
TECHNICAL SPECIFICATIONS

S3QA -(-) K(A,B) Series Condensing Unit Split System Air Conditioning

**10 SEER High Efficiency
Manufactured Housing Systems
23,600 - 54,000**

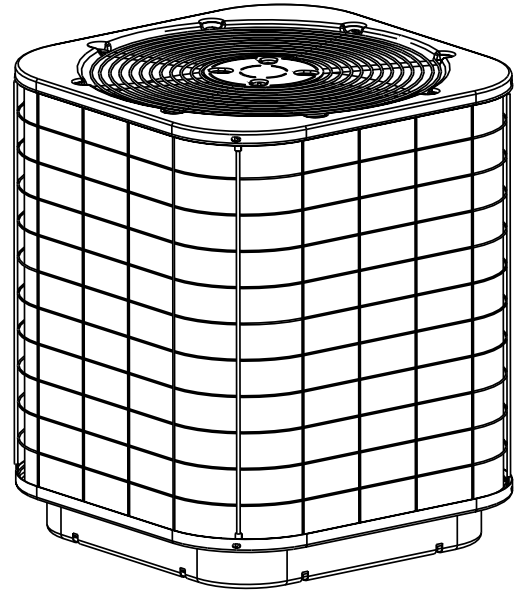
The S3QA Series of air conditioners offers exceptional performance from a small, compact design. The condensing units, when combined with our engineered matched indoor coils, offer a full line of quality, split-system air conditioners. Units are ideally sized for manufactured housing applications.

S3QA Air Conditioner

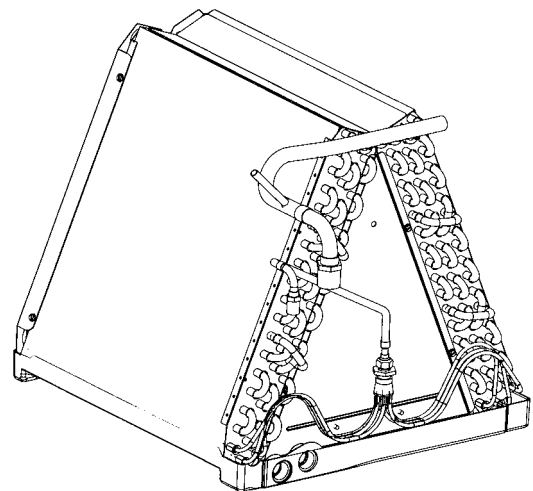
- Designed using galvanized steel with a polyester urethane coat finish. The 950 hour salt spray finish resists corrosion 50% better than comparable units.
- Heavy-duty PSC permanently lubricated motor.
- Advanced, energy-saving compressor.
- Weather-tight, easily accessible electrical controls.
- Quick connect refrigerant couplings for easy installation.
- Wrap-around plastic coated coil and fan guard.
- Plastic mesh hail guard protects coil from damage.
- Copper tube with aluminum fins.
- Dynamically-balanced fan motor assembly and new condenser orifice design for quiet operation.
- Top grill assembly can be removed without cutting or disconnecting any wiring.
- Service access panel can be removed without top panel.
- One year limited parts warranty, additional four year parts warranty on the compressor.

C3QA Evaporator Coils

- Upflow and counterflow applications.
- Copper tubing with aluminum fins.
- Quick connect refrigerant connections.
- High-efficiency fin design and rifled tubing.
- Plastic long-life drain pan and fitting.

