Electrolux

Product Information and Technical Guide

2005 Room Air Conditioners
Model Year Designation "P"

Heavy Duty----------Example FAS155P1A
Thru-The-Wall------Example FAH085P1T
Slider Casement---Exmaple FAK104P1V

Factory location:RK

ATTENTION SERVICERS!
To get a helping hand, visit the
Frigidaire Web Site at:
http://www.frigidaire.com
User name: service
Password: tips

Part No.: 5995434726

May 2005

TABLE OF CONTENTS

IMPORTANT SAFETY UPDATE

Room Air Conditioners manufactured after August 1st , 2004 are equipped with a new industry regulated power cord with either of the following in the plug-head or in line:

LCDI: Leakage Current Detection Interrupter
AFCI: Arc-Fault Circuit Interrupter.

All Frigidaire products have an LCDI located in the plug head or in-line.

The power supply cord contains a current device that senses damage to the power cord. To test your power supply cord does the following:

1. **Plug in the Air Conditioner.**
2. **The power supply cord will have TWO buttons on the plug head. Press the TEST button. You will notice a click as the RESET button pops out.**
3. **Press the RESET button. Again you will notice a click as the button engages.**
4. **The power supply cord is now supplying electricity to the unit. (On some products this is also indicated by a light on the plug head).**

Notes:

- **Do not use this device to turn the unit on or off.**
- **Always make sure the RESET button is pushed in for correct operation.**
- **The power supply cord must be replaced if it fails to reset when either the TEST button is pushed, or it cannot be reset. A new one can be obtained from the product manufacturer.**
- **If power supply cord is damaged, it CANNOT be repaired, it MUST be replaced by one obtained from the product manufacturer.**

SAFE SERVICING PRACTICES - ALL APPLIANCES

To avoid personal injury or property damage, it is important that **Safe Servicing Practices** be observed. The following are some limited examples of safe practices.

1. **DO NOT** attempt a product repair if you doubt your ability to complete it in a safe and satisfactory manner.

2. Before servicing or moving an appliance
   - Remove power cord from electrical outlet, trip circuit breaker to **OFF** position, or remove fuse
   - Turn off gas supply
   - Turn off water supply

3. Never interfere with the proper operation of any safety device.

4. **Use only OEM replacement parts cataloged for this appliance. Substitutions may defeat compliance with safety standards set for home appliances.**

5. **GROUNDING**: The standard color coding for safety ground wires is **GREEN**, or **GREEN** with **YELLOW STRIPES**. **DO NOT** use ground leads as current carrying conductors. It is **EXTREMELY** important that the service technician reestablish all safety grounds prior to completing service. Failure to do so will create an electrical hazard.

6. Prior to returning the product to service, ensure that
   - All electrical connections are correct and secure
   - All electrical leads are properly dressed and secured away from sharp edges, high-temperature components, and moving parts
   - All non-insulated electrical terminals, connectors, heaters, etc. are adequately spaced away from all metal parts and panels
   - All safety grounds (both internal and external) are correctly and securely connected
   - All panels are properly and securely reassembled.

7. In the event that the power cord is damaged, it cannot be repaired. It must be replaced with a new one from the product manufacturer.

WARNING

This service manual is intended for use by persons having electrical and mechanical training and a level of knowledge of these subjects generally considered acceptable in the appliance repair trade. Electrolux Home Products Inc. Cannot be responsible, nor assume any liability, for injury or damage of any kind arising from the use of this manual.

FRIGIDAIRE MODEL SPECIFICATIONS

Model	FAS155P1A1	FAS155P1A2	FAS156P1A1	FAS156P1A2	FAS157P1A1
Chassis Type	Heavy Duty	Heavy Duty	Heavy Duty	Heavy Duty	Heavy Duty
Capacity Features					
BTU - Cooling	15100	15100	15100	15100	15100
BTU - Heating	-	-	-	-	-
Moisture Removal	3.5	3.5	3.5	3.5	3.5
EER	10.7	10.7	10.7	10.7	10.7
Capacity Features					
Voltage	115	115	115	115	115
Amps - Cooling	12.3	12.3	12.3	12.3	12.3
Amps - Heating	-	-	-	-	-
Watts - Cooling	1400	1400	1400	1400	1400
Watts - Heating	-	-	-	-	-
Fuse/Breaker(Amps)	15	15	15	15	15
Receptacle Code	NEMA 5-15	NEMA 5-15	NEMA 5-15	NEMA 5-15	NEMA 5-15
Power Cord Number	KT21C7-12(U)	KT21C7-12(U)	KT21C7-12(U)	KT21C7-12(U)	KT21C7-12(U)
Power Cord Amps Min	15	15	15	15	15
Wiring Diagram	81902548	81902548	81902548	81902548	81902549
Page #	Page 17	Page 17	Page 17	Page 17	Page 17
Air Flow System					
Capacitor- µ Farads	10/250	10/250	10/250	10/250	10/250
Fan Motor Mfg.	Heshan	Heshan	Heshan	Heshan	Heshan
Fan Motor Number	81402116	81402116	81402116	81402116	81402116
RPM/CMP(EVAP)					
High	900/450	900/450	900/450	900/450	900/450
Medium	-	-	-	-	-
Low	-	-	-	-	-
Heat Only	-	-	-	-	-
Refrigeration System					
Compressor Mfg.	Sanyo	LG	Sanyo	LG	Sanyo
Compressor Number	1304436	1304559	1304436	1304559	1304436
Compressor Type	Rotary	Rotary	Rotary	Rotary	Rotary
Overload Protector	MRA98693-9200	MRA4720-12027	MRA98693-9200	MRA4720-12027	MRA98693-9200
Capacitor- µ Farads	40 µ F/250V	60u/250V	40 µ F/250V	60u/250V	40 µ F/250V
Refrigerant Charge	47.3	47.3	47.3	47.3	47.3
Restrictor Tube	813034550	813034139	813034550	813034139	813034550
Thermostat Type	Electronic	Electronic	Electronic	Electronic	Electronic
Installation Instructions					
Kit Type	A	A	A	A	A
Part Number	819042102	819042102	819042102	819042102	819042102
Control Thermostat Location Diagram	Page 15	Page 15	Page 15	Page 15	Page 15
Condenser Fan and Evaporator Blower Location Diagram	Page 16	Page 16	Page 16	Page 16	Page 16

FRIGIDAIRE MODEL SPECIFICATIONS

Model	FAS157P1A2	FAS182P2A1	FAS184P2A1	FAS185P2A1	FAS186P2A1
Chassis Type	Heavy Duty	Heavy Duty	Heavy Duty	Heavy Duty	Heavy Duty
Capacity Features					
BTU - Cooling	15100	18000/17800	18000/17800	18500/18200	18500/18200
BTU - Heating	-	-	-	-	-
Moisture Removal	3.5	5.3	5.3	5.5	5.5
EER	10.7	9.7	9.7	10.7	10.7
Capacity Features					
Voltage	115	230/208	230/208	230/208	230/208
Amps - Cooling	12.3	8.1/9.0	8.1/9.0	7.6/8.4	7.6/8.4
Amps - Heating	-	-	-	-	-
Watts - Cooling	1400	1850/1830	1850/1830	1730/1700	1730/1700
Watts - Heating	-	-	-	-	-
Fuse/Breaker(Amps)	15	15	15	15	15
Receptacle Code	NEMA 5-15	NEMA 6-15	NEMA 6-15	NEMA 6-15	NEMA 6-15
Power Cord Number	KT21C7-12(U)	KT21C7-13(U)	KT21C7-13(U)	KT21C7-13(U)	KT21C7-13(U)
Power Cord Amps Min	15	15	15	15	15
Wiring Diagram	81902549	81902381	81902544	81902542	81902542
Page #	Page 17	Page 18	Page 18	Page 19	Page 19
Air Flow System					
Capacitor- µ Farads	10/250	6 µ F/450V	6 µ F/450V	6 µ F/450V	6 µ F/450V
Fan Motor Mfg.	Heshan	Heshan	Heshan	Heshan	Heshan
Fan Motor Number	81402116	8140270	81402117	81402117	81402117
RPM/CMP(EVAP)					
High	900/450	1050/470	1050/470	1050/470	1050/470
Medium	-	-	-	-	-
Low	-	850/350	850/350	-	-
Heat Only	-	-	-	-	-
Refrigeration System					
Compressor Mfg.	LG	Samsung	Samsung	Samsung	Samsung
Compressor Number	1304559	1304462	1304462	1304462	1304462
Compressor Type	Rotary	Rotary	Rotary	Rotary	Rotary
Overload Protector	MRA4720-12027	MRA12133-12007	MRA12133-12007	MRA12133-12007	MRA12133-12007
Capacitor- µ Farads	60u/250V	35 µ F/450V	35 µ F/450V	35 µ F/450V	35 µ F/450V
Refrigerant Charge	47.3	43.7	43.7	52.2	52.2
Restrictor Tube	813034139	813034653	813034653	813034653	813034653
Thermostat Type	Electronic	Mechanical	Electronic	Electronic	Electronic
Installation Instructions					
Kit Type	A	A	A	A	A
Part Number	819042102	819042102	819042102	819042102	819042102
Control Thermostat Location Diagram	Page 15	Page 15	Page 15	Page 15	Page 15
Condenser Fan and Evaporator Blower Location Diagram	Page 16	Page 16	Page 16	Page 16	Page 16

