

System charge for various matched systems - N coil

Outdoor unit	YZV24B21S	YZV36B21S	YZV48B21S	YZV60B21S
Indoor unit ¹	Additional charge (oz)			
AVV25BE121	0	—	—	—
AVV37BE221	—	4	—	—
AVV38CE221	—	20	—	—
AVV50CE321	—	—	0	—
AVV50DE321	—	—	0	—
AVV61CE421	—	—	—	14
AVV61DE421	—	—	—	14
CM25BE1A1	0	—	—	—
CM37BE2A1	—	4	—	—
CM38CE2A1	—	20	—	—
CM50CE3A1	—	—	0	—
CM50DE3A1	—	—	0	—
CM61CE4A1	—	—	—	14
CM61DE4A1	—	—	—	14

All of the combinations shown in this table require advanced main air circulating fan indoor product. Coil only matches are not available for these systems.

1. Charge adders shown above do not indicate that coils are rated for every application. Refer to the *Performance data* tables in the *Technical Guide* for actual performance for specified system matches. Obtain certified system ratings from www.ahridirectory.org.

Charging

- Determine outdoor unit factory charge from this Tabular data sheet.
- Determine indoor coil adjustment (if any) from this Tabular data sheet.
- Calculate the additional charge for refrigerant piping using this Tabular data sheet if line length is greater than 15 ft (4.6 m).
- Note that the total system charge = item 1 + item 2 + item 3.
- The manifold gauge set is already installed on the unit for evacuation and charging. Use these gauges to initially charge the system using system pressures and subcooling. Before charging put the equipment into **Service Mode** at the outdoor control. You can find the charging information printed on the bottom of the unit data tag. More charging information is available in the *Service Data Application Guide*, which is available at www.simplygettingthejobdone.com. For subsequent annual maintenance visits, the charge verification display can be used to quickly check overall system condition and the system charge without attaching a separate manifold gauge set or temperature sensors.
- Permanently mark the unit data plate with the total amount of refrigerant in the system.

Important: It is recommended before starting the system to connect the thermostat to Wi-Fi using a local network or portable hot-spot so the thermostat and system receive the latest software updates to optimize system performance.



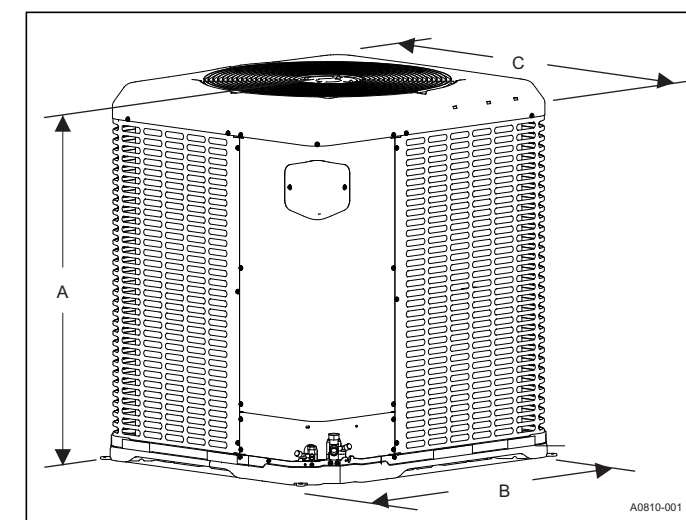
Tabular Data Sheet

AFFINITY™ Series Split System Heat Pumps 19 SEER2 - R-410A - Single-Phase - 2 Nominal ton to 5 Nominal ton Models: YZV24 to 60

