



REPAIR PARTS

AVXC20 Inverter Air Conditioners

AVXC200241AD
AVXC200241AE
AVXC200241AF
AVXC200241AG
AVXC200361AD
AVXC200361AE
AVXC200361AF
AVXC200481AD
AVXC200481AE
AVXC200481AF
AVXC200601AD
AVXC200601AE
AVXC200601AF



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This manual is to be used by qualified technicians only.

This manual replaces RP-A4317B

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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.

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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:

Expanded Model Nomenclature

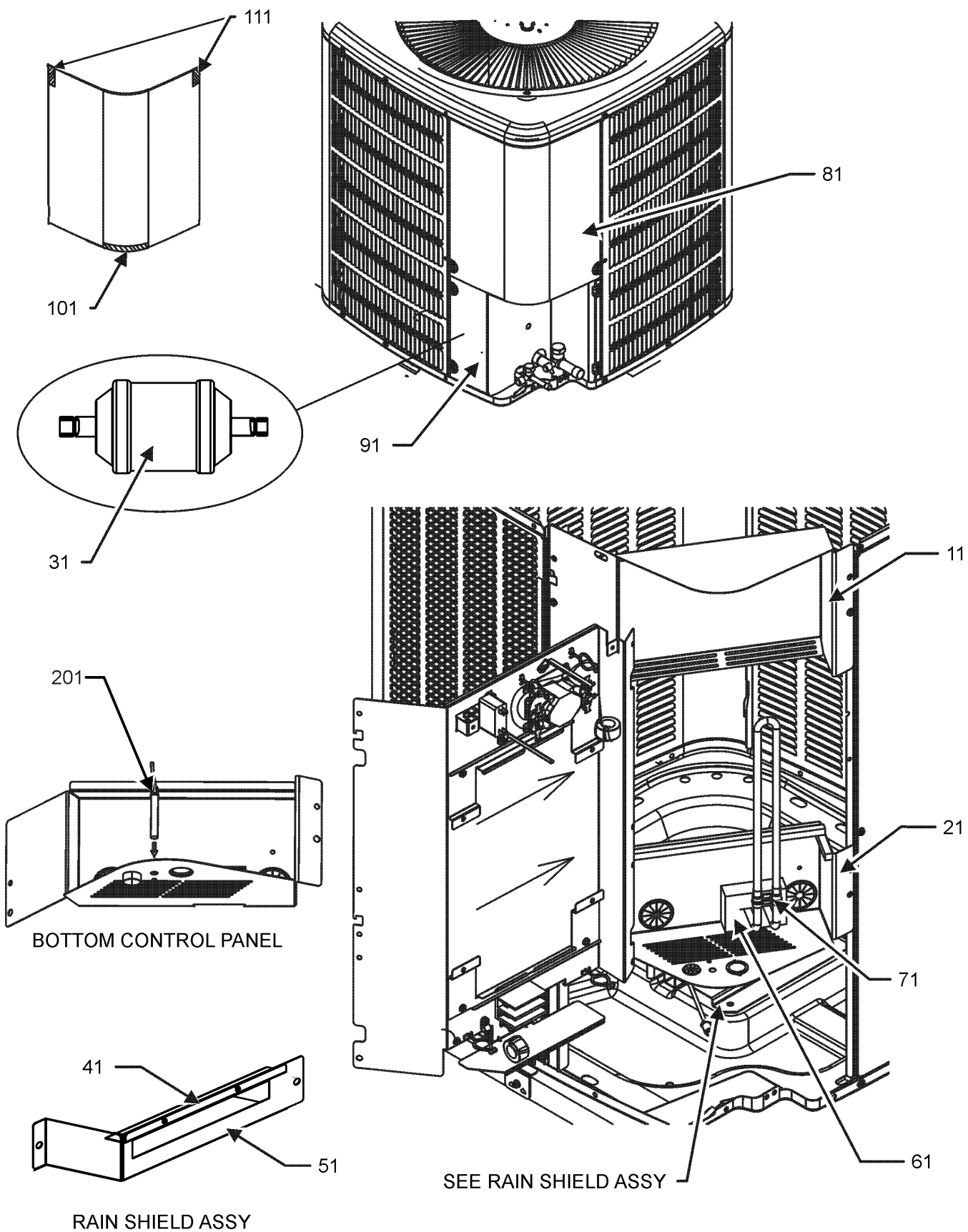
0151R00097	3/4" BALL VALVE (M1, M2, M3, M4)
0151R00081	7/8" BALL VALVE (M5, M6, M7, M8, M9, M10, M11, M12, M13)
0151L00020	ACCUMULATOR (M8, M9, M10)
0151L00019	ACCUMULATOR (M1, M2, M3, M4, M5, M6, M7)
0151L00021	ACCUMULATOR (M11, M12, M13)
0151R00167	BASE VALVE 3/8"
10625738	BLADE -FAN 26" ALUM CCW
3E600193-1	CAPACITOR (M11, M12, M13)
4SA27006-1	CHECK VALVE (M1, M2, M3, M4)
4SA27011-1	CHECK VALVE (M5, M6, M7, M8, M9, M10)
0156R00009	COMPRESSOR 2YC36MXD (M1, M2, M3, M4)
