Ideal Home Environment



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

Create a customized comfort system for your home & family

Make your family more comfortable

Create a healthy home environment

Provide for your family's safety

Match your family's needs to the best possible solution.



Company Resume

People

- With high moral and ethical values
- Ongoing training to assure your complete satisfaction
- Service technicians are licensed and insured
- Customer service department available to serve your individual needs





Protection

- We specialize in residential comfort systems
- We protect your home before, during, & after installation
- Representatives wear shoe covers to enter your home
- Work site vacuumed and cleaned to customer satisfaction before completion
- We are fully licensed and insured for your protection

Peace of Mind

- Clean-cut professionals on call 24/7
- Drug-tested and background checked
- Use only the most reliable systems & components
- Your comfort is guaranteed in writing
- You will be 100% satisfied







Licensed & Insured

For Your Peace of Mind and Protection



Value ofOur Installation

The North Carolina Alternative Energy Corporation, a non-profit 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!

Other significant hvac industry comfort & energy related 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
- Equipment typically noisier
- Shorter equipment life

Incorrect Refrigerant Charge (75%)

- Increased failure rate
- Reduced moisture removal
- Equipment typically noisier
- Uneven temperature
- Could add as much as 17% to operating costs

Incorrect Air Flow (70%)

- Uneven temperatures
- Poor moisture control
- Noisy grilles and registers
- Could add as much as 10% 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

च Customer.			Phon	ie:			
Address:			City/State/Z	ip:			
Email:							
	Task	Cor	nplete	Incomp	lete	Not Re	equired
Outdoor unit proper	ly installed and level						
Indoor unit properly	installed and level						
Indoor coil properly	installed and level						
Accessories properl	y installed						
Air cleaner(s) prope	rly installed						
Drain line(s) installe	ed and tested						
Gas piping properly	installed and tested						
Refrigerant piping p	roperly installed and tested						
All low voltage wirin	g properly installed and tested						
All line voltage wirin	ng properly installed and tested						
All insulation compl	ete and secured						
All duct work compl	ete and sealed					-1	
All penetrations sea	lled				_ < 1	lon	
Furnace venting cor	nplete, secured, and checked				res	che	
Combustion air inta	ke installed and working			CASS	All	11	
All pilots lit (hot wat	ter heater, other appliances)		Th	as Assurace	ととく	lo,	
Electrical panel seco	ure, breakers in proper position		\ \	recom	101,1	col;	
Condensate pump i	nstalled and operating properly			Com	red	•	
Humidifier operation	n and drain checked			V)12		
Electronic air cleane	er operationally tested						
Supply air register in	nstalled, adjusted, and level						
Return air grill insta	lled and level						
Thermostat operation	onally checked and level						
Blower set for prope	er air flow						
Measure cooling su	pply and return temperatures						
Measure heating su	pply and return temperatures						
Operating temperat	ures recorded within limits						
Operating pressures	s recorded and within limits						
Variable air flow dip	switches properly set						
Emergency phone n	umbers provided						
All areas cleaned to	customer's satisfaction						
All homeowner man	uals provided						
Customer instructed	d in system operation						





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
- Install filter change schedule
- · High efficiency air purification (optional)
- Easy-change filter grilles (optional)

Comfort Control

- Install ease of use comfort interface
- Correct grilles and registers as required
- 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
- Mark all hvac circuit breakers

Reliability Package

- Install new condensate drain as required
- Refrigerant removal per federal guidelines
- Provide customer training
- Quality Control Audit (Top 10%)

Energy Savings

- Complete system leak check before start-up
- Charge to manufacturer's specs
- Caulk with lifetime duct sealant
- Insulate suction line

Green Package

- Recycle all eligible materials
- Dispose of old mercury control according to codes
- Remove existing refrigerant according to codes
- Precision system control

Quiet Package

- Vibration eliminators
- Canvas duct connectors as required
- Insulated air return(s)
- Cross-break sheet metal
- Install turning vanes as needed



Value of a Custom Design

A proper heat load calculation is the key to customizing your comfort solution

Why 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.

Problems Caused By Incorrect Sizing

Oversized

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

Undersized

- Constantly running
- Higher energy costs
- Shorter life

^{**} 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









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

Our Exclusive Warranty

We will warranty the following items for a full _____ years against defects in materials or workmanship from the date the 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 does not
 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 ______ years is to renew your annual maintenance program when due.

TRANE

© ACT



Our Maintenance Program

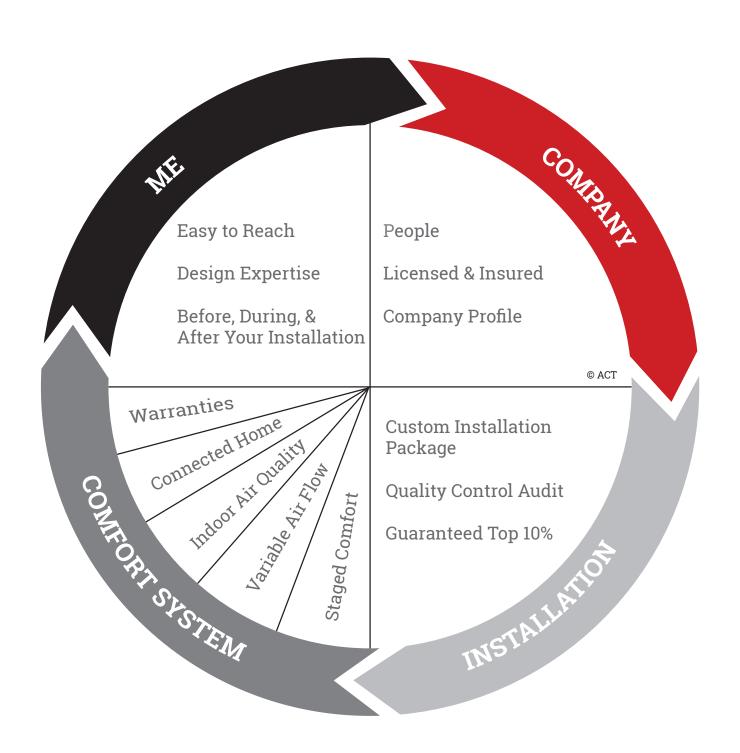
To Maintain Peak Performance:

