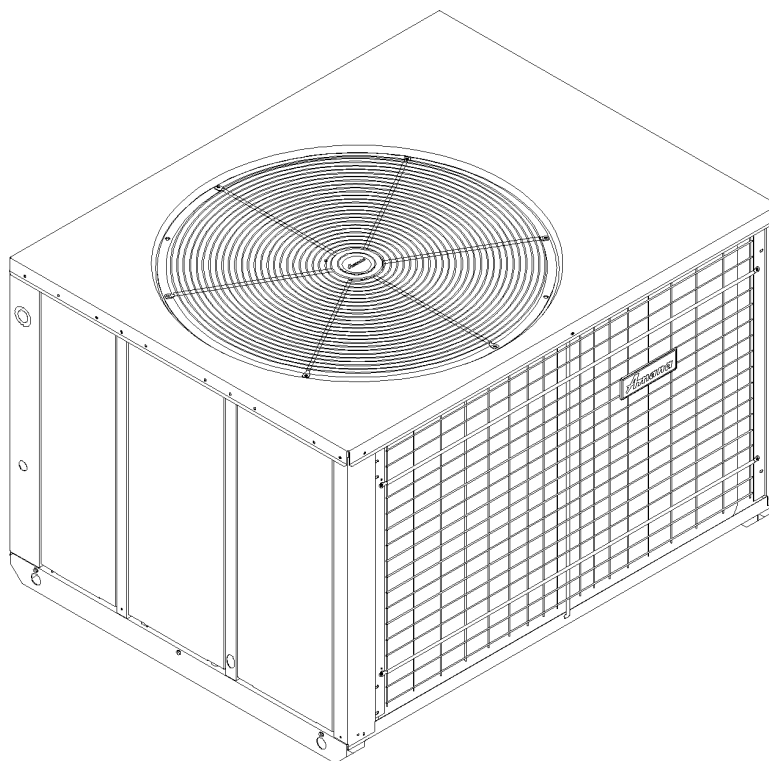


PHD24-36CC/C02E1/1 Package Heat Pump

PHD24C02E	P1235701C
PHD24C02E1	P1239706C
PHD24C02E1	P1239711C
PHD24CC2E	P1228201C
PHD24CC2E	P1235901C
PHD24CC2E1	P1240004C
PHD24CC2E1	P1240007C
PHD30C02E	P1235702C
PHD30C02E1	P1239707C
PHD30CC2E	P1228202C
PHD30CC2E	P1235902C
PHD30CC2E1	P1240005C
PHD36C02E	P1235703C
PHD36C02E1	P1239708C
PHD36CC2E	P1228203C
PHD36CC2E	P1235903C
PHD36CC2E1	P1240006C



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This manual is to be used by qualified technicians only.

This manual replaces RP6312003 Rev. 1

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Important Information

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Functional Parts List	3
Illustration and Parts	4 - 11

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

Rev. 2: Corrected compressor part numbers for M1-M5.

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:

Consumer Affairs Department
Goodman 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 Company, L.P.
7401 Security Way
Houston, Texas 77040
713-861-2500-Telephone
713-863-2382-Facsimile

Functional Parts

Part

No:

Description:

