



YORK Technical Guide: LX Series YC6 Models - 16+ SEER2 Split-System Air Conditioner - Single-Phase

R-454B - 1.5 nominal ton to 5 nominal ton



SEER2 [13.80 to 18.00]

EER2 [11.25 to 14.50]

Cooling capacity [17700 to 59000]



York International Corporation, 5005 York
Drive, Norman, OK 73069

6601763-YTG-A-0125

Supersedes: Nothing

2025-01-30

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Description

The YC6 models are part of our successful 16+ SEER2 Regional Minimum Efficiency product line available in all regions of the United States and Canada. These outdoor units are specifically designed to be matched with our residential indoor coils, furnaces, and air handlers to provide a complete system solution.

Figure 1: Installation map

FOR INSTALLATION IN ALL US REGIONS AND CANADA



Due to continuous product improvement, specifications are subject to change without notice.

Visit us on the web at www.simplygettingthejobdone.com and www.york.com.

Additional rating information can be found at www.ahridirectory.org.

This document is only for distribution use - it is not to be used at point of retail sale.

Certification



Assembled at a facility with
an ISO 9001:2015-certified
Quality Management
System

Warranty summary

Standard 5-year limited parts warranty.

Standard 10-year limited compressor warranty.

Extended 10-year limited parts warranty when product is registered online within 90 days of purchase for replacement or closing for new home construction.

The warranty does not apply to internet sales.

Refer to the limited warranty certificate in the *User's Information Manual* for details.

Features

- **Small footprint** - Minimum footprint for easier handling, transportation, and installation.
- **Easier installation** - Independent panels provide quick access for unit setup. Installation time is reduced by easy power and control wiring access. Select indoor matches with factory-mounted TXVs are available for quicker system installation. The filter-drier is shipped loose for installation in the field. The unit is factory-charged for 15 ft refrigeration piping. The small base dimension and reduced unit clearances make for easier retrofits.
- **Accessible information** - QR code on unit provides quick access to technical documents and warranty information.
- **Durable finish** - The coated steel wire fan guard, coated external fasteners, and pre-treated G90-equivalent galvanized steel chassis components resist corrosion and rust creep. Modern Mist colored powdercoat paint further protects external panels.
- **Quality coils** - The high efficiency microchannel aluminum coil is manufactured using an improved material system, providing reliable performance and small unit size.
- **Rugged coil protection** - Coils are protected from mechanical damage by a proven stamped steel coil guard design.
- **Protected compressor** - Compressors are protected internally by a high-pressure relief valve and a temperature sensor, and externally by the system high-pressure switch.
- **Reliable operation** - Ball bearing fan motors provide superior performance in extreme temperatures.
- **Environmentally friendly** - CFC-free R-454B refrigerant delivers environmentally friendly performance with zero ozone depletion.
- **Top discharge** - Warm air is blown up, away from the structure and any landscaping, allowing compact location on multi-unit applications.
- **Low operating sound levels** - Developed using CFD and FEA tools, the sturdy cabinet and top design provides sound performance of 77 dBA or lower. Compatible accessories for further sound reduction are also available.
- **Better service access** - Diagonal base valves with open access for low-loss fittings, single panel access to the electrical controls, swing out control box for full corner access, and removable fan guard allow easy access for unit maintenance.
- **Agency listed** - Safety certified by CSA to UL 60335-2-40/CSA C22.2. Performance certified to ANSI/AHRI Standard 210/240 in accordance with the Unitary Small Equipment certification program.

Nomenclature

Table 1: Nomenclature for AC and HP R-454B units

Number	Category	Option	Description
1	Brand	Y	YORK
		X	Private brand
		R	OTC
2	Product type	C	AC
		H	HP
3	Nominal series efficiency	3	13.4 SEER2 LGWP
		4	14.3 SEER2 LGWP
		5	15.2 SEER2 LGWP
		6	16 SEER2 LGWP
		7	17 SEER2 LGWP
		8	18 SEER2 LGWP
		9	19 SEER2 LGWP
		V	20/21 SEER2 (DOE ccHP)
		X	22/23 SEER2
		Z	24+ SEER2
4, 5	Nominal unit capacity (MBH)	18	1.5 ton
		24	2 ton
		30	2.5 ton
		36	3 ton
		42	3.5 ton
		48	4 ton
		60	5 ton
6	Refrigerant	D	TBC
		E	R-454B
7	Voltage (voltage-phase-hertz)	2	208/230-1-60
		3	208/230-3-60
		4	460-3-60
		5	575-3-60
8	Control strategy	C	Communicating
		B	Wireless (communicating)
		S	Standard (conventional)
		W	Wireless (conventional)
9	Factory option	1	Standard (no options)
		2	Future use
10	Generation	1	First generation
		2	Second generation
11	Style letter (minor revision)	A	Style A
		B	Style B

Table 2: Model nomenclature example

Number	1	2	3	4, 5	6	7	8	9	10	11
Option	Y	C	6	18	E	2	S	1	1	A

Physical and electrical data

Table 3: Physical and electrical data

Outdoor unit model	YC618E2S11	YC624E2S11	YC636E2S11	YC648E2S11	YC660E2S11
Unit supply voltage	208/230 V, 1 phase, 60 Hz				
Normal voltage range ¹ (V)	187–252				
Minimum circuit ampacity (A)	9.3	13.7	19.2	27.3	31.6
Maximum overcurrent device (A) ²	15	20	30	45	50
Minimum overcurrent device (A) ³	15	15	20	30	35
Compressor type ⁴	1-stage rotary	2-stage scroll	2-stage scroll	2-stage scroll	2-stage scroll
Compressor rated load (A)	6.7	10.3	14.5	20.1	23.7
Compressor locked rotor (A)	33	62	76	141	123
Crankcase heater	No	No	No	No	No
Factory external discharge muffler	No	No	No	No	No
Hard start kit required with TXV ⁵	No	No	No	No	No
Hard start kit part number (S1-2SA067*****)	22006	10106	10106	10106	10106
Fan diameter (in.)	22	22	26	26	26
Fan motor type	ECM	ECM	ECM	ECM	ECM
Fan motor rated HP	1/3	1/3	1/3	1/3	1/3
Fan motor rated load (A)	2.0	2.0	1.4	2.0	2.0
Fan motor nominal RPM	917	917	682	917	917
Fan motor nominal CFM	2575	2575	3500	4275	4275
Coil face area (sq ft)	17.31	13.79	23.33	25.88	27.98
Coil rows deep	1	1	1	1	1
Coil fins per inch	23	23	23	23	23
Liquid refrigerant piping outdoor unit (field-installed)	3/8	3/8	3/8	3/8	3/8
Vapor refrigerant piping outdoor unit (field-installed) ⁶	3/4	3/4	3/4	7/8	1 1/8†
Unit charge (lb-oz) ⁷	3-10	3-0	3-8	4-11	5-8
Charge (oz/ft)	0.57	0.57	0.57	0.60	0.67
Operating weight (lb)	165	150	235	250	255

