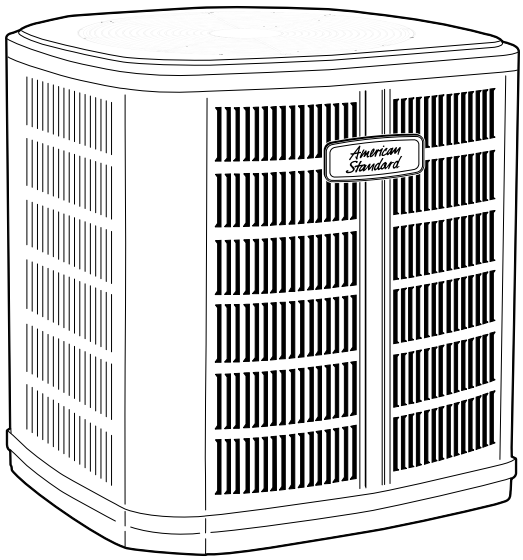
American Standard®
HEATING & AIR CONDITIONING

Product Data

Split System Air Conditioner
3–Phase, 208/230V
3–Phase, 460V

4A7C4036A3000A
4A7C4042A3000A
4A7C4048A3000A
4A7C4060A3000A
4A7C4036A4000A
4A7C4042A4000A
4A7C4048A4000A
4A7C4060A4000A



Note: *"Graphics in this document are for representation only. Actual model may differ in appearance."*

October 2016

12-1387-1B-EN

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Product Specifications

Model No. [a] [b]	4A7C4036A3000A	4A7C4042A3000A	4A7C4048A3000A	4A7C4060A3000A
POWER CONNS. — V/PH/HZ [c]	208/230/3/60	208/230/3/60	208/230/3/60	208/230/3/60
MIN. BRCH. CIR. AMPACITY	12	15	18	21
BR. CIR. PROT. RTG. — MAX. (AMPS)	20	25	30	35
COMPRESSOR	DURATION™- SCROLL	DURATION™- SCROLL	DURATION™- SCROLL	DURATION™- SCROLL
R.L. AMPS [d] — L.R. AMPS	9— 71	11.2— 84	13.8— 83	15.9 — 110
Outdoor Fan FL AMPS	0.77	1.05	1.05	1.05
Fan HP	1/8	1/5	1/5	1/5
Fan Dia (inches)	23.0	27.5	27.5	27.5
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-410A[e]	6 LBS., 1 OZ	6 LBS., 7 OZ	6 LBS., 9 OZ	7 LBS., 10 OZ
LINE SIZE — IN. O.D. GAS [f] [g]	3/4	3/4	7/8	7/8
LINE SIZE — IN. O.D. LIQ. [h]	3/8	3/8	3/8	3/8
Charge Spec. Subcooling	10°F	12°F	10°F	10°F
Dimensions H x W X D Crated (IN.)	38 x 30.1 x 33	34.4 x 35.1 x 38.7	34.4 x 35.1 x 38.7	42.4 x 35.1 x 38.7
Weight — Shipping (lbs.)	183	216	212	246
Weight — Net (lbs.)	156	184	189	211
Optional Accessories:				
Evaporator Defrost Control	AY28X079	AY28X079	AY28X079	AY28X079
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101
Extreme Condition Mount Kit	BAYECMT0023	BAYECMT004	BAYECMT004	BAYECMT004
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001
Low Ambient Kit	BAYLOAM103	BAYLOAM103	BAYLOAM103	BAYLOAM103
Refrigerant Lineset [i]	TAYREFLN7*	TAYREFLN7*	TAYREFLN3*	TAYREFLN3*
Sound Enclosure	BAYSDEN003	BAYSDEN004	BAYSDEN004	BAYSDEN004
Snow Legs — 6″	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002
Snow Legs Extension — 4″	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003
Service Valve Panel Cover	AAYSVPANL3343AA	AAYSVPANL0032AA	AAYSVPANL0032AA	AAYSVPANL0044AA