Expanded Model Nomenclature

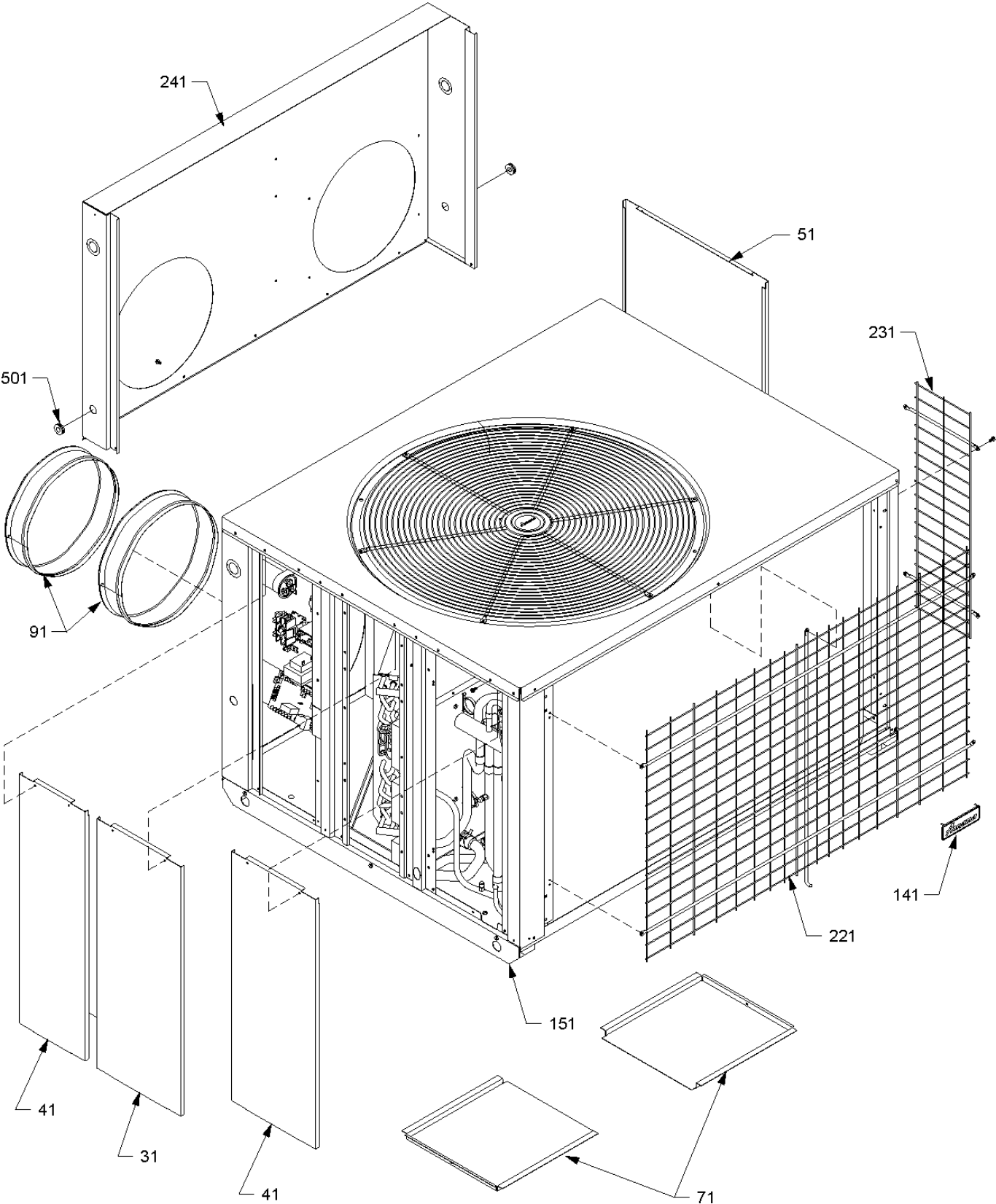
20013001S	BLOWER MOTOR (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)
20013002S	BLOWER MOTOR (M3, M6, M9, M12, M16)
PCBFM103S	BOARD, ELECTRONIC BLOWER TIME DELAY RELAY
CAP100000370VAS	CAPACITOR 10/370V [BLOWER]
CAP075350370RS	CAPACITOR 7.5/35/370V (M13, M17)
CAP075400370RSS	CAPACITOR 7.5/40/370V (M1, M4, M7, M10, M14)
CAP075450370RSS	CAPACITOR 7.5/45/370V (M2, M3, M5, M6, M8, M9, M11, M12, M15, M16)
ZR22K4PFV930	COMPRESSOR 22000, 208/230/60/1 (M1, M4, M7, M10, M14)
ZR22K4PFV930	COMPRESSOR 22000, 208/230/60/1 (M13, M17)
ZR28K3PFV930	COMPRESSOR 28500, 208/230/60/1 (M2, M5, M8, M11, M15)
ZR32K3PFV930	COMPRESSOR ZR32K3PFV230 (M3, M6, M9, M12, M16)
22308302	CONTACTOR 30 AMP (M4, M7, M10, M14)
C6170002	CONTACTOR 30 AMP (M1, M2, M3, M5, M6, M8, M9, M11, M12, M13, M15, M16, M17)
C6453313	CUT-OUT SWITCH, LOW PRESSURE (M1, M2, M3)
C6453316	CUT-OUT SWITCH, LOW PRESSURE (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17)
20214303S	DEFROST CONTROL
11112805S	FAN MOTOR
10135601	RELAY
20244002	TERMINAL BOARD (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17)
11120302	TRANSFORMER