Physical and electrical data notes

NOTICE

If an indoor metering device other than S1-1TVM5A1 is used on rotary compressor models, factory hard start kit S1-2SA06722006 is required.

1. Rated in accordance with AHRI Standard 110-2012, utilization range A.
2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.
3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.
4. Rotary compressor models are limited to an equivalent length of refrigerant piping of 75 ft with no exceptions.
5. Refer to the *Hard Start Kit Accessory Installation Manual* for the hard start kit part number for each model. The hard start kit is a field-installed accessory.
6. For applications with non-standard vapor line sizes, see *Applications and accessories*.

7. 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.

‡ The adapter fitting must be field installed for the required 1 1/8 in. refrigeration piping.

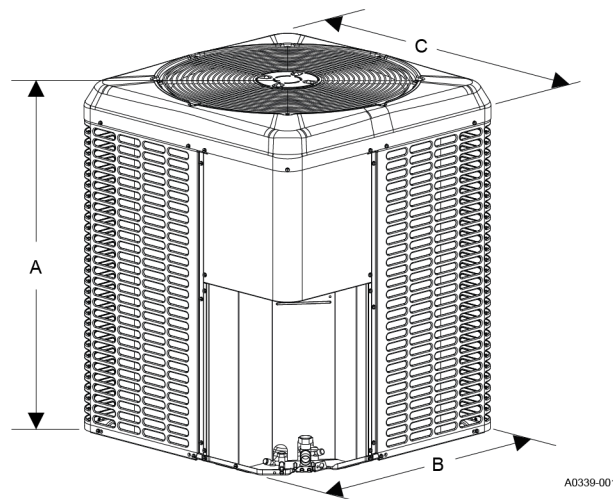
Dimensions

Table 4: Dimensions

Unit model	Dimensions (in.)			Refrigerant connection service valve size (in.)	
	A	B	C	Liquid	Vapor
YC618E2S11	36 1/4	29 1/4	29 1/4	3/8	3/4
YC624E2S11	30	29 1/4	29 1/4		
YC636E2S11	36 1/4	38	34 1/4		
YC648E2S11	39 1/2	38	34 1/4		7/8
YC660E2S11	42 3/4	38	34 1/4		7/8‡

Illustration of dimensions

Figure 2: Unit dimensions



Dimensions data notes

‡ The adapter fitting must be field-installed for the required 1 1/8 in. refrigeration piping.

- 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.

System charge table

Table 5: System charge table

Outdoor unit model	YC618E2S11	YC624E2S11	YC636E2S11	YC648E2S11	YC660E2S11
Required metering device ^{1,2}	5A1	5A1	5A1	5C1	5C1
Indoor coil model ^{3,4,5}	Additional charge (oz)				
CT(F,M)24B**B	3	2	—	—	—
CT(F,M)30C**C	3	3	—	—	—
CT(F,M)36C**D	—	—	12	—	—
CT(F,M)48D**F	—	—	—	16	—
CT(F,M)60C**H	—	—	—	28	22
CT(F,M)60D**J	—	—	—	—	22
CT(F,M,U)24A**B	3	2	—	—	—
CT(F,M,U)30B**C	3	3	—	—	—
CT(F,M,U)42C**E	—	—	21	—	—
CT(F,M,U)48C**F	—	—	—	16	—
CT(F,M,U)60C**G	—	—	—	24	4
CT(F,M,U)60D**G	—	—	—	24	4
CT(F,M,U)60D**H	—	—	—	28	22
CT(F,U)36B**D	—	—	12	—	—
CTF36B**E	—	—	21	—	—
JHC18B**B	3	—	—	—	—
JHC24B**C	3	3	—	—	—
JHC36C**D	—	—	12	—	—
JHC48(C,D)**G	—	—	—	24	—
JHC60(C,D)**H	—	—	—	28	22
JHE18B**B	3	—	—	—	—
JHE24B**C	3	3	—	—	—
JHE36C**D	—	—	12	—	—
JHE48(C,D)**G	—	—	—	24	—
JHE60(C,D)**H	—	—	—	28	22
JHE60D**J	—	—	—	—	22

System charge A-coil data notes

1. For applications requiring a TXV, use S1-1TVM*** series kit.
2. Use a TXV kit with these indoor units to obtain system performance.
3. Systems matched with furnaces or air handlers not equipped with blower-off delays may require blower time delay.
4. Do not use CTF, CTU, or CXF coils in horizontal applications. CTM coils can be used in horizontal, upflow, or downflow applications.
5. Charge adders shown above do not indicate that coils are rated for every application. See the *Performance data* tables for actual performance for specified system matches. Obtain certified system ratings from <http://www.ahridirectory.org>.