FRIGIDAIRE MODEL SPECIFICATIONS

Model	FAS187P2A1	FAS18EP2A1	FAS225P2A1	FAS226P2A1	
Chassis Type	Heavy Duty	Heavy Duty	Heavy Duty	Heavy Duty	
Capacity Features					
BTU - Cooling	18500/18200	18000/17800	22000/21600	22000/21600	
BTU - Heating	-	16000/13000	-	-	
Moisture Removal	5.5	5.5	6.5	6.5	
EER	10.7	9.7	9.4	9.4	
Capacity Features					
Voltage	230/208	230/208	230/208	230/208	
Amps - Cooling	7.6/8.4	8.1/9.0	9.9/10.9	9.9/10.9	
Amps - Heating	-	19.2/21.0	-	-	
Watts - Cooling	1730/1700	1855/1840	2340/2300	2340/2300	
Watts - Heating	-	4900/4000	-	-	
Fuse/Breaker(Amps)	15	30	15	15	
Receptacle Code	NEMA 6-15	NEMA 6-30	NEMA 6-15	NEMA 6-15	
Power Cord Number	KT21C7-13(U)	KT21C8-04(U)	KT21C8-03(U)	KT21C8-03(U)	
Power Cord Amps Min	15	20	20	20	
Wiring Diagram	81902544	81902547	81902542	81902542	
Page #	Page 18	Page 19	Page 19	Page 19	
Air Flow System					
Capacitor- µ Farads	6 µ F/450V	6 µ F/450V	6 µ F/450V	6 µ F/450V	
Fan Motor Mfg.	Heshan	Heshan	Heshan	Heshan	
Fan Motor Number	81402117	81402117	81402117	81402117	
RPM/CMP(EVAP)					
High	1050/470	1050/470	1050/480	1050/480	
Medium	-	-	-	-	
Low	-	-	-	-	
Heat Only	-	-	-	-	
Refrigeration System					
Compressor Mfg.	Samsung	Samsung	LG	LG	
Compressor Number	1304462	1304462	1304579	1304579	
Compressor Type	Rotary	Rotary	Rotary	Rotary	
Overload Protector	MRA12133-12007	MRA12133-12007	3HM408	3HM408	
Capacitor- µ Farads	35 µ F/450V	35 µ F/450V	40 µ F/450V	40 µ F/450V	
Refrigerant Charge	52.2	43.7	52.9	52.9	
Restrictor Tube	813034653	813034653	813034888	813034888	
Thermostat Type	Electronic	Electronic	Electronic	Electronic	
Installation Instructions					
Kit Type	A	A	A	A	
Part Number	819042102	819042102	819042102	819042102	
Control Thermostat Location Diagram	Page 15	Page 15	Page 15	Page 15	
Condenser Fan and Evaporator Blower Location Diagram	Page 16	Page 16	Page 16	Page 16	

FRIGIDAIRE MODEL SPECIFICATIONS

Model	FAS255P2A1	FAS256P2A1	FAS25EP2A1	FAS294P2A1	FAS296P2A1
Chassis Type	Heavy Duty	Heavy Duty	Heavy Duty	Heavy Duty	Heavy Duty
Capacity Features					
BTU - Cooling	25000/24700	25000/24700	25000/24700	28500/28000	28500/28000
BTU - Heating	-	-	16000/13000	-	-
Moisture Removal	7.6	7.6	7.6	8.6	8.6
EER	9.4	9.4	9.4	8.5	8.5
Capacity Features					
Voltage	230/208	230/208	230/208	230/208	230/208
Amps - Cooling	11.4/12.6	11.4/12.6	11.4/12.6	14.4/15.9	14.4/15.9
Amps - Heating	-	-	19.2/21.0	-	-
Watts - Cooling	2660/2630	2660/2630	2660/2630	3350/3300	3350/3300
Watts - Heating	-	-	4900/4000	-	-
Fuse/Breaker(Amps)	20	20	30	30	30
Receptacle Code	NEMA 6-20	NEMA 6-20	NEMA 6-30	NEMA 6-30	NEMA 6-30
Power Cord Number	KT21C8-03(U)	KT21C8-03(U)	KT21C8-04(U)	KT21C8-04(U)	KT21C8-04(U)
Power Cord Amps Min	20	20	20	20	20
Wiring Diagram	81902642	81902642	81902643	81902546	81902546
Page #	Page 19	Page 19	Page 19	Page 20	Page 20
Air Flow System					
Capacitor- µ Farads	6 µ F/450V	6 µ F/450V	6 µ F/450V	7.5 µ F/450V	7.5 µ F/450V
Fan Motor Mfg.	Heshan	Heshan	Heshan	Heshan	Heshan
Fan Motor Number	81402117	81402117	81402117	81402118	81402118
RPM/CMP(EVAP)					
High	1050/480	1050/480	1050/480	1150/500	1150/500
Medium	-	-	-	-	-
Low	-	-	-	-	-
Heat Only	-	-	-	-	-
Refrigeration System					
Compressor Mfg.	Samsung	Samsung	Samsung	Samsung	Samsung
Compressor Number	1304606	1304606	1304606	1304608	1304608
Compressor Type	Rotary	Rotary	Rotary	Rotary	Rotary
Overload Protector	3HM208-41	3HM208-41	3HM208-41	3HM535-41	3HM535-41
Capacitor- µ Farads	50uF/400V	50uF/400V	50uF/400V	50uF/400V	50uF/400V
Refrigerant Charge	50.0	50.0	50.0	48.7	48.7
Restrictor Tube	813034709/10*	813034709/10*	813034709/10*	813034751-54#	813034751-54#
Thermostat Type	Electronic	Electronic	Electronic	Electronic	Electronic
Installation Instructions					
Kit Type	A	A	A	A	A
Part Number	819042102	819042102	819042102	819042102	819042102
Control Thermostat Location Diagram	Page 15	Page 15	Page 15	Page 15	Page 15
Condenser Fan and Evaporator Blower Location Diagram	Page 16	Page 16	Page 16	Page 16	Page 16

* Restrictor tube part numbers: 813034709 & 813034710.
# Restrictor tube part numbers: 813034751, 813034752, 813034753 & 813034754.

FRIGIDAIRE MODEL SPECIFICATIONS

Model	FAK085P7V1	FAK104P1V1	FAK107P1V1	FAK124P1V1	FAK127P1V1
Chassis Type	Slider Casement	Slider Casement	Slider Casement	Slider Casement	Slider Casement
Capacity Features					
BTU - Cooling	8000	10000	10000	12000	12000
BTU - Heating	-	-	-	-	-
Moisture Removal	6.5	6.5	6.5	6.5	6.5
EER	10.5	9.5	9.5	9.5	9.5
Capacity Features					
Voltage	115	115	115	115	115
Amps - Cooling	7.3	9.6	9.6	11.2	11.2
Amps - Heating	-	-	-	-	-
Watts - Cooling	760	1050	1050	1260	1260
Watts - Heating	-	-	-	-	-
Fuse/Breaker(Amps)	15	15	15	15	15
Receptacle Code	NEMA 5-15	NEMA 5-15	NEMA 5-15	NEMA 5-15	NEMA 5-15
Power Cord Number	KT21C6-27(U)	KT21C6-27(U)	KT21C6-27(U)	KT21C7-12(U)	KT21C7-12(U)
Power Cord Amps Min	13	13	13	15	15
Wiring Diagram	81902357	81902357	81902357	81902357	81902357
Page #	Page 20	Page 20	Page 20	Page 20	Page 20
Air Flow System					
Capacitor- µ Farads	8 µ F/250V	8 µ F/250V	8 µ F/250V	8 µ F/250V	8 µ F/250V
Fan Motor Mfg.	Heshan	Heshan	Heshan	Heshan	Heshan
Fan Motor Number	8140296	8140262	8140262	8140262	8140262
RPM/CMP(EVAP)					
High	1280/210	1380/270	1380/270	1380/270	1380/270
Medium	1100/190	1200/245	1200/245	1200/245	1200/245
Low	1000/160	1050/205	1050/205	1050/205	1050/205
Heat Only	-	-	-	-	-
Refrigeration System					
Compressor Mfg.	Panasonic	LG	LG	LG	LG
Compressor Number	1304599	1304443	1304443	1304447	1304447
Compressor Type	Rotary	Rotary	Rotary	Rotary	Rotary
Overload Protector	MRA98503or 98706	MRA12061-12026	MRA12061-12026	MRA12053-12027	MRA12053-12027
Capacitor- µ Farads	35uF/250V	50 µ F/250V	50 µ F/250V	50 µ F/250V	50 µ F/250V
Refrigerant Charge	21.9	23.3	23.3	23.3	23.3
Restrictor Tube	813034688/ 813035382	813032374	813032374	813034472/8130 34774/813034775	813034472/8130 34774/813034775
Thermostat Type	Electronic	Electronic	Electronic	Electronic	Electronic
Installation Instructions					
Kit Type	V	V	V	V	V
Part Number	819042237	819042237	819042237	819042237	819042237
Control Thermostat Location Diagram	Page 15	Page 15	Page 15	Page 15	Page 15
Condenser Fan and Evaporator Blower Location Diagram	Page 16	Page 16	Page 16	Page 16	Page 16

FRIGIDAIRE MODEL SPECIFICATIONS

Model	FAH085P1T1	FAH08EP1T1	FAH105P1T1	FAH105P2T1	
Chassis Type	Thru-the-wall	Thru-the-wall	Thru-the-wall	Thru-the-wall	
Capacity Features					
BTU - Cooling	8000	8000	10000	10000/9800	
BTU - Heating	-	4000	-	-	
Moisture Removal	1.8	1.8	2.8	2.8	
EER	9.4	9.4	9.4	9.4	
Capacity Features					
Voltage	115	115	115	230/208	
Amps - Cooling	7.4	7.4	9.5	4.8/5.5	
Amps - Heating	-	11.2	-	-	
Watts - Cooling	850	850	1065	1065/1040	
Watts - Heating	-	1250	-	-	
Fuse/Breaker(Amps)	15	15	15	15	
Receptacle Code	NEMA 5-15	NEMA 5-15	NEMA 5-15	NEMA 6-15	
Power Cord Number	KT21C7-15(U)	KT21C7-15(U)	KT21C7-15(U)	KT21C7-14(U)	
Power Cord Amps Min	15	15	15	15	
Wiring Diagram	81902357	81902551	81902357	81902382	
Page #	Page 20	Page 21	Page 20	Page 21	
Air Flow System					
Capacitor- µ Farads	12uF/450V	12uF/450V	12uF/450V	3.5uF/450V	
Fan Motor Mfg.	Heshan	Heshan	Heshan	Heshan	
Fan Motor Number	8140297	8140297	8140297	8140298	
RPM/CMP(EVAP)					
High	1010/280	1010/280	1010/250	1010/250	
Medium	910/240	910/240	910/220	910/220	
Low	810/205	810/205	810/185	810/185	
Heat Only	-	-	-	-	
Refrigeration System					
Compressor Mfg.	Hili	Hili	LG	LG	
Compressor Number	1304607	1304607	1304443	1304564	
Compressor Type	Rotary	Rotary	Rotary	Rotary	
Overload Protector	MRA98883-9200	MRA98883-9200	MRA12061-12026	MRA12054-12026	
Capacitor- µ Farads	50 µ F/250V	50 µ F/250V	50 µ F/250V	30 µ F/450V	
Refrigerant Charge	20.5	20.5	24.7	24.7	
Restrictor Tube	813034737	813034737	813034403	813034747	
Thermostat Type	Electronic	Electronic	Electronic	Electronic	
Installation Instructions					
Kit Type	T	T	T	T	
Part Number	819042236	819042236	819042236	819042236	
Control Thermostat Location Diagram	Page 15	Page 15	Page 15	Page 15	
Condenser Fan and Evaporator Blower Location Diagram	Page 16	Page 16	Page 16	Page 16	