M1 - PHD24CC2E	P1228201C
M2 - PHD30CC2E	P1228202C
M3 - PHD36CC2E	P1228203C
M4 - PHD24C02E	P1235701C
M5 - PHD30C02E	P1235702C
M6 - PHD36C02E	P1235703C
M7 - PHD24CC2E	P1235901C
M8 - PHD30CC2E	P1235902C
M9 - PHD36CC2E	P1235903C
M10 - PHD24C02E1	P1239706C
M11 - PHD30C02E1	P1239707C
M12 - PHD36C02E1	P1239708C
M13 - PHD24C02E1	P1239711C
M14 - PHD24CC2E1	P1240004C
M15 - PHD30CC2E1	P1240005C
M16 - PHD36CC2E1	P1240006C
M17 - PHD24CC2E1	P1240007C

SPECIAL PARTS

10730418	INSTALLATION INSTRUCTIONS (M4, M5, M6, M10, M11, M12, M13)
10730415	INSTALLATION INSTRUCTIONS (M1, M2, M3, M7, M8, M9, M14, M15, M16, M17)
20515501	NAMEPLATE
RP6312003	REPAIR PARTS MANUAL
10500218	USERS MANUAL

Outer Cabinet



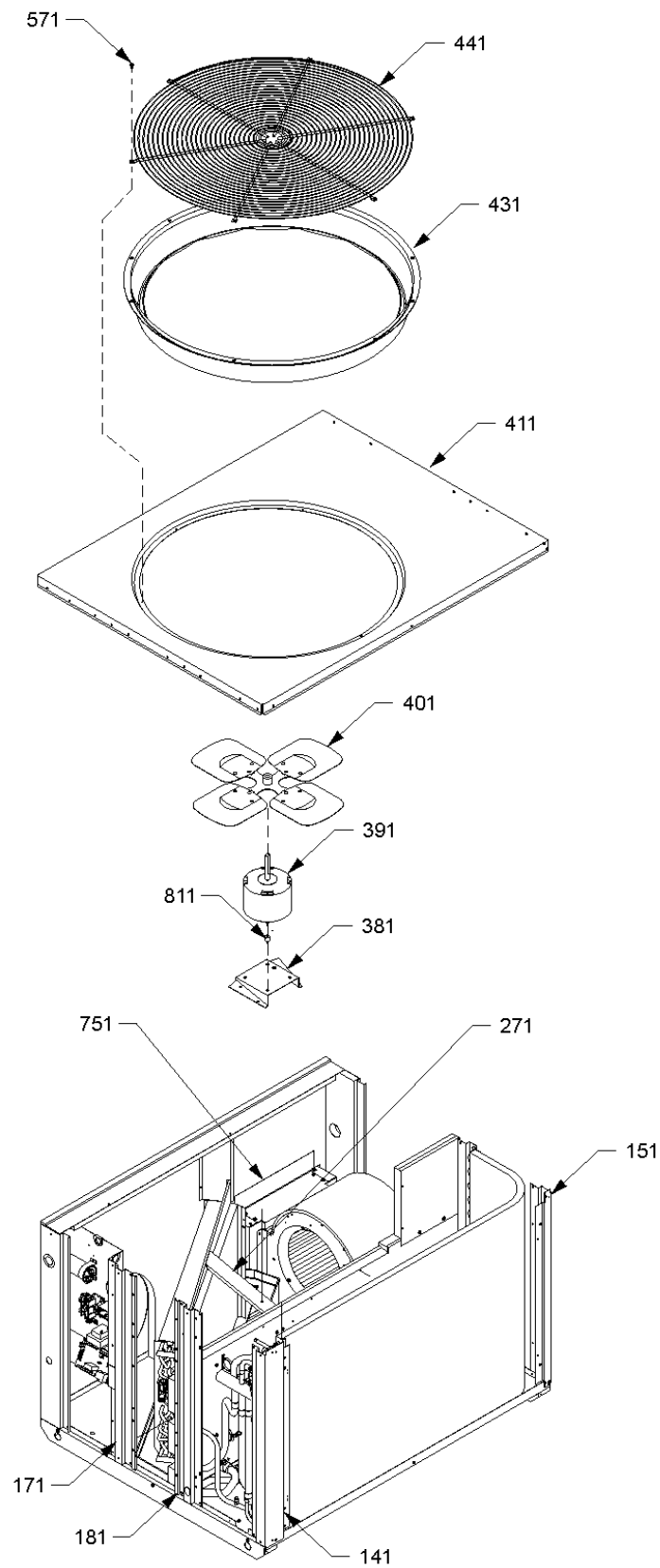
Outer Cabinet

Ref. Part			Ref. Part		
No:	No:	Description:	No:	No:	Description:
Image 1:					
31	11099009	CABINET DOOR (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)			
31	11099013	CABINET DOOR (M3, M6, M9, M12, M16)			
41	11099010	CABINET DOOR (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)			
41	11099014	CABINET DOOR (M3, M6, M9, M12, M16)			
51	11099011	CABINET DOOR (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)			
51	11099015	CABINET DOOR (M3, M6, M9, M12, M16)			
71	20001101	DUCT COVER (QTY 2)			
91	20014201	DUCT TRANSITION (QTY 2)			
141	20515501	NAMEPLATE			
151	20001202	BASEPAN			
221	20199703	FLAT GRILLE (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)			
221	20199704	FLAT GRILLE (M3, M6, M9, M12, M16)			
231	11184705	FLAT GRILLE (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)			
231	11184706	FLAT GRILLE (M3, M6, M9, M12, M16)			
241	20001304	BACK PANEL (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)			
241	20001306	BACK PANEL (M3, M6, M9, M12, M16)			
NS	C6470601	GAGE PORT (M10, M11, M12, M13, M14, M15, M16, M17)			

Expanded Model Nomenclature

M1 - PHD24CC2E	P1228201C
M2 - PHD30CC2E	P1228202C
M3 - PHD36CC2E	P1228203C
M4 - PHD24C02E	P1235701C
M5 - PHD30C02E	P1235702C
M6 - PHD36C02E	P1235703C
M7 - PHD24CC2E	P1235901C
M8 - PHD30CC2E	P1235902C
M9 - PHD36CC2E	P1235903C
M10 - PHD24C02E1	P1239706C
M11 - PHD30C02E1	P1239707C
M12 - PHD36C02E1	P1239708C
M13 - PHD24C02E1	P1239711C
M14 - PHD24CC2E1	P1240004C
M15 - PHD30CC2E1	P1240005C
M16 - PHD36CC2E1	P1240006C
M17 - PHD24CC2E1	P1240007C

