



WPC43M

PRODUCT SPECIFICATIONS



R-410A

13 SEER

3, 4, & 5 TONS

**COOLING CAPACITY:
36,000 - 56,000 BTU/H**

PACKAGED AIR CONDITIONER

The Whirlpool® brand WPC43 Packaged Air Conditioner features energy-efficient cooling and heating performance in one self-contained unit. This unit is housed in a heavy-gauge, galvanized-steel cabinet protected by a high-quality, UV-resistant powder-paint finish and allows for a ground-level or rooftop mount.

Standard Features

- Energy-efficient compressor with internal relief valve
- EEM blower motor; PSC blower motor on 3-ton units
- Convertible airflow — horizontal or downflow
- Copper tube/aluminum fin coil
- Totally enclosed, permanently lubricated condenser fan motor
- Fully-charged R-410A system
- Electric heat kit available as a field-installed accessory

Cabinet Features

- Heavy-gauge galvanized-steel cabinet with attractive Hannah Slate Gray Durashield® powder-paint finish
- Fully insulated blower compartment with convenient access panels
- Louvered condenser coil protection
- One footprint; two heights

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* To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec. Full warranty details available at www.whirlpoolhvac.com.

PRODUCT SPECIFICATIONS

NOMENCLATURE

	W	P	C	4	3	36	A	M	A	A	
	1	2	3	4	5	6,7	8	9	10	11	
Brand W Whirlpool											Engineering Minor Revision
Product Category P Packaged Unit											Engineering Major Revision
Type H Heat Pump C Air Conditioner											Configuration M Multiple Position H Horizontal
Refrigerant R410A											Voltage A 208-230 1 Phase B 208-230 3 Phase
SEER 3 13 SEER 5 15 SEER 4 14 SEER 6 16 SEER											Nominal Capacity 24 2 Tons 42 3.5 Tons 30 2.5 Tons 48 4 Tons 36 3 Tons 60 5 Tons

SPECIFICATIONS

	WPC43 36AMA*	WPC43 48AMA*	WPC43 60AMA*
Cooling Capacity			
Total BTU/h	35,000	45,500	56,000
Sensible BTU/h	26,250	35,945	40,880
SEER / EER	13/10.9	13/11	13/10.9
Decibels	80.1	81.7	80.2
Evaporator Motor			
Type	DD	X-13	X-13
Nominal Cooling CFM	1,180	1,700	1,750
Wheel (DxW)	10 x 9	10 x 9	10 x 9
No. of Speeds	3	5	5
Horsepower - RPM	1/3	3/4	1.0
Evaporator Coil			
Face Area (ft ²)	4.52	6.17	6.17
Rows Deep/ Fin per Inch	4/14	4	4
Drain Size (NPT)	3/4"	3/4"	3/4"
Refrigerant Charge (oz.)	85	120	195
Condenser Fan / Coil			
Horsepower - RPM	1/4 - 1,075	1/4 - 1,075	1/4 - 1,075
Fan Diameter / # Fan Blades	22 / 3	22 / 3	22 / 3
Face Area (ft ²)	12.29	15.36	21.04
Rows Deep/ Fins per Inch	1/24	1/24	2/16
Compressor			
Quantity	1	1	1
Type	Scroll	Scroll	Scroll
Stage	Single	Single	Single
Electrical Data			
Voltage-Phase	208/230-1	208/230-1	208/230-1
Compressor RLA/LRA	16.7 / 79	19.9 / 109	26.4 / 134
Indoor Blower FLA / LRA	3.06 / 4.1	5.8 / -	7.6 / -
Outdoor Fan FLA / LRA	1.4 / 2.9	1.4 / 2.9	1.4 / 2.9
Total Unit Amps	21.2	27.1	35.4
Min. Circuit Ampacity ¹	25.3	32.1	42
Max. Overcurrent Protection ²	40 amps	50 amps	60 amps
Ship Weight (lbs)	410	510	533

¹ Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

² May use fuses or HACR-type circuit breakers of the same size as noted.

Note: Always check the S&R plate for electrical data on the unit being installed.