Charging

1. Check the factory unit charge listed on the unit nameplate to verify the refrigerant charge for the outdoor unit, the smallest matched indoor unit, and the 15 ft of interconnecting refrigeration piping.
2. Verify the indoor metering device and additional charge required for the specific matched indoor unit in the system using the *System charge* table.
3. Add additional charge for the amount of interconnecting refrigeration piping greater than 15 ft at the rate specified in the *Physical and electrical data* table.
4. For installations requiring additional charge, weigh in refrigerant for the specific matching indoor unit and actual refrigeration piping length.
5. After weighing in the charge adders for the matched indoor unit and refrigeration piping, verify the system operation against the temperatures and pressures in the charging chart for the outdoor unit. Locate the charging charts on the outdoor unit and in the *Service Data Application Guide* at www.simplygettingthejobdone.com. Follow the subcool or superheat charging procedure in the *Installation Manual* according to the type of indoor metering device in the system, and allow 10 min after each charge adjustment for the system operation to stabilize. Record the charge adjustment made to match the charging chart.
6. Permanently stamp the unit nameplate with the total system charge defined as follows: total system charge = base charge (as shipped) + charge adder for matched indoor unit + charge adder for actual refrigeration piping length + charge adjustments to match the charging chart.

Applications and accessories

Refer to the *Price Manual* for specific model numbers.

Table 6: Standard application limits

Standard application limits		
Maximum refrigeration piping equivalent length		80 ft‡
Outdoor ambient temperature limits		
Cooling operation	Maximum DB	125°F
	Minimum DB	55°F

❶ **Note:** For low ambient and long refrigeration piping applications, see the accessories listed below.

‡ The 80 ft maximum refrigeration piping equivalent length applies to all products except for the YC618E2S11 models, which will only be installed up to a maximum refrigeration piping length of 75 ft.

Non-standard refrigeration piping applications: For installations with reduced diameter or long refrigeration piping, refer to the current version of the *Piping Application Guide* P/N 247077, available in the *Application Bulletins* section at www.simplygettingthejobdone.com.

OD unit anti-short cycle kit (10 Pack) (S1-2TD08700124BK): A time delay that prevents rapid compressor restarting as a result of power interruption, limit switch operation, or thermostat resetting. Not required for AC models with factory electronic controls.

Standard low ambient control kit (S1-2LA06700424): Allows the use of air conditioning at low outdoor ambient temperatures down to +20°F (-7°C). For use with all R-454B single-stage AC models.

Start assist kit (S1-2SA067**):** Provides increased compressor starting torque for areas with low supply voltage. Required for units with reciprocating compressors when applied with indoor TXV, and for all units when applied with long linesets or low ambient kits. May be factory installed on select AC units. See the *Physical and electrical data* table. Refer to the *Price Pages* or *Source 1 SmartSearch* for the correct kit for each application.

Compressor crankcase heater kit (S1-025-***-***):** A wrap-around electrical resistance heater that warms the compressor sump, reducing the chance of liquid slugging on startup. Required on all long lineset and low ambient applications. Refer to the *Price Pages* or *Source 1 SmartSearch* for the correct part for each application.

Anchor bracket kit (S1-1HK0601): Firmly anchors unit to pad or support structure. When correctly installed, approved for ground-mounted or roof-mounted applications.

Indoor TXV kit (S1-1TVM*):** Thermal expansion valves precisely meter refrigerant for optimum performance over a wide range of conditions. See the *System charge* table or refer to the *Price Pages* or *Source 1 Smart Search* for the TXV part number for each AC model.

Winter cover kit (S1-CCVRE*):** Custom fit winter cover protects AC outdoor unit from debris during the off-season. Remove before unit operation. Refer to the *Price Pages* or *Source 1 SmartSearch* for the correct cover for each application.

Touch-up paint (S1-5130153**):** Color matched aerosol paint for touching up unit chassis and panels. Refer to the *Price Pages* or *Source 1 SmartSearch* for the correct color for each application.

Compressor sound blanket (S1-01007xxx000): A field installed dense foam cover that provides 2 dBA sound level reduction. Refer to the *Price Pages* or *Source 1 SmartSearch* for the correct blanket for each application.

Thermostat: Compatible thermostat controls are available through accessory sourcing. For optimum performance, these outdoor units are fully compatible with our residential Hx™ Touch Screen Thermostat available through Source 1. For more information, refer to the *Thermostats & Controllers* section at www.simplygettingthejobdone.com.

Sound power rating 1st stage cooling

Table 7: Sound power data- stage 1 – cooling – octave band sound power level (db re. 1-pW)

Outdoor unit model	Power level (Hz)								dBA	SQI
	63	125	250	500	1000	2000	4000	8000		
YC618E2S11	—	—	—	—	—	—	—	—	—	—
YC624E2S11	67	70	66	70	64	61	55	56	71	19.0
YC636E2S11	63	67	65	67	66	62	61	58	71	19.1
YC648E2S11	80	73	71	70	68	63	59	55	73	19.1
YC660E2S11	78	72	73	72	68	65	62	59	75	19.0

Sound power rating 2nd stage cooling

Table 8: Sound power data- stage 2 – cooling – octave band sound power level (db re. 1-pW)

Outdoor unit model	Power level (Hz)								dBA	SQI
	63	125	250	500	1000	2000	4000	8000		
YC618E2S11	62	67	66	69	62	61	59	54	71	19.05
YC624E2S11	66	69	67	69	66	64	56	60	72	19.01
YC636E2S11	63	68	65	67	66	62	60	58	72	19.05
YC648E2S11	80	74	74	71	68	63	56	53	74	19.16
YC660E2S11	79	72	71	70	69	66	62	58	75	19.00

Mechanical specifications

Manufacture and certifications

- Units shall be assembled at a facility with an ISO 9001:2015-certified Quality Management System.
- Units shall be certified by CSA to UL 60335-2-40/CSA C22.2 and performance certified to ANSI/AHRI Standard 210/240.
- Units shall be sound tested according to ANSI/AHRI Standard 270.
- Certified matched system ratings shall be available for download from the AHRI online directory at www.ahridirectory.org.

Unit application

- Units shall be approved for cooling operation between 55°F and 125°F without modification.
- Units shall be approved for linesets up to 80 ft equivalent length without modification.
- Units shall be approved for installation within 6 in. of a flat vertical wall without modification, according to the instructions in the technical literature.
- Units shall be designed to 77 dBA or less to minimize sound pollution.