Top Assy/Cabinet



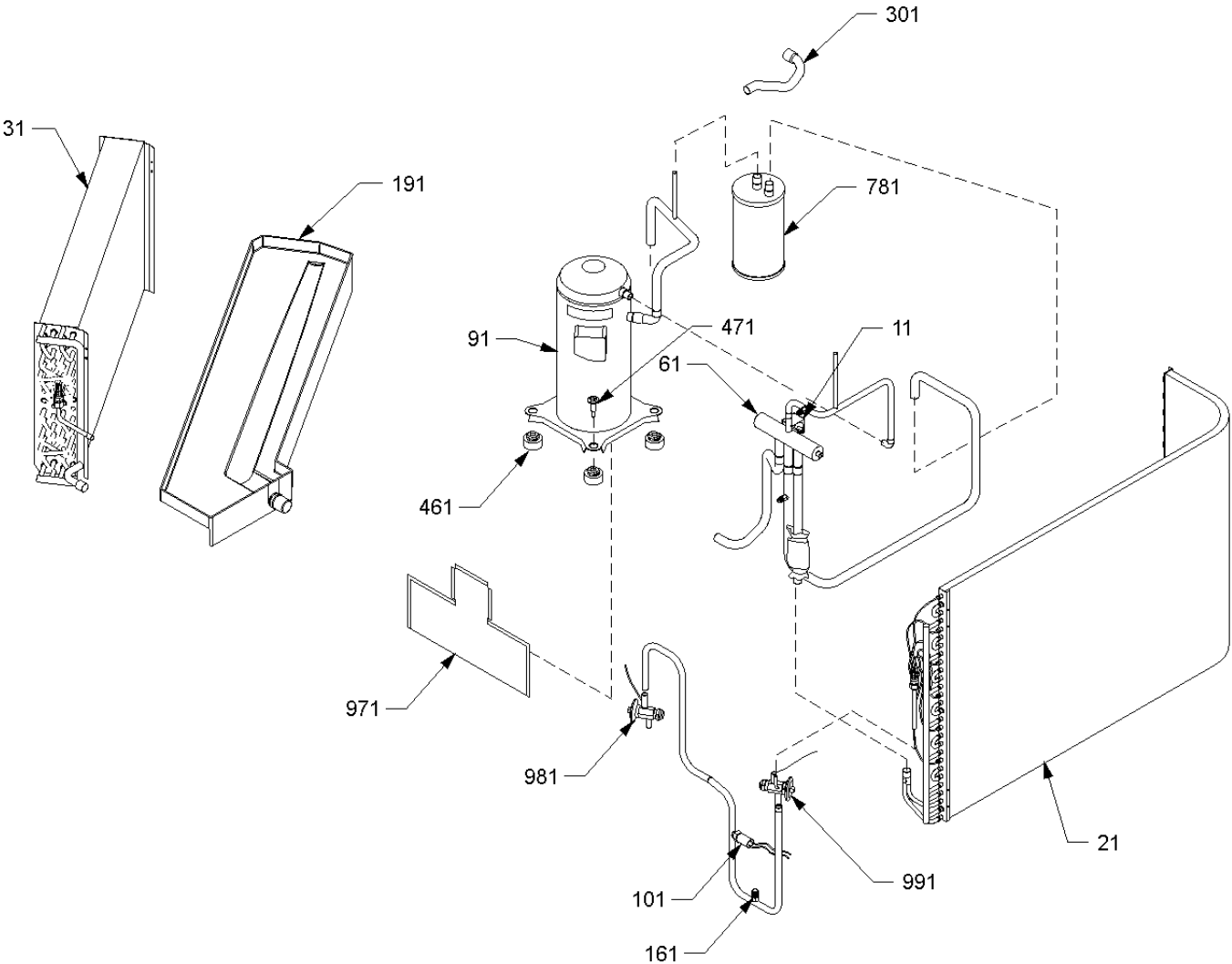
Top Assy/Cabinet

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 1:</i>			
141 20001703	CORNER POST (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)		
141 20001704	CORNER POST (M3, M6, M9, M12, M16)		
151 20001804	CORNER POST (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)		
151 20001805	CORNER POST (M3, M6, M9, M12, M16)		
171 11098719	SIDE POST (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)		
171 11098721	SIDE POST (M3, M6, M9, M12, M16)		
181 11098720	SIDE POST (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)		
181 11098722	SIDE POST (M3, M6, M9, M12, M16)		
271 20013901	MOTOR SUPPORT		
381 11099501	COND MOTOR MOUNT		
391 11112805S	FAN MOTOR		
401 11182905	CONDENSER FAN (M1, M2, M3, M4, M5, M6, M7, M8, M9, M11, M12, M13, M15, M16, M17)		
401 11182906	CONDENSER FAN (M10, M14)		
411 20000704	TOP COVER		
431 20171401	VENTURI RING		
441 11112003	FAN GRILLE		
571 M0221817	SMALL SCREW (QTY 6)		
751 20037201	HEATER BOX BAFFLE		
811 20042802	ISLR GROMMET (QTY 4)		