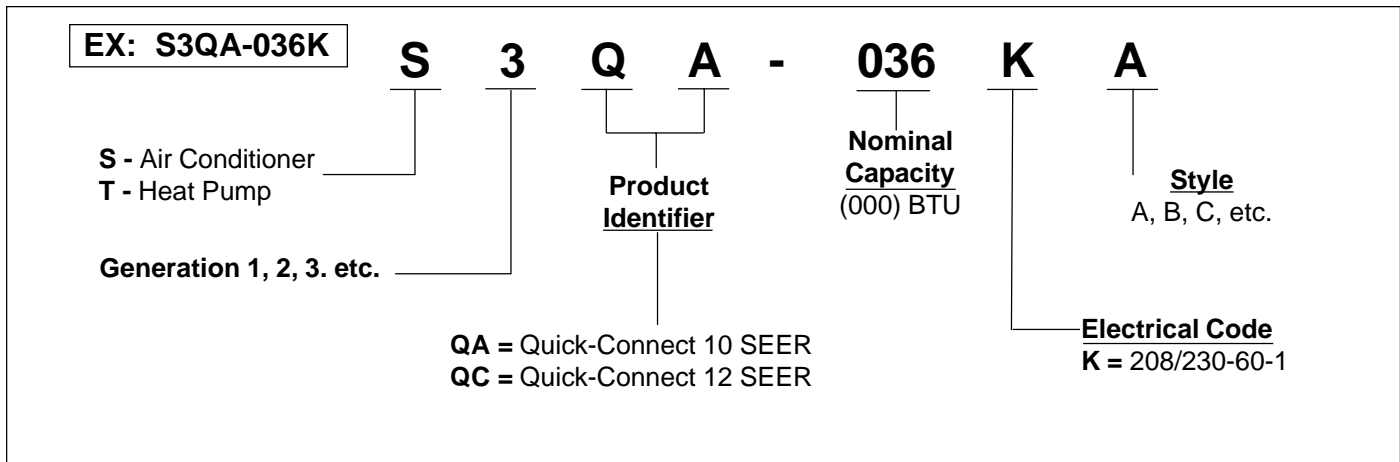


S3QA Condensing Unit

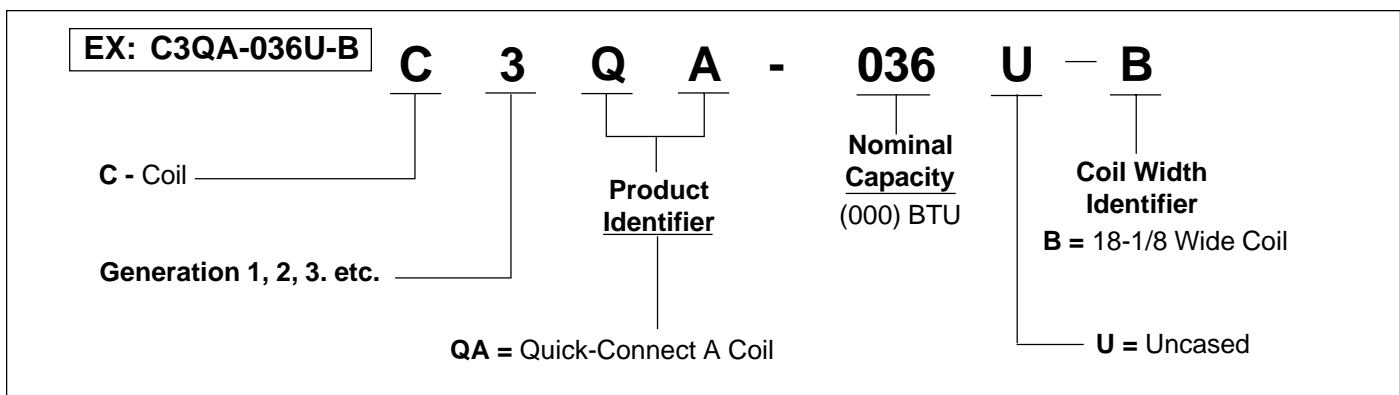


C3QA Indoor Coil

CONDENSING UNIT MODEL IDENTIFICATION CODE



INDOOR COIL MODEL IDENTIFICATION CODE



SYSTEM CAPACITIES

Outdoor Unit S3QA-	Indoor Coil C3QA-	Cooling Btuh	SEER
024KA	024U-B	23,400	10
030KA	030U-B	28,600	10
036KA	036U-B	34,600	10
042KA	042U-B	40,000	10
048KA	047U-B	46,000	10
048KA	048U-B	47,000	10
060KB	055U-B	54,000	10

COPPER WIRE SIZE — AWG (1% Voltage Drop)				
Supply Wire Length-Feet				Supply Circuit
200	150	100	50	Ampacity
6	8	10	14	15
4	6	8	12	20
4	6	8	10	25
4	4	6	10	30
3	4	6	8	35
3	4	6	8	40
2	3	4	6	45
2	3	4	6	50

ACCESSORIES

CONDENSING UNIT

Start Assist Kits - 912933

Provide additional starting torque for the compressor motor when operating with low line voltage or high operating temperatures.

INSULATED PRE-CHARGED LINE SETS

A line set consists of a liquid line, an insulated suction line, service gaugeports, and the quick-connect coupling. 15, 20, 30, 40, and 50 ft. lengths are available. Lines are factory pre-charged such that no additional refrigerant charge is required on matched systems.