- Outdoor coil will be inspected for heat transfer loss
- Fans will be inspected & cleaned
- Refrigerant checked for proper charge to assure no leaks
- Exposed ductwork will be checked for leaks
- Thermostats will be checked and calibrated as required
- Motors and bearings will be lubricated as required
- Controls and safeties will be tested as needed
- Drain will be checked
- Crankcase heater checked for proper operation

- Relays and contactors will be inspected
- Unit wiring and electrical disconnect will be inspected
- Humidifier operation will be checked, where applicable
- Temperatures and pressures will be recorded
- Indoor coil will be inspected
- Air filters will be replaced [] time(s) per year
- Outdoor coils will be power washed [] time(s) per year
- Furnish inspection report & advise of any abnormal conditions



Wheel of Valuetm





Estimated Energy Savings

Air Conditioning Cost Savings Percentage

SEER	13	14	15	16	17	18	20
6	54%	57%	60%	63%	65%	67%	70%
8	38%	43%	47%	50%	53%	56%	60%
10	23%	29%	33%	38%	41%	44%	50%
11	15%	21%	27%	31%	35%	39%	45%
12	8%	14%	20%	25%	29%	33%	40%

Heating Cost Savings Percentage

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%

Typical Percentage of Total Energy Bill

Heating	60%
Cooling	70%

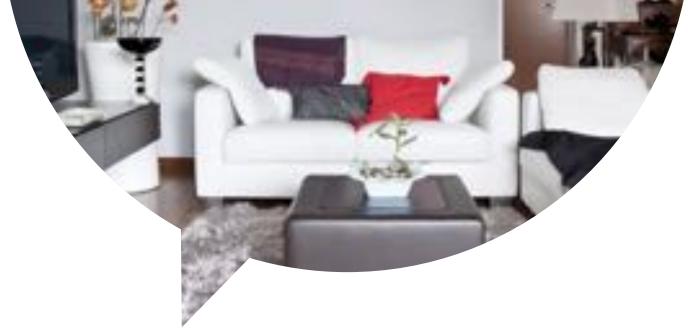
Average Winter Fuel Bill	\$	Average Summer Electric Bill	\$	Estimated (heating) Yearly Savings	\$
Regional Percentage	<u>X %</u>	Regional Percentage	<u>X %</u>	Estimated (cooling) Yearly Savings	+\$
Monthly Heating Cost	\$	Monthly Cooling Cost	\$	Estimated Total Yearly Savings	\$
Months of Heating	X	Months of Cooling	<u>X</u>		<u>/ 12</u>
Yearly Heating Cost		Yearly Cooling Cost		Estimated Monthly Savings	\$
Savings Percentage	<u>X %</u>	Savings Percentage	<u>X %</u>	Monthly Investment	-
Estimated Yearly Savings	\$	Estimated Yearly Savings	\$	Estimated Out of Pocket	\$

Equipment Service Life



ltem	Equipment Life	Years
Air Conditioners	:	
	Residential	15
	Through-the-wall	15
	Water Cooled	15
	Computer Room	15
Heat Pumps:		•
	Air to Air	12
	Water to Air	19
Commercial Pac	kage	
	Single Zone	15
	Multi Zone	15
Boilers:		
	Steel Water-tube	24
	Cast Iron	30
	Electric	15
Furnaces:		18
Unit Heaters:		18





Estimated Monthly Investment

Reduced Rate Revolv	ing (10.99 to 27.99%)
Percentage Rate	
System Investment (System Total From Proposal)	
Payment Factor (From Chart Below)	X 0.035
Monthly Investment (Investment x Payment Factor)	=
Months to Payoff (From Chart Below)	
Total Investment	
Total Interest Paid (Total Invest System Invest.)	

Reduced Rate Rev	olving (0 to 9.90%)
Percentage Rate	
System Investment (System Total From Proposal)	
Payment Factor (From Chart Below)	
Monthly Investment (Investment x Payment Factor)	=
Months to Payoff (From Chart Below)	
Total Investment (Mo. Invest. x Mo. to Payoff)	
Total Interest Paid (Total Invest System Invest.)	

Monthly Savings (Regular Rate Mo. Invest. - Reduced Rate Mo. Invest.) Total Savings (Regular Rate Tot. Invest.) - Reduced Rate Tot. Invest.)

ent r		Estimated Monthly Payments																						
Payment Factor	3.90%	4.90%	5.90%	%06'9	%06'2	8.90%	9.90%	10.99%	11.99%	12.99%	13.99%	14.99%	15.99%	16.99%	17.99%	18.99%	19.99%	20.99%	21.99%	22.99%	23.99%	24.99%	25.99%	27.99%
0.0175	64	65	68	70	72	75	70*																	
0.035	30	30	31	31	32	32	33	33	34	34	35	36	36	37	38	38	39	40	41	42	43	44	45	48

^{*}Payment factor of .0190