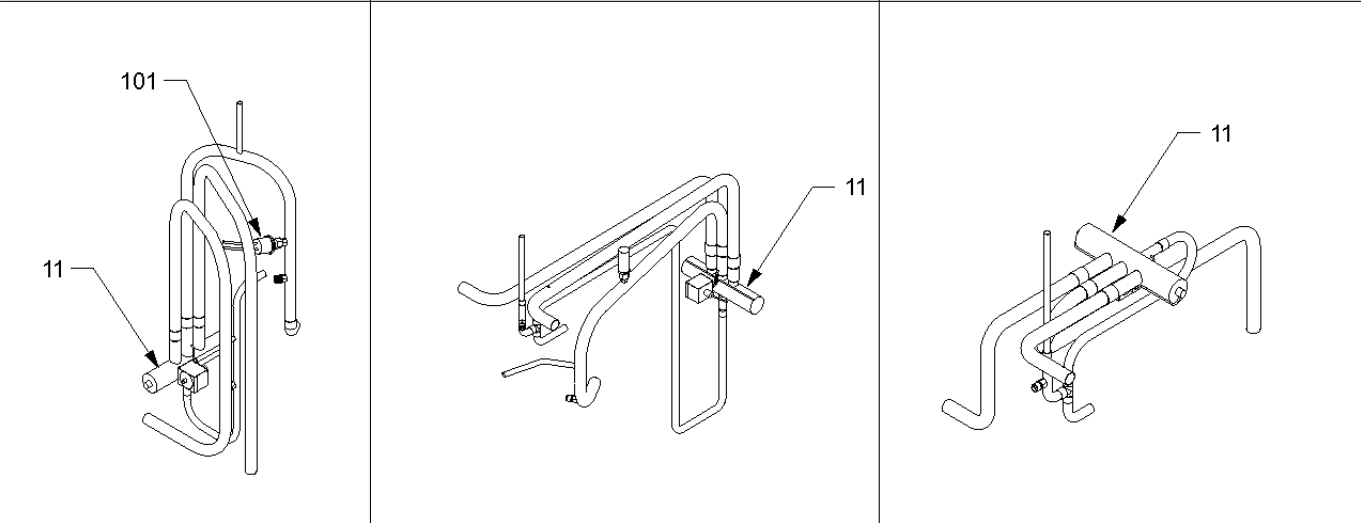
Expanded Model Nomenclature

M1 - PHD24CC2E	P1228201C
M2 - PHD30CC2E	P1228202C
M3 - PHD36CC2E	P1228203C
M4 - PHD24C02E	P1235701C
M5 - PHD30C02E	P1235702C
M6 - PHD36C02E	P1235703C
M7 - PHD24CC2E	P1235901C
M8 - PHD30CC2E	P1235902C
M9 - PHD36CC2E	P1235903C
M10 - PHD24C02E1	P1239706C
M11 - PHD30C02E1	P1239707C
M12 - PHD36C02E1	P1239708C
M13 - PHD24C02E1	P1239711C
M14 - PHD24CC2E1	P1240004C
M15 - PHD30CC2E1	P1240005C
M16 - PHD36CC2E1	P1240006C
M17 - PHD24CC2E1	P1240007C

Internal Components



Additional tubing configurations



Internal Components

Ref. Part No: No: Description:			Ref. Part No: No: Description:		
<i>Image 1:</i>			Expanded Model Nomenclature		
11	10702201S	REVERSING VALVE COIL (M1, M2, M3, M4, M5, M6, M7, M8, M9, M12, M16)	M1 - PHD24CC2E	P1228201C	
21	1272706	TUBING ASSY, COND COIL (M11, M15)	M2 - PHD30CC2E	P1228202C	
21	1272707	TUBING ASSY, COND COIL (M12, M16)	M3 - PHD36CC2E	P1228203C	
21	20170202	TUBING ASSY, COND COIL (M1, M4, M7)	M4 - PHD24C02E	P1235701C	
21	20170203S	TUBING ASSY, COND COIL (M2, M5, M8)	M5 - PHD30C02E	P1235702C	
21	20192002S	TUBING ASSY, COND COIL (M3, M6, M9)	M6 - PHD36C02E	P1235703C	
21	20336401	TUBING ASSY, COND COIL (M10, M13, M14, M17)	M7 - PHD24CC2E	P1235901C	
31	1272616	TUBING ASSY, EVAP COIL (M2, M5, M8)	M8 - PHD30CC2E	P1235902C	
31	1272802	TUBING ASSY, EVAP COIL (M10, M13, M14, M17)	M9 - PHD36CC2E	P1235903C	
31	1272804	TUBING ASSY, EVAP COIL (M11, M15)	M10 - PHD24C02E1	P1239706C	
31	1272805	TUBING ASSY, EVAP COIL (M12, M16)	M11 - PHD30C02E1	P1239707C	