[a] Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.
[b] Rated in accordance with AHRI standard 270.
[c] Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
[d] This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.
[e] This value approximate. For more precise value see unit nameplate.
[f] Reference the outdoor unit ship-with literature for refrigerant piping length and lift guidelines. Reference the refrigerant piping software pub # 32-3312-xx or refrigerant piping application guide SS-APG006-xx for long line sets or specialty applications (xx denotes latest revision).
[g] American Standard outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit and 15 feet of tested connecting lines. If connecting line length exceeds 15 feet, then final refrigerant charge adjustment is necessary. Each additional foot over 15 feet requires 0.6 ozs of refrigerant. See the Installer's Guide for full charging instructions.
[h] This value approximate. For more precise value see unit nameplate.
[i] * = 15, 20, 25, 30, 40 and 50 foot lineset available.

Model No. [a] [b]	4A7C4036A4000A	4A7C4042A4000A	4A7C4048A4000A	4A7C4060A4000A
POWER CONNS. — V/PH/HZ [c]	460/3/60	460/3/60	460/3/60	460/3/60
MIN. BRCH. CIR. AMPACITY	8	8	8	9
BR. CIR. PROT. RTG. — MAX. (AMPS)	15	15	15	15
COMPRESSOR	DURATION™- SCROLL	DURATION™- SCROLL	DURATION™- SCROLL	DURATION™- SCROLL
R.L. AMPS [d] — L.R. AMPS	5.8 — 38	5.6 — 44	6.2 — 41	7.1 — 52
Outdoor Fan FL AMPS	0.38	0.6	0.6	1.05
Fan HP	1/8	1/5	1/5	1/5
Fan Dia (inches)	23.0	27.5	27.5	27.5
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-410A[e]	6 LBS., 1 OZ	6 LBS., 7 OZ	6 LBS., 9 OZ	7 LBS., 10 OZ
LINE SIZE — IN. O.D. GAS [f] [g]	3/4	3/4	7/8	7/8
LINE SIZE — IN. O.D. LIQ. [h]	3/8	3/8	3/8	3/8
Charge Spec. Subcooling	10°F	12°F	10°F	10°F
Dimensions H x W X D Crated (IN.)	38 x 30.1 x 33	34.4 x 35.1 x 38.7	34.4 x 35.1 x 38.7	42.4 x 35.1 x 38.7
Weight — Shipping (lbs.)	183	216	212	246
Weight — Net (lbs.)	156	184	189	211
Optional Accessories:				
Evaporator Defrost Control	AY28X079	AY28X079	AY28X079	AY28X079
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101
Extreme Condition Mount Kit	BAYECMT0023	BAYECMT004	BAYECMT004	BAYECMT004
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001
Low Ambient Kit	BAYLOAM103	BAYLOAM103	BAYLOAM103	BAYLOAM103
Refrigerant Lineset [i]	TAYREFLN7*	TAYREFLN7*	TAYREFLN3*	TAYREFLN3*
Sound Enclosure	BAYSDEN003	BAYSDEN004	BAYSDEN004	BAYSDEN004
Snow Legs — 6″	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002
Snow Legs Extension — 4″	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003
Service Valve Panel Cover	AAYSVPANL3343AA	AAYSVPANL0032AA	AAYSVPANL0032AA	AAYSVPANL0044AA

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[h] This value approximate. For more precise value see unit nameplate.
[i] * = 15, 20, 25, 30, 40 and 50 foot lineset available.

MODEL	A-Weighted Sound Power Level [dB(A)]	Full Octave Sound Power(dB)							
		63 Hz*	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
4A7C4036A	71	73	73	72	69	68	60	52	45
4A7C4042A	71	81	72	69	69	66	60	57	54
4A7C4048A	71	81	72	69	69	66	60	57	54
4A7C4060A	71	81	72	69	69	66	60	57	54

Note: Rated in accordance with AHRI Standard 270–2008 *For Reference Only

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Accessory Description and Usage

Anti-Short Cycle Timer — Solid state timing device that prevents compressor recycling until five (5) minutes have elapsed after satisfying call or power interruptions. Use in area with questionable power delivery, commercial applications, long lineset, etc.

