



# STAYCOOL THIS SUMMER

## HOW TO CHOOSE AN AIR CONDITIONER THAT IS THE RIGHT SIZE FOR YOUR ROOM

### Size It Right.

There are many different air conditioners, but there's one thing they should all do: remove heat and humidity from the air. Getting the properly sized air conditioner for your home is critical. The appropriate size will operate more efficiently and dehumidify more effectively. If the unit is too large, it will cool the room quickly, but only remove a portion of the humidity. This leaves the room with a damp, clammy feeling. A properly sized unit will remove humidity effectively as it cools, providing better comfort and using less energy.

### Which Capacity Should I Use?

#### LOW

Room is shaded by trees, has low-e windows, windows are not south-facing, your home has above average building tightness, or below average occupancy.

#### AVERAGE

Room is partially shaded by trees, may have low-e windows, some windows are south facing, and your home has average building tightness or average occupancy levels.

#### HIGH

Room is in full sun, doesn't have low-e windows, windows are south-facing, and your home has below average building tightness, or above average occupancy.

### What is EER?

The EER, or Energy Efficiency Rating, is a number computed for each air conditioner, which enables you to compare the relative efficiency of the units. The higher the EER, the more energy efficient the air conditioner is.

**Always choose a higher EER.**

### Air Conditioner Sizing Chart

Find the square footage of the room to be cooled in the chart below. Square footage can be calculated by multiplying the length of the room in feet by the width of the room in feet. Use the information on the left to choose the capacity that's right for you.

Area to be Cooled (sq. ft.)	Capacity (BTU/hr.)		
	LOW	AVERAGE	HIGH
Up to 200	5,000	5,000	5,000
200 to 250	5,000	6,000	7,500
250 to 300	5,000	7,000	9,000
300 to 350	5,200	8,000	10,500
350 to 400	6,500	9,000	12,000
400 to 450	5,000	10,500	13,800
450 to 500	7,800	11,500	15,000
500 to 550	8,200	12,600	16,000
550 to 600	9,000	13,800	18,000

Write down the model numbers you are considering:

**Chill Out Just When You're Home.** Homeowners can set the temperature of an ENERGY STAR® qualified programmable thermostat to use less cooling when they are normally away, which dramatically reduces energy use at peak load times.

#### ENERGY STAR qualified window air conditioners:

- Use up to **25% less energy** than a standard new model
- Use up to **40% less energy** than a model more than 10 years old

**Work off peak.** Reduce heat and moisture and reduce peak load usage by using ovens, washing machines, dryers and dishwashers in the early morning or late at night when it's generally cooler outside.

**You can also save money by using ENERGY STAR qualified appliances, lighting and products.**

Log onto [GetEnergySmart.org](http://GetEnergySmart.org) or call **1-877-NY-SMART** for more energy saving tips.





## HOW COOL IS NEW YORK?

The charts below show you how much money you can save every year on your electric bill by replacing your old working, window or through-the-wall (TTW) air conditioner with a new ENERGY STAR® qualified window or TTW air conditioner.

### Window Air Conditioner replaced with ENERGY STAR qualified Window Air Conditioner

Location Utility Company	Window AC Size (BTU/Hr)	ENERGY STAR Window AC Annual Savings By Age of Window AC Replaced (Yrs)			Higher EER ENERGY STAR AC Annual Savings By Age of Window AC Replaced (Yrs)		
		10	15	20	10	15	20
		Upstate NYSEG, RG&E, Nat'l Grid	5,000	\$6	\$9	\$14	\$7
	8,000	\$10	\$14	\$22	\$11	\$15	\$23
	12,000	\$15	\$21	\$33	\$17	\$23	\$34
Downstate CHGE and O&R	5,000	\$9	\$12	\$19	\$10	\$13	\$20
	8,000	\$14	\$19	\$30	\$16	\$21	\$32
	12,000	\$21	\$29	\$45	\$24	\$31	\$48
	5,000	\$17	\$23	\$37	\$19	\$25	\$39
New York City Con Edison	8,000	\$27	\$37	\$59	\$30	\$40	\$62
	12,000	\$41	\$56	\$88	\$46	\$61	\$92

### TTW AC replaced with an ENERGY STAR qualified TTW or Window AC

Location Utility Company	TTW AC Size (BTU/Hr)	ENERGY STAR TTW Annual Savings By Age of TTW AC Replaced (Yrs)			ENERGY STAR Window AC Annual Savings By Age of Window AC Replaced (Yrs)		
		10	15	20	10	15	20
		Upstate NYSEG, RG&E, Nat'l Grid	6,000	\$8	\$11	\$17	\$10
	10,000	\$15	\$20	\$32	\$21	\$26	\$38
	6,000	\$11	\$15	\$24	\$14	\$18	\$27
Downstate CHGE and O&R	10,000	\$21	\$28	\$44	\$29	\$36	\$52
	6,000	\$21	\$30	\$46	\$27	\$35	\$51
New York City Con Edison	10,000	\$40	\$54	\$85	\$56	\$71	\$101

### TTW AC replaced with an ENERGY STAR qualified TTW or Higher Efficiency ENERGY STAR TTW

Location Utility Company	TTW AC Size (BTU/Hr)	ENERGY STAR TTW Annual Savings By Age of TTW AC Replaced (Yrs)			Higher Efficiency ENERGY STAR TTW Annual Savings By Age of Window AC Replaced (Yrs)		
		10	15	20	10	15	20
		Upstate NYSEG, RG&E, Nat'l Grid	10,000	\$15	\$20	\$32	\$19
Downstate CHGE and O&R	10,000	\$21	\$28	\$44	\$26	\$33	\$49
New York City Con Edison	10,000	\$40	\$54	\$85	\$50	\$64	\$95

Assumed hours of use vary by utility. Based on the variable supply and delivery charge. Go to [GetEnergySmart.org](http://GetEnergySmart.org) for more details.