PRODUCT SPECIFICATIONS

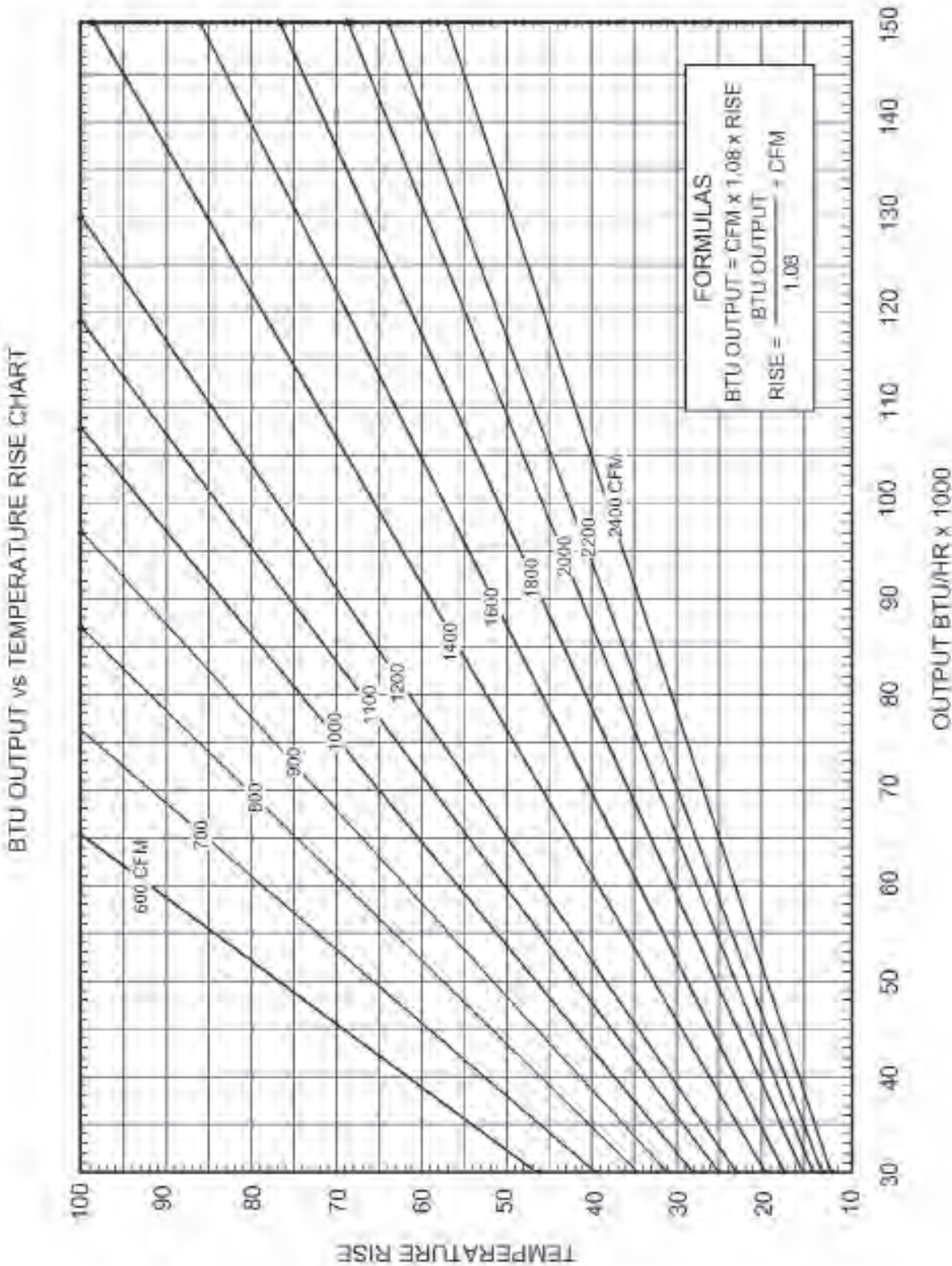
AIRFLOW DATA

Model	Motor Tap Speed	Volts	E.S.P (In. of H ₂ O)								
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
WPC43 36AM**	Low	230	CFM	1,122	1,078	1,032	972	915	804	687	558
			Watts	338	330	321	310	300	283	264	250
	Med	230	CFM	1,387	1,331	1,264	1,209	1,119	1,041	935	748
			Watts	456	440	428	412	399	382	363	330
	High	230	CFM	1,521	1,454	1,388	1,311	1,230	1,144	1,055	939
			Watts	534	521	510	490	477	461	442	420
WPC43 48AM**	T1 (G)	230	CFM	1,440	1,395	1,360	1,310	1,265	1,235	1,190	1,130
			Watts	275	285	295	315	325	335	345	355
	T2 / T3 (W2)	230	CFM	1,795	1,765	1,715	1,695	1,650	1,600	1,500	1,375
			Watts	475	490	505	520	530	535	510	475
	T4 / T5 (Y)	230	CFM	1,860	1,820	1,785	1,745	1,700	1,625	1,515	1,395
			Watts	515	530	545	565	570	550	535	485
WPC43 60AM**	T1 (G)	230	CFM	1,755	1,720	1,685	1,645	1,615	1,570	1,530	1,465
			Watts	420	435	455	460	475	490	500	500
	T2 / T3 (W2)	230	CFM	1,850	1,820	1,775	1,735	1,705	1,675	1,610	1,495
			Watts	480	500	515	525	535	555	545	520
	T4 / T5 Y	230	CFM	2,180	2,125	2,050	1,975	1,875	1,800	1,655	1,530
			Watts	770	755	725	700	675	640	575	540

Notes:

- Data shown is dry coil. Wet coil pressure drop is approximately 0.1" H₂O, for two-row indoor coil; 0.2" H₂O, for three-row indoor coil; and 0.3" H₂O, for four-row indoor coil.
- Data shown does not include filter pressure drop, approx. 0.08" H₂O.
- ALL MODELS SHOULD RUN NO LESS THAN 350 CFM/TON. USE HIGHER SPEED TAP OR NEXT SIZE LARGER BLOWER ASM. See Repair Parts list.
- Reduce airflow by 2% for 208-volt operation.

