## Residential Heating, Cooling and Water Heating Program

## Central Air Conditioner Tune-Up Report



First Name:	Last Name:	Consumers Energy Account Number:
Premise Address, City, ZIP (where equipment was se	rviced):	
Homeowner's Email (to receive rebate status updates):		
Contractor Name:		
□ Natural Gas Furnace or □ Air Handler	Furnace or AHU Manufacturer	Rated TESP
☐ Condensing Unit or ☐ Heat Pump	Model #	Serial #
SEER (if known)	Condensing Unit Manufacturer	Tons
Service Date	Model #	Serial #
Indoor Coil (tons and ref. control only if in air handle	r) Indoor Coil Manufacturer	Tons
	Metering Device TXV Fixed	

Air conditioning tune-up services must be performed between April 1 and Sept. 30, 2021, to qualify.

Only one rebate is available for each qualifying cooling unit serviced within the measure life, which is five years.

	Test Results	Bef	fore	Aft	:er*		Con	nment	5
	Fan Airflow (measured/verified)†	(	9	(	Đ	Ideally this system	m should h	ave	CFM
_	Coil Entering WB Temp <sup>†</sup>					Coil entering conditions – measure to 1 decimal place F			to 1 decimal place F
Required	Coil Leaving WB Temp <sup>†</sup>			Coil leaving conditions – measure to 1 decimal place F					
Re	Coil Capacity		BTUH		BTUH	Btu = CFM x 4.5	x Δ Enthalp	ру	
	÷ Equipment Nominal Btu		BTUH		BTUH	Manufacturer's r	ated nomir	nal cooli	ng BTUH
	Coil Capacity/System Nominal = System Effective Efficiency <sup>†</sup>		%		%				
	System Watts					Watts = measure	ed volts x m	neasure	d amps
led	Room Return Air DB (opt)		°F		°F	Compare to coil	entering DI	B (optio	onal)
mend	Farthest Room Supply DB (opt)		°F		°F		Compare to coil leaving DB (optional)		
Recommended	Charge Verification			Added	Recovered	Quantity:	Lb.		Oz.
But	Condenser Entering Air DB		°F		°F	Outdoor air tem	perature		
Optional	Suction/Liquid Line Pressure					Needed to check	refrigeran	t charge	•
Q	Suction/Liquid Line Temperatures					Needed to check	refrigeran	t charge	•
	Actual/OEM Specified					Superheat [	Subcooli	ng 🗌	Approach

 $<sup>^{\</sup>ast}\text{If initial readings}$  are 85% or less, post-maintenance calculations are required.

 $<sup>^{\</sup>dagger}\text{Mandatory}$  values. System efficiency calculated on back of form.