Physical and electrical data - N coil

Model	YZV24B21S	YZV36B21S	YZV48B21S	YZV60B21S
Unit supply voltage	208-230 V, 1 φ, 60 Hz			
Normal voltage range ¹	187 to 252			
Minimum circuit ampacity	17.7	25.7	28.6	33.9
Maximum overcurrent device (A) ²	30.0	40.0	45.0	50.0
Compressor	Type	Scroll	Scroll	Scroll
	Rated load (A)	16.0	19.2	21.2
	Locked rotor (A)	35.0	35.0	35.0
Crankcase heater	Yes	Yes	Yes	Yes
Hard start kit required with TXV	n/a	n/a	n/a	n/a
Fan diameter (in.)	24	24	26	26
Fan motor	Rated HP	1/4	1/4	1/3
	Rated load (A)	1.7	1.7	2.6
	Nominal RPM	850	1025	975
	Nominal CFM	3200	3900	4800
Coil	Face Area (sq ft)	23.82	23.82	31.2
	Rows deep	1	2	2
	Fins per inch	22	18	18
Liquid refrigeration piping outdoor (field-installed)	3/8	3/8	3/8	3/8
Vapor refrigeration piping outdoor (field-installed) ^{3,4}	3/4	3/4	7/8	1 1/8**‡
Unit charge (lb - oz) ⁵	8 - 2	11 - 2	16 - 2	15 - 11
Charge (oz/ft)	0.62	0.67	0.75	0.75
Operating weight (lb)	242	259	292	304

- Rated in accordance with AHRI Standard 110-2012, utilization range A.
- Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.
- For applications with non-standard vapor line sizes, refer to the *Applications and accessories* section in the *Technical Guide*.
- (**) denotes the 7/8 in. refrigeration piping required if line is over 25 ft or if there is any vertical rise.
(‡) denotes the adapter fitting must be field-installed for a 1 1/8 in. refrigeration piping.
- The unit charge is correct for the outdoor unit, smallest matched indoor unit, and 15 ft of refrigerant tubing. For tubing lengths other than 15 ft, add or subtract the amount of refrigerant, using the difference in actual refrigeration piping length (not the equivalent length) multiplied by the per foot value.



Dimensions

Unit model	Dimensions (in.)			Refrigerant connection service valve size (in.)	
	A	B	C	Liquid	Vapor
YZV24B21S	40 1/4	35 1/2	32	3/8	3/4
YZV36B21S	40 1/4	35 1/2	32		
YZV48B21S	46 1/2	38 1/4	34 1/2		7/8
YZV60B21S	46 1/2	38 1/4	34 1/2		7/8**‡

Note:

- All dimensions are in inches and are subject to change without notice.
 - The overall height is from the bottom of the base pan to the top of the fan guard.
 - The overall length and width include screw heads.
- ** 7/8 in. refrigeration piping is required if the line is over 25 ft or if there is any vertical rise.
‡ The adapter fitting must be field-installed for the required 1 1/8 in. refrigeration piping.

System charge for various matched systems - A coil

Outdoor unit	YZV24B21S	YZV36B21S	YZV48B21S	YZV60B21S
Indoor unit¹	Additional charge (oz)			
JHVVB24DE1C2N1	0	—	—	—
JHVVB36DE2C2N1	—	0	—	—
JHVVC36DE2C2N1	—	0	—	—
JHVVC48DE3C2N1	—	—	0	—
JHVVD48DE3C2N1	—	—	0	—
JHVVC60DE4C2N1	—	—	—	0
JHVVD60DE4C2N1	—	—	—	0
XAMB24DE1N1	0	—	—	—
XAMB36DE2N1	—	0	—	—
XAMC36DE2N1	—	0	—	—
XAMC48HE3N1	—	—	0	—
XAMD48HE3N1	—	—	0	—
XAMC60HE4N1	—	—	—	0
XAMD60HE4N1	—	—	—	0

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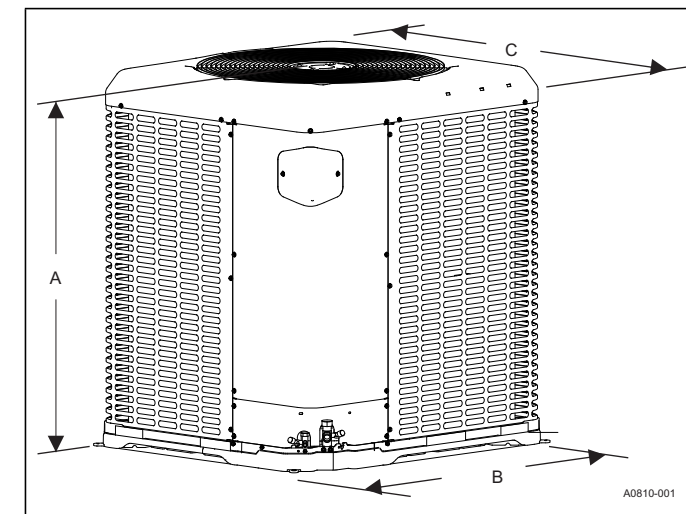
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