TEMPERATURE RISE RANGE CHART



PRODUCT SPECIFICATIONS

EXPANDED COOLING DATA — WPC4336AMA*

IDB	Airflow	Outdoor Ambient Temperature																									
		65°F				75°F				85°F				95°F				105°F				115°F					
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
70	1326	MBh	34.3	35.5	38.9	-	32.7	33.9	37.1	-	31.9	33.1	36.2	-	30.3	31.4	34.4	-	28.1	29.1	31.9	-	28.1	29.1	31.9	-	
		S/T	0.75	0.63	0.43	-	0.78	0.65	0.46	-	0.82	0.69	0.48	-	0.86	0.71	0.49	-	0.86	0.72	0.50	-	0.86	0.72	0.50	-	
		ΔT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-	
		kW	2.54	2.59	2.66	-	2.72	2.78	2.86	-	3.03	3.09	3.18	-	3.15	3.21	3.31	-	3.25	3.32	3.43	-	3.25	3.32	3.43	-	
	Amps	-0.4	-0.2	0.1	-	0.3	0.5	0.8	-	1.1	1.4	1.7	-	1.8	2.1	2.5	-	2.6	2.9	3.3	-	3.3	3.6	4.0	-		
	Hi PR	244	263	278	-	274	295	311	-	312	335	354	-	355	382	403	-	399	430	454	-	441	475	501	-		
	Lo PR	113	120	131	-	119	127	139	-	124	132	144	-	130	139	151	-	137	145	159	-	141	150	164	-		
	MBh	33.3	34.5	37.8	-	32.5	33.7	36.9	-	31.7	32.9	36.1	-	31.0	32.1	35.2	-	29.4	30.5	33.4	-	27.3	28.3	31.0	-		
	S/T	0.72	0.60	0.41	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.45	-	0.82	0.68	0.47	-	0.82	0.69	0.48	-		
	ΔT	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-		
	kW	2.52	2.57	2.64	-	2.70	2.76	2.84	-	2.86	2.92	3.01	-	3.00	3.06	3.16	-	3.12	3.19	3.29	-	3.23	3.29	3.40	-		
	Amps	-0.5	-0.3	-0.0	-	0.2	0.4	0.8	-	1.0	1.3	1.6	-	1.7	2.0	2.4	-	2.5	2.7	3.2	-	3.2	3.5	3.9	-		
Hi PR	242	260	275	-	271	292	308	-	309	332	351	-	351	378	399	-	395	426	449	-	437	470	496	-			
Lo PR	112	119	130	-	118	126	137	-	123	131	143	-	129	137	150	-	135	144	157	-	140	149	162	-			
1034	1326	MBh	30.7	31.9	34.9	-	30.0	31.1	34.1	-	29.3	30.4	33.3	-	28.6	29.6	32.5	-	27.2	28.2	30.8	-	25.2	26.1	28.6	-	
		S/T	0.69	0.58	0.40	-	0.72	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.79	0.66	0.46	-	
		ΔT	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	12	-	18	15	12	-	
		kW	2.46	2.51	2.58	-	2.64	2.69	2.77	-	2.79	2.85	2.94	-	2.93	2.99	3.08	-	3.05	3.11	3.21	-	3.15	3.21	3.32	-	
	Amps	-0.8	-0.6	-0.3	-	-0.1	0.2	0.5	-	0.7	1.0	1.3	-	1.4	1.7	2.1	-	2.1	2.4	2.8	-	2.8	3.1	3.5	-		
	Hi PR	235	252	267	-	263	283	299	-	299	322	340	-	341	367	387	-	384	413	436	-	424	456	482	-		
	Lo PR	108	115	126	-	115	122	133	-	119	127	138	-	125	133	145	-	131	140	152	-	136	144	158	-		
