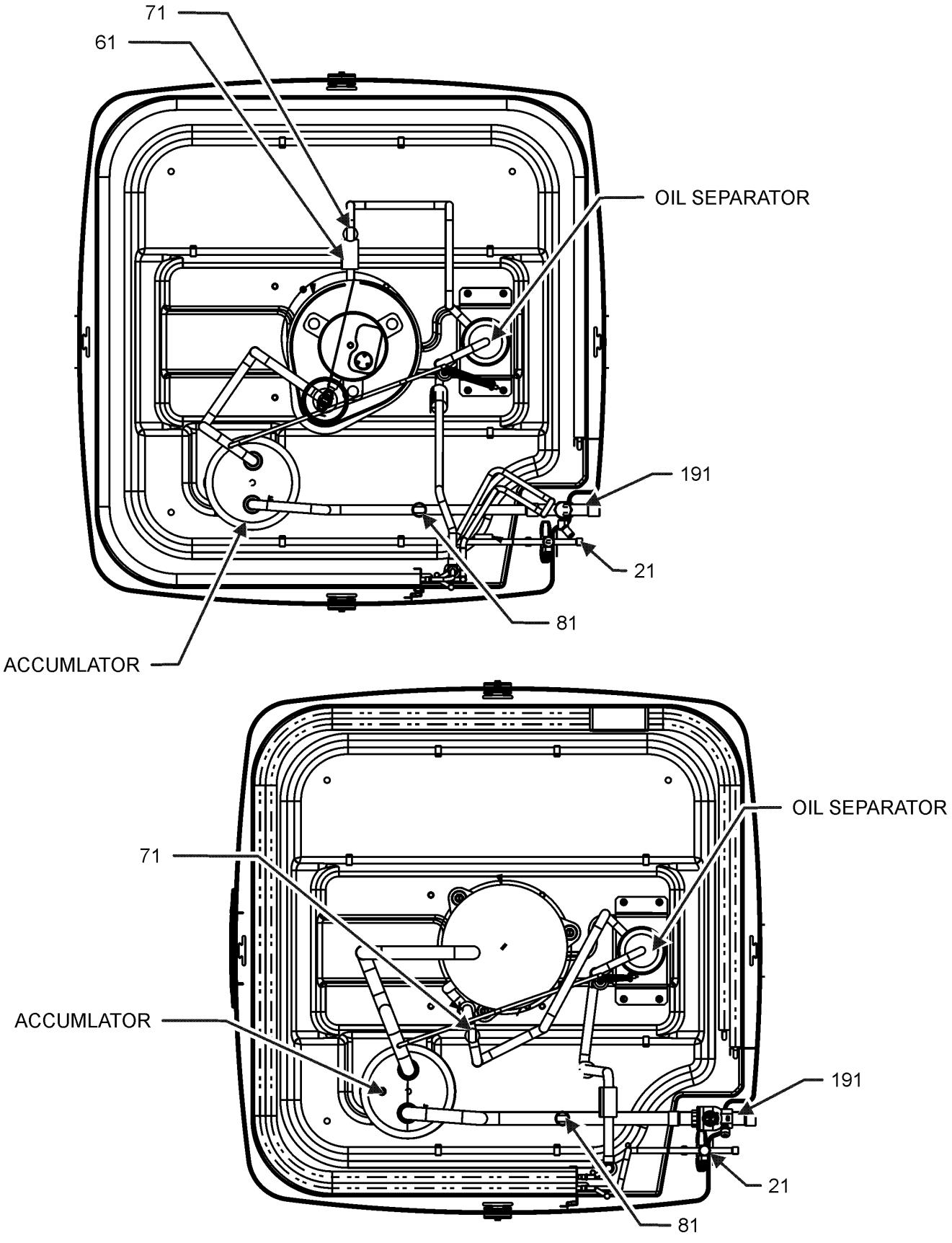
Base Pan and Compressor Assy

Ref. No:	Part No:	Description:
Image 1:		
41	0121R00007PDG	BASE PAN, 35.5" PNT
51	0156R00006	COMPRESSOR 2YC36MXD (M1, M2, M3)
51	0156R00007	COMPRESSOR 2YC63TXD (M4, M5)
51	0156R00008	COMPRESSOR 2YC90FXD (M6, M7)
51	0156R00005	COMPRESSOR JT100GCVDW@SB (M8, M9)
61	0164M00027	RUBBER GROMMET (M4, M5, M6, M7, M8, M9)
61	0164M00028	RUBBER GROMMET (M1, M2, M3)
71	0163R00018	SCREW-SHOULDER TF (M4, M5, M6, M7, M8, M9)
71	0163R00020	SCREW-SHOULDER TF (M1, M2, M3)
91	0151L00019	ACCUMULATOR (M1, M2, M3, M4, M5)
91	0151L00020	ACCUMULATOR (M6, M7)
91	0151L00021	ACCUMULATOR (M8, M9)
101	0151R00144	OIL SEPARATOR
141	0160M00007	Compressor Blanket (M1, M2, M3)
141	0160M00008	Compressor Blanket (M6, M7)
141	0160M00009	Compressor Blanket (M8, M9)
141	0160M00010	compressor blanket (M4, M5)
NS	0163R00023	ACCUMULATOR, NUT
NS	0159R00012	COMPRESSOR WIRE HARNESS (M1, M2, M3, M4, M5)
NS	0159R00013	COMPRESSOR WIRE HARNESS (M6, M7)
NS	0159R00014	COMPRESSOR WIRE HARNESS (M8, M9)
NS	3P130357-15	CRANKCASE HEATER (M8, M9)

Expanded Model Nomenclature

M1 - AVXC200241AD
M2 - AVXC200241AE
M3 - AVXC200241AF
M4 - AVXC200361AD
M5 - AVXC200361AE
M6 - AVXC200481AD
M7 - AVXC200481AE
M8 - AVXC200601AD
M9 - AVXC200601AE

Tubing Assembly



Tubing Assembly

Ref. No:	Part No:	Description:	Ref. No:	Part No:	Description:

Image 1:

21	0151R00167	BASE VALVE 3/8"
61	4PA17856-4	THERMISTOR HOUSING TUBE
71	3P381424-2	HIGH PRESSURE SWITCH
81	3S481010-1	PRESSURE SENSOR
191	0151R00097	3/4" BALL VALVE (M1, M2, M3)
191	0151R00081	7/8" BALL VALVE (M4, M5, M6, M7, M8, M9)
NS	4SA27006-1	CHECK VALVE (M1, M2, M3)
NS	4SA27011-1	CHECK VALVE (M4, M5, M6, M7)
NS	4PA38890-1	MOUNTING SPRING,THERMISTOR (QTY 3)
NS	R3269031-3	OIL RETURN FILTER

Expanded Model Nomenclature

M1 - AVXC200241AD
M2 - AVXC200241AE
M3 - AVXC200241AF
M4 - AVXC200361AD
M5 - AVXC200361AE
M6 - AVXC200481AD
M7 - AVXC200481AE
M8 - AVXC200601AD
M9 - AVXC200601AE