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Specifications

NOTE: All dimensions are in mm/inches.

3½ Ton Split System Cooling — 1 Phase 4A7A5042A

Product Specifications

OUTDOOR UNIT ①②	4A7A5042A1000A
POWER CONNS. — V/PH/HZ ③	208/230/1/60
MIN. BRCH. CIR. AMPACITY	28
BR. CIR. } MAX. (AMPS)	45
PROT. RTG. } MIN. (AMPS)	40
COMPRESSOR	DURATION™ - SCROLL
NO. USED - NO. SPEEDS	1 - 1
VOLTS/PH/HZ	208/230/1/60
R.L. AMPS ⑦ - L.R. AMPS	19.9 - 109
FACTORY INSTALLED	
START COMPONENTS ⑧	NO
INSULATION/SOUND BLANKET	YES
COMPRESSOR HEAT	NO
OUTDOOR FAN	PROPELLER
DIA. (IN.) - NO. USED	27.6 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1
CFM @ 0.0 IN. W.G. ④	4410
NO. MOTORS - HP	1 - 1/3
MOTOR SPEED R.P.M.	850
VOLTS/PH/HZ	200/230/1/60
F.L. AMPS	2.80
OUTDOOR COIL — TYPE	SPINE FIN™
ROWS - F.P.I.	1 - 24
FACE AREA (SQ. FT.)	27.86
TUBE SIZE (IN.)	3/8
REFRIGERANT	
LBS. — R-410A (O.D. UNIT) ⑤	7 LBS., 00 OZ.
FACTORY SUPPLIED	YES
LINE SIZE - IN. O.D. GAS ⑥	3/4
LINE SIZE - IN. O.D. LIQ. ⑥	3/8
CHARGING SPECIFICATION	
SUBCOOLING	9°F
DIMENSIONS	H X W X D
CRATED (IN.)	46.4 x 35.1 x 38.7
WEIGHT	
SHIPPING (LBS.)	272
NET (LBS.)	236

- ① Certified in accordance with the Air-Source Unitary Air-Conditioner Equipment certification program, which is based on ARI standard 210/240.
 ② Rated in accordance with ARI standard 270.
 ③ Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.
 ④ Standard Air — Dry Coil — Outdoor
 ⑤ This value approximate. For more precise value see unit nameplate.
 ⑥ Max. linear length 60 ft.; Max. lift - Suction 60 ft.; Max lift - Liquid 60 ft.
 For greater length consult refrigerant piping software Pub. No. 32-3312-0*
 (* denotes latest revision).
 ⑦ 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.
 ⑧ No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

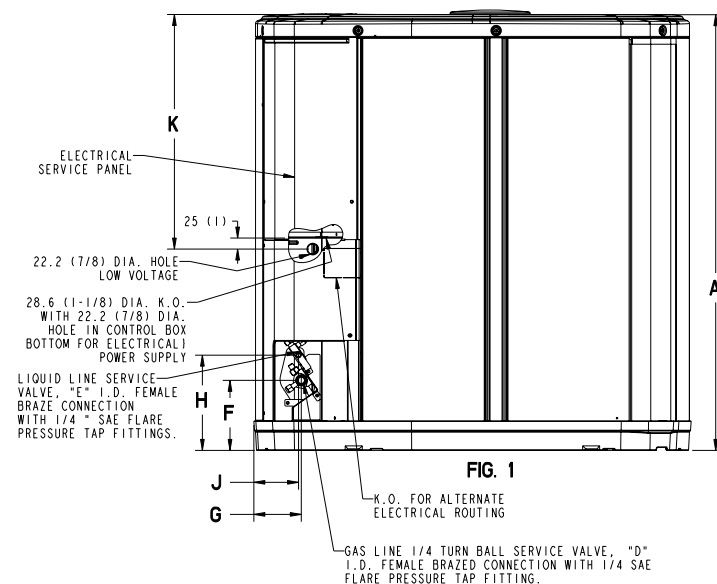
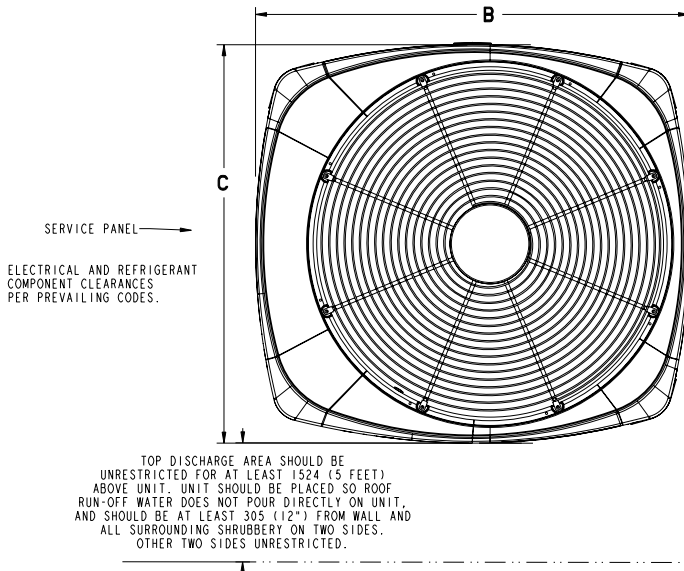


FIG. 1

From Dwg. 21D152862 Rev. 20

MODELS	BASE	FIG.	A	B	C	D	E	F	G	H	J	K
4A7A5042A	4	1	1045 (41-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)

A-weighted Sound Power Level [dB(A)]

MODEL	SOUND POWER LEVEL [dB(A)]	A-WEIGHTED FULL OCTAVE SOUND POWER LEVEL dB - [dB(A)]							
		63	125	250	500	1000	2000	4000	8000
4A7A5042A1	73	52	55.7	57.8	67.2	69.2	65	59.5	48.3

Mechanical Specifications

General

These models shall be fully charged from the factory for matched indoor section and up to 15 feet of piping. This unit must be designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities shall be matched with a wide selection of air handlers and furnace coils that are ARI certified. The unit shall be UL listed. Exterior must be 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. Corrosion and weather-proof DuraBase™ base.

Refrigerant Controls

Refrigeration system controls include condenser fan and compressor contactor. High and low pressure controls are inherent to the compressor. Unit also has high pressure switch. Another standard feature is the liquid line drier.

Compressor

The Duration™ compressor features internal over temperature and pressure protector, dipped hermetic motor and sump heater. Other features include: roto lock suction and discharge refrigerant connections, centrifugal oil pump, and low vibration and noise. The Duration™ compressor features a 10-year limited warranty.

Condenser Coil

The Spine Fin™ coil shall be continuously wrapped, corrosion resistant all aluminum with minimum brazed joints. This coil is seamless aluminum glued to a continuous aluminum fin. Coils are lab tested to withstand 2,000 pounds of pressure per square inch.

Low Ambient Cooling

As shipped, this unit has a cooling capability to 55°F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 30°F.

Accessories

Thermostats —

Heat/cooling (manual and automatic changeover). Sub-base to match thermostat and locking thermostat cover.

Evaporator Defrost Control —

See Low Ambient Cooling.



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American Standard has a policy of continuous product and product data improvement **and** it reserves the right to change design and specifications without notice.