	75	1326	MBh	34.9	35.9	38.9	41.7	34.1	35.1	38.0	40.7	33.3	34.2	37.1	39.8	32.4	33.4	36.2	38.8	30.8	31.7	34.4	36.9	28.6	29.4	31.8	34.2
			S/T	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.39	0.91	0.81	0.61	0.40	0.94	0.84	0.63	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.66	0.43
			ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
			kW	2.56	2.61	2.69	2.77	2.74	2.80	2.88	2.97	2.91	2.97	3.06	3.15	3.05	3.11	3.21	3.31	3.17	3.24	3.34	3.45	3.28	3.35	3.45	3.57
		Amps	-0.4	-0.1	0.2	0.5	0.4	0.6	0.9	1.3	1.2	1.5	1.8	2.3	1.9	2.2	2.6	3.1	2.7	3.0	3.4	3.9	3.4	3.7	4.2	4.7	
Hi PR		247	266	280	292	277	298	315	328	315	339	358	373	359	386	408	425	403	434	458	478	446	480	507	528		
Lo PR		114	121	133	141	121	128	140	149	125	133	146	155	132	140	153	163	138	147	160	171	143	152	166	176		
MBh		33.9	34.9	37.7	40.5	33.1	34.1	36.9	39.6	32.3	33.2	36.0	38.6	31.5	32.4	35.1	37.7	29.9	30.8	33.3	35.8	27.7	28.5	30.9	33.2		
S/T		0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.87	0.77	0.59	0.38	0.89	0.80	0.60	0.39	0.93	0.83	0.63	0.40	0.93	0.84	0.63	0.41		
ΔT		21	20	16	11	22	20	16	11	22	20	16	11	22	20	17	11	22	20	16	11	20	19	15	11		
kW		2.54	2.59	2.67	2.75	2.72	2.78	2.86	2.95	2.88	2.94	3.03	3.13	3.03	3.09	3.19	3.29	3.15	3.21	3.31	3.42	3.25	3.32	3.43	3.54		
Amps		-0.4	-0.2	0.1	0.4	0.3	0.5	0.8	1.2	1.1	1.4	1.7	2.2	1.8	2.1	2.5	3.0	2.6	2.9	3.3	3.8	3.3	3.6	4.0	4.5		
Hi PR	244	263	278	290	274	295	311	325	312	335	354	369	355	382	403	421	399	430	454	473	441	475	502	523			
Lo PR	113	120	131	140	119	127	139	148	124	132	144	153	130	139	151	161	137	145	159	169	141	150	164	175			
MBh	31.3	32.2	34.8	37.4	30.5	31.4	34.0	36.5	29.8	30.7	33.2	35.6	29.1	29.9	32.4	34.8	27.6	28.4	30.8	33.0	25.6	26.3	28.5	30.6			
S/T	0.79	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.38	0.89	0.80	0.61	0.39	0.90	0.81	0.61	0.39			
ΔT	22	20	16	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	12	21	19	15	11			
kW	2.48	2.53	2.60	2.68	2.66	2.71	2.79	2.88	2.82	2.87	2.96	3.05	2.95	3.02	3.11	3.21	3.07	3.14	3.23	3.34	3.17	3.24	3.34	3.45			
Amps	-0.7	-0.5	-0.2	0.2	0.0	0.3	0.6	0.9	0.8	1.1	1.4	1.8	1.5	1.8	2.2	2.6	2.2	2.5	2.9	3.4	2.9	3.2	3.7	4.2			
Hi PR	237	255	269	281	266	286	302	315	302	325	344	358	344	371	391	408	387	417	440	459	428	461	486	507			
Lo PR	110	117	127	136	116	123	134	143	120	128	140	149	126	134	147	156	132	141	154	164	137	146	159	170			