Evaporation Defrost Control — SPST Temperature actuated switch that cycles the condenser off as indoor coil reaches freeze-up conditions. Used for low ambient cooling to 30°F with TXV.

Rubber Isolators — Five (5) large rubber donuts to isolate condensing unit from transmitting energy into mounting frame or pad. Use on any application where sound transmission needs to be minimized.

Hard Start Kit — Start capacitor and relay to assist compressor motor startup. Use in areas with marginal power supply, on long linesets, low ambient conditions, etc.

Extreme Condition Mount Kit — Bracket kits to securely mount condensing unit to a frame or pad without removing any panels. Use in areas with high winds, or on commercial roof tops, etc.

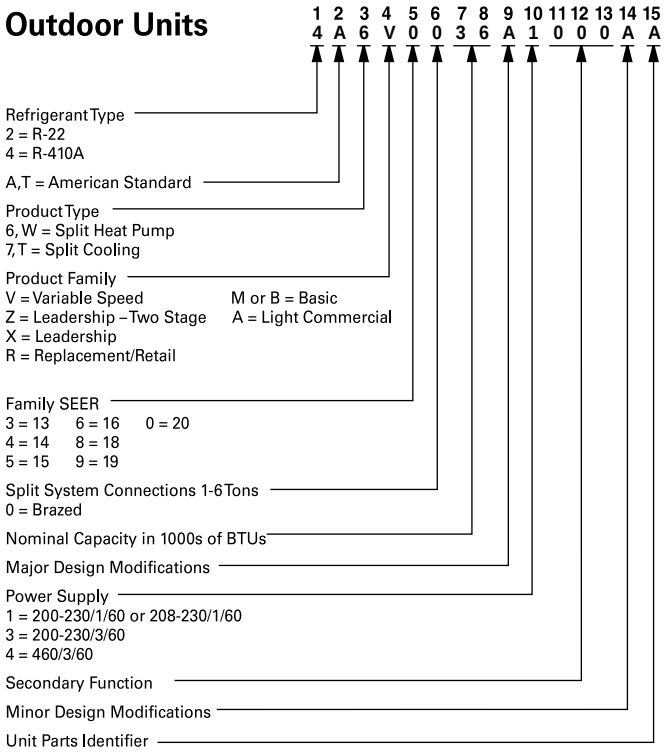
AHRI Standard Capacity Rating Conditions

AHRI Standard 210/240 Rating Conditions

1. Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
2. High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
3. Low Temperature Heating 17°F DB air entering indoor coil.
4. Rated indoor airflow for heating is the same as for cooling.

AHRI Standard 270 Rating Conditions — (Noise rating numbers are determiend with the unit in cooling operations.) Standard Noise Rating number is at 95°F outdoor air.

