

Right sizing

Down sizing incentive for replacement equipment:

COOL SMART will provide incentives of \$250 to the contractor and \$250 to the customer per half ton (or 6,000 BTUs) of downsizing for replacement systems. The system must be sized to match Air Conditioning Contractors of America (ACCA) *Manual J* — or sized to match the measured system airflow of the existing ductwork.

Buy better, not bigger... for quality and comfort:

Be sure your contractor “right sizes” your new unit and you’ll receive \$200. Systems with oversized cooling capacity typically cost more to purchase and operate, and short cycle causing undue wear. Oversized equipment will not run long enough to remove humidity from the air. This can leave you feeling cool but not comfortable. Insulating and air sealing your home reduces cooling loads and may let you downsize your new cooling equipment for more savings. A smaller right-sized system will typically maintain better humidity control, last longer, use less energy and cost less to install.

Rebates for ENERGY STAR qualified equipment¹

SEER ²	EER ³	HSPF ⁴ (Air to air heat pumps only)	Rebate (with right sizing)	Rebate (without right sizing)
14.5	≥12	8.2	\$500	\$300
15	≥12.5	8.5	\$600	\$400
Ductless Mini-split Systems:				
14.5	≥12	8.2	N/A	\$500

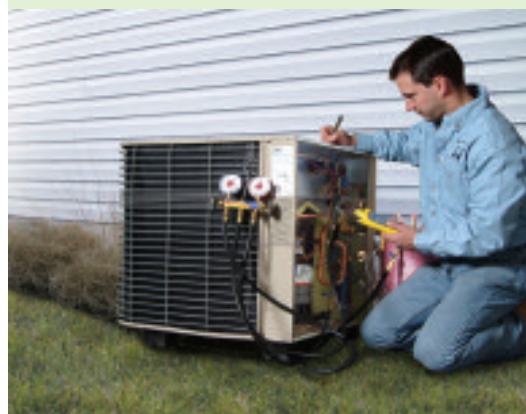
¹ Thermostatic Expansion Valve (TXV) or Electronic Expansion Valve (EXV) required for all equipment
² The AHRI Seasonal Energy Efficiency Ratio (SEER) rating of outdoor condenser and indoor coil working together
³ Energy Efficiency Ratio (EER) rating of outdoor condenser and indoor coil working together
⁴ Heating Seasonal Performance Factor for heat pumps

SEER 16, EER 13 air conditioners may be eligible for 2009 federal tax credits. See www.energystar.gov or ask the IRS for details.

NATE and QIV — A Smart Combination!

Technicians certified by North American Technician Excellence (NATE), have passed tests demonstrating their knowledge about how to install your system. A NATE technician who also uses QIV takes the next logical step and performs tests on your system to confirm that the installation is correct.

Ask your contractor about right sizing, QIV, ENERGY STAR QI, and NATE!



Let COOL SMART help you be smart and stay cool.

New for 2009
Duct sealing
service saves
on heating
and cooling



**For details and a
list of participating
QIV contractors:**

Visit: mycoolsmart.com

Email: info@mycoolsmart.com

Call: 1-800-473-1105

www.mycoolsmart.com



Offers are subject to program terms and conditions and are valid only for residential customers in MA and RI where COOL SMART is offered by the program sponsors, National Grid and NSTAR Electric. If you are an NSTAR Electric customer on Martha's Vineyard or Cape Cod, or a Cape Light Compact, WMECo or Unifit customer, check with your service provider about program rebates.



Your home is a big investment!

Be sure that your home's heating and cooling system is performing at its best!

COOL SMART benefits

- **Rebate of up to \$600** for ENERGY STAR® qualified central AC systems with right sizing*
- **Right sizing: \$250 per half ton** of downsizing for replacement systems 13 SEER or greater
- COOL SMART verifies the results for you with a choice of **Quality Installation Verification (QIV)** services which:
 - + Increase system efficiency/lower monthly costs
 - + Lead to fewer repairs and longer equipment life
 - + Improve dehumidification and comfort
- Participating contractors provide QIV free with purchase of a new system, or \$100 off the cost of a COOL SMART digital checkup (QIV) for your current central air conditioner
- In 2009, COOL SMART is offering the US Environmental Protection Agency's new ENERGY STAR Quality Installation Standard (ESQI) program with a focus on duct testing and sealing for optimal system performance.
- Some ENERGY STAR high-efficiency equipment may be eligible for 2009 federal tax credits. See www.energystar.gov or ask the IRS for details.

COOL SMART verifies results of important ENERGY SAVING system tests which are usually omitted by other contractors.



What are QIV and ESQI?

QIV is a SMART way to ensure quality and energy savings! QIV is available through a growing number of participating contractors.

Easy Four Step Process

1. A COOL SMART trained technician takes a series of measurements to test your unit while it is running.
2. The results are instantly computer-analyzed.
3. Needed adjustments are made.
4. You receive a verification certificate in the mail indicating that your system was properly tested and adjusted for refrigerant charge and airflow.

ESQI — ENERGY STAR Quality Installation — is an even more comprehensive level of cooling system achievement offered by selected contractors in 2009. After your system passes inspection, you receive:

- an ENERGY STAR Quality Installation Certificate showing that refrigerant charge, system sizing, air flow and duct sealing all meet EPA standards
- a \$100 incentive
- a rebate on attic duct sealing (\$1 per cfm of duct sealing up to \$300) to offset duct sealing costs.



See mycoolsmart.com or refer to the ESQI brochure for more information.

"We feel great about Quality Installation Verification, knowing that correct installation brings us the full benefits of higher efficiency."

— Single family homeowner,
Worcester, Massachusetts



Did you know?

Even new systems can have significant problems.

Newly installed systems are often charged incorrectly or have incorrect air flow, reducing capacity and energy efficiency and potentially leading to repair calls, shorter system life or compressor failure.

Your central AC system should be checked every year.

A tune-up is needed only if indicated by the test procedure, but your system must be cleaned—and its filters changed—annually for optimal performance.

Most contractors don't measure airflow.

Unless you select a COOL SMART contractor, you may not be getting the kind of system check that would benefit your system most.

Airflow is essential.

If your duct system has clogged filters, crushed or damaged ducts, inadequate return ducts or the wrong size ducts, then your AC system is unable to deliver cool air to all rooms with maximum effectiveness. Correcting this means improved comfort, lower cost, and a longer system life.

Dehumidification is important.

Humidity levels are just as critical to comfort as the room's temperature. An oversized system does a poor job of lowering the humidity because when the system short cycles, the moisture that forms on the indoor coils doesn't have enough time to go down the air conditioner drain and instead goes back into the indoor air. (Keep in mind that coil size does not equal system size.)

Duct sealing makes a huge difference.

A typical duct system can leak 30% of your system's airflow! Supply ducts waste cooled air when they leak into the unused attic. In summer, leaking return ducts "pull" attic air (often 120°F or higher) into the system and reduce system performance. If the ducts also provide heating, those leaks cost you even more! Sealing ducts often reduces heating and cooling costs by 15%.

Typical installed central AC equipment only operates at 55% to 70% of rated capacity.

Source: National Comfort Institute

For more information:

Visit mycoolsmart.com or call 1-800-473-1105.