FRIGIDAIRE MODEL SPECIFICATIONS

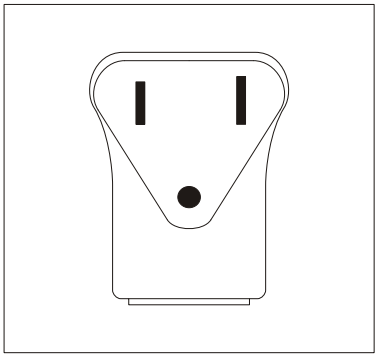
Model	FAH10EP2T1	FAH125P2T1	FAH12EP2T1		
Chassis Type	Thru-the-wall	Thru-the-wall	Thru-the-wall		
Capacity Features					
BTU - Cooling	10000/9800	12000/11750	12000/11700		
BTU - Heating	10000/8500	-	10000/8500		
Moisture Removal	2.8	3.6	3.6		
EER	9.4	9.4	9.4		
Capacity Features					
Voltage	230/208	230/208	230/208		
Amps - Cooling	4.8/5.5	5.9/6.4	5.9/6.4		
Amps - Heating	13.2/12.0	-	13.7/12.7		
Watts - Cooling	1065/1040	1275/1250	1275/1250		
Watts - Heating	3050/2500	-	3120/2600		
Fuse/Breaker(Amps)	15	15	15		
Receptacle Code	NEMA 6-15	NEMA 6-15	NEMA 6-15		
Power Cord Number	KT21C7-14(U)	KT21C7-14(U)	KT21C7-14(U)		
Power Cord Amps Min	15	15	15		
Wiring Diagram	81902506	81902382	81902506		
Page #	Page 22	Page 21	Page 22		
Air Flow System					
Capacitor- µ Farads	3.5uF/450V	3.5uF/450V	3.5uF/450V		
Fan Motor Mfg.	Heshan	Heshan	Heshan		
Fan Motor Number	8140298	8140298	8140298		
RPM/CMP(EVAP)					
High	1010/250	1010/260	1010/260		
Medium	910/220	910/230	910/230		
Low	810/185	810/195	810/195		
Heat Only	-	-	-		
Refrigeration System					
Compressor Mfg.	LG	LG	LG		
Compressor Number	1304564	1304580	1304580		
Compressor Type	Rotary	Rotary	Rotary		
Overload Protector	MRA12054-12026	MRA12124-12026	MRA12124-12026		
Capacitor- µ Farads	30 µ F/450V	30 µ F/450V	30 µ F/450V		
Refrigerant Charge	24.7	26.1	26.1		
Restrictor Tube	813034747	813034230	813034230		
Thermostat Type	Electronic	Electronic	Electronic		
Installation Instructions					
Kit Type	T	T	T		
Part Number	819042236	819042236	819042236		
Control Thermostat Location Diagram	Page 15	Page 15	Page 15		
Condenser Fan and Evaporator Blower Location Diagram	Page 16	Page 16	Page 16		

Compressor Overload Data					
Supplier Part#	Used With Compressor	Opening Temp ℃	Closing Temp ℃	Short Time Tripat 25℃	
				Test Amp	Opeing Time-Sec
MRA98693-9200	**QXE-19(F)**	**165**±5	69±11	**43.0**	**11**±5
MRA4720-12027	**QK208CAA**	**150**±5	69±11	**50.3**	7±5
MRA12133-12007	**48D172IUAEL**	**150**±5	75±11	**26.0**	11±5
3HM408	**QP306KBB**	**165**±5	97±11	**54.0**	10±5
3HM208-41	**55A260IU2JM**	**165**±5	90±11	**59.0**	3~10
3HM535-41	**55A300IU1JM**	**165**±5	92±11	**67.0**	10±5
MRA98503or 98706	**2R12S3R126AUB**	**160**±5	80±11	**26.0**	11±5
MRA12061-12026	**QK141CCD**	**150**±5	61±11	**40.5**	11±5
MRA12053-12027	**QK164CBF**	**150**±5	61±11	**41.5**	11±5
MRA98883-9200	**SD104SW-P3AU**	**160**±5	70±11	**25.0**	11±5
MRA12054-12026	**QK141KBH**	**155**±7	69±11	**14.5**	11±5
MRA12124-12026	**QK164KBK**	**145**±5	69±11	**19.0**	11±5

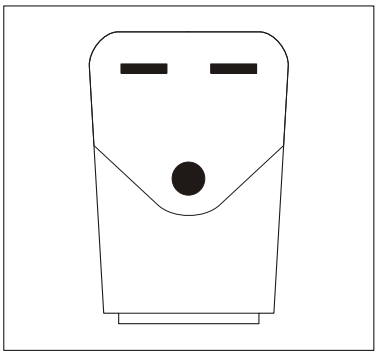
*Terminal to overload must withstand 10 pounds pull test.

Restrictor Tube Data						
Style#	Length	O.D.	I.D.	Mpa	CFM Dry Air	
					Minimum	Maximum
813034550	800	0.106	0.055	0.7	1.809	1.901
813034139	800	0.106	0.055	0.7	1.809	1.901
813034653	550	0.106	0.039	0.7	0.910	1.005
813034888	400	0.106	0.039	0.7	1.007	1.095
813034709	1000	0.106	0.047	0.7	1.148	1.289
813034710	850	0.106	0.047	0.7	1.205	1.298
813034751	450	0.106	0.039	0.7	0.873	0.958
813034752	650	0.106	0.039	0.7	0.852	0.946
813034753	650	0.106	0.039	0.7	0.852	0.946
813034754	650	0.106	0.039	0.7	0.852	0.946
813034688	600	0.106	0.039	0.7	0.869	0.950
813035382	520	0.106	0.039	0.7	0.933	1.021
813032374	400	0.106	0.039	0.7	1.007	1.095
813034472	1100	0.106	0.039	0.7	0.675	0.756
813034774	800	0.106	0.039	0.7	0.781	0.865
813034775	950	0.106	0.039	0.7	0.735	0.817
813034737	600	0.106	0.039	0.7	0.887	0.961
813034403	550	0.106	0.039	0.7	0.912	1.007
813034747	550	0.106	0.039	0.7	0.912	1.007
813034230	500	0.106	0.039	0.7	0.936	1.025