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Design Subcooling, 10 ± 2 °F @ the liquid access fitting connection ARI 95 test conditions. Design Superheat 9 ± 2 °F @ the compressor suction access fitting connection.
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 Amps = outdoor unit amps (comp.+fan)

PRODUCT SPECIFICATIONS

EXPANDED COOLING DATA — WPC4348AMA*

Table with columns for Outdoor Ambient Temperature (75°F, 85°F, 95°F, 105°F, 115°F) and Indoor Wet Bulb Temperature (65°F, 75°F, 85°F, 95°F, 105°F, 115°F). Rows include Airflow (MBh, S/T, ΔT, kW, Amps, HI PR, LO PR) for models 1911, 1700, and 1490.

Table with columns for Outdoor Ambient Temperature (75°F, 85°F, 95°F, 105°F, 115°F) and Indoor Wet Bulb Temperature (65°F, 75°F, 85°F, 95°F, 105°F, 115°F). Rows include Airflow (MBh, S/T, ΔT, kW, Amps, HI PR, LO PR) for models 1911, 1700, and 1490.

IDB: Entering Indoor Dry Bulb Temperature
High and low pressures are measured at the liquid and suction access fittings.
Design Subcooling, 10 ± 2 °F @ the liquid access fitting connection ARI 95 test conditions. Design Superheat 10 ± 2 °F @ the compressor suction access fitting connection.

Shaded area reflects ACCA (TVA) conditions

kW = Total system power

Amps = outdoor unit amps (comp.+fan)

PRODUCT SPECIFICATIONS

HEAT KIT ELECTRICAL DATA (BLOWER ONLY, HEAT MODE)

Model & Heat Kit Usage	Circuit #1		Circuit #2		Actual kW / BTU@ 240V
	MCA ¹	MOP ²	MCA ¹	MOP ²	
WPC4336AM**	1.9 / 1.9	--	--	--	--
HKR-05*, HKR-05C*	24 / 27	30 / 30	--	--	4.75 / 16,200
HKR-08*, HKR-08C*	34 / 39	40 / 40	--	--	7.0 / 23,800
HKR-10*, HKR-10C*	45 / 52	60 / 60	--	--	9.5 / 32,400
HKR-15*, HKR-15C*	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
WPC4348AM**	5.8 / 5.8	--	--	--	--
HKR-05*, HKR-05C*	25 / 28	30 / 30	--	--	4.75 / 16,200
HKR-08*, HKR-08C*	38 / 40	40 / 40	--	--	7.0 / 23,800
HKR-10*, HKR-10C*	49 / 56	60 / 60	--	--	9.5 / 32,400
HKR-15*, HKR-15C*	49 / 56	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR-20*, HKR-20C*	49 / 56	60 / 60	43 / 49	60 / 60	19.5 / 66,500
WPC4360AM**	7.6 / 7.6	--	--	--	--
HKR-05*, HKR-05C*	29 / 30	30 / 30	--	--	4.75 / 16,200
HKR-08*, HKR-08C*	39 / 40	40 / 40	--	--	7.0 / 23,800
HKR-10*, HKR-10C*	51 / 58	60 / 60	--	--	9.5 / 32,400
HKR-15*, HKR-15C*	51 / 58	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR-20*, HKR-20C*	51 / 58	60 / 60	43 / 49	60 / 60	19.5 / 66,500