Model Nomenclature



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Schematic Diagrams

Figure 1. D157062P04 — 230V Models

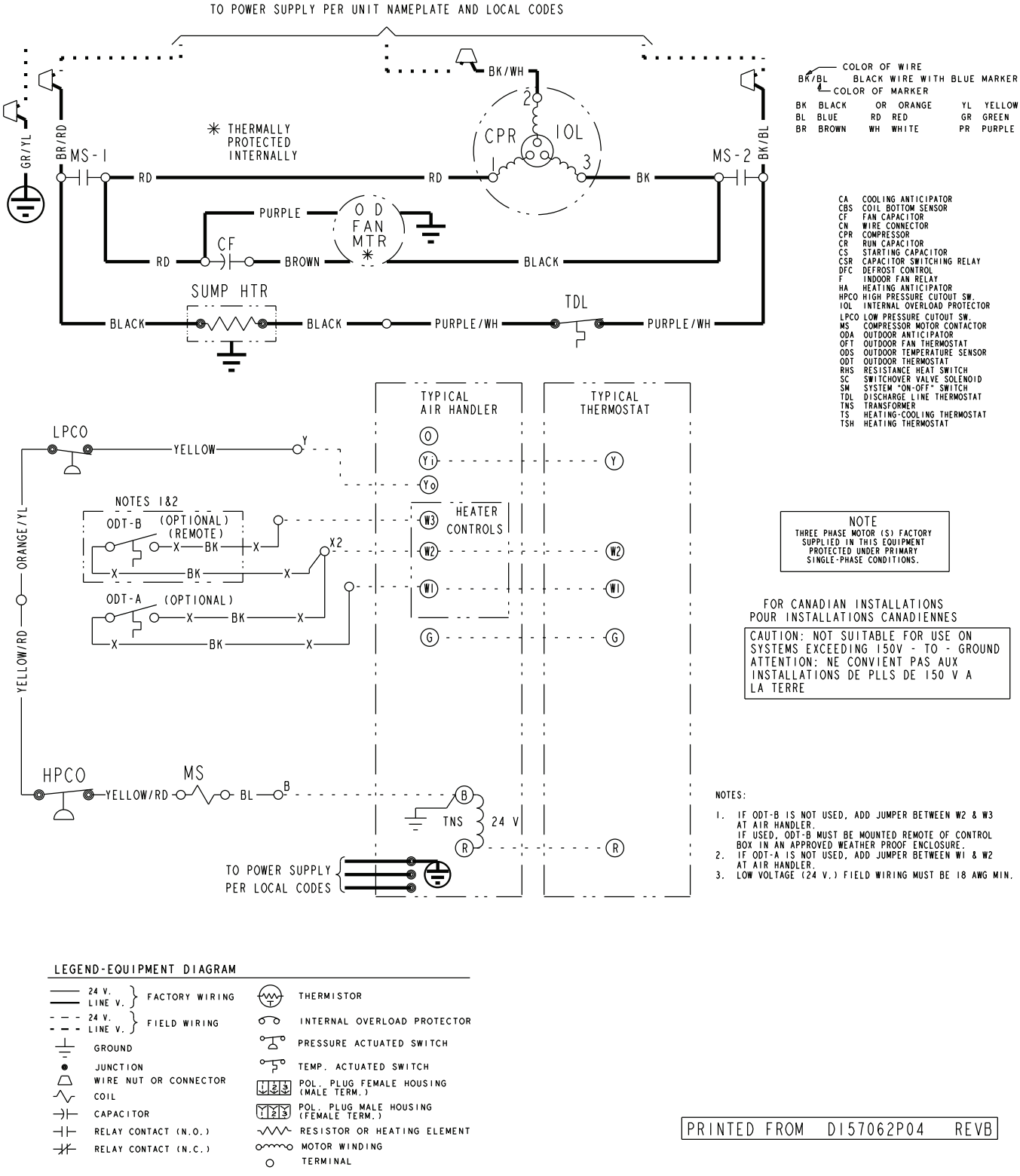
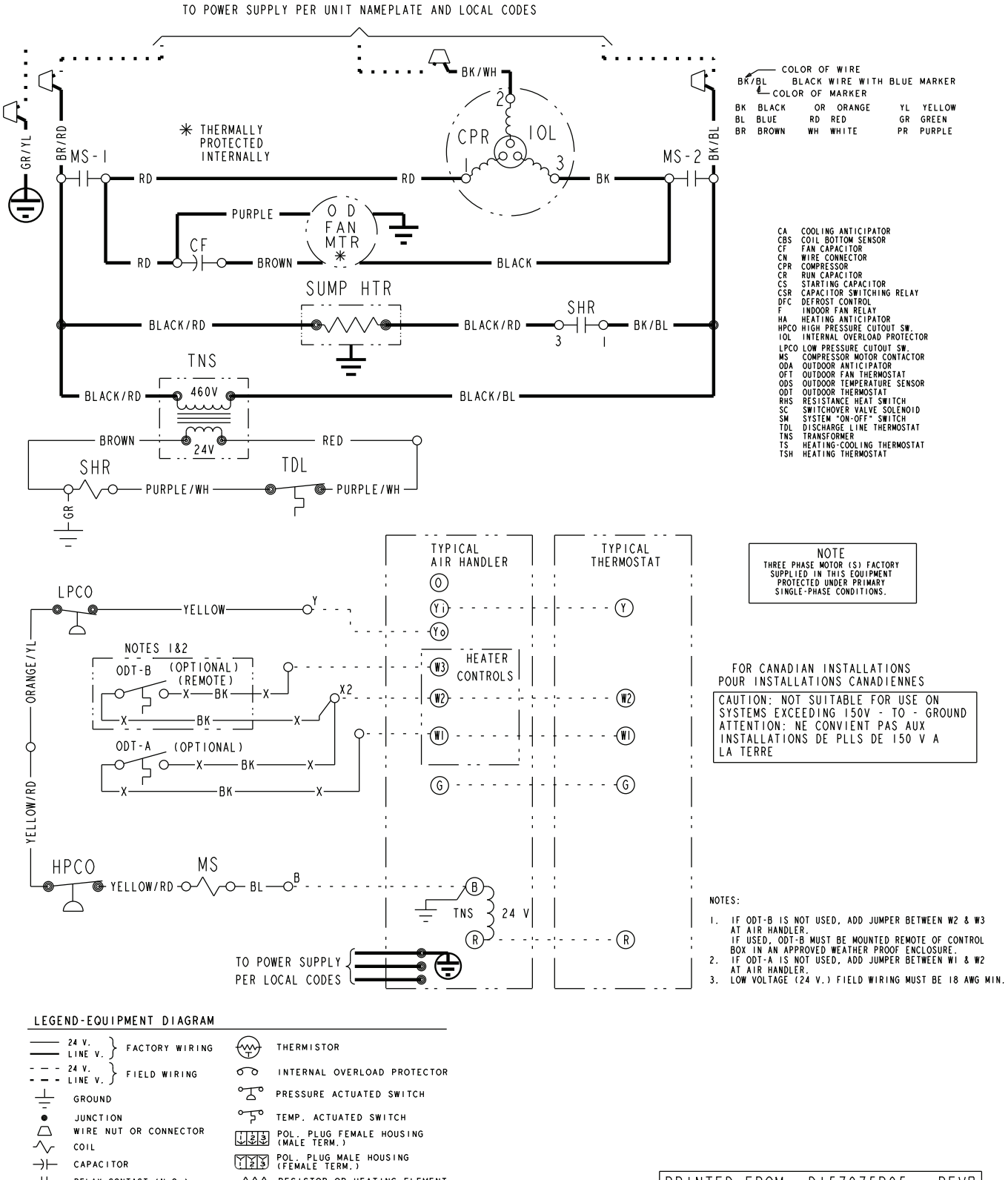