Unit access

- Units shall have a removable fan guard that can be removed independently of the top for interior access through the top of the unit without damaging the coil.
- Units shall have two removable stamped steel coil guards for exterior coil access.
- Units shall have a separate compartment for electrical controls that can be accessed without disturbing the unit airflow.
- Units shall have a blockoff panel that can be removed to provide interior unit access through the side of the unit.
- Units shall have a removable blockoff panel and a swing away removable electrical panel that provides sufficient interior unit access for removing the compressor through the side of the unit.

Unit construction

- Units shall be shipped completely wired, piped, and assembled. Wiring pigtails shall be provided for field control wiring connections. Service valves shall be provided for field refrigerant line connections.
- Units shall be factory leak checked, run tested, and shipped with a holding charge of R-454B refrigerant.
- Unit cabinet components shall be G90 equivalent steel finished with powder-coat paint rated at a minimum of 500 h under ASTM B117 testing.
- Unit base pan shall be stamped G90 equivalent steel finished with powder-coat paint rated at a minimum of 500 h under ASTM B117 testing.
- Units shall have a single corner post opposite the electrical control box and two independently removable steel coil guard panels to optimize cabinet strength and serviceability.
- Units shall have L-shaped stamped sheet metal coil guards with punched and extruded slots for maximum panel durability and stiffness.
- Unit base valves shall be mounted diagonally on the unit base pan with service ports that provide sufficient clearance for low-loss hose fittings.
- Units shall be constructed with a high-pressure switch for system protection.
- Units shall be constructed with all badging and labels applied at the factory.

Unit components

- Compressor shall be hermetic with internal electrical overload protection and internal overpressure protection.
- Compressor shall be mounted on rubber vibration isolators that do not require the removal of transportation clips or brackets.
- Outdoor fan shall be direct drive with vertical air discharge for low sound levels.
- Outdoor fan motor shall be totally enclosed with permanently lubricated ball bearings motors approved for vertical shaft applications.
- Outdoor coil shall be air cooled and have zinc-coated aluminum microchannel construction for small size and low weight.

Unit warranties

- Unit manufacturer shall provide a 10-year compressor warranty without a requirement for unit registration.
- Unit manufacturer shall provide a 5-year parts warranty without a requirement for unit registration.

Typical installation

Figure 3: Typical installation

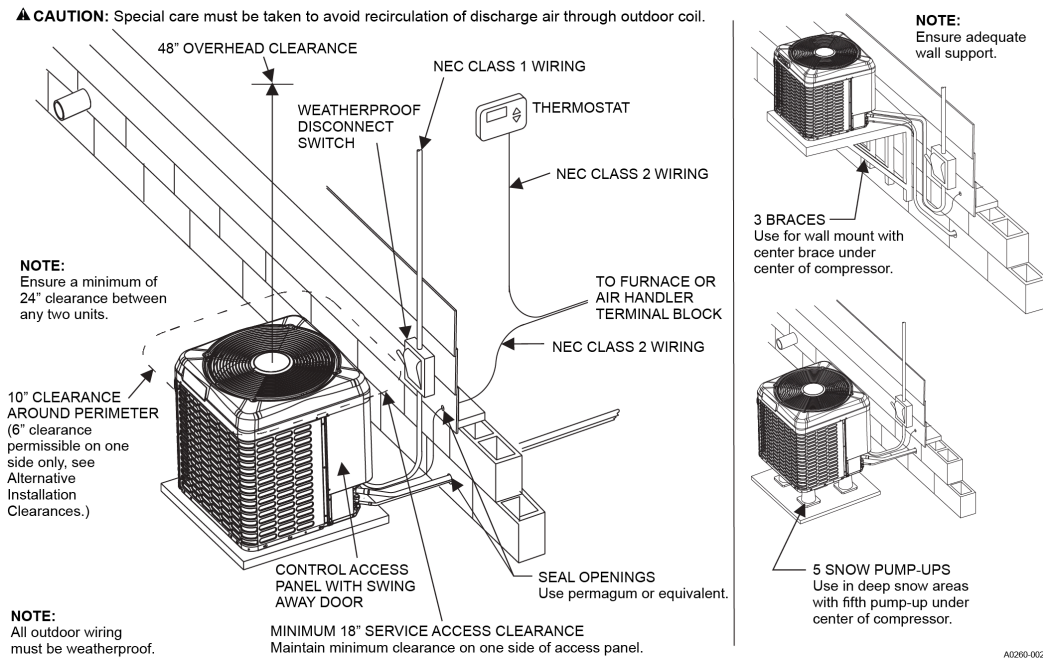
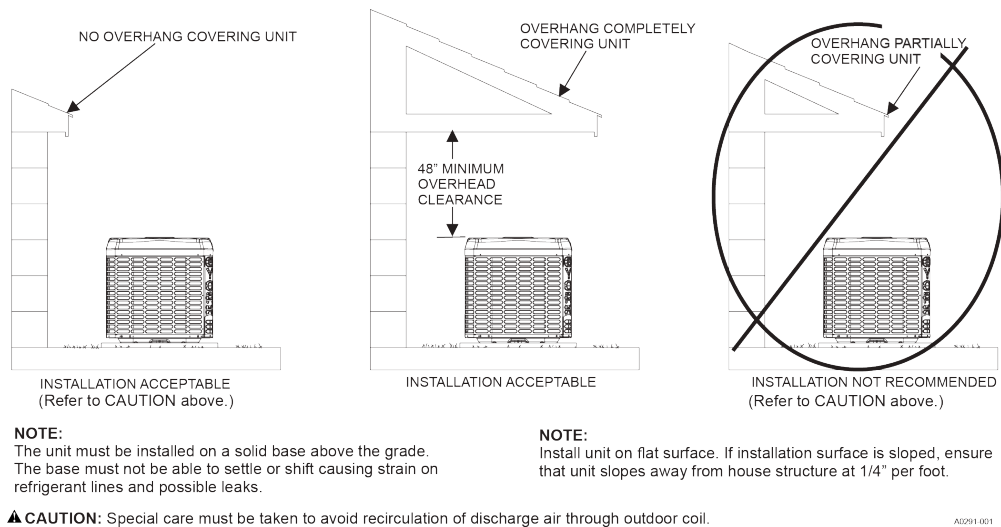
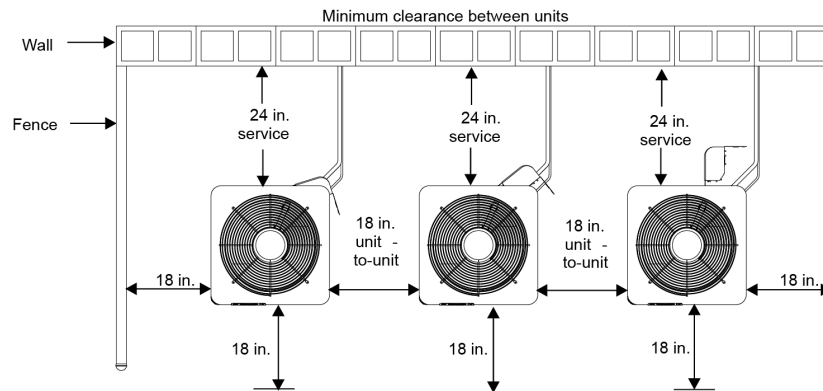