0156R00011	COMPRESSOR 2YC63TXD (M5, M6, M7)
0156R00013	COMPRESSOR 2YC90FXD (M8, M9, M10)
0156R00015	COMPRESSOR JT100GCVDW (M11, M12, M13)
3P130357-15	CRANKCASE HEATER (M11, M12, M13)
3EA74081-1	CURRENT SENSOR, CHR-6Z-E-X (M11, M12, M13)
3P356931-1	FAN MOTOR
3P381424-2	HIGH PRESSURE SWITCH
2P346080-1	NF PCB (M8, M9, M10, M11, M12, M13)
0151R00144	OIL SEPARATOR
0272R01532	PCB ASSY (M13)
0272R01531	PCB ASSY (M10)
0272R01530	PCB ASSY (M7)
0272R01529	PCB ASSY (M4)
0272R00981	PCB assy (M8, M9)
0272R00978	PCB assy (M5, M6)
0272R00976	PCB assy (M1, M2, M3)
0272R00994	PCB assy (M11, M12)
2P361564-1	PCB, FAN DRIVE, INVERTER (M11, M12, M13)
3P362914-1	POWER CONDITIONER (M11, M12, M13)
3E750074-1	POWER CONDITIONER (M1, M2, M3, M4, M5, M6, M7)
3S481010-1	PRESSURE SENSOR
0130M00689	SHARED DATA (M10)
0130M00567	SHARED DATA
0130M00568	SHARED DATA (M5, M6)
0130M00569	SHARED DATA (M8, M9)
0130M00570	SHARED DATA (M11, M12)
0130M00688	SHARED DATA (M7)
0130M00690	SHARED DATA (M13)
0130M00687	SHARED DATA (M4)
0130M00186	TERMINAL BLOCK
3P381576-1	THERMISTOR AMBIENT
3P381575-2	THERMISTOR ASSY

