

# QUICK REFERENCE DATA

## ES4QE & ES6QF Series Residential Split System Air Conditioner

MODEL NUMBERS			ES4QE-024KA	ES4QE-030KA	ES4QE-036KA	ES6QF-042K	ES6QF-048K
Electrical Data	Volts-Cycles-Phase (1)		208/230-60-1				
	Total Amps		14.4	15.0	15.1	19.4	22.4
	Delay Fuse Max. (2)		30	30	30	40	45
	Min. Circuit Ampacity		17.7	18.5	18.6	23.9	27.4
Condenser Data	Coil	Area	11.7	15.2	20.3	25.3	25.3
		Rows-FPI	1-23	1-18	1-18	1-23	1-23
		Tube Dia	Micro-Channel				
	Fan Motor	Type	PSC				BLDC
		Amps	0.9	0.9	1.0	1.5	2.6
		HP	0.13	0.13	0.20	0.25	0.33
	Compressor Data	RLA	13.4	14.1	14.1	17.9	19.8
		LRA	58.3	73.0	77.0	112.0	109.0
Refrigerant suction line O.D NOTE: Liquid line is 3/8" O.D. for entire length.		0-24 ft.	3/4"	3/4"	3/4"	7/8"	7/8"
		25-39 ft.	3/4"	3/4"	7/8" (3)	7/8"	7/8"
		40-75 ft.	3/4"	3/4"	7/8" (3)	7/8"	7/8"
Refrigerant charge: R-410A in ounces for outdoor unit, indoor unit, & 15' Lineset			58.0	66.0	69.0	96.0	96.0
APPROXIMATE WEIGHT (LBS.)		Net	127	132	146	208	218
		Ship	134	140	155	217	227

(1) Operating Voltage Range: 187v min. — 253v max.

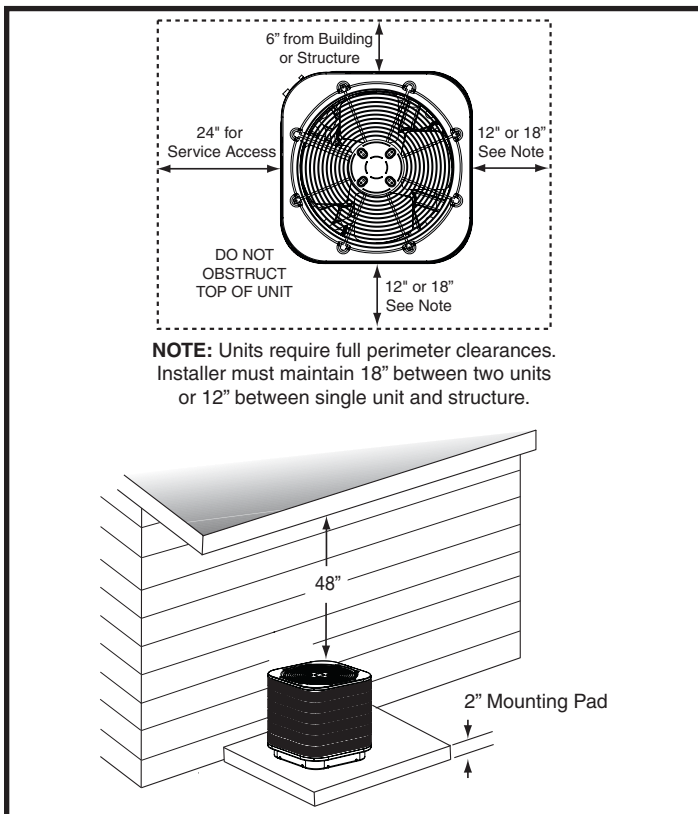
(2) HACR Type Circuit Breakers may be used.

(3) Requires 7/8" to 3/4" reducer from unit to line.

**Table 1. Electrical Specifications & Physical Data**

THERMOSTAT WIRE GAUGE	RECOMMENDED T-STAT WIRE UNIT TO T-STAT (LENGTH IN FT)	
	2-WIRE (HEATING)	5-WIRE (HEATING/COOLING)
24	55	25
22	90	45
20	140	70
18	225	110

**Table 2. Thermostat Wire Gauge**



**Figure 1. Clearance Requirements**

MODEL NUMBER	HEIGHT (H)	WIDTH (W)	DEPTH (D)
ES4QE-018KA	27 1/2"	22 3/4"	22 3/4"
ES4QE-024KA	31 1/2"	22 3/4"	22 3/4"
ES4QE-030KA	27 1/2"	30 3/4"	30 3/4"
ES4QE-036KA	35 1/2"	30 3/4"	30 3/4"
ES6QF-042K	43"	30 3/4"	30 3/4"
ES6QF-048K	43"	30 3/4"	30 3/4"

**Table 3. Unit Dimensions**

**Instructions:**

1. Find the column for the model of outdoor unit that is being installed.
2. Find the row for the model of the indoor unit that is being installed.
3. Find the cell in the table in which this row and column meet. In this cell the appropriate orifice / TXV and charge addition for this match are listed. If the text in this cell is **BOLD**, then a change of orifice is necessary.
4. If a change in restrictor is necessary, then the appropriate restrictor will already be supplied with the outdoor unit.

**Examples:**

- For the ES4QE-024KA / C8QAMX24U-B match the correct TXV is the 669564 and no additional charge needs to be added. (NO CHANGES NECESSARY)
- For the ES6QF-042K / C8QAMX42U-B match the correct TXV is the 669684 and no additional charge needs to be added. (NO CHANGES NECESSARY)

ID RESTRICTOR INSTALLED WITH ID UNIT	MODEL NUMBERS:		ES4QE-024KA	ES4QE-030KA	ES4QE-036KA	ES6QF-042K	ES6QF-048K
	TOTAL SYSTEM CHARGE (OZ.)		58	66	69	96	96
	MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW - SCFM)				
	C8-X						
	C8QAMX24U-B	669564	669564 (0 / 845)	--	--	--	--
	C8QAMX30U-B	669565	--	669565 (0 / 945)	--	--	--
	C8QAMX36U-B	669566	--	--	669566 (0 / 1200)	--	--
	C8QAMX42U-B	669684	--	--	--	669684 (0 / 1250)	--
	C8QAMX48U-B	669684	--	--	--	--	669684 (0 / 1440)

**NOTES**

- The charges listed are only valid for the standard 15' lineset.
- Numbers listed as 0.\*\*\* are restrictor diameters, while numbers listed as 669\*\*\* are TXV part numbers.

**Table 4. Restrictor or TXV / Charge Addition (Oz)**

THE CHARGE ADDITIONS PROVIDED IN THIS DOCUMENT ARE ESTIMATES BASED ON TEST DATA AND SHOULD ONLY BE A STARTING POINT. AFTER FOLLOWING THESE DIRECTIONS PLEASE ADJUST THE REFRIGERANT AMOUNT BASED ON THE APPROPRIATE CHARGING TABLES OR CHARTS IN THE INSTALLATION INSTRUCTIONS OR CHARGING LABEL.