Calculation Worksheet -	- Before				
System Watts (Power):					
Blower Motor	Volts	_x Amps	=	Watts	
Compressor	Volts	_x Amps	_=	Watts	
Condenser Fan	Volts	_x Amps	=	Watts	
	Add the al	pove to get total system w	atts		
Converting Wet Bulb to Ent	halpy (Measure all tempe	eratures to first decimal pla	ace and record Enthal	py to two decimal places.):	
Coil Entering WB	=	Btu/Lb Enthalpy a			
Coil Leaving WB	=	Btu/Lb Enthalpy b			Complete these calculations
Coil Capacity: CFM	x 4.5 x (Entho	lpy a - b	) =	BTUH	to get coil capacity.  System efficiency is coil
System Effective Efficiency:	Coil Capacity:	÷	Equipment Norm	al Capacity =%	capacity ÷ nominal capacity.
Tune-Up Procedures - C	Check all that apply				
As a minimum, the following Inspected filter, cleaned filters	= :	Comments:			
Cleaned condenser coil					
Inspected evaporator co	oil, recommended				
Adjusted airflow					
Adjusted refrigerant cha	-				
	nections and wife				
Calculation Worksheet	- After (Required if "E	efore" efficiency is less	s than 85% of nom	inal)	
System Watts (Power):					
Blower Motor	Volts	_x Amps	=	Watts	
Compressor	Volts				
	VOICS	_x Amps	=	Watts	
Condenser Fan		_x Amps		Watts	
Condenser Fan	Volts		=		
Converting Wet Bulb to Ent	VoltsAdd the al	_x Amps pove to get total system w	=atts	Watts	
	VoltsAdd the al	_x Amps pove to get total system w	=atts	Watts	
Converting Wet Bulb to Ent	VoltsAdd the all temporal temporal =	_x Amps poove to get total system w eratures to first decimal pla Btu/Lb Enthalpy a	=atts	Watts	Complete these calculations
Converting Wet Bulb to Ent	VoltsAdd the all temporal temporal control temporal control cont	_x Amps pove to get total system w eratures to first decimal pla Btu/Lb Enthalpy a Btu/Lb Enthalpy b	=attsatts ace and record Enthal	Watts  lpy to two decimal places.):	Complete these calculations to get coil capacity.  System efficiency is coil
Converting Wet Bulb to Ent Coil Entering WB Coil Leaving WB Coil Capacity: CFM	VoltsAdd the all temper = x 4.5 x (Entho	_x Amps poove to get total system we eratures to first decimal pla Btu/Lb Enthalpy a Btu/Lb Enthalpy b lpy a - b	=attsace and record Enthal	Watts  lpy to two decimal places.):	to get coil capacity.
Converting Wet Bulb to Ent Coil Entering WB Coil Leaving WB Coil Capacity: CFM	VoltsAdd the all temper = x 4.5 x (Entho	_x Amps poove to get total system we eratures to first decimal pla Btu/Lb Enthalpy a Btu/Lb Enthalpy b lpy a - b	=attsace and record Enthal	Watts lpy to two decimal places.):BTUH	to get coil capacity.  System efficiency is coil
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Converting Wet Bulb to Ent Coil Entering WB  Coil Leaving WB  Coil Capacity: CFM  System Effective Efficiency:  Notes  If the ductwork is installed in	VoltsAdd the all temporal tempora	x Amps  poove to get total system weratures to first decimal pla Btu/Lb Enthalpy a Btu/Lb Enthalpy b  llpy a - b	atts ace and record Enthal) = Equipment Norm the room return air a	Watts lpy to two decimal places.):BTUH	to get coil capacity.  System efficiency is coil capacity ÷ nominal capacity.  d indicate delivered capacity loss
Converting Wet Bulb to Ent Coil Entering WB Coil Leaving WB System Effective Efficiency:  Notes  If the ductwork is installed in from duct leakage and/or tr	Volts Add the all temper = x 4.5 x (Entholor Coil Capacity: a hot, unconditioned spransmission gains. Duct so bil leaving temperature a	x Amps  pove to get total system we return to first decimal play.  Btu/Lb Enthalpy a  Btu/Lb Enthalpy b  llpy a - b	atts ace and record Enthal) = Equipment Norm the room return air a e recommended to im	Watts lpy to two decimal places.):BTUH all Capacity =	to get coil capacity.  System efficiency is coil capacity ÷ nominal capacity.  d indicate delivered capacity loss d efficiency.
Converting Wet Bulb to Entering WB	Add the all temper = x 4.5 x (Enthorse Coil Capacity: a hot, unconditioned spransmission gains. Duct so il leaving temperature a ll be lost to the unconditioned in the condition of	x Amps  pove to get total system we reatures to first decimal play.  Btu/Lb Enthalpy a  Btu/Lb Enthalpy b  llpy a - b  ÷  pace, a difference between ealing or insulating may be and the temperature deliver oned space.	ace and record Enthal  = = = = = = = = = = = = = = = = = = =	Watts	to get coil capacity.  System efficiency is coil capacity ÷ nominal capacity.  d indicate delivered capacity loss d efficiency.  s through inadequate insulation. If
Converting Wet Bulb to Entering WB	Add the all temper = x 4.5 x (Enthorse Coil Capacity: a hot, unconditioned spransmission gains. Duct so il leaving temperature a ll be lost to the unconditioned in the condition of	x Amps  pove to get total system we reatures to first decimal play.  Btu/Lb Enthalpy a  Btu/Lb Enthalpy b  llpy a - b  ÷  pace, a difference between ealing or insulating may be and the temperature deliver oned space.	ace and record Enthal  = = = = = = = = = = = = = = = = = = =	Watts	to get coil capacity.  System efficiency is coil capacity ÷ nominal capacity.  d indicate delivered capacity loss d efficiency.  s through inadequate insulation. If