31	20155305S	TUBING ASSY, EVAP COIL (M1, M4, M7)	M12 - PHD36C02E1	P1239708C	
31	20207201S	TUBING ASSY, EVAP COIL (M3, M6, M9)	M13 - PHD24C02E1	P1239711C	
61	B1227316S	REVERSING VALVE (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)	M14 - PHD24CC2E1	P1240004C	
61	B1227318S	REVERSING VALVE (M3, M6, M9, M12, M16)	M15 - PHD30CC2E1	P1240005C	
91	ZR22K4PFV930	COMPRESSOR 22000, 208/230/60/1 (M1, M4, M7, M10, M14)	M16 - PHD36CC2E1	P1240006C	
91	ZR22K4PFV930	COMPRESSOR 22000, 208/230/60/1 (M13, M17)	M17 - PHD24CC2E1	P1240007C	
91	ZR28K3PFV930	COMPRESSOR 28500, 208/230/60/1 (M2, M5, M8, M11, M15)			
91	ZR32K3PFV930	COMPRESSOR ZR32K3PFV230 (M3, M6, M9, M12, M16)			
101	C6453313	CUT-OUT SWITCH, LOW PRESSURE (M1, M2, M3)			
101	C6453316	CUT-OUT SWITCH, LOW PRESSURE (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17)			
161	B1787000	VALVE CORE (QTY AR)			
191	20000601	DRIP PAN			
301	20294001	J TRAP (M1, M2, M3, M4, M5, M6, M7, M8, M9, M11, M12, M13, M15, M16, M17)			
461	B1339533	COMPRESSOR GROMMET (QTY 4)			
471	M0221641	TF SHOULDER SCREW (QTY 4)			
781	11190803	ACCUMULATOR (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)			
971	11026401	COMPRESSOR SOUND BLANKET (M1, M2, M4, M5, M7, M8)			
971	11026501	COMPRESSOR SOUND BLANKET (M3, M6, M9)			
971	20254101	COMPRESSOR SOUND BLANKET (M10, M11, M12, M13, M14, M15, M16, M17)			
981	20212407	TXV VALVE-INDOOR (M3, M6, M9, M12, M16)			
991	20212413	TXV VALVE-OUTDOOR (M3, M6, M9, M12, M16)			
NS	20001401	COMPRESSOR HARNESS (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)			
NS	20203901	COMPRESSOR HARNESS (M3, M6, M9, M12, M16)			