M1 - AVXC200241AD
M2 - AVXC200241AE
M3 - AVXC200241AF
M4 - AVXC200241AG
M5 - AVXC200361AD
M6 - AVXC200361AE
M7 - AVXC200361AF
M8 - AVXC200481AD
M9 - AVXC200481AE
M10 - AVXC200481AF
M11 - AVXC200601AD
M12 - AVXC200601AE
M13 - AVXC200601AF

SPECIAL PARTS

0161R00086	CAP, GRILL
0161R00087	NAMEPLATE, AMANA LOGO
0361R00000	THERMAL GREASE

Control Box Assembly



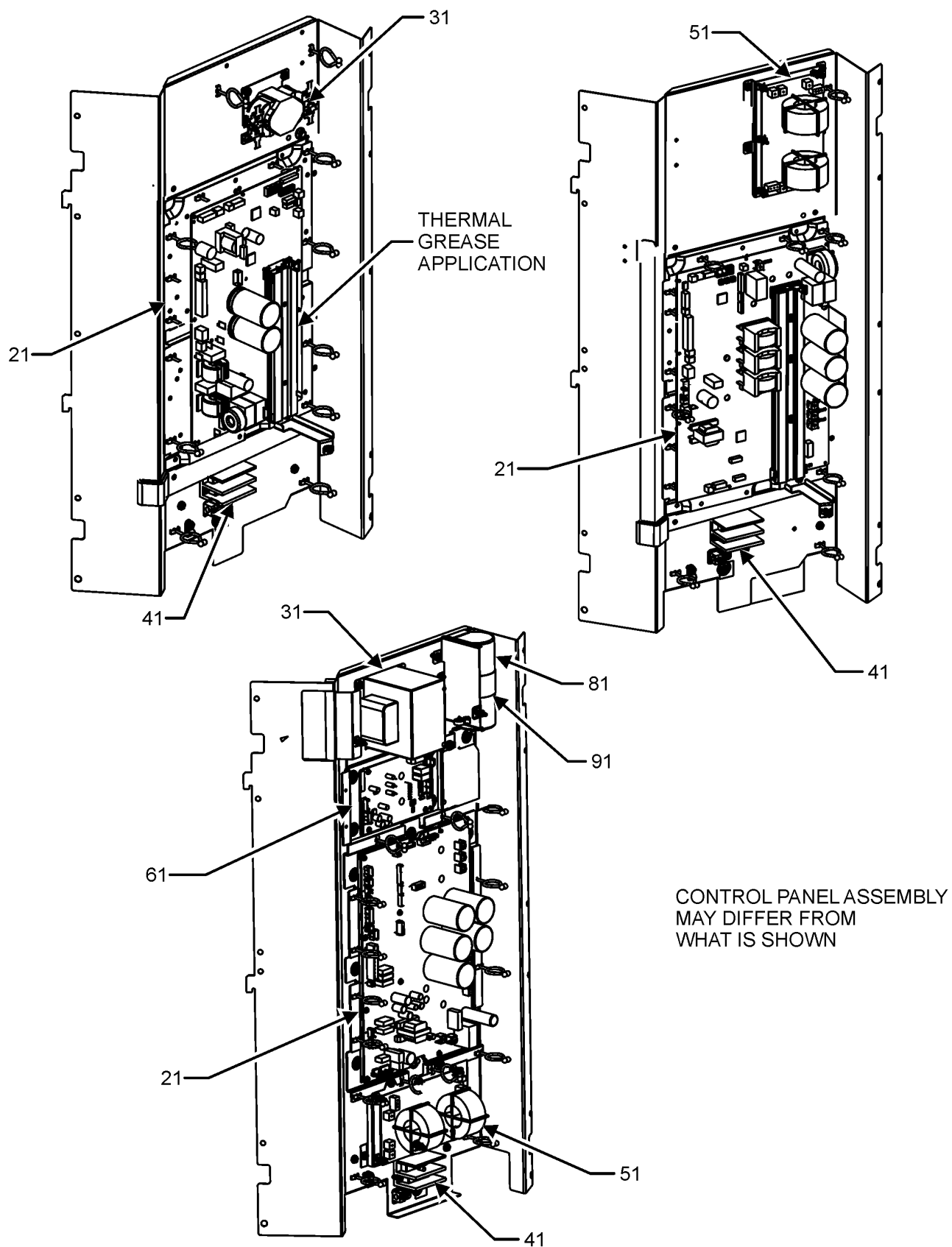
Control Box Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0121R00519PDG		TOP CONTROL PANEL (M11, M12, M13)
11	0272R01007PDG		TOP CONTROL PANEL ASSY (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10)
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, M8, M9, M10)
81	0121R00380PDG		CONTROL COVER (M1, M2, M3, M4, M5, M6, M7)
81	0121R00517PDG		CONTROL COVER (M8, M9, M10, M11, M12, M13)
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
M2 - AVXC200241AE
M3 - AVXC200241AF
M4 - AVXC200241AG
M5 - AVXC200361AD
M6 - AVXC200361AE
M7 - AVXC200361AF
M8 - AVXC200481AD
M9 - AVXC200481AE
M10 - AVXC200481AF
M11 - AVXC200601AD
M12 - AVXC200601AE
M13 - AVXC200601AF