Figure 4: Typical installation



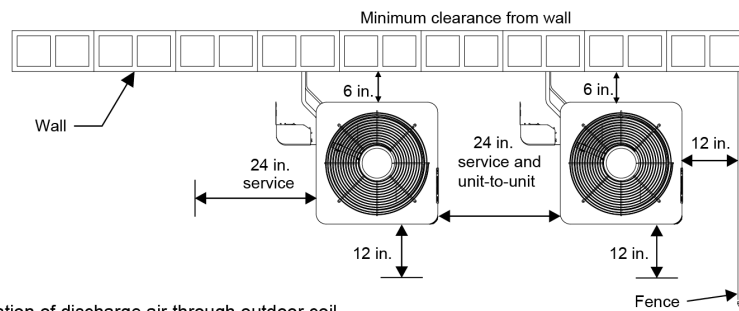
Alternative installation clearances

Figure 5: Alternative installation clearances



Note:
Clearance between two units may be reduced to 18 in. minimum provided the service access clearance is increased to 24 in. minimum, and the clearance on each remaining side is maintained at 18 in. minimum.

Note:
Clearance to one side of the unit may be reduced to 6 in. provided the clearance to each remaining side is increased to 12 in. minimum, the service access is increased to 24 in. minimum, and the clearances between any two units is maintained at 24 in. minimum.



CAUTION:
Special care must be taken to avoid recirculation of discharge air through outdoor coil.

A0287-001

Performance data - 1.5 ton

See the following tables for performance data for the YC618E2S11 unit.

Cooling performance data - 1.5 ton

Table 9: Cooling performance data - 1.5 ton

Air temperature entering outdoor unit (°F)	Indoor CFM	450					600					750				
	Indoor dry bulb (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	Indoor wet bulb (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
55	Total capacity	16.35	17.82	17.77	19.52	21.25	19.06	19.73	19.73	21.38	22.80	21.40	21.36	21.29	22.66	23.53
55	Sensible capacity	16.35	14.74	12.49	12.22	9.51	19.06	17.96	15.16	14.68	11.06	21.40	20.63	17.42	16.45	11.89
55	kW	0.99	0.96	0.96	0.93	0.90	0.97	0.95	0.95	0.91	0.87	0.95	0.94	0.94	0.90	0.86
65	Total capacity	17.50	16.05	17.53	19.32	21.37	18.60	17.79	18.58	20.56	22.67	19.34	19.08	19.33	21.37	23.54
65	Sensible capacity	12.39	16.05	14.61	12.40	10.17	14.22	17.79	16.98	14.26	11.44	15.82	19.08	19.01	15.87	12.50
65	kW	1.08	1.10	1.08	1.05	1.02	1.07	1.08	1.07	1.04	1.00	1.06	1.06	1.06	1.03	0.99
75	Total capacity	16.71	15.43	16.74	18.48	20.47	17.73	17.08	17.69	19.62	21.66	18.40	18.31	18.35	20.36	22.46
75	Sensible capacity	11.96	15.43	14.16	11.98	9.76	13.77	17.08	16.48	13.80	10.99	15.32	18.31	18.35	15.37	12.03
75	kW	1.20	1.22	1.20	1.19	1.15	1.19	1.20	1.19	1.16	1.14	1.19	1.19	1.19	1.15	1.13
85	Total capacity	15.93	14.81	15.94	17.63	19.55	16.86	16.37	16.81	18.67	20.65	17.47	17.51	17.53	19.35	21.37
85	Sensible capacity	11.55	14.81	13.74	11.57	9.38	13.30	16.37	15.96	13.33	10.56	14.80	17.51	17.53	14.87	11.56
85	kW	1.33	1.33	1.33	1.31	1.30	1.32	1.32	1.32	1.30	1.29	1.31	1.31	1.31	1.30	1.28
95	Total capacity	15.22	14.22	15.22	16.87	18.72	16.05	15.68	15.99	17.80	19.71	16.61	16.76	16.77	18.44	20.39
95	Sensible capacity	11.19	14.22	13.30	11.23	9.09	12.83	15.68	15.46	12.89	10.22	14.27	16.76	16.77	14.35	11.17
95	kW	1.46	1.45	1.46	1.45	1.45	1.46	1.46	1.46	1.45	1.44	1.45	1.45	1.45	1.45	1.44
105	Total capacity	14.62	13.86	14.60	16.23	18.07	15.43	15.30	15.36	17.17	19.05	15.89	16.37	16.37	17.74	19.71
105	Sensible capacity	11.04	13.86	13.22	11.08	8.92	12.78	15.30	15.36	12.85	10.10	14.31	16.37	16.37	14.38	11.11
105	kW	1.60	1.59	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
115	Total capacity	13.84	13.33	13.79	15.43	17.21	14.55	14.74	14.74	16.26	18.12	14.98	15.75	15.77	16.77	18.71
115	Sensible capacity	10.78	13.33	12.94	10.84	8.66	12.59	14.74	14.74	12.67	9.86	14.16	15.75	15.77	14.28	10.93
115	kW	1.75	1.74	1.75	1.76	1.76	1.76	1.75	1.75	1.76	1.76	1.76	1.76	1.75	1.76	1.76
125	Total capacity	12.69	12.31	12.69	13.98	16.02	13.29	13.54	13.83	15.08	16.81	13.71	14.43	14.77	15.92	17.34
125	Sensible capacity	10.24	12.31	12.45	10.05	8.30	12.14	13.54	13.83	12.33	9.44	13.71	14.43	14.77	14.50	10.40
125	kW	1.93	1.94	1.93	1.97	2.00	1.94	1.95	1.95	1.98	2.01	1.95	1.96	1.96	1.98	2.01

Performance data - 2 ton

See the following tables for performance data for the YC624E2S11 unit.