Blower Assy/Control Panel

Image 1

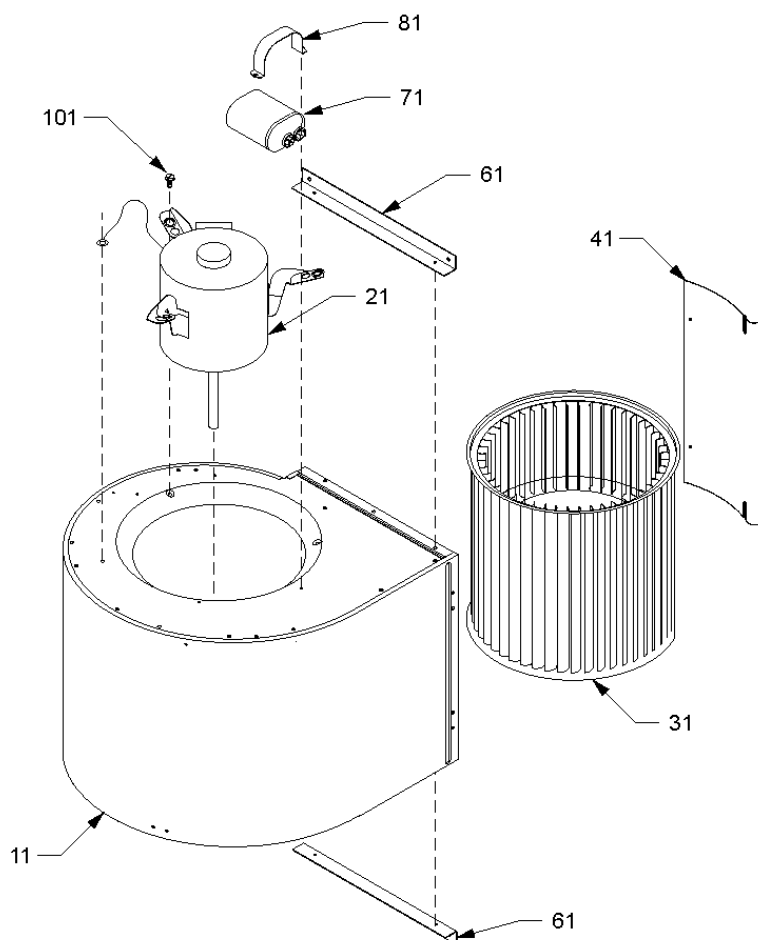
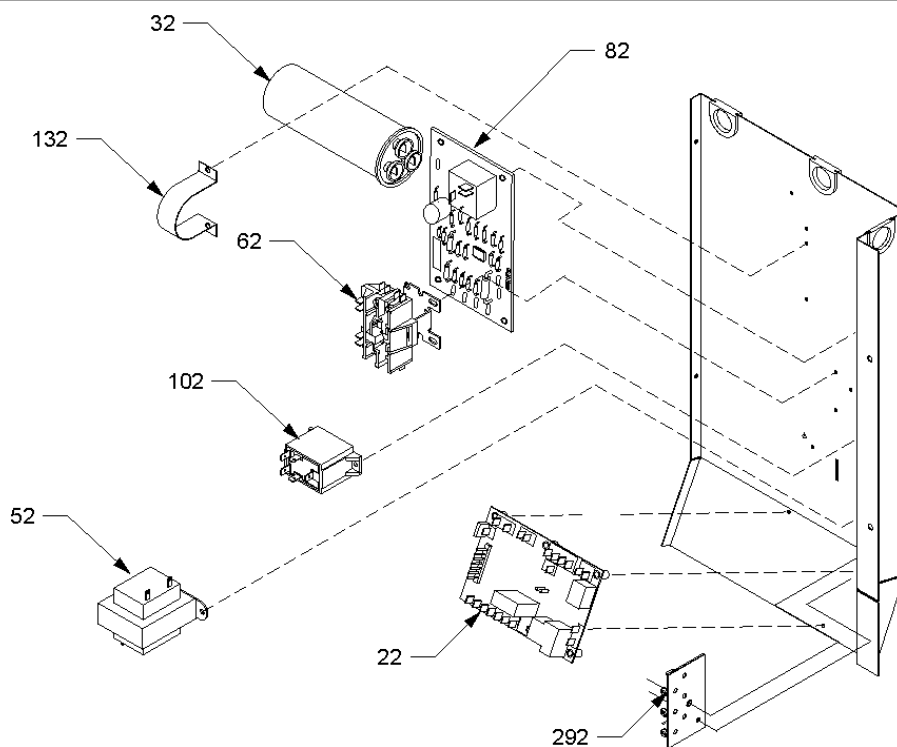