Control Panel Assembly



Control Panel Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

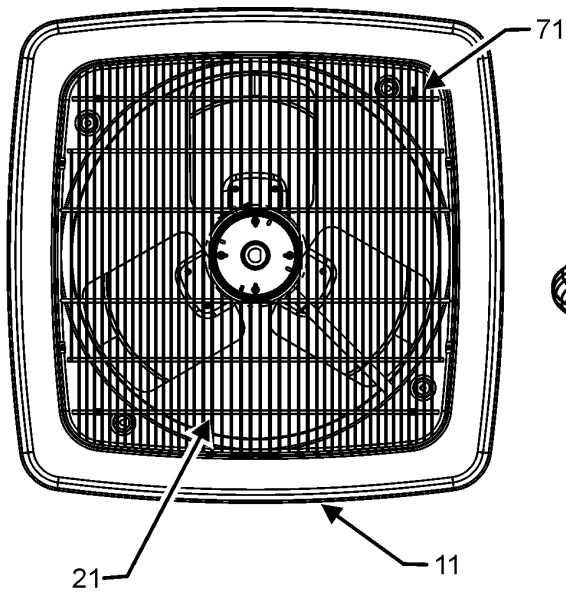
21	0272R00976	PCB assy (M1, M2, M3)
21	0272R00978	PCB assy (M5, M6)
21	0272R00981	PCB assy (M8, M9)
21	0272R00994	PCB assy (M11, M12)
21	0272R01529	PCB ASSY (M4)
21	0272R01530	PCB ASSY (M7)
21	0272R01531	PCB ASSY (M10)
21	0272R01532	PCB ASSY (M13)
31	3E750074-1	POWER CONDITIONER (M1, M2, M3, M4, M5, M6, M7)
31	3P362914-1	POWER CONDITIONER (M11, M12, M13)
41	0130M00186	TERMINAL BLOCK
51	2P346080-1	NF PCB (M8, M9, M10, M11, M12, M13)
61	2P361564-1	PCB, FAN DRIVE, INVERTER (M11, M12, M13)
81	3E600193-1	CAPACITOR (M11, M12, M13)
91	4P171335-1	CAPACITOR STRAP (M11, M12, M13)
NS	3EA74081-1	CURRENT SENSOR, CHR-6Z-E-X (M11, M12, M13)
NS	3P263839-1	FERRITE CORE
NS	0163M00075	FLANGE NUT, SERRATED
NS	0154R00018	GASKET - MOUNTING PANEL (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10)
NS	0154R00019	GASKET - MOUNTING PANEL (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10)
NS	0154R00024	GASKET, CONTROL PANEL (M11, M12, M13)
NS	0154R00025	GASKET, CONTROL PANEL (M11, M12, M13)
NS	0163M00092	SCREW, HWH, 10-24X.500,BZ,SLOT
NS	0130M00567	SHARED DATA
NS	0130M00568	SHARED DATA (M5, M6)
NS	0130M00569	SHARED DATA (M8, M9)
NS	0130M00570	SHARED DATA (M11, M12)
NS	0130M00687	SHARED DATA (M4)
NS	0130M00688	SHARED DATA (M7)
NS	0130M00689	SHARED DATA (M10)
NS	0130M00690	SHARED DATA (M13)
NS	0361R00000	THERMAL GREASE
NS	3P381575-2	THERMISTOR ASSY
NS	0130M00210	WIRE HARNESS (M8, M9, M10)
NS	0130M00211	WIRE HARNESS (M8, M9, M10)
NS	0130M00212	WIRE HARNESS (M11, M12, M13)
NS	0130M00213	WIRE HARNESS (M11, M12, M13)
NS	0130M00214	WIRE HARNESS (M11, M12, M13)
NS	0130M00215	WIRE HARNESS (M11, M12, M13)
NS	0130M00217	WIRE HARNESS (M11, M12, M13)
NS	0130M00218	WIRE HARNESS (M11, M12, M13)
NS	0130M00219	WIRE HARNESS (M11, M12, M13)
NS	0130M00220	WIRE HARNESS (M1, M2, M3, M4, M5, M6, M7)
NS	0130M00221	WIRE HARNESS (M1, M2, M3, M4, M5, M6, M7)
NS	0130M00222	WIRE HARNESS (M1, M2, M3, M4, M5, M6, M7)
NS	0130M00227	WIRE HARNESS
NS	0130M00200	WIRE HARNESS ASSY (M11, M12, M13)
NS	0130M00201	WIRE HARNESS ASSY (M11, M12, M13)
NS	0130M00202	WIRE HARNESS ASSY (M11, M12, M13)
NS	0130M00225	WIRE HARNESS ASSY (M11, M12, M13)

Expanded Model Nomenclature

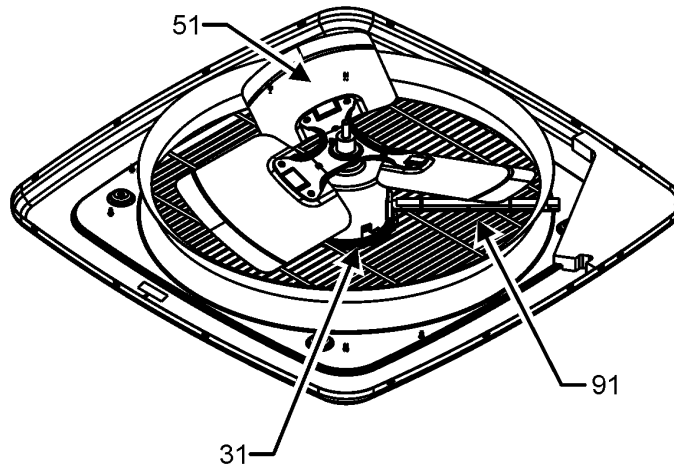
M1 - AVXC200241AD
M2 - AVXC200241AE
M3 - AVXC200241AF
M4 - AVXC200241AG
M5 - AVXC200361AD
M6 - AVXC200361AE
M7 - AVXC200361AF
M8 - AVXC200481AD
M9 - AVXC200481AE
M10 - AVXC200481AF
M11 - AVXC200601AD
M12 - AVXC200601AE
M13 - AVXC200601AF