Cooling performance data - 2 ton

Table 10: Cooling performance data - 2 ton

Air temperature entering outdoor unit (°F)	Indoor CFM	600					800					1000				
		Indoor dry bulb (°F)					Indoor dry bulb (°F)					Indoor dry bulb (°F)				
		80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	Indoor wet bulb (°F)	57					62					67				
		57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
		57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
55	Total capacity	21.95	23.50	23.42	25.24	26.89	23.88	24.92	24.89	27.06	28.71	25.18	25.97	25.91	28.35	30.35
55	Sensible capacity	21.95	19.60	16.69	16.05	12.34	23.88	22.61	18.98	18.32	13.87	25.18	25.16	20.93	20.10	15.48
55	kW	1.23	1.24	1.24	1.25	1.25	1.32	1.33	1.33	1.33	1.34	1.42	1.43	1.43	1.42	1.43
65	Total capacity	22.98	21.15	23.04	25.17	27.54	24.03	22.97	24.12	26.35	28.67	24.66	24.20	24.69	26.99	29.32
65	Sensible capacity	16.35	21.15	19.14	16.30	13.39	18.15	22.97	21.65	18.13	14.49	19.68	24.20	23.68	19.61	15.38
65	kW	1.42	1.42	1.41	1.40	1.39	1.50	1.50	1.50	1.48	1.47	1.58	1.58	1.58	1.57	1.55
75	Total capacity	22.22	20.64	22.30	24.43	26.71	23.23	22.38	23.23	25.49	27.76	23.78	23.57	23.80	26.06	28.37
75	Sensible capacity	16.04	20.64	18.86	16.04	13.12	17.88	22.38	21.35	17.87	14.24	19.40	23.57	23.38	19.37	15.13
75	kW	1.54	1.54	1.54	1.54	1.53	1.63	1.63	1.63	1.62	1.61	1.71	1.71	1.71	1.70	1.70
85	Total capacity	21.44	20.05	21.52	23.57	25.82	22.35	21.72	22.38	24.55	26.76	22.84	22.84	22.90	25.05	27.28
85	Sensible capacity	15.72	20.05	18.54	15.72	12.82	17.54	21.72	20.99	17.55	13.93	19.06	22.84	22.90	19.05	14.81
85	kW	1.68	1.68	1.68	1.68	1.68	1.77	1.77	1.77	1.77	1.76	1.87	1.86	1.86	1.86	1.86
95	Total capacity	20.65	19.45	20.70	22.71	24.87	21.47	21.01	21.48	23.60	25.74	21.90	22.05	22.06	24.05	26.25
95	Sensible capacity	15.36	19.45	18.14	15.38	12.51	17.14	21.01	20.51	17.16	13.59	18.62	22.05	22.06	18.64	14.45
95	kW	1.88	1.88	1.88	1.88	1.88	1.97	1.97	1.97	1.97	1.97	2.06	2.06	2.06	2.06	2.06
105	Total capacity	19.72	18.75	19.76	21.69	23.82	20.44	20.23	20.41	22.51	24.64	20.76	21.19	21.20	22.89	25.06
105	Sensible capacity	14.96	18.75	17.75	15.00	12.15	16.76	20.23	20.13	16.79	13.23	18.21	21.19	21.20	18.27	14.11
105	kW	2.11	2.11	2.11	2.12	2.13	2.21	2.20	2.20	2.21	2.22	2.30	2.30	2.30	2.30	2.31
115	Total capacity	18.68	17.98	18.62	20.57	22.61	19.27	19.32	19.33	21.27	23.31	19.48	20.22	20.23	21.60	23.65
115	Sensible capacity	14.53	17.98	17.27	14.56	11.73	16.30	19.32	19.33	16.37	12.79	17.83	20.22	20.23	17.84	13.66
115	kW	2.40	2.39	2.40	2.41	2.42	2.50	2.49	2.49	2.51	2.52	2.60	2.60	2.60	2.61	2.62
125	Total capacity	16.90	16.36	16.90	18.91	20.69	17.53	17.53	18.12	19.88	21.79	17.90	18.29	19.12	20.50	22.67
125	Sensible capacity	13.77	16.36	16.53	13.73	10.67	15.84	17.53	18.12	15.87	12.03	17.77	18.29	19.12	17.72	13.19
125	kW	2.82	2.82	2.81	2.81	2.81	2.87	2.87	2.87	2.88	2.90	2.93	2.94	2.94	2.96	2.98

Performance data - 3 ton

See the following tables for performance data for the YC636E2S11 unit.