Image 2



Blower Assy/Control Panel

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

11	20162503	BLOWER HOUSING ASSY
21	20013001S	BLOWER MOTOR (M1, M2, M4, M5, M7, M8, M10, M11, M13, M14, M15, M17)
21	20013002S	BLOWER MOTOR (M3, M6, M9, M12, M16)
31	D6723302S	BLOWER WHEEL
41	C6121810	BLOWER CUT-OFF
61	20021101	BLOWER RAIL (QTY 2)
71	CAP100000370VAS	CAPACITOR 10/370V [BLOWER]
81	A4055402	CAPACITOR STRAP
101	M0250558	TC SCREW (QTY 3)
NS	20001001	BLOWER HARNESS (M4, M5, M6, M10, M11, M12, M13)
NS	20001002	BLOWER HARNESS (M1, M2, M3, M7, M8, M9, M14, M15, M16, M17)

Image 2:

22	20214303S	DEFROST CONTROL
32	CAP075350370RS	CAPACITOR 7.5/35/370V (M13, M17)
32	CAP075400370RSS	CAPACITOR 7.5/40/370V (M1, M4, M7, M10, M14)
32	CAP075450370RSS	CAPACITOR 7.5/45/370V (M2, M3, M5, M6, M8, M9, M11, M12, M15, M16)
52	11120302	TRANSFORMER
62	22308302	CONTACTOR 30 AMP (M4, M7, M10, M14)
62	C6170002	CONTACTOR 30 AMP (M1, M2, M3, M5, M6, M8, M9, M11, M12, M13, M15, M16, M17)
82	PCBFM103S	BOARD, ELECTRONIC BLOWER TIME DELAY RELAY
102	10135601	RELAY
132	C6300502	CAPACITOR STRAP
292	20244002	TERMINAL BOARD (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17)

Expanded Model Nomenclature

M1 - PHD24CC2E	P1228201C
M2 - PHD30CC2E	P1228202C
M3 - PHD36CC2E	P1228203C
M4 - PHD24C02E	P1235701C
M5 - PHD30C02E	P1235702C
M6 - PHD36C02E	P1235703C
M7 - PHD24CC2E	P1235901C
M8 - PHD30CC2E	P1235902C
M9 - PHD36CC2E	P1235903C
M10 - PHD24C02E1	P1239706C
M11 - PHD30C02E1	P1239707C
M12 - PHD36C02E1	P1239708C
M13 - PHD24C02E1	P1239711C
M14 - PHD24CC2E1	P1240004C
M15 - PHD30CC2E1	P1240005C
M16 - PHD36CC2E1	P1240006C
M17 - PHD24CC2E1	P1240007C