Top and Side Panel Assembly

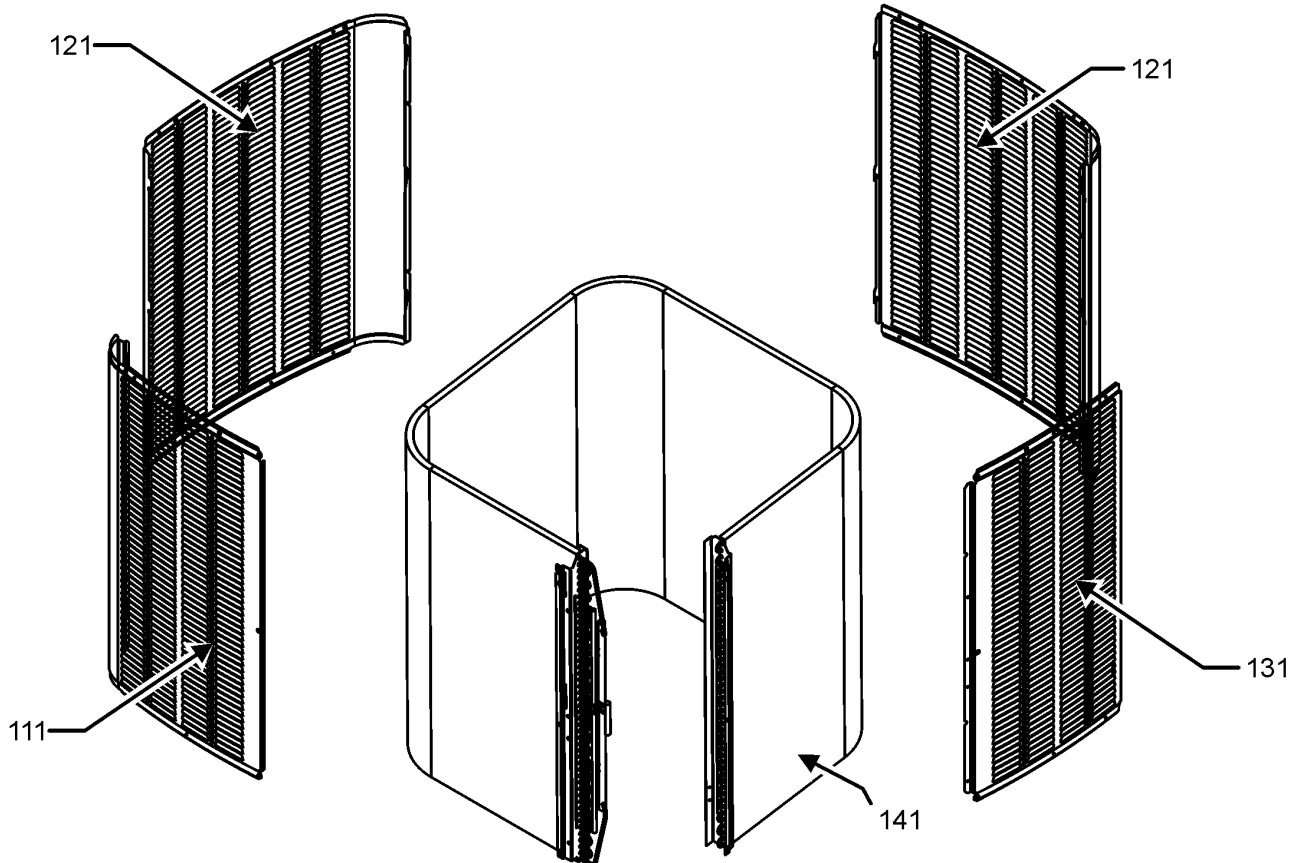
TOP PANEL ASSEMBLY
TOP VIEW



TOP PANEL ASSEMBLY
BOTTOM VIEW



LOUVER PANEL ASSEMBLY



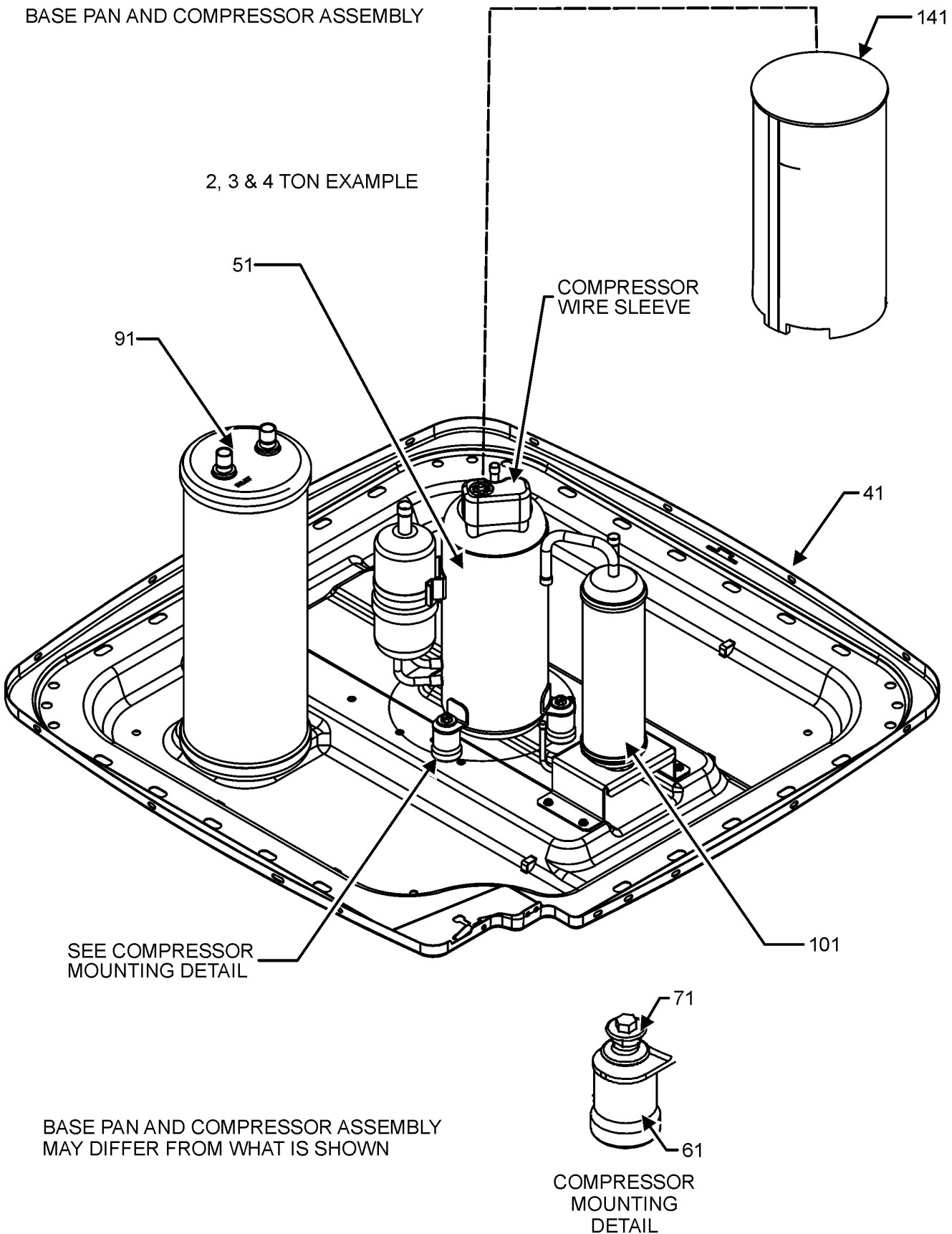
Top and Side Panel Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0121R00013PDG		TOP PANEL, VENTURI 35" PNT
21	0152R00016		GRILLE, WIRE 35" TOP
31	3P356931-1		FAN MOTOR
51	10625738		BLADE -FAN 26" ALUM CCW
71	0163M00003P		SCREW #10 X 1/2, A, SLOT, SR, BLACK (QTY 8)
91	0163M00385		CONDUIT-FLEXIBLE
111	0121R00363LG		PANEL 1, BENT LOUVER ASSY (M1, M2, M3, M4, M5, M6, M7)
111	0121R00513LG		PANEL 1, BENT LOUVER ASSY (M8, M9, M10, M11, M12, M13)
121	0121R00514PLG		PANEL 2, BENT LOUVER 35_39.84 (M8, M9, M10, M11, M12, M13)