PHYSICAL AND ELECTRICAL SPECIFICATIONS

10 SEER — High Efficiency

Model No. S3QA-		024KA	030KA	036KA	042KA	048KA	060KB	
Electrical Data	Volts-Cycles-Phase	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	
	Total Amps	10.5	14.8	15.9	18.1	23.2	28.5	
	Max. Overcurrent Protection	20	30	30	35	50	60	
	Min. Circuit Ampacity	12.9	18.2	19.7	22.4	28.6	35.3	
Component Data	Coil	Area	8.3	8.3	8.3	11.5	13.3	17.7
		Rows-FPI	1-14	1-18	1-22	1-20	1-18	1-22
		Tube Dia.	3/8 O.D.	3/8 O.D.	3/8 O.D.	3/8 O.D.	3/8 O.D.	3/8 O.D.
	Fan Motor	Type	PSC	PSC	PSC	PSC	PSC	PSC
		Amps	0.67	1.13	1.13	1.13	1.4	1.5
		HP	1/10	1/8	1/8	1/8	1/4	1/4
	Fan Blade	Di.-#Blades	18 in. - 3	18 in. - 3	18 in. - 3	18 in. - 3	18 in. - 4	24 - 3 in.
		SCFM	2100	2500	2500	2500	3000	4000
	Compressor Data	RLA	9.8	13.7	14.8	17.0	21.8	27.0
		LRA	56	75	96	105	131	144
Refrigerant Suction Line-Length/O.D. (Liq. Line All Lengths - 3/8" O.D.)	20 ft.	5/8"	3/4"	3/4"	3/4"	7/8"	7/8"	
	25 - 39 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	1-1/8" (5)	
	40 - 75 ft.	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (5)	
Refrigerant Charge (Outdoor Unit, Indoor Unit R-22 Ounces 15' Line Set)		64	68	69	87	96	114	
Weight Approximate (lbs.)	Net	142	147	152	159	162	190	
	Ship	154	159	164	171	174	202	

(1) Requires Stub Kit (p/n 911658) and 1 1/8" to 7/8" reducer from line to unit.

Notes: Operating Voltage Range: 198V min. - 253V max. HACR Type Circuit Breakers May Be Used

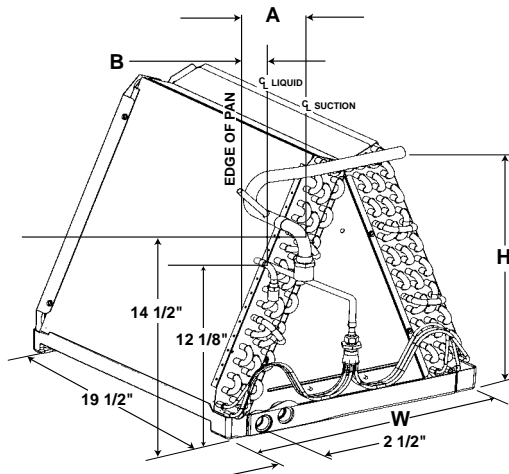


Figure 1. C3QA COIL

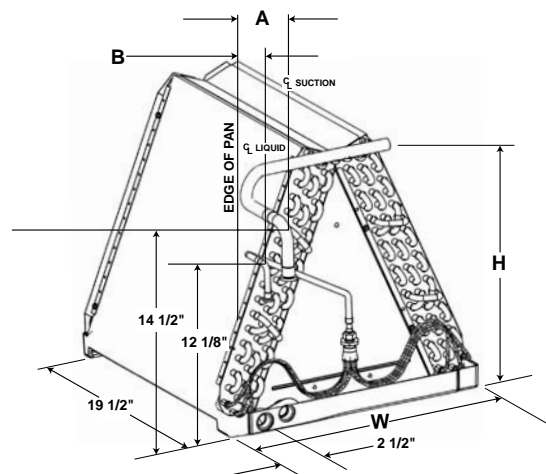


Figure 2. C3DA COIL

A-COIL DATA TABLES

Model C3QA/C3DA Coil		024U-B	030U-B	036U-B	042U-B	047U-B	048U-B	055U-B
Face Area (ft ²)		4.18	4.18	4.18	4.18	4.18	5.12	4.18
Rows		2	2	2	3	3	2	4
Fins per inch		12	12	15	10	12	16	10
Refrigerant Flow Control		Fixed Orifice						
Orifice Size (1)*		.060	.063	.067	.075	.080	.082	.093
Nominal Airflow (cfm)		800	1000	1200	1400	1400	1500	1500
Pressure Drop at Nominal Airflow (in w.c.)		0.07	0.12	0.21	0.30	0.30	0.30	0.30
Dimensions: (inches)	Width (W)	18-1/8	18-1/8	18-1/8	18-1/8	18-1/8	18-1/8	18-1/8
	Height (H)	18	18	18	18	18	22-3/4	18-1/2
	A	3-1/4	3-1/4	3-1/4	3-1/4	3-1/4	3-1/4	3-1/4
	B	1-3/4	1-3/4	1-3/4	1-3/4	1-3/4	1-3/4	1-3/4
Coil Conversion Kit (Includes Filters)		914539	914539	914539	914539	914539	917416	914539
Filters Only (Qty. 5 Sets)		917763**	917763**	917763**	917763**	917763**	N/A	917763**
Filters Only (Qty. 50 Sets)		903825	903825	903825	903825	903825	N/A	903825

* Orifice size shown is for 10 Seer rating with S3QA outdoor unit.