Cooling performance data - 3 ton

Table 11: Cooling performance data - 3 ton

Air temperature entering outdoor unit (°F)	Indoor CFM	1000					1200					1400				
		Indoor dry bulb (°F)					Indoor dry bulb (°F)					Indoor dry bulb (°F)				
		80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	Indoor wet bulb (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
55	Total capacity	35.60	37.70	37.65	39.85	41.33	37.95	39.38	39.31	41.85	43.82	39.83	40.69	40.59	43.38	45.43
55	Sensible capacity	35.58	31.44	26.93	25.95	20.17	37.93	34.52	29.33	28.24	22.11	39.80	37.04	31.25	29.99	23.57
55	kW	2.14	2.16	2.16	2.18	2.20	2.16	2.17	2.17	2.19	2.21	2.18	2.18	2.18	2.20	2.22
65	Total capacity	35.75	33.03	35.90	39.26	42.85	37.11	35.31	37.28	40.74	44.24	38.11	37.00	38.25	41.76	45.27
65	Sensible capacity	25.63	33.01	30.19	25.65	21.24	27.81	35.28	33.22	27.85	22.57	29.60	36.98	35.90	29.63	23.79
65	kW	2.30	2.28	2.30	2.33	2.37	2.31	2.30	2.31	2.35	2.39	2.32	2.31	2.32	2.36	2.40
75	Total capacity	34.45	32.16	34.61	37.86	41.34	35.75	34.26	35.87	39.27	42.69	36.69	36.04	36.58	40.29	43.68
75	Sensible capacity	24.88	32.14	29.67	24.92	20.29	27.22	34.24	32.89	27.30	21.70	29.30	36.02	35.32	29.29	22.97
75	kW	2.49	2.48	2.49	2.52	2.55	2.50	2.49	2.50	2.53	2.56	2.51	2.50	2.51	2.54	2.57
85	Total capacity	33.11	31.15	33.27	36.43	39.73	34.26	33.13	34.34	37.58	40.93	35.08	34.78	35.16	38.44	41.84
85	Sensible capacity	24.31	31.13	29.50	24.30	19.43	26.67	33.11	32.16	26.59	20.90	28.78	34.76	34.42	28.63	22.15
85	kW	2.72	2.71	2.71	2.74	2.77	2.72	2.72	2.72	2.76	2.78	2.73	2.73	2.73	2.76	2.79
95	Total capacity	31.75	30.18	31.86	34.97	38.12	32.81	32.07	32.65	36.00	39.21	33.56	33.63	33.65	36.79	40.07
95	Sensible capacity	23.78	30.16	28.79	23.85	18.93	26.25	32.05	31.39	26.10	20.39	28.47	33.61	33.63	28.24	21.66
95	kW	2.98	2.97	2.98	3.00	3.02	2.99	2.98	2.99	3.00	3.03	2.99	2.99	2.99	3.01	3.03
105	Total capacity	30.92	29.61	31.00	34.07	37.31	32.00	31.49	31.87	35.16	38.36	32.74	33.00	33.02	35.90	39.11
105	Sensible capacity	23.62	29.59	28.52	23.66	18.88	26.11	31.46	31.07	26.05	20.39	28.58	32.98	33.00	28.39	21.80
105	kW	3.31	3.30	3.31	3.33	3.35	3.31	3.31	3.32	3.33	3.35	3.31	3.32	3.32	3.33	3.35
115	Total capacity	29.63	28.70	29.55	32.65	35.73	30.64	30.47	30.48	33.69	36.81	31.24	31.90	31.92	34.37	37.52
115	Sensible capacity	23.24	28.68	28.05	23.32	18.61	25.80	30.45	30.46	25.80	20.25	28.25	31.88	31.90	28.21	21.63
115	kW	3.69	3.68	3.69	3.72	3.74	3.70	3.70	3.70	3.72	3.74	3.70	3.71	3.71	3.72	3.76
125	Total capacity	27.44	27.25	27.22	30.25	33.06	28.60	29.02	29.03	31.49	34.33	29.30	30.60	30.59	32.35	35.36
125	Sensible capacity	22.62	27.23	27.17	22.51	17.69	25.76	29.01	29.02	25.23	19.57	27.68	30.58	30.57	27.83	20.99
125	kW	4.24	4.24	4.24	4.28	4.31	4.21	4.24	4.24	4.28	4.32	4.23	4.24	4.26	4.26	4.33

Performance data - 4 ton

See the following tables for performance data for the YC648E2S11 unit.

Cooling performance data - 4 ton

Table 12: Cooling performance data - 4 ton

Air temperature entering outdoor unit (°F)	Indoor CFM	1400					1600					1800				
		Indoor dry bulb (°F)														
		80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	Indoor wet bulb (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
55	Total capacity	45.25	46.82	46.55	50.54	55.18	47.26	48.05	47.77	52.33	56.54	48.95	49.08	48.78	56.73	57.63
55	Sensible capacity	45.25	39.30	33.47	32.63	27.15	47.26	41.74	35.29	34.89	28.23	48.95	44.09	36.98	38.40	29.21
55	kW	2.79	2.62	2.62	2.64	2.65	2.80	2.63	2.63	2.64	2.65	2.81	2.63	2.63	2.85	2.66
65	Total capacity	45.13	41.85	45.34	49.62	54.14	46.34	43.66	46.50	50.89	55.43	47.30	45.21	47.42	51.89	56.43
65	Sensible capacity	32.45	41.85	38.09	32.62	27.02	34.22	43.66	40.43	34.37	28.19	35.82	45.21	42.60	35.96	29.22
65	kW	2.83	2.81	2.83	2.85	2.86	2.83	2.82	2.83	2.85	2.87	2.84	2.82	2.83	2.85	2.87
75	Total capacity	45.08	41.86	45.27	49.61	54.27	46.28	43.68	46.41	50.86	55.52	47.26	45.24	47.33	51.87	56.52
75	Sensible capacity	32.56	41.86	38.24	32.72	27.08	34.34	43.68	40.61	34.49	28.26	35.99	45.24	42.84	36.13	29.33
75	kW	3.19	3.17	3.19	3.21	3.23	3.19	3.18	3.19	3.21	3.23	3.20	3.19	3.20	3.22	3.24
85	Total capacity	44.87	41.74	45.03	49.40	54.16	46.07	43.56	46.17	50.66	55.42	47.01	45.12	47.06	51.67	56.44
85	Sensible capacity	32.50	41.74	38.24	32.66	26.99	34.33	43.56	40.65	34.47	28.19	36.00	45.12	42.93	36.14	29.28
85	kW	3.65	3.64	3.65	3.68	3.69	3.66	3.65	3.66	3.68	3.70	3.67	3.65	3.67	3.69	3.70
95	Total capacity	42.97	40.32	43.09	47.33	51.92	44.07	42.06	44.14	48.50	53.10	44.96	43.53	44.92	49.42	54.01
95	Sensible capacity	31.52	40.32	37.28	31.65	25.92	33.34	42.06	39.77	33.47	27.12	35.02	43.53	42.17	35.11	28.19
95	kW	4.01	3.99	4.00	4.03	4.06	4.01	4.00	4.01	4.04	4.06	4.02	4.01	4.01	4.04	4.07
105	Total capacity	38.91	37.26	38.92	42.88	47.02	39.79	38.80	39.74	43.82	47.94	40.50	40.11	40.32	44.56	48.69
105	Sensible capacity	29.62	37.26	35.53	29.72	23.95	31.40	38.80	38.15	31.49	25.09	33.07	40.11	40.32	33.17	26.14
105	kW	4.32	4.30	4.31	4.32	4.33	4.32	4.30	4.30	4.32	4.34	4.32	4.31	4.30	4.32	4.34
115	Total capacity	36.26	35.26	36.22	40.01	43.89	37.04	36.68	36.84	40.84	44.71	37.64	37.89	37.91	41.49	45.42
115	Sensible capacity	28.44	35.26	34.54	28.52	22.72	30.24	36.68	36.84	30.33	23.85	31.96	37.89	37.91	31.98	24.92
115	kW	4.69	4.68	4.68	4.71	4.73	4.70	4.69	4.69	4.71	4.73	4.70	4.69	4.69	4.71	4.73
125	Total capacity	33.58	33.00	33.54	37.34	40.88	34.28	34.07	34.76	38.18	41.78	37.02	36.70	37.55	41.27	45.18
125	Sensible capacity	27.93	33.00	33.54	27.62	21.28	29.61	34.07	34.76	29.31	22.48	31.80	36.70	37.55	31.66	24.51
125	kW	5.10	5.07	5.09	5.13	5.17	5.15	5.13	5.14	5.19	5.23	5.85	5.81	5.81	5.86	5.91