Figure 2. D157075P05 — 460V Models



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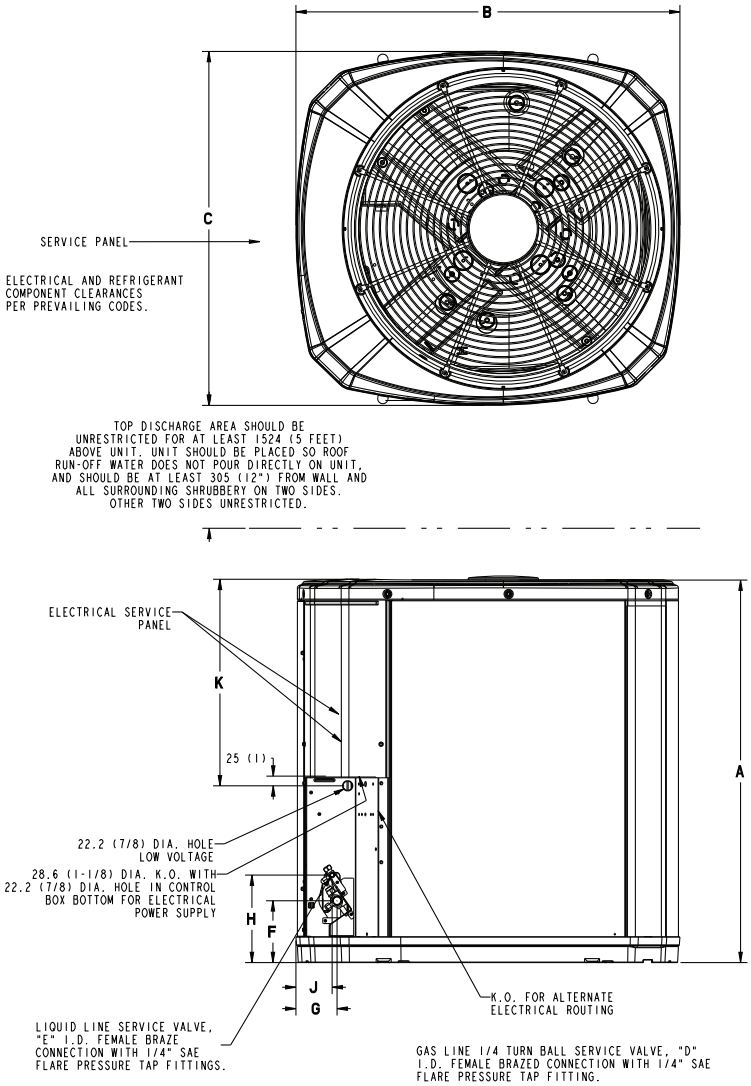
Outline Drawing



Model	Base	A	B	C	D	E	F	G	H	J	K
4A7C4036A	3	832 (32–3/4)	829 (32–5/8)	756 (29–3/4)	3/4	3/8	127 (5)	76 (3)	197 (7–3/4)	60 (2–3/8)	508 (20)
4A7C4042A	4	741 (29–1/8)	946 (37–1/4)	870 (34–1/4)	3/4	3/8	143 (5–5/8)	83 (3–1–4)	206 (8–1/8)	70 (2–3/4)	508 (20)
4A7C4048A	4	741 (29–1/8)	946 (37–1/4)	870 (34–1/4)	7/8	3/8	143 (5–5/8)	83 (3–1–4)	206 (8–1/8)	70 (2–3/4)	508 (20)
4A7C4060A	4	943 (37–1/8)	946 (37–1/4)	870 (34–1/4)	7/8	3/8	143 (5–5/8)	83 (3–1–4)	206 (8–1/8)	70 (2–3/4)	508 (20)

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Mechanical Specification Options

General

The Outdoor Units are fully charged from the factory for up to 15 feet of piping. This unit is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities are matched with a wide selection of air handlers and furnace coils that are AHRI certified. The unit is certified to UL 1995. Exterior is designed for outdoor application.

Casing

Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint finish on all louvered panels and the fan top panel. The corner panels are prepainted. All panels are subjected to our 1,000 hour salt spray test . The base is made of a CMBP-G30 weatherproof material to resist corrosion.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor contactor and high pressure switch. High and low pressure controls are inherent to the compressor. A factory supplied liquid line drier is standard. Some models may require field installation.

Compressor

The compressor features internal over temperature, pressure protection and total dipped hermetic motor. Other features include: Centrifugal oil pump and low vibration and noise.

Condenser Coil

The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Low Ambient Cooling

As manufactured, this system has a cooling capacity to 55°F. The addition of an evaporator defrost control permits operation to 40°F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 30°F.

Thermostats—Cooling only and heat/cooling (manual and automatic change over). Sub-base to match thermostat and locking thermostat cover.

Evaporator Defrost Control — See Low Ambient Cooling.

Notes

Notes

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