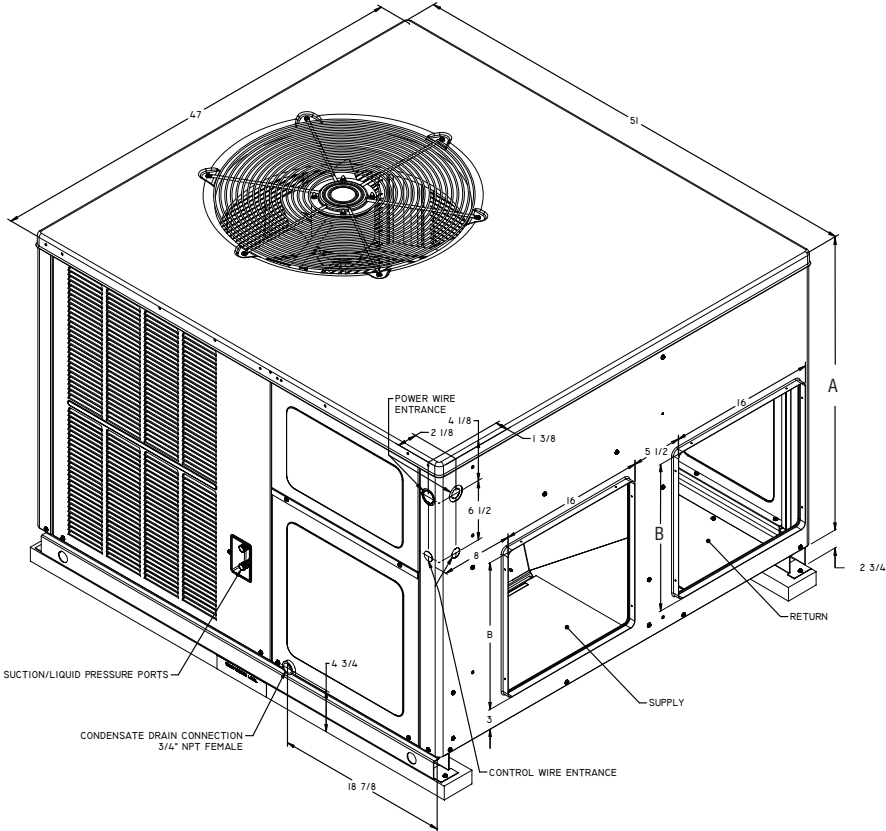
¹ Minimum Circuit Ampacity @ 208 / 240 V

² Maximum Overcurrent Protection device @ 208 / 240 V

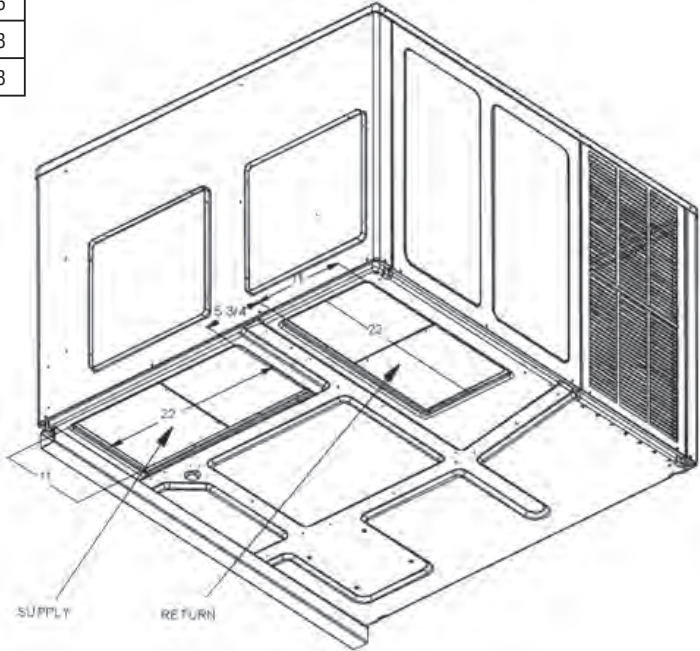
* Revision level that may or may not be designated

