



Your Ideal Comfort Solution[®]

The Old Way



Air conditioning & heating
was focused on

- Hot air for your house
- Cold air for your house
- Changing out boxes

The New Way



Today, we

- Customize the Ideal Comfort Solution[®]
for your home & family
- Create a healthy home environment
- Provide for your family's safety
- Reduce energy bills
- Provide the Greatest Peace of Mind[®]





Our Company Resume

People

- With high moral and ethical values
- Ongoing training to assure your complete satisfaction
- All employees fully insured
- Customer service department to serve your individual needs

Protection

- We specialize in amazing comfort
- We protect your home during & after installation
- We wear shoe covers in your home
- Work site will be cleaned to your satisfaction
- For your protection we are fully licensed
- 10-year Peace of Mind warranty

Peace of Mind

- Clean-cut professionals on call 24/7
- Employee background checks
- We use only the most reliable equipment & components
- Your comfort is guaranteed in writing
- You will be 100% satisfied

The Greatest
Peace of Mind®



Licensed, Insured and Protected





Value of Our Installation

The North Carolina Alternative Energy Corporation, a nonprofit organization, examined air conditioning manufacturers' efficiencies versus the efficiencies that resulted after installation; they found the following:

90% of the units tested exhibited some sort of energy-wasting, comfort-robbing problem!

You Will Be in the Top 10%



Other significant HVAC industry surveys reveal *

Duct Leakage (93%)

- Poor indoor air quality
- Health and safety concerns
- Drafts and uneven temperature
- May DOUBLE HVAC portion of the energy bill

Oversizing (47%)

- Doesn't run enough to wring out moisture
- Air in sunlit & shaded rooms does not mix
- Could add 20% to operating costs
- Shorter equipment life

Incorrect Refrigerant Charge (75%)

- Increased failure rate
- Reduced moisture removal
- Equipment may be noisier
- Longer run time
- Could add over 20% to operating costs

Incorrect Air Flow (70%)

- Uneven temperatures
- Poor moisture control
- Noisy grilles and registers
- Could add more than 20% to operating costs

*Texas A&M University, Louisiana State University & Gulf States Utility, Lakeland Electric & Water, Pacific Gas & Electric, American Council for an Energy Efficient Economy, etc. These studies address at least one problem a poor installation plays on comfort or energy cost. Occurrences have been averaged.



Quality Control Audit

		Task	Complete	Incomplete	Not Required
Zip:		Outdoor unit properly installed and level			
		Indoor unit properly installed and level			
		Indoor coil properly installed and level			
		Accessories properly installed			
		Air cleaner(s) properly installed			
		Drain line(s) installed and tested			
		Gas piping properly installed and tested			
		Refrigerant piping properly installed and tested			
		All low-voltage wiring properly installed and tested			
		All line-voltage wiring properly installed and tested			
State:		All insulation complete and secured			
		All duct work complete and sealed			
		All penetrations sealed			
		Furnace venting complete, secured, and checked			
		Combustion air intake installed and working			
		All pilots lit (hot water heater, other appliances)			
		Electrical panel secure, breakers in proper position			
		Condensate pump installed and operating properly			
		Humidifier operation and drain checked			
		Electronic air cleaner operationally tested			
Date:		Supply air register installed, adjusted, and level			
		Return air grille installed and level			
		Thermostat operationally checked and level			
		Blower set for proper air flow			
		Measure cooling supply and return temperatures			
		Measure heating supply and return temperatures			
		Operating temperatures recorded within limits			
		Operating pressures recorded and within limits			
		Variable air flow dip switches properly set			
		Emergency phone numbers provided			
City:		All areas cleaned to customer's satisfaction			
		All homeowner manuals provided			
Name:		Customer instructed in system operation			

THIS ASSURES YOU RECEIVE ALL THE COMFORT YOU ASKED FOR!



Quality Control Checklist

- Outdoor unit level
- Foundation bolts properly installed
- All line voltage wiring properly installed and tested
- All low voltage wiring properly installed and tested
- All electrical panels secure
- System circuit breaker(s) labeled
- Refrigerant piping rated 601 PSIG or higher
- All refrigerant piping properly installed and tested
- All refrigerant piping properly insulated
- System triple evacuated to 500 microns
- M-ohm test compressor per manufacturer's requirements
- Service port valves tightened to 14-18 ft-lbs
- Operating pressures and temperatures within limits
- Indoor unit(s) properly installed
- Indoor units separately tested
- Controller (thermostat) properly installed
- Controller set for desired airflow
- Assure controller is communicating correctly
- Condensate drain(s) properly installed
- All penetrations properly sealed
- All work areas cleaned to customer's satisfaction
- Provide owner operations manual(s)
- Review system operation with customer
- Provide emergency contact information