Receptacle Outlet Codes

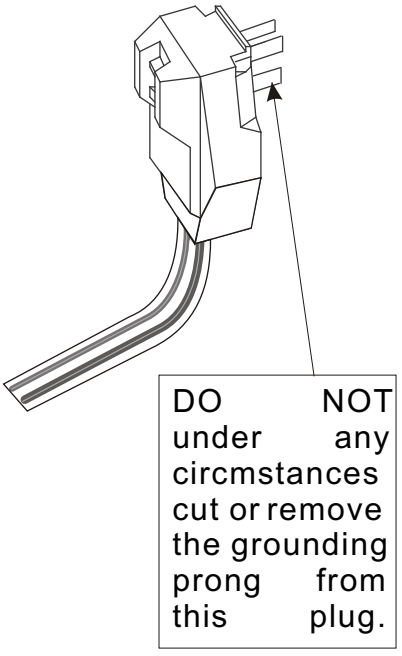


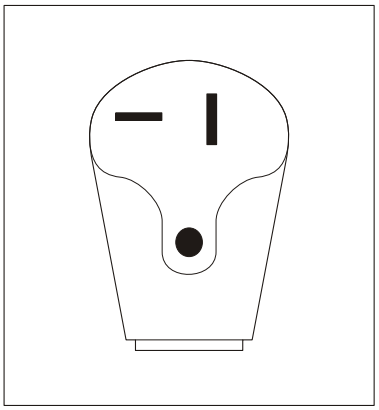
115 Volts-15Amps
NEMA 5-15 TYPE



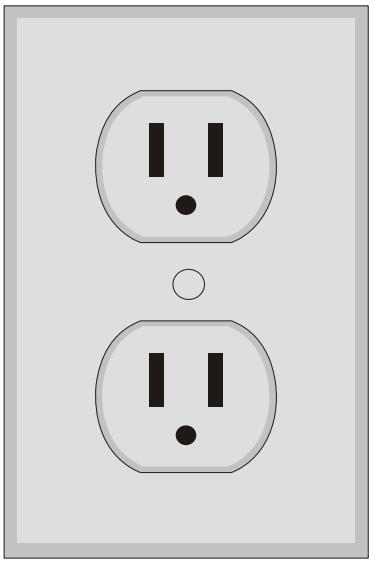
230 Volts-15Amps
NEMA 6-15 TYPE

Power Supply Cord with
3-prong Grounding Plug

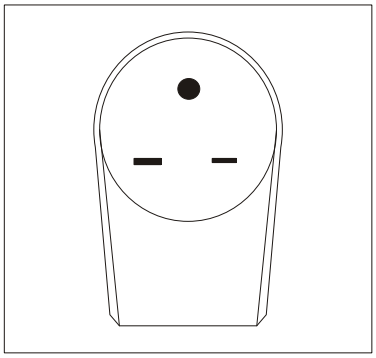




230 Volts-20Amps
NEMA 6-20 TYPE



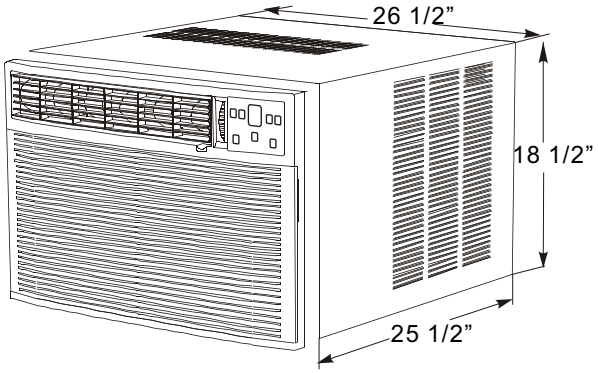
Grounding Type
Wall Receptacle



230 Volts-30Amps
NEMA 6-30 TYPE

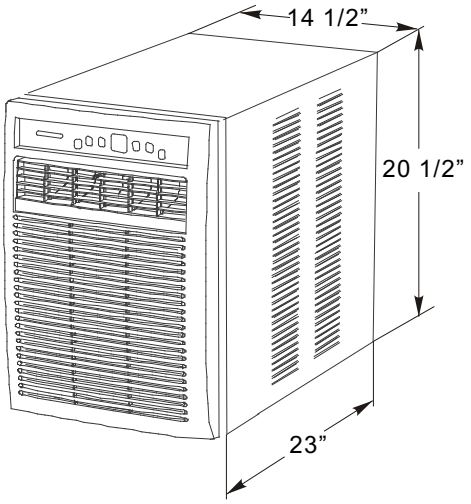
Product Dimensions

Heavy Duty Slide Out Top Control
Top Air Discharge

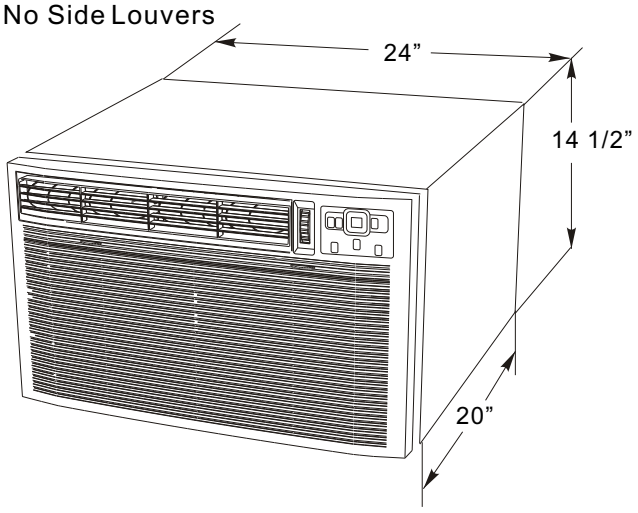


Maximum Wall Thickness 9”

Slider Casement



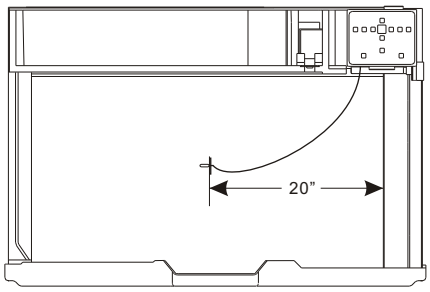
Thru The Wall
No Side Louvers



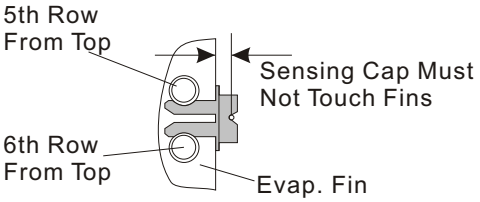
Maximum Wall Thickness 22”

Thermostat Diagrams

Heavy Duty Electric Model

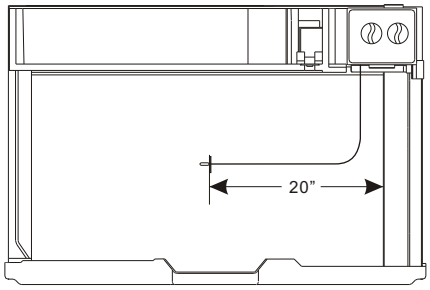


Air thermistor and thermistor holder

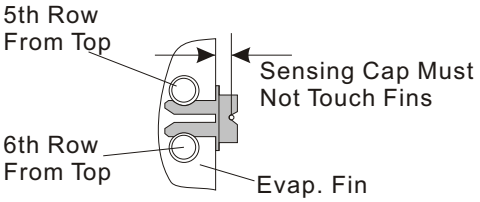


Side View

Heavy Duty Rotary Model

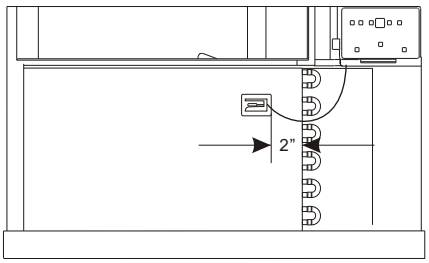


Air thermostat and thermostat holder

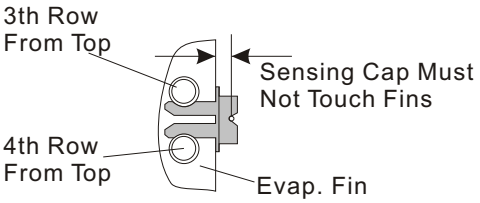


Side View

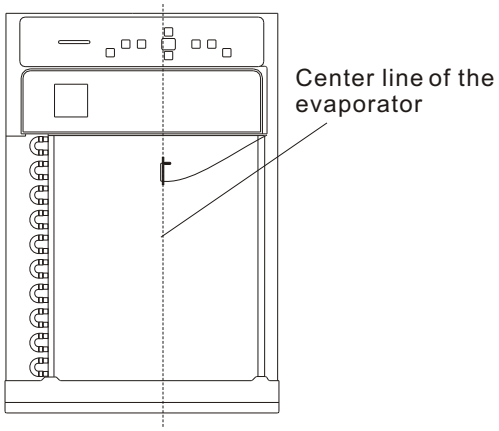
Thru The Wall



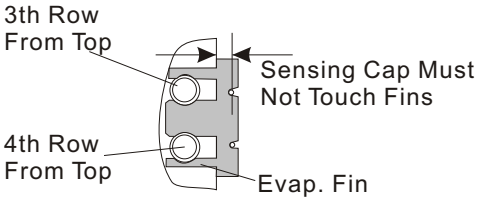
Air thermistor and thermistor holder
(Place between 3th and 4th rows tubes
up from the top.)



Side View



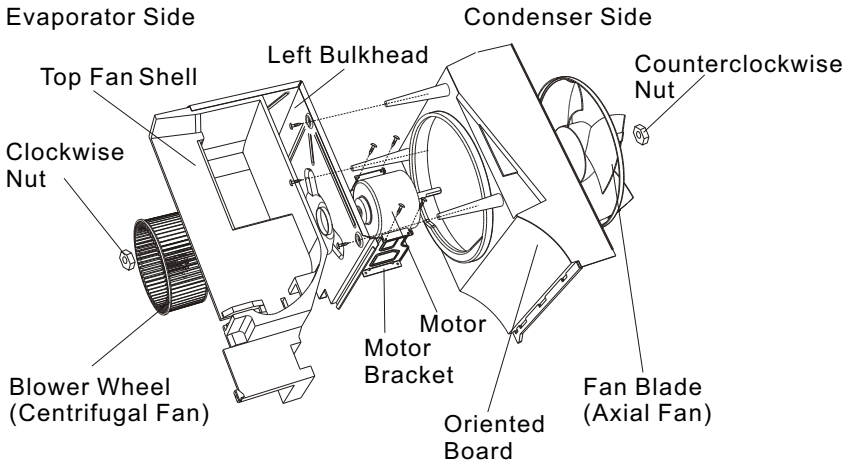
Air thermistor and thermistor holder
(Place between 3th and 4th rows tubes
up from the top.)