121	0121R00364LG		PANEL 2, BENT LOUVER ASSY (M1, M2, M3, M4, M5, M6, M7)
131	0121R00365LG		PANEL 3, PAINTED LOUVER 35 (M1, M2, M3, M4, M5, M6, M7)
131	0121R00515LG		PANEL 3, PAINTED LOUVER 35 (M8, M9, M10, M11, M12, M13)
141	0201R00499		COIL TBG, 36.38xL, 22mm CTC (M1, M2, M3, M4, M5, M6, M7)
141	0201R00503		COIL TBG, 39.85xL, 22mm CTC (M8, M9, M10, M11, M12, M13)
NS	0121R00480		ADAPTER PLATE (M1, M2, M3, M4, M5, M6, M7)
NS	0121R00482		ADAPTER PLATE (M8, M9, M10, M11, M12, M13)
NS	0154R00026		GASKET - CONTROL PANEL

Expanded Model Nomenclature

M1 - AVXC200241AD
M2 - AVXC200241AE
M3 - AVXC200241AF
M4 - AVXC200241AG
M5 - AVXC200361AD
M6 - AVXC200361AE
M7 - AVXC200361AF
M8 - AVXC200481AD
M9 - AVXC200481AE
M10 - AVXC200481AF
M11 - AVXC200601AD
M12 - AVXC200601AE
M13 - AVXC200601AF