Problems Are Not Solved by Equipment Alone

Even Air Flow Package

- Install balancing dampers
- Set/check cooling & heating air volumes
- Install double deflection diffusers (optional)
- Install new return air grilles (optional)

Air-Quality Package

- Caulk with lifetime duct sealant
- Post filter change schedule
- High efficiency air purification (optional)
- Easy-change filter grilles (optional)

Comfort Control

- Install ease-of-use comfort interface
- Install easy-to-read thermostat
- Set/check cooling and heating air volumes
- Install double deflection diffusers (optional)

Safety-First Package

- Double insulated copper wire
- Sunlight resistant wire ties
- New low-voltage wiring as needed
- Label all HVAC circuit breakers

Reliability Package

- Install new condensate drain as required
- Refrigerant removal per federal laws
- Provide customer training
- 33-point quality control audit

Energy Savings

- Complete system leak check startup and test
- Charge to manufacturer's specs
- Insulate suction lines
- Easy-to-read filter change schedule

Green Package

- Recycle all eligible materials
- Properly dispose of all hazardous materials
- Recycle existing refrigerant whenever possible
- Precision system control

Quiet Package

- Install vibration eliminators
- Install flexible duct connectors as required
- Cross-brake sheet metal
- Install turning vanes as needed



Value of Our Custom Design

A proper heat-load calculation is the key to customizing your Ideal Comfort Solution®

Our Custom Design

Energy Star*

- A good contractor will not size your equipment solely on square footage
- Assume your existing equipment was sized properly

Department of Energy**

- It is the contractor's job to perform the correct sizing calculation for the home

* Energy Star, Sizing and Installation.
http://www.energystar.gov/index.cfm?c=heat_cool.pr_properly_sized

** U.S. Department of Energy, Sizing Residential Heating and Air Conditioning Systems.
http://www.eere.energy.gov/consumer/your_home/space_heating_cooling/index.cfm/mytopic=12300

Sizing Problems

Oversized

- Higher installation costs
- More breakdowns
- Large temperature swings
- Improper humidity control

Undersized

- Constantly running
- Higher energy costs
- Shorter life
- Reduced comfort



Our Exclusive Warranty

We will warranty the following items for a full 10 years against defects in materials or workmanship from the date your Ideal Comfort Solution® system is placed into operation.

- All ductwork we install
- All ductwork insulation we install
- All sheet-metal straps, clamps, fasteners, hangers, locks, and drivers we install
- All drain piping, hangers and fittings we install
- All high-voltage electrical wiring, conduit, fitting, straps, clamps, and terminal connectors we install
- All high-voltage electrical disconnects, boxes, switches, and fuse blocks we install
- All low-voltage electrical wiring, wire nuts, straps, ties, and connectors we install
- All refrigerant piping we install is guaranteed to be refrigerant leak free. Warranty doesn't include the cost to gain access to underground or other inaccessible piping
- All refrigerant piping insulation we install
- All equipment pads, stands, jacks, and vibration elimination devices we install

Proper maintenance is what allows us to offer this unique warranty. The only requirement to keep this protection in force for a full 10 years is to renew your annual maintenance program when due.