C Circuit Breaker option

DIMENSIONS

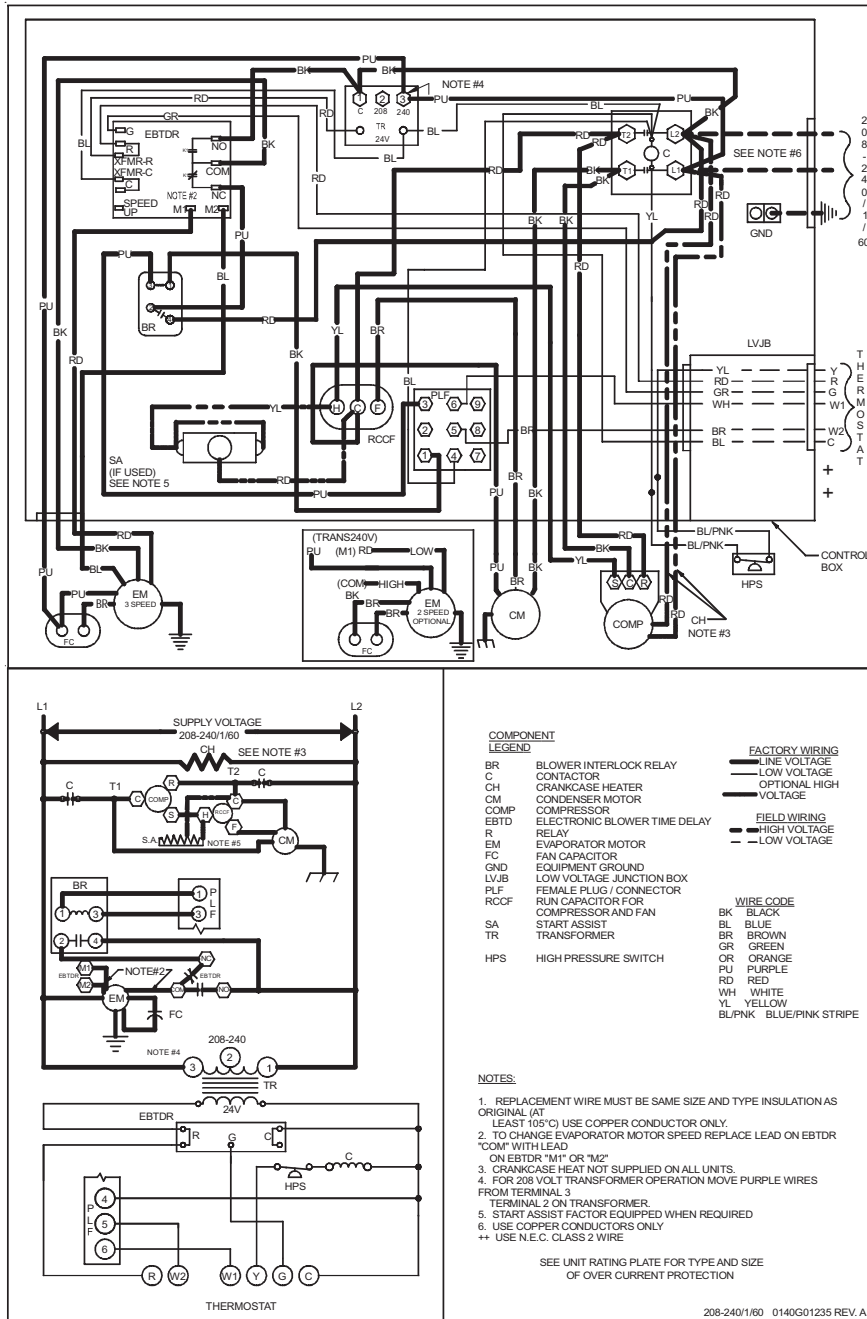


Model	Chassis Size		Dimensions (")		
	Medium	Large	H x D x W	A	B
WPC4336AM**	X		34 3/4 x 51 x 47	32	16
WPC4348AM**		X	42 3/4 x 51 x 47	40	18
WPC4360AM**		X	42 3/4 x 51 x 47	40	18