Performance data - 5 ton

See the following tables for performance data for the YC660E2S11 unit.

Cooling performance data - 5 ton

Table 13: Cooling performance data - 5 ton

Air temperature entering outdoor unit (°F)	Indoor CFM	1500					1700					1900				
	Indoor dry bulb (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	Indoor wet bulb (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
55	Total capacity	54.89	59.71	59.53	64.19	68.01	57.56	61.17	60.90	65.72	69.60	59.08	62.16	61.75	66.88	70.40
55	Sensible capacity	54.89	48.06	41.26	40.56	32.91	57.56	51.07	43.50	42.62	34.14	59.08	53.86	45.41	44.17	34.84
55	kW	3.37	3.43	3.43	3.49	3.55	3.40	3.44	3.44	3.51	3.57	3.42	3.45	3.45	3.52	3.58
65	Total capacity	56.80	52.09	56.98	62.51	68.49	58.39	54.54	58.66	64.27	70.14	59.74	56.63	60.04	65.70	71.52
65	Sensible capacity	39.72	52.09	46.44	39.84	33.03	42.03	54.54	49.56	42.22	34.68	44.20	56.63	52.59	44.32	36.01
65	kW	3.65	3.58	3.65	3.73	3.82	3.67	3.62	3.67	3.75	3.85	3.69	3.64	3.69	3.78	3.87
75	Total capacity	55.13	50.97	55.36	60.77	66.72	56.70	53.38	56.86	62.37	68.26	57.98	55.46	58.08	63.74	69.58
75	Sensible capacity	39.01	50.97	46.06	39.16	32.12	41.54	53.38	49.37	41.60	33.77	43.80	55.46	52.41	43.91	35.28
75	kW	3.95	3.90	3.95	4.03	4.12	3.97	3.93	3.97	4.06	4.15	3.99	3.95	3.99	4.07	4.17
85	Total capacity	53.24	49.59	53.31	58.59	64.38	54.60	51.87	54.62	60.13	65.78	55.76	53.80	55.69	61.29	66.92
85	Sensible capacity	38.29	49.59	45.38	38.23	31.09	40.73	51.87	48.65	40.72	32.75	43.05	53.80	51.50	43.11	34.31
85	kW	4.31	4.26	4.31	4.38	4.47	4.33	4.29	4.33	4.41	4.49	4.34	4.31	4.34	4.42	4.51
95	Total capacity	51.00	47.92	51.02	56.20	61.66	52.30	50.12	52.25	57.50	62.99	53.41	51.94	53.13	58.58	64.04
95	Sensible capacity	37.32	47.92	44.44	37.30	30.05	39.73	50.12	47.51	39.68	31.71	42.17	51.94	50.46	42.11	33.24
95	kW	4.70	4.65	4.69	4.77	4.86	4.71	4.68	4.71	4.79	4.88	4.73	4.71	4.72	4.81	4.90
105	Total capacity	46.91	44.87	46.76	51.77	56.85	48.03	46.89	47.73	52.93	58.03	49.06	48.54	48.57	53.85	58.91
105	Sensible capacity	35.45	44.87	42.81	35.59	28.42	37.96	46.89	45.70	38.02	30.04	40.87	48.54	48.57	40.39	31.52
105	kW	4.97	4.93	4.96	5.04	5.13	4.98	4.97	4.98	5.06	5.15	4.99	4.99	4.99	5.08	5.16
115	Total capacity	44.62	43.21	44.43	49.37	54.31	45.61	45.12	45.31	50.38	55.39	46.53	46.67	46.70	51.21	56.20
115	Sensible capacity	34.71	43.21	41.92	34.69	27.60	37.27	45.12	44.90	37.22	29.22	40.13	46.67	46.70	39.75	30.75
115	kW	5.29	5.29	5.29	5.35	5.44	5.30	5.29	5.30	5.37	5.46	5.30	5.31	5.31	5.38	5.47
125	Total capacity	42.20	41.80	41.92	47.31	52.83	42.77	43.68	42.91	47.52	52.80	44.71	45.33	45.45	49.69	54.82
125	Sensible capacity	34.06	41.80	40.88	34.55	27.85	36.59	43.68	42.91	36.37	28.40	38.98	45.33	45.45	38.78	29.87
125	kW	5.94	6.37	5.94	5.99	6.05	6.01	6.38	6.02	6.00	6.06	6.37	6.37	6.38	6.43	6.51

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