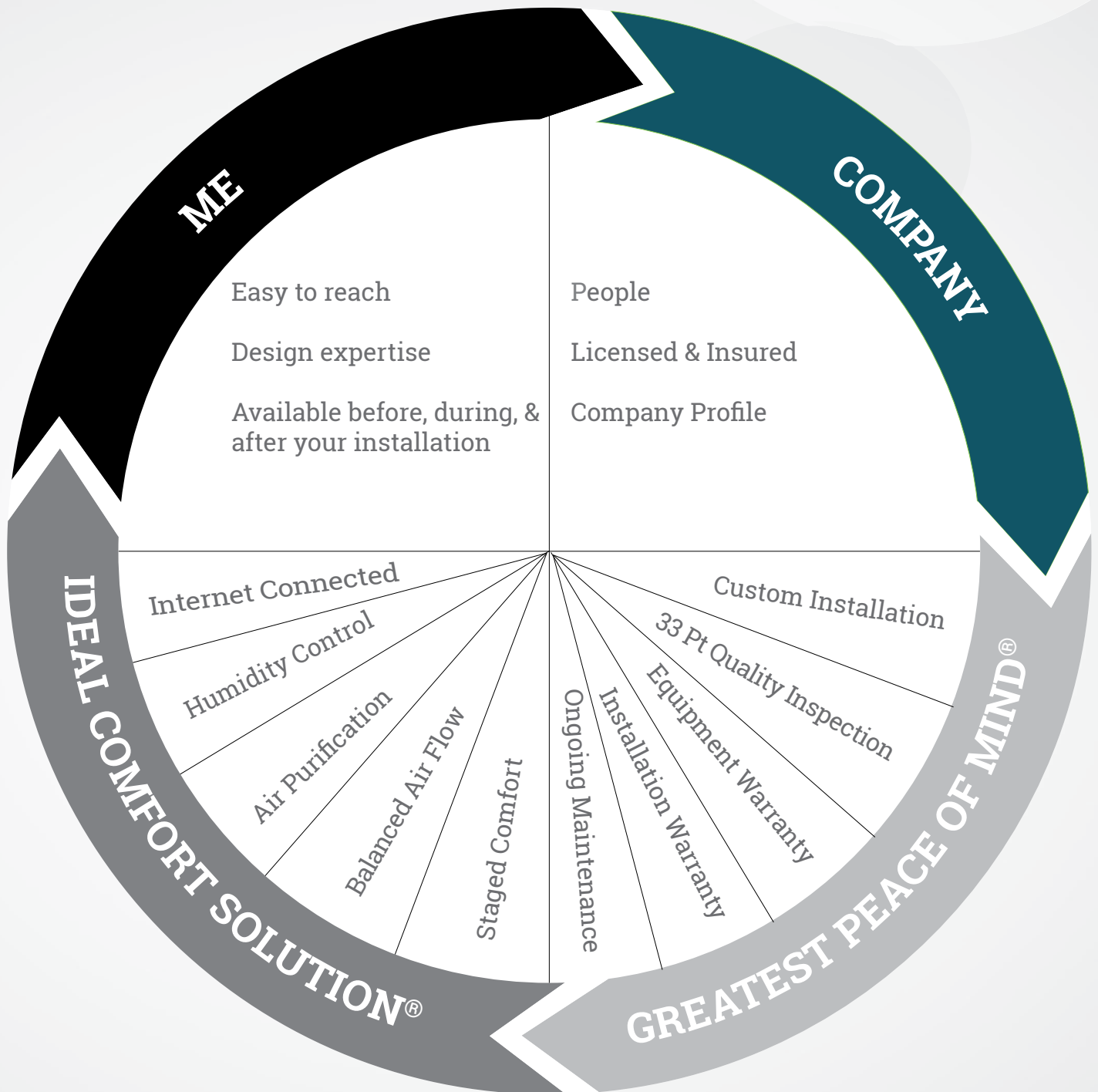


Peak Performance Maintenance

To Keep Operating at Peak Performance:

- Outdoor coil will be inspected for heat transfer loss
- Outdoor unit fan blades will be inspected
- Refrigerant checked for proper charge
- All penetrations will be checked for leaks
- Thermostats will be checked and calibrated as required
- Motors will be inspected
- Controls and safeties will be tested as needed
- Condensate drains will be checked
- Crankcase heater checked for proper operation
- Relays, contactors and capacitors will be inspected
- Unit wiring and electrical disconnect will be inspected
- Indoor blower wheels will be inspected
- Indoor coil will be inspected
- Indoor air filters will be cleaned [] time(s) per year
- Outdoor coils will be power washed [] time(s) per year
- Post emergency contact information
- Furnish inspection report & advise of any abnormal conditions

Wheel of Value[®]



Costs and Savings are estimates only, and can vary widely

Estimated Out-of-Pocket™

Air Conditioning Efficiency Savings

SEER	13	14	15	16	17	18	20	22	25	30	35
6	54%	57%	60%	63%	65%	67%	70%	73%	76%	80%	83%
8	38%	43%	47%	50%	53%	56%	60%	64%	68%	73%	77%
10	23%	29%	33%	38%	41%	44%	50%	55%	60%	67%	71%
12	8%	14%	20%	25%	29%	33%	40%	45%	52%	60%	66%
14		0%	7%	13%	18%	22%	30%	36%	44%	53%	60%
16				0%	6%	11%	20%	27%	36%	47%	54%
18						0%	10%	18%	28%	40%	49%

Heating Efficiency Savings

AFUE	80%	90%	92%	95%	98%
60%	25%	33%	35%	37%	39%
65%	19%	28%	29%	32%	34%
70%	13%	22%	24%	26%	29%
75%	6%	17%	18%	21%	23%
80%	0%	11%	13%	16%	18%

Heating

Average Winter
Energy Bill \$ _____

Heating % X _____

Annual Heating
Cost \$ _____

% Savings _____

Annual Heating
Savings \$ _____

Cooling

Average Summer
Electric Bill \$ _____

Cooling % X _____

Annual Cooling
Cost \$ _____

% Savings _____

Annual Cooling
Savings \$ _____

Total Investment

Total
Investment \$ _____

Monthly
Investment X _____

Estimated Annual
Energy Savings \$ _____

Estimated Monthly
Energy Savings \$ _____

Estimated
Out-of-Pocket \$ _____

