

BUILT TO A HIGHER STANDARD[®]

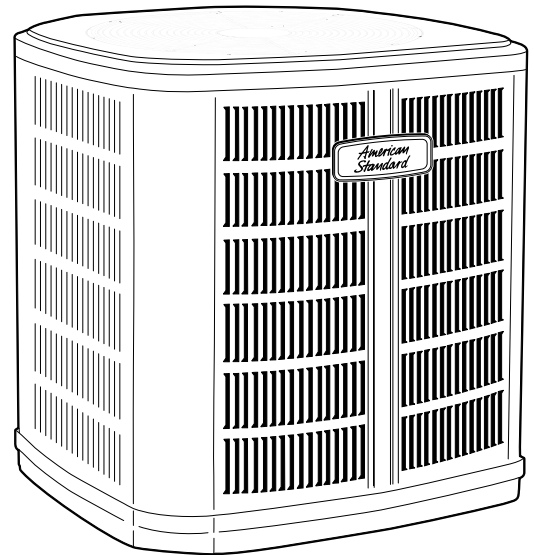
American Standard[®]

HEATING & AIR CONDITIONING

Submittal

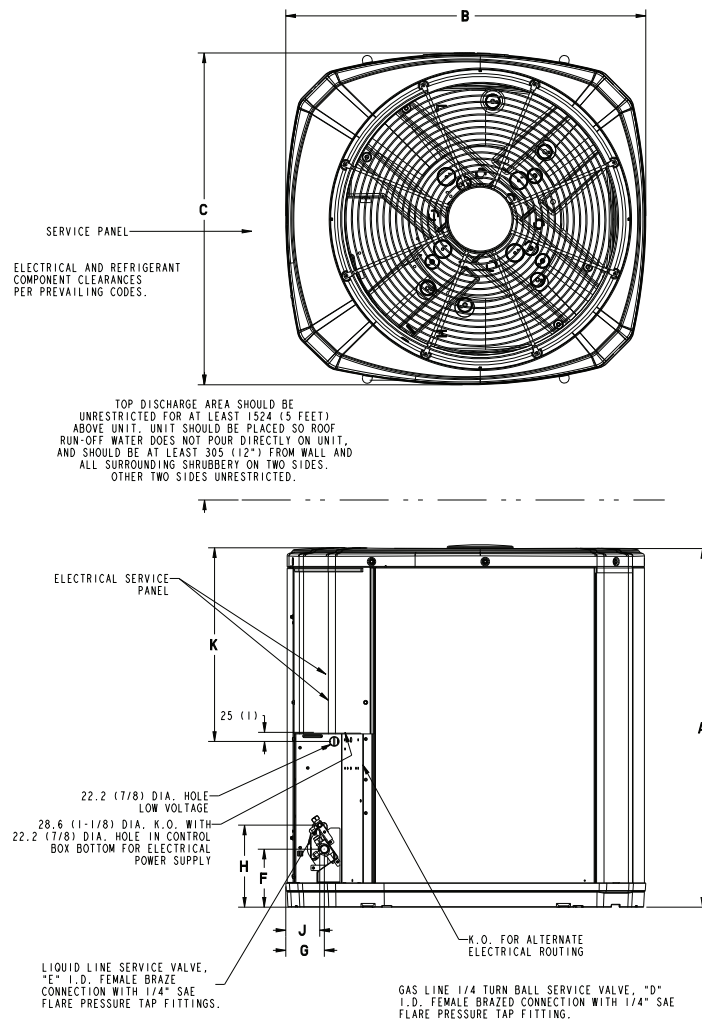
Split System Cooling 3.5 Ton

5A7A5042A1000A



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

Outline Drawing



Model	Base	A	B	C	D	E	F	G	H	J	K
5A7A5042A	4	943 (37-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	5/16	143 (5-5/8)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)

Sound Power Level									
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
5A7A5042A	71	78	72	69	68	66	61	58	53

Note: Rated in accordance with AHRI Standard 270-2008 *For reference only.

Product Specifications

OUTDOOR UNIT ^(a) ^(b)	5A7A5042A1000A
POWER CONNS. – V/PH/HZ ^(c)	208/230/1/60
MIN. BRCH. CIR. AMPACITY	21
BR. CIR. PROT. RTG. – MAX. (AMPS)	30
COMPRESSOR	DURATION [®] - SCROLL
NO. USED – NO. STAGES	1 – 1
VOLTS/PH/HZ	208/230/1/60
R.L. AMPS ^(d) – L.R. AMPS	14.7 – 109.1
FACTORY INSTALLED	
START COMPONENTS ^(e)	NO
INSULATION/SOUND BLANKET	NO
COMPRESSOR HEAT	NO
OUTDOOR FAN	PROPELLER
DIA. (IN.) – NO. USED	27.5 – 1
TYPE DRIVE – NO. SPEEDS	DIRECT – 1
CFM @ 0.0 IN. W.G. ^(f)	4841
NO. MOTORS – HP	1 – 1/5
MOTOR SPEED R.P.M.	850
VOLTS/PH/HZ	208/230/1/60
F.L. AMPS	1.05
OUTDOOR COIL – TYPE	SPINE FIN [™]
ROWS – F.P.I.	1 – 24
FACE AREA (SQ. FT.)	24.93
TUBE SIZE (IN.)	3/8
REFRIGERANT	
LBS. – R-454B (O.D. UNIT) ^(g)	5 LBS., 1 OZ
FACTORY SUPPLIED	YES
LINE SIZE – IN. O.D. GAS ^(h)	7/8
LINE SIZE – IN. O.D. LIQ.	5/16
CHARGING SPECIFICATIONS	
SUBCOOLING	10°F
DIMENSIONS	H X W X D
CRATED (IN.)	42.5 x 35 x 38
WEIGHT	
SHIPPING (LBS.)	246
NET (LBS.)	212

(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 Natl. Elec. Codes. Use only 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) Use start components only when compressor is found to enter locked rotor condition and will not start or when lights dim at compressor start. "No" means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter. Optional kit shown.

(f) Standard Air – Dry Coil – Outdoor

(g) This value approximate. For more precise value see unit nameplate.

(h) For standard, recommended linear length and lift applications, see the Subcool Charging Chart on page 5. For greater lengths and other applications, consult refrigerant piping software Pub. No. 32-3312-xx (xx denotes latest revision).

(i) The outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit, ten (10) feet of tested connecting line, and the smallest rated indoor evaporative coil match. Always verify proper system charge via subcooling (TXV/EEV) or superheat (fixed orifice) per the unit nameplate.

Mechanical Specification Options

General

The outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit, ten (10) feet of tested connecting line, and the smallest rated indoor evaporative coil match. 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 60335-2-40. 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. The corner panels are prepainted. All panels are subjected to our 1,000 hour salt spray test.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor contactor and low and high pressure switches. A factory supplied, field installed liquid line drier is standard.

Compressor

The compressor features internal over temperature and pressure protection. 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.

The addition of the BAYLOAM107A low ambient kit permits ambient cooling to 20°F.

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

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