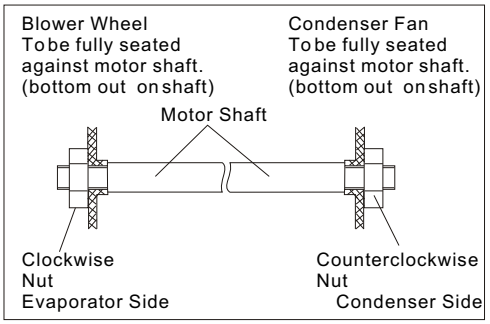


Side View

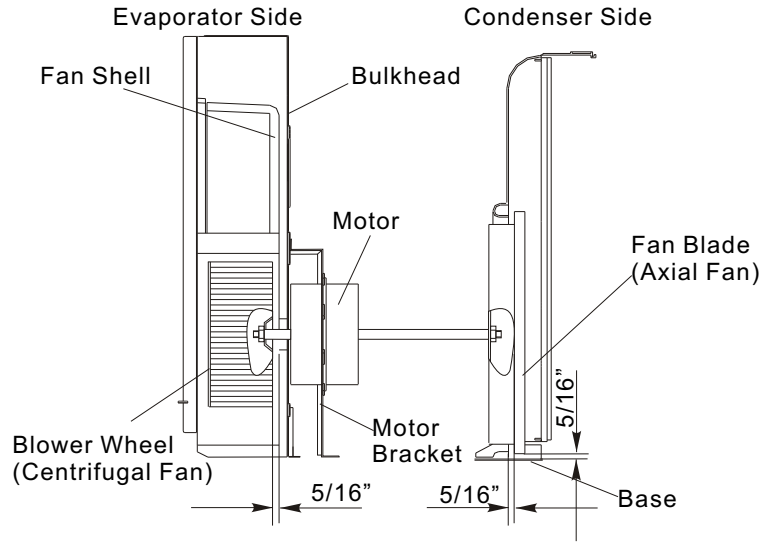
Fan and Blower Location Diagrams

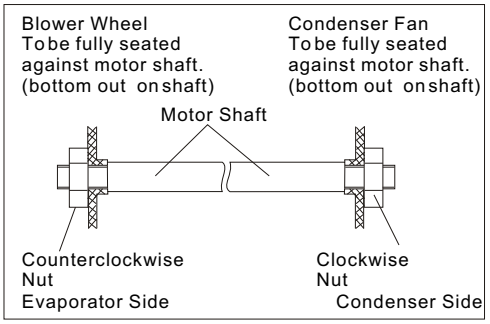
Heavy Duty Top Control



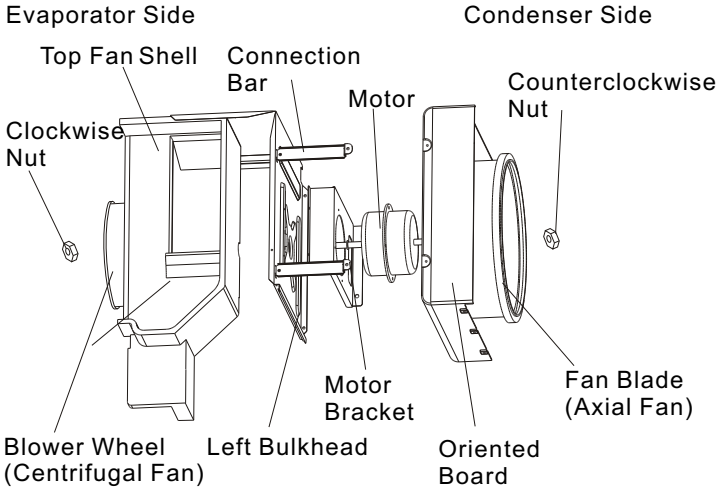


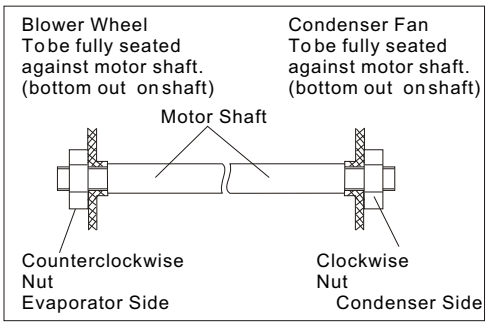
Slider Casement





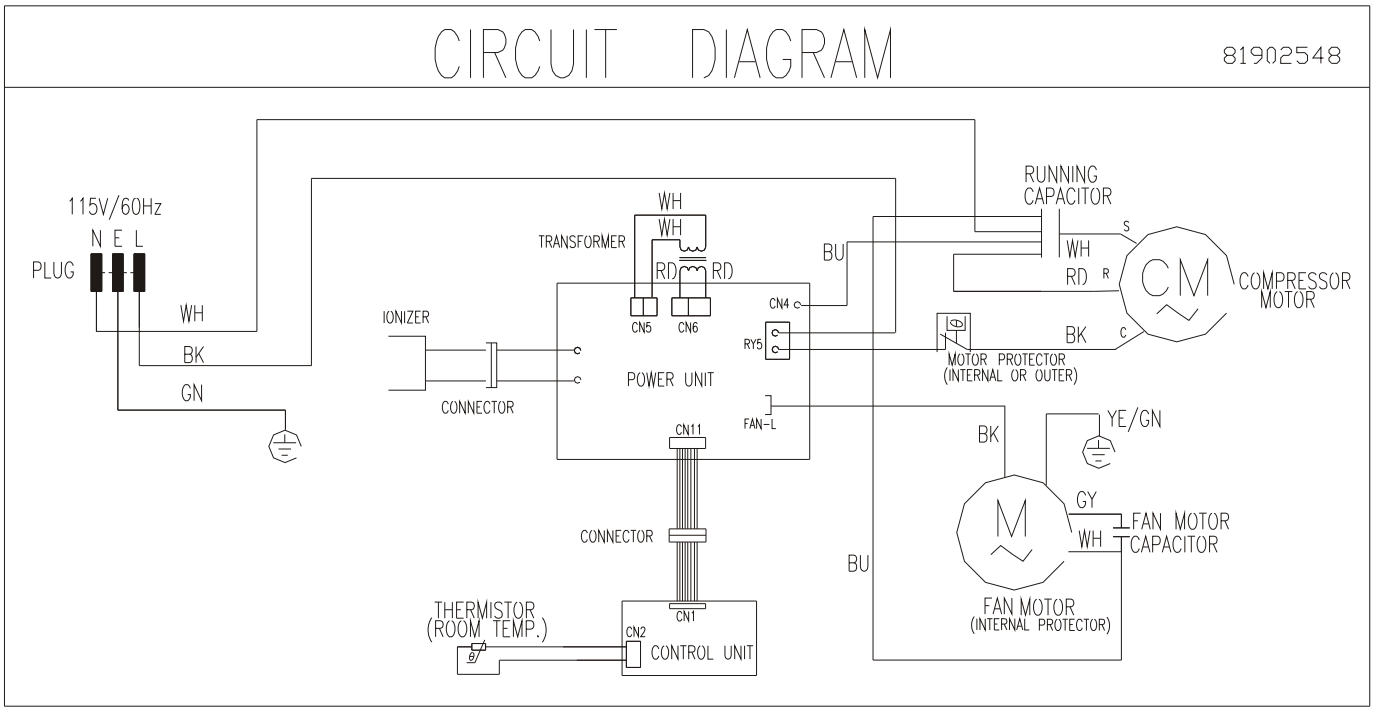
Thru The Wall



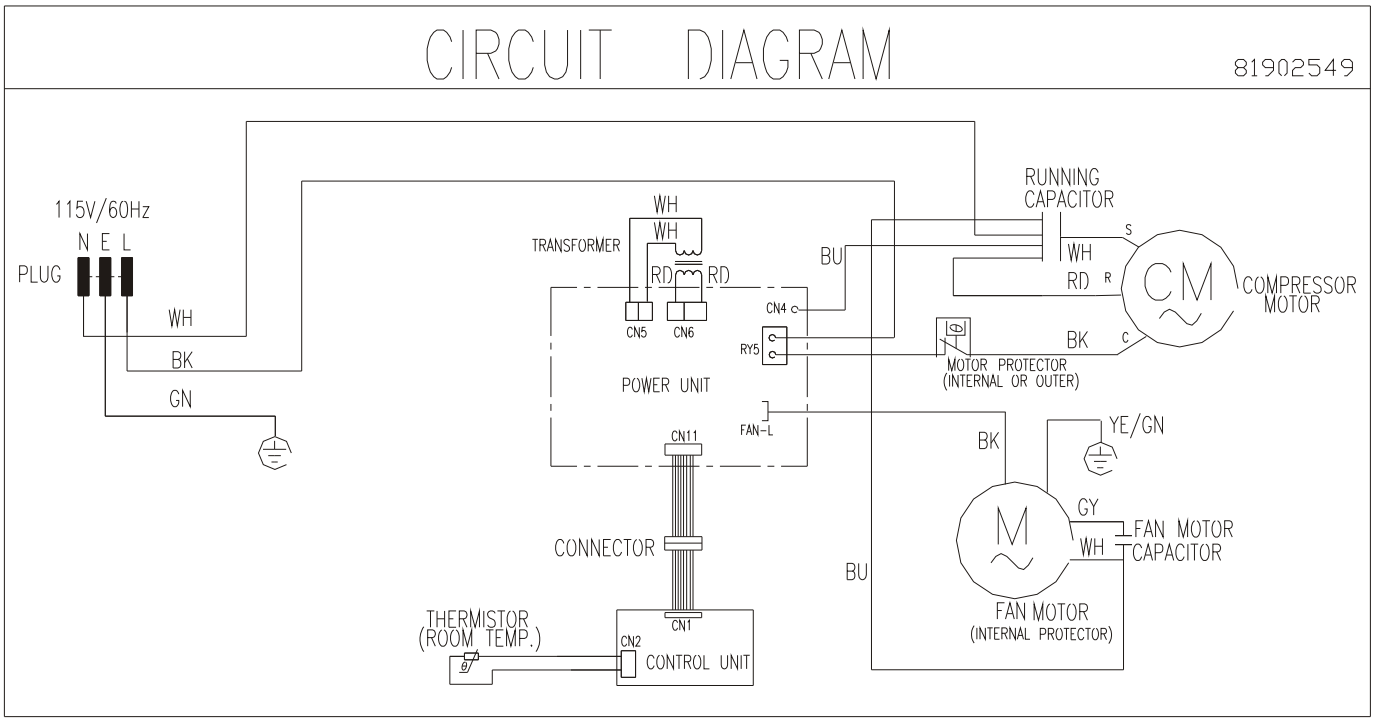


Wiring Diagrams

81902548

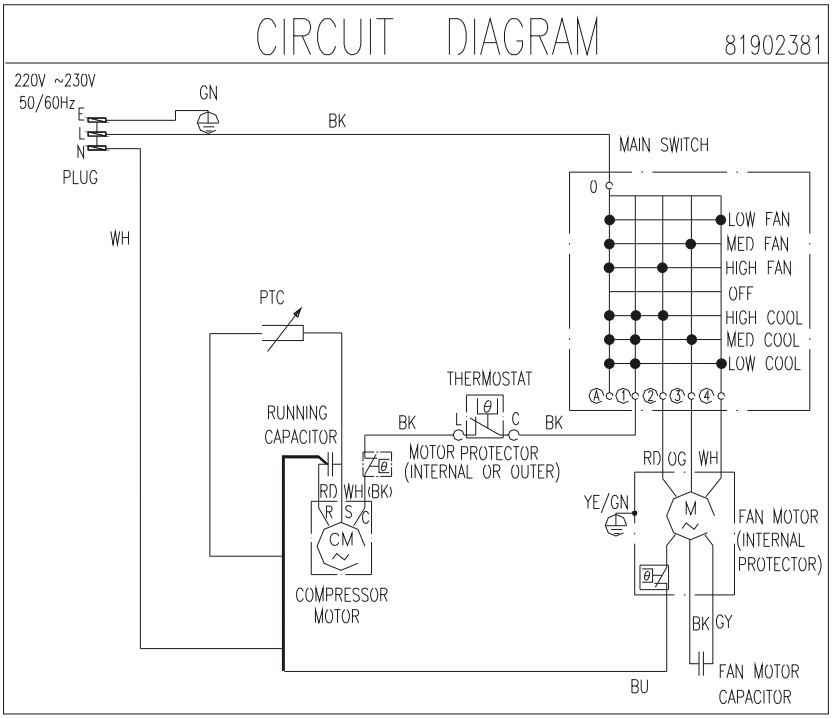


81902549

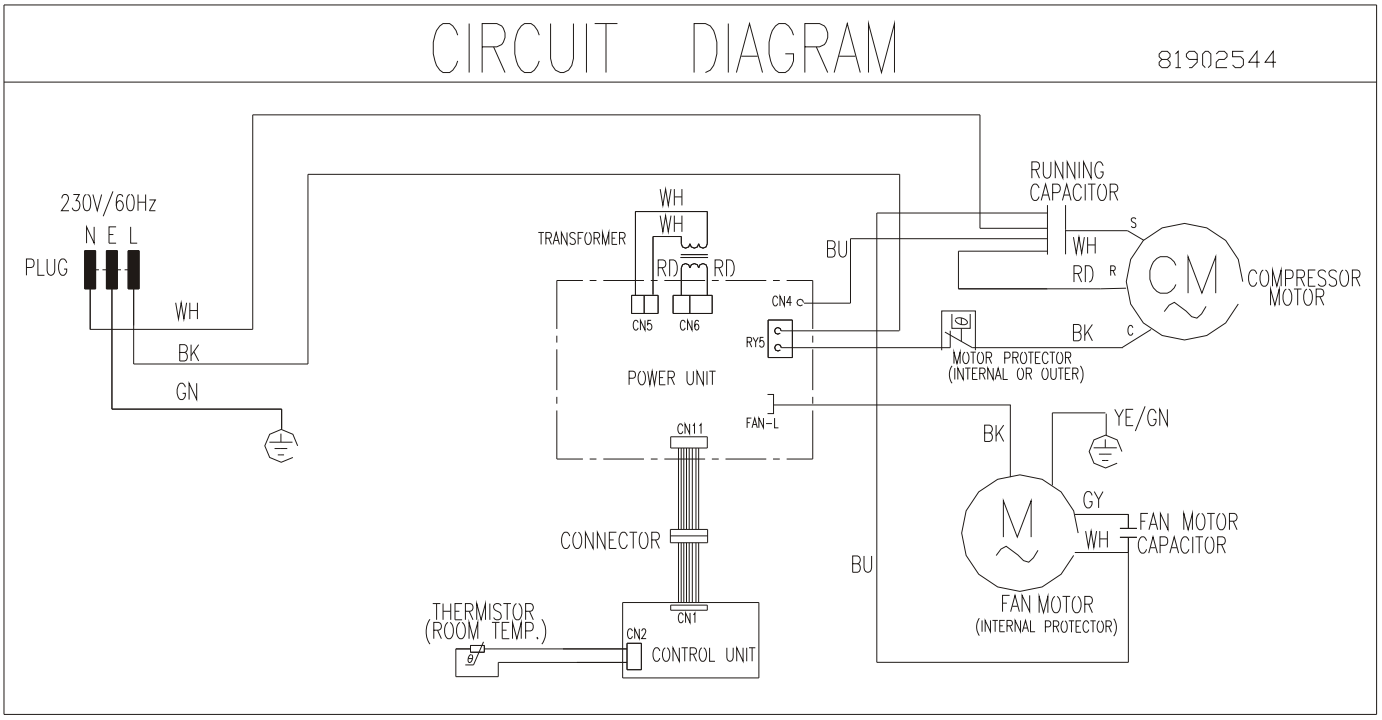


Wiring Diagrams

81902381

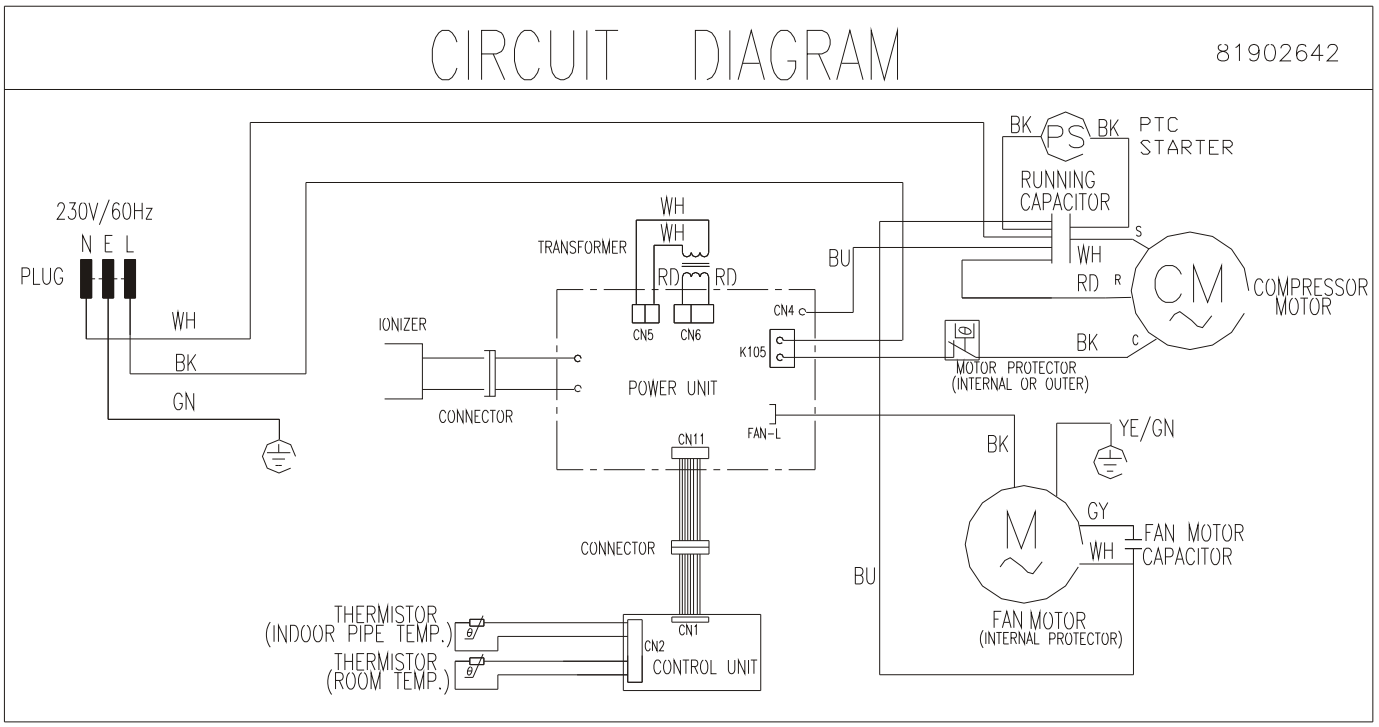


81902544

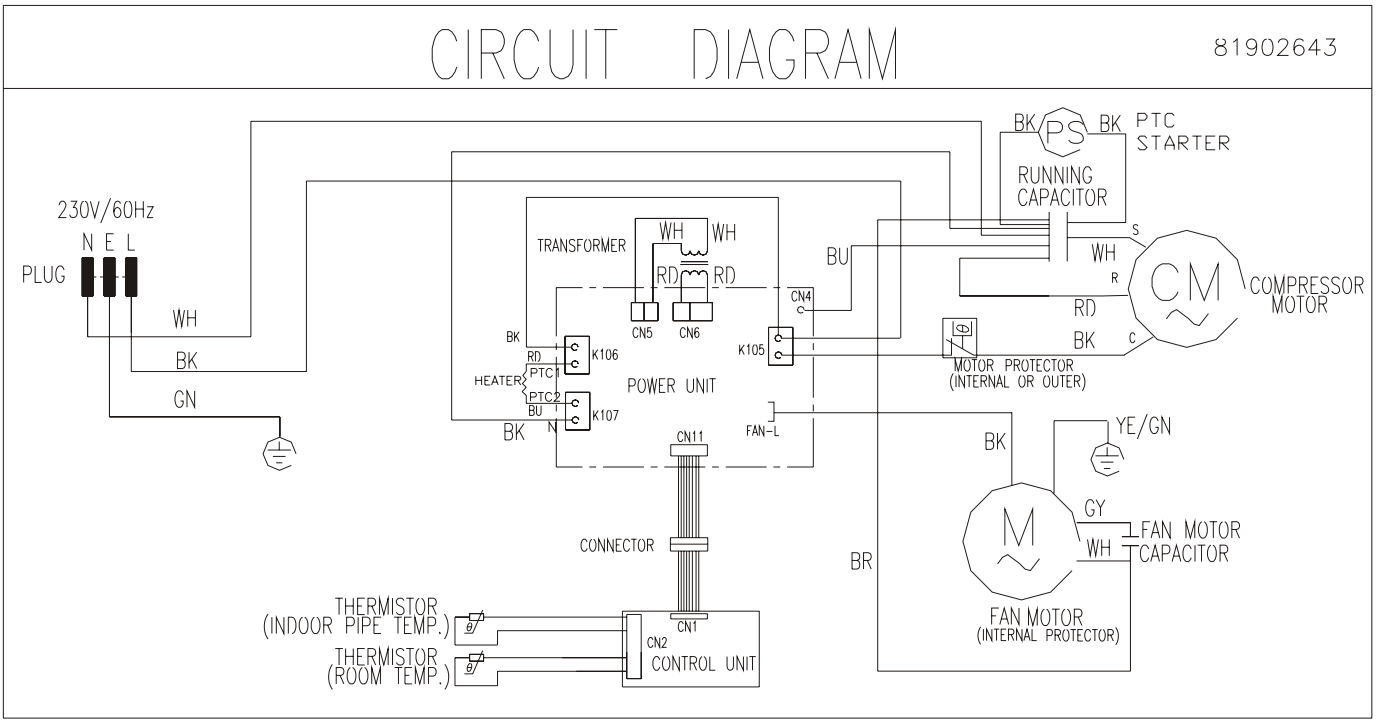


Wiring Diagrams

81902642

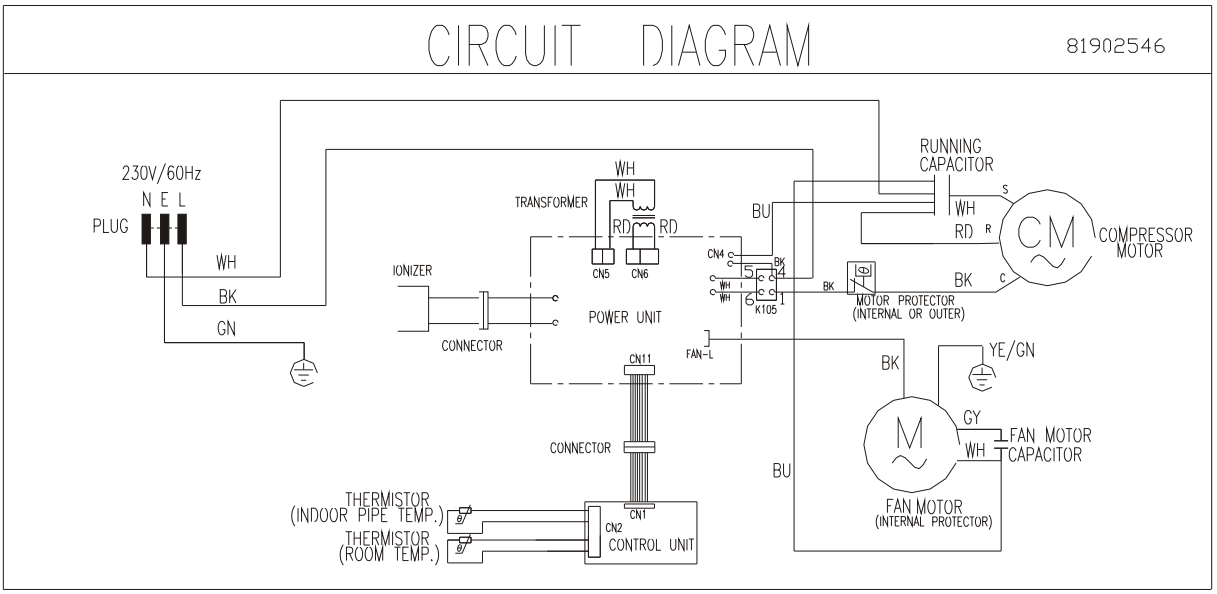


81902643

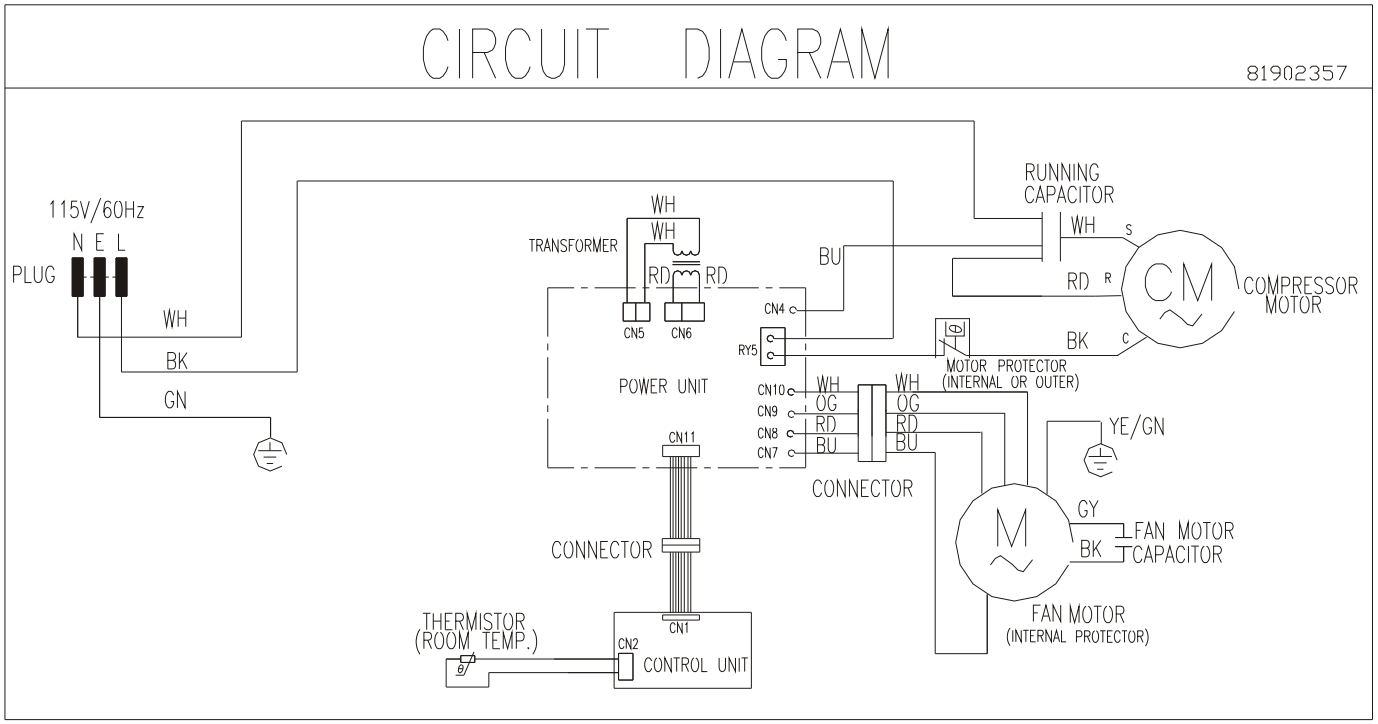


Wiring Diagrams

81902546

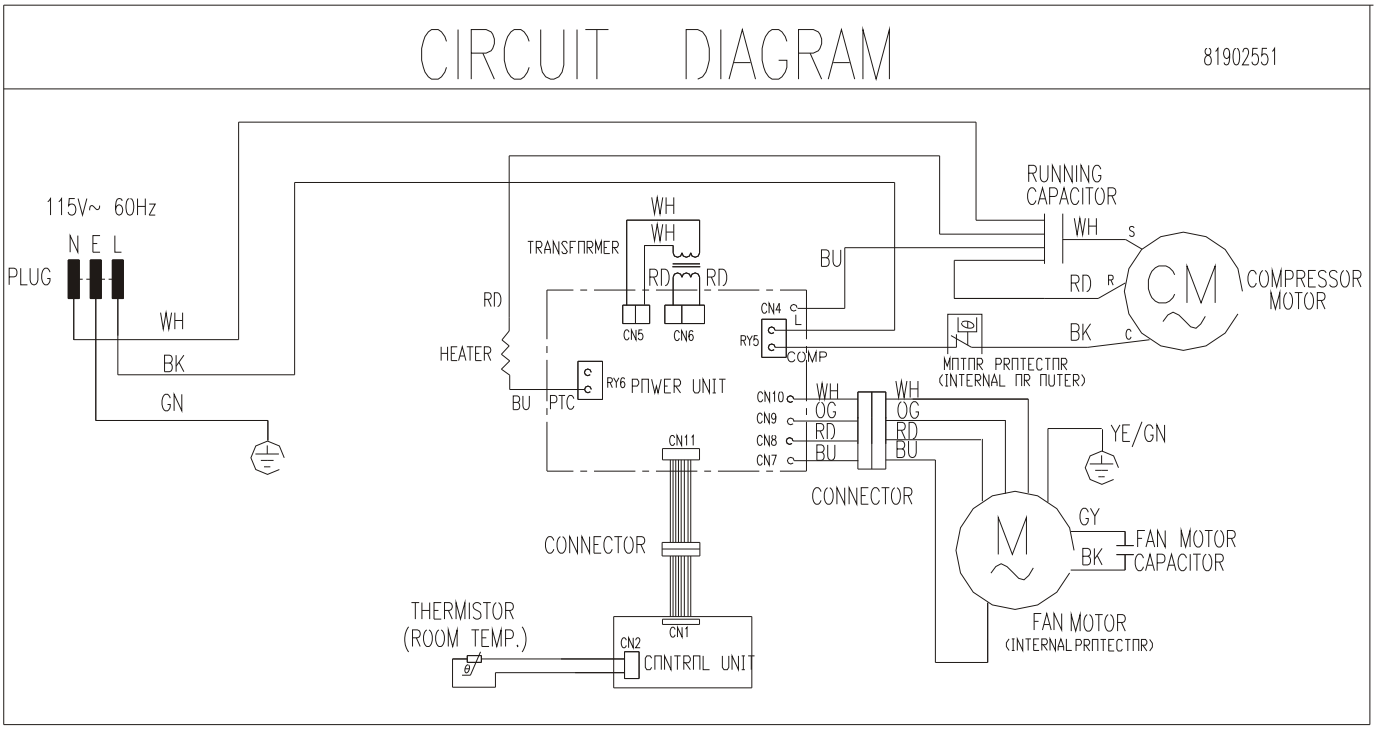


81902357

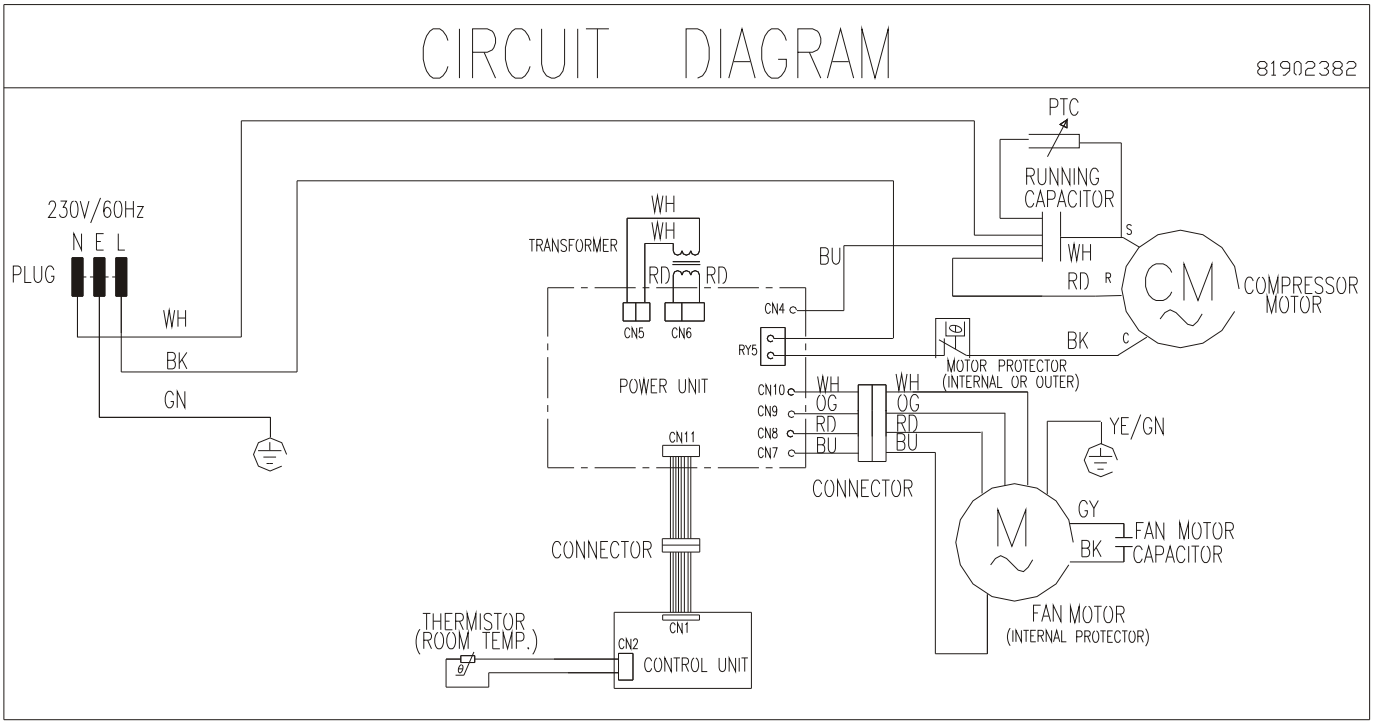


Wiring Diagrams

81902551

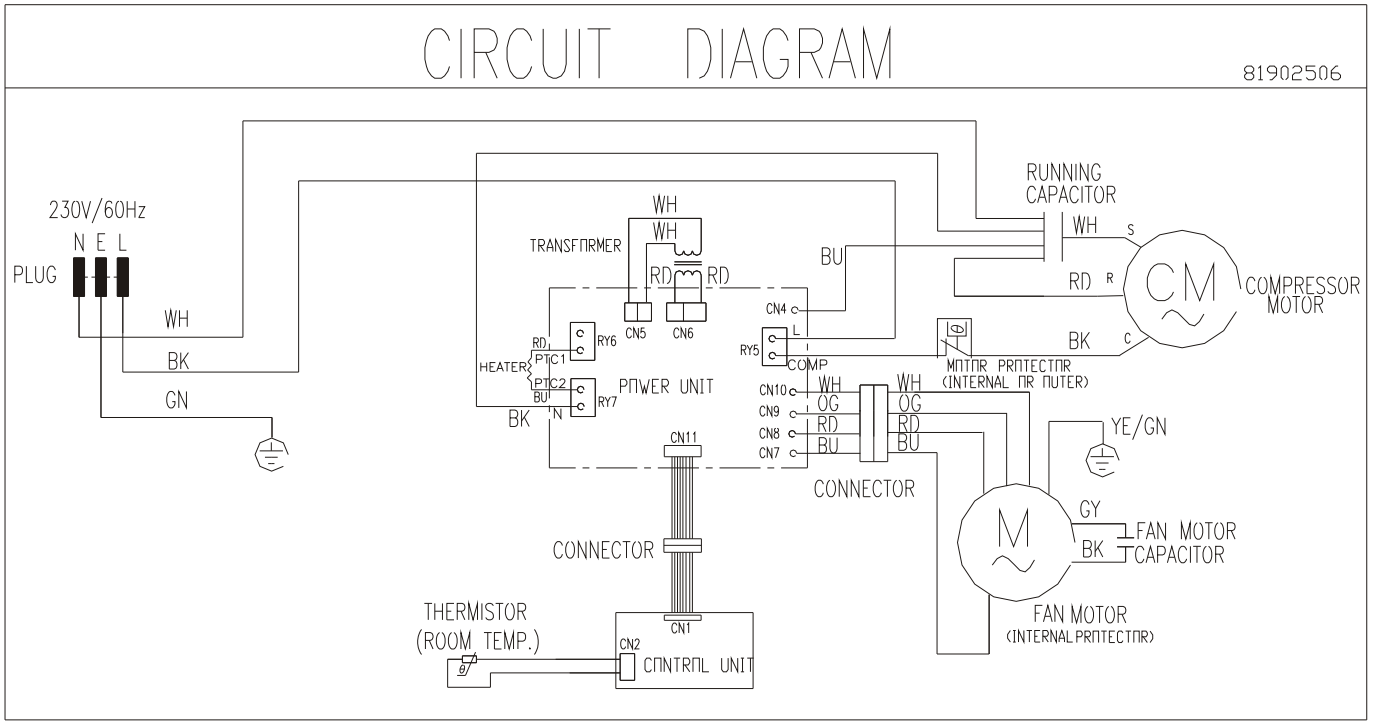


81902382



Wiring Diagrams

81902506



ROOM AIR CONDITIONERS TROUBLESHOOTING

CAUTION: Review Safe Servicing Practices in the front of this manual before attempting diagnostic procedures and repairs.

AIR CONDITIONER VOLTAGE LIMITS

NAMEPLATE RATING	MINIMUM	MAXIMUM
115VAC	103.5VAC	126.5VAC
230VAC	207VAC	253VAC
208/230VAC	197.5VAC	253VAC

AIR CONDITIONER VOLTAGE LIMITS

Low voltage is a common cause of trouble in the operation of any room air conditioner.