PRODUCT SPECIFICATIONS

WIRING DIAGRAM — WPC4336AM**



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring

⚠ WARNING

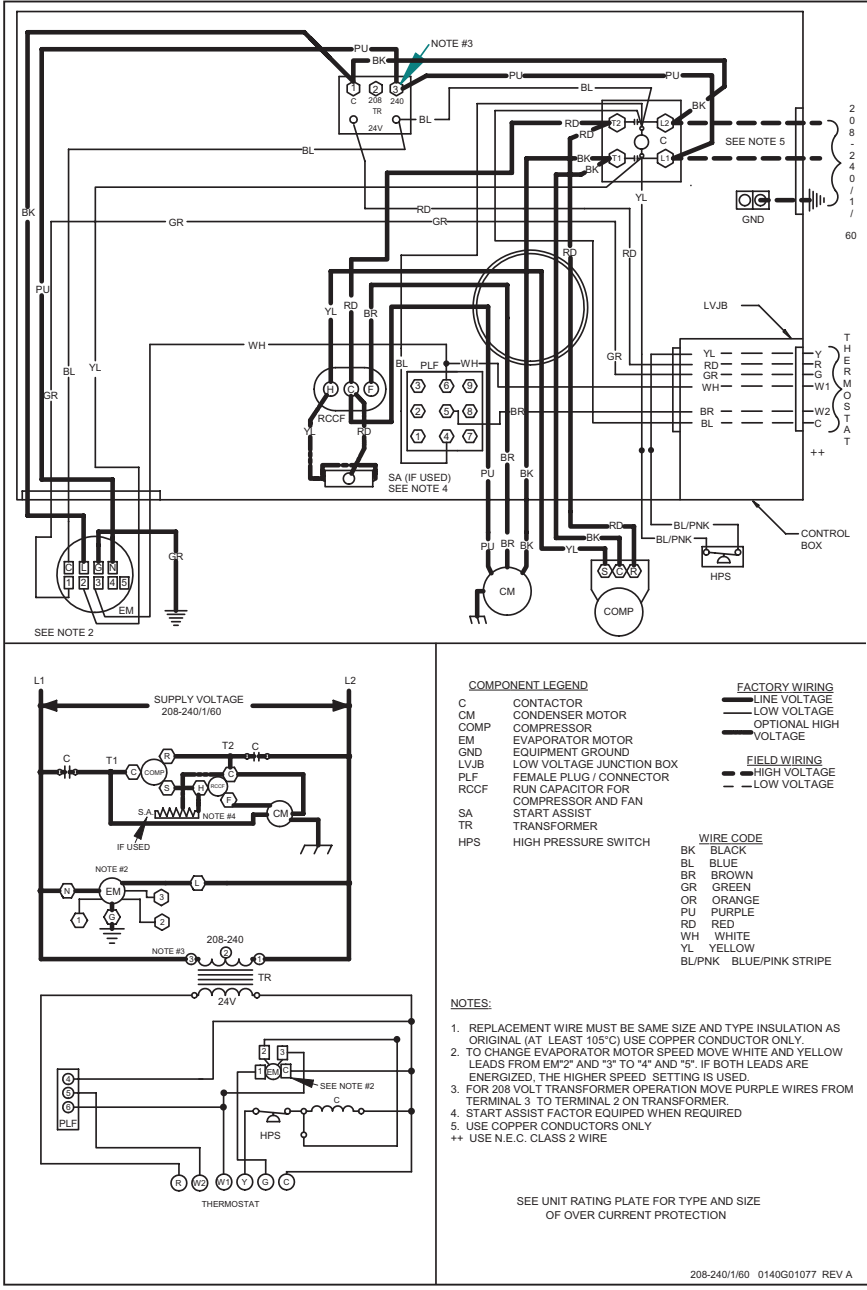
HIGH VOLTAGE!

Disconnect all power before servicing or installing this unit.

Multiple power sources may be present.

Failure to do so may cause property damage, personal injury, or death.

WIRING DIAGRAM — WPC4348-60AM**



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring

⚠ WARNING

HIGH VOLTAGE!

Disconnect all power before servicing or installing this unit.

Multiple power sources may be present.

Failure to do so may cause property damage, personal injury, or death.

PRODUCT SPECIFICATIONS

ACCESSORIES

Item	Description
20464501PDGK	Horizontal Duct Cover for Medium Chassis
20464502PDGK	Horizontal Duct Cover for Large Chassis
GPH13MED102/103	Downflow Economizer for Medium/Large Chassis
GPH13MFR102/103	Internal filter rack for Downflow Applications
OT/EHR18-60	Emergency Heat Relay kit
OT18-60A	Outdoor Thermostat Kit with Lockout Stat
PGC102/103	Roof Curb for Medium/Large Chassis
PGMDD102	Manual Damper for Downflow Application — Medium Chassis
PGMDD103	Manual Damper for Downflow Application — Large Chassis
PGMDH102	Manual 25% Fresh Air Damper for Horizontal Applications — Medium Chassis
PGMDH103	Manual 25% Fresh Air Damper for Horizontal Applications — Large Chassis
PGMDMD102	Motorized Damper for Downflow Application — Medium Chassis
PGMDMD103	Motorized Damper for Downflow Application — Large Chassis
PGMDMH102	Motorized 25% Fresh Air Damper for Horizontal Applications — Medium Chassis
PGMDMH103	Motorized 25% Fresh Air Damper for Horizontal Applications — Large Chassis
SQRPG102	Square-to-Round Adapter with 16" Round for Downflow Applications — Medium Chassis
SQRPG103	Square-to-Round Adapter with 18" Round for Downflow Applications — Large Chassis
SQRPGH101/102	Square-to-Round Adapters for Medium Chassis — 16" x 14"
SQRPGH103	Square-to-Round Adapters for Large Chassis — 18" x 14"