Base Pan and Compressor Assy



Base Pan and Compressor Assy

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
41	0121R00007PDG		BASE PAN, 35.5" PNT
51	0156R00009		COMPRESSOR 2YC36MXD (M1, M2, M3, M4)
51	0156R00011		COMPRESSOR 2YC63TXD (M5, M6, M7)
51	0156R00013		COMPRESSOR 2YC90FXD (M8, M9, M10)
51	0156R00015		COMPRESSOR JT100GCVDW (M11, M12, M13)
61	0164M00027		RUBBER GROMMET (M5, M6, M7, M8, M9, M10, M11, M12, M13)
61	0164M00028		RUBBER GROMMET (M1, M2, M3, M4)
71	0163R00018		SCREW-SHOULDER TF (M5, M6, M7, M8, M9, M10, M11, M12, M13)
71	0163R00020		SCREW-SHOULDER TF (M1, M2, M3, M4)
91	0151L00019		ACCUMULATOR (M1, M2, M3, M4, M5, M6, M7)
91	0151L00020		ACCUMULATOR (M8, M9, M10)
91	0151L00021		ACCUMULATOR (M11, M12, M13)
101	0151R00144		OIL SEPARATOR
141	0160M00007		Compressor Blanket (M1, M2, M3, M4)
141	0160M00008		Compressor Blanket (M8, M9, M10)
141	0160M00009		Compressor Blanket (M11, M12, M13)
141	0160M00010		compressor blanket (M5, M6, M7)
NS	0163R00023		ACCUMULATOR, NUT
NS	0159R00012		COMPRESSOR WIRE HARNESS (M1, M2, M3, M4, M5, M6, M7)
NS	0159R00013		COMPRESSOR WIRE HARNESS (M8, M9, M10)
NS	0159R00014		COMPRESSOR WIRE HARNESS (M11, M12, M13)
NS	3P130357-15		CRANKCASE HEATER (M11, M12, M13)

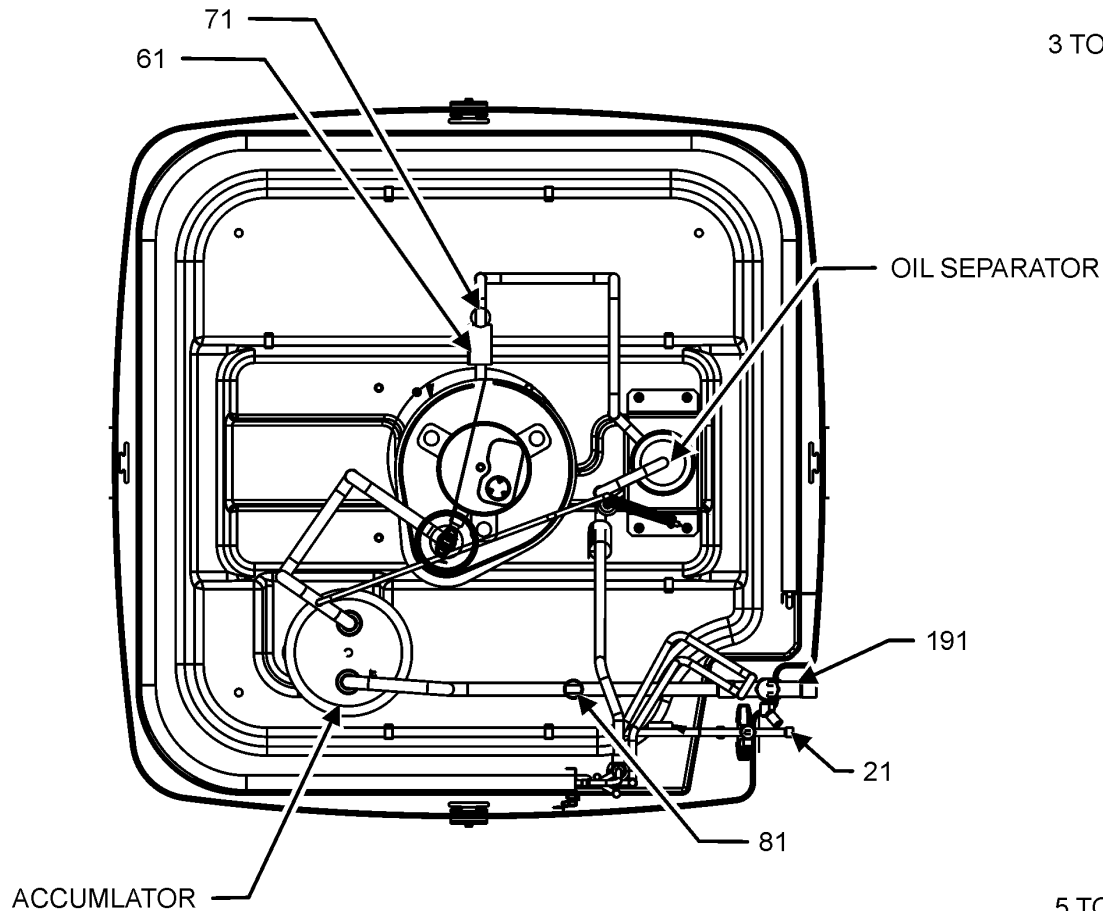
Expanded Model Nomenclature

M1 - AVXC200241AD
M2 - AVXC200241AE
M3 - AVXC200241AF
M4 - AVXC200241AG
M5 - AVXC200361AD
M6 - AVXC200361AE
M7 - AVXC200361AF
M8 - AVXC200481AD
M9 - AVXC200481AE
M10 - AVXC200481AF
M11 - AVXC200601AD
M12 - AVXC200601AE
M13 - AVXC200601AF