**Packed in sets.

DIMENSIONS

AIR CONDITIONER OUTDOOR SECTION (SEE FIGURE 4.)

S3QA-	024KA	030KA	036KA	042KA	048KA	60KB
H (in.)	22-1/2	22-1/2	22-1/2	30-1/2	34-1/2	30-1/2
W (in.)	22-1/2	22-1/2	22-1/2	22-1/2	22-1/2	30-1/2
D (in.)	22-1/2	22-1/2	22-1/2	22-1/2	22-1/2	30-1/2

DRAIN PAN BOTTOM VIEW (SEE FIGURE 3.)

Dimension (Inches)	C3 Series - All Models
A	18-1/8
B	12-1/8
C	19-1/2
D	16-5/8

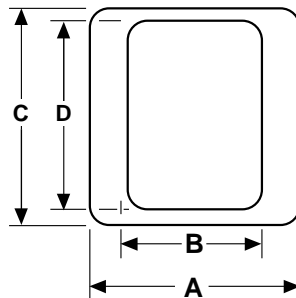


Figure 3. C3 Series Drain Pan Dimensions

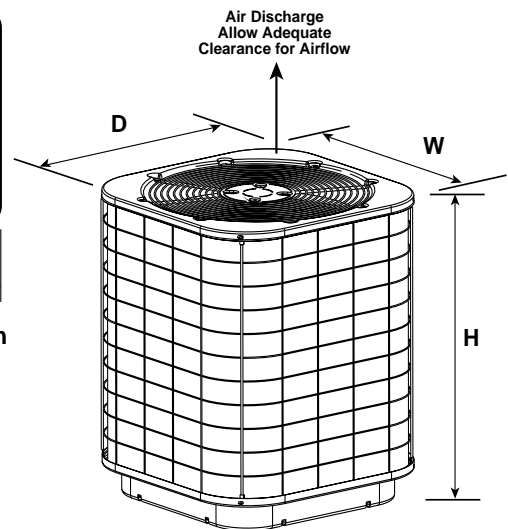


Figure 4. S3 Series Dimensions

GUIDE SPECIFICATIONS

The contractor shall furnish and install, as indicated on plans and equipment schedule, a matched system consisting of outdoor unit model no. _____ and indoor coil model no. _____ as manufactured by NORDYNE. The system must be ETL listed and ARI rated for efficiency.

Performance: Net cooling capacity shall be _____ Btuh and sensible capacity of _____ Btuh when handling _____ cfm of Evaporator Air at entering conditions of _____ (°F) dry bulb and _____ (°F) wet bulb. The outdoor unit entering air temperature to be _____ (°F) dry bulb. The system shall have a minimum SEER of _____.

INDOOR COIL

The coils shall be fabricated utilizing refrigerant grade copper tubing expanded into aluminum fins for maximum bonding. Tube and fin spacing and the number of rows shall be such that the indoor coil will provide _____ cfm at no more than _____ inches of W.C. air resistance.

OUTDOOR UNIT

Compressor: Shall be hermetically-sealed with inherent thermal and electrical overload protection, mounted on a vibration absorbing base.

Outdoor Unit Coil: Shall be constructed of seamless copper tubing, expanded and bonded to aluminum plate fins. Coil shall be a minimum of _____ rows deep, and _____ (sq. ft.) in face area. Outdoor coils shall be protected by a full plastic-coated coil guard and hail guard.

Outdoor Unit Fan Motor: Shall be a PSC single end shaft type with permanently sealed bearings and be suspended from the unit top grille.

Outdoor Unit Fan: Shall be a corrosion resistant, propeller type. Air discharge shall be out the top of the unit.

Cabinet: Shall be constructed of galvanized steel and coated with a polyester urethane coat providing a 950 hour salt spray and 1.5 mil thickness. Knockouts shall be provided for electrical connections. Side access panel shall be removable for service functions, without the need to remove the top fan panel/grille.



CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI

057A-0803 (Replaces 057A-0902)

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations. Printed in U.S.A. (08/03)