Improper voltage may cause one or more of the following problems:

1. Unit will not start.
2. Compressor motor cycling on motor protector.
3. Premature failure of motor protector.
4. Blown fuses.
5. Premature failure of compressor or fan motor.
6. Noticeable dimming of lights when air conditioner is running.
7. Evaporator icing. Low voltage may reduce fan speed resulting in inadequate air flow over evaporator, thereby allowing it to ice up.

Low voltage can also be the direct result of inadequately wired circuits, extension cords, or loose fuses and connections to the power supply. Voltage may also be a general condition in the area (a responsibility of the power company).

All units will start and run on the minimum voltage stated in the chart to the left, and will perform satisfactorily if the voltage remains constant. Low voltage caused by defective wiring will not remain constant under load.

To test for low voltage, use a reliable meter with sufficient capacity to measure the required voltage. Take measurements at the electric power entry point and at the electric outlet serving the air conditioner. Take readings with the unit off, while the unit is starting, and again while the unit is running. The lowest reading should not drop below the lowest value listed in the chart.

HIGH VOLTAGE

High voltage can be equally troublesome, causing motors to overheat, cycle on their protectors, or break down electrically. This problem can only be solved by the power company.

ELECTRONIC CONTROL

This control is not repairable. If any component in the control is defective, the entire control must be replaced.

IMPORTANT NOTICE: Repair or replace any malfunctioning line voltage component before testing or replacing the electronic control. **DO NOT** assume a service problem is directly caused by the electronic control system. A line voltage component (including power cord and wiring) that has opened, shorted, grounded or otherwise malfunctioned, may have created a service problem.

SYMPTON	POSSIBLE CAUSE
Fan motor will not run.	1. No power. 2. Power supply cord. 3. Selector switch. 4. Energy sawing switch(if applicable). 5. Electronic control(if applicable). 6. Wire disconnected or connection loose. 7. Capacitor.(Dischage capacitor before testing.) 8. Defective fan motor windings. 9. Will not rotate. Fan blade hitting shroud or blower wheel hitting scroll. (Motor cycles on overload.)
Fan motor runs intermittently.	1. Cycle on motor protector.
Fan motor noisy.	1. Condenser fan blade or evaporator blower wheel. 2. Loose power clamp or set screw. 3. Worn bearings. 4. Grommets(if applicable).

SYMPTON	POSSIBLE CAUSE
Compressor will not run, but fan motor runs.	1. Voltage. 2. Wiring. 3. Selector switch. 4. Temperature control. 5. Capacitor. (Discharge capacitor before testing.) 6. Compressor. 7. Motor protector(external). 8. Motor protector(internal). 9. Electronic control(if applicable). 10. Hard starting.