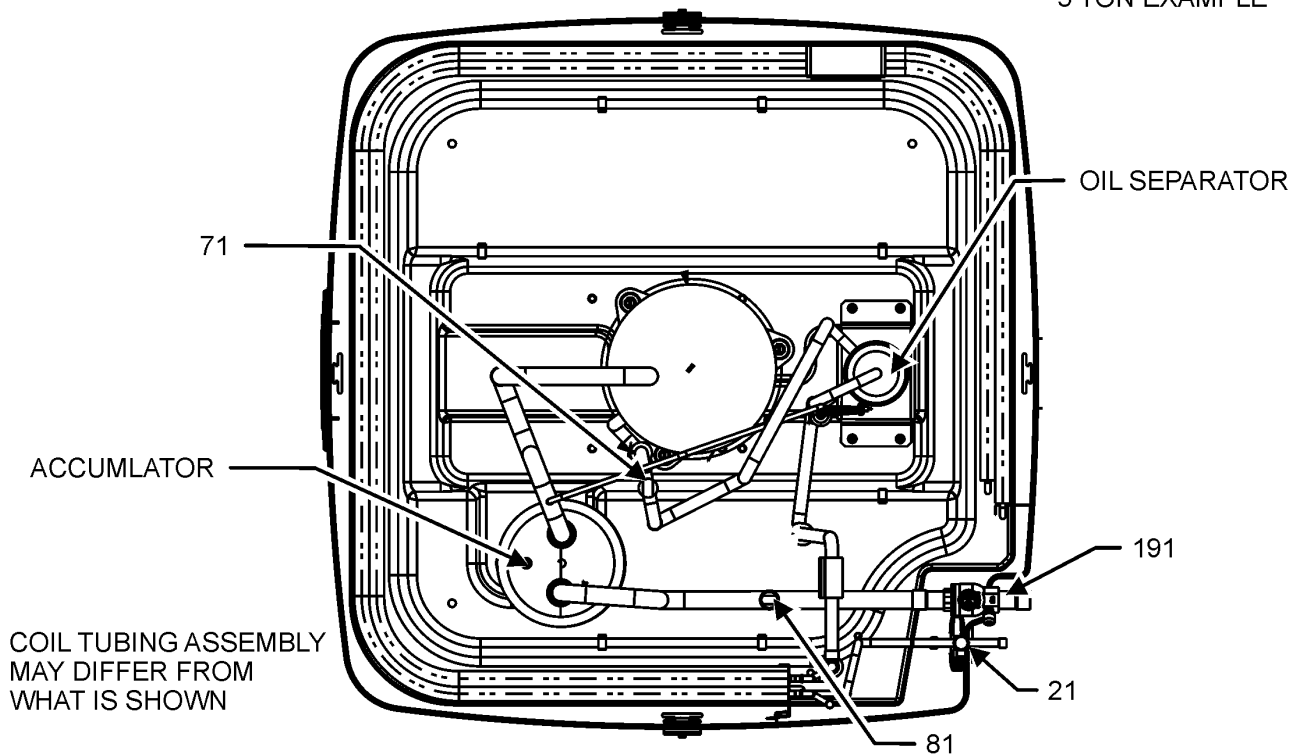
Tubing Assembly

COIL TUBING ASSEMBLY

3 TON EXAMPLE



5 TON EXAMPLE



Tubing Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: 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, M4)
191	0151R00081	7/8" BALL VALVE (M5, M6, M7, M8, M9, M10, M11, M12, M13)
NS	4SA27006-1	CHECK VALVE (M1, M2, M3, M4)
NS	4SA27011-1	CHECK VALVE (M5, M6, M7, M8, M9, M10)
NS	R3269031-3	FILTER
NS	4PA38890-1	MOUNTING SPRING, THERMISTOR (QTY 3)

Expanded Model Nomenclature

M1 - AVXC200241AD
M2 - AVXC200241AE
M3 - AVXC200241AF
M4 - AVXC200241AG
M5 - AVXC200361AD
M6 - AVXC200361AE
M7 - AVXC200361AF
M8 - AVXC200481AD
M9 - AVXC200481AE
M10 - AVXC200481AF
M11 - AVXC200601AD
M12 - AVXC200601AE
M13 - AVXC200601AF