Compressor cycles on motor protector.	1. Voltage. 2. Motor protector(external). 3. Motor protector(internal). 4. Fan motor. 5. Condenser air flow restriction. 6. Condenser fins damaged. 7. Capacitor. 8. Wiring. 9. Refrigerant system.
Insufficient cooling.	1. Low capacity. 2. Air filter. 3. Exhaust door open. 4. Unit undersized.
Excessive noise.	1. Evaporator blower wheel. 2. Condenser wheel. 3. Copper tubing. 4. Compressor internal noise. 5. Fan motor.
Excessive water or condensation.	1. Unit operating under extremely high humidity conditions.
No cooling.	1. Refrigerant leak.
Unit is cooling but room is not cool.	1. Amps and watts. 2. Sealed refrigeration system.
Wattage decreases slowly until abnormally low.	1. Undercharged, restricted strainer or plugged restrictor tube.
Wattage decreases immediately.	1. No refrigerant 2. Compressor defective.
Wattage continues high.	1. Refrigerant overcharge.
Evaporator coil partially frosted.	1. System low on refrigerant.
Evaporator completely iced.	1. Low outside temperature.
No heat.	1. No power. 2. Selector switch position. 3. Temperature control position. 4. Fan motor. 5. Heating element. 6. Selector switch. 7. Temperature control. 8. Terminals and connectors.
Fan motor will not rotate during heat cycle. (Heat/Cool models only.)	1. Thermostatic drain valve.(what level control, if applicable.)