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 serviced):								
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, 2024, 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	Af	ter*		Co	mment	s
	Fan Airflow (measured/verified)†	(9	(9	Ideally this system should haveCF			CFM
	Coil Entering WB Temp [†]					Coil entering conditions – measure to 1 decimal place F			
Required	Coil Leaving WB Temp [†]					Coil leaving conditions – measure to 1 decimal pl			to 1 decimal place F
ş	Coil Capacity		BTUH		BTUH	Btu = CFM x	4.5 x ∆ Entho	ılpy	
	÷ Equipment Nominal Btu	BTUH		BTUH		Manufacturer's rated nominal cooling BTUH			
	Coil Capacity/System Nominal = System Effective Efficiency [†]	%			%				
	System Watts	°F °F				Watts = measured volts x measured amps			
eq	Room Return Air DB (opt)				۴	Compare to coil entering DB (optional)			
mend	Farthest Room Supply DB (opt)			°F		Compare to coil leaving DB (optional)			
Recommended	Charge Verification			Added	Recovered	Quantity:	Lb.		Oz.
But	Condenser Entering Air DB	°F		°F		Outdoor air temperature			
Optional	Suction/Liquid Line Pressure					Needed to check refrigerant charge			
Q	Suction/Liquid Line Temperatures					Needed to check refrigerant charge			
	Actual/OEM Specified					Superheat Subcooling Approach			

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

 $^{^{\}dagger}\text{Mandatory}$ 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	thalpy (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	llpy 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 - 0	Check all that apply					
As a minimum, the followin Inspected filter, cleaned filters	-	Comments:				
Cleaned condenser coil						
Inspected evaporator co	oil, recommended					
Adjusted airflow						
Adjusted refrigerant cha	=					
	riccions and wife					
Calculation Worksheet	- After (Required if "B	efore" efficiency is less	than 85% of nom	inal)		
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	thalpy (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 to get coil capacity.	
Coil Capacity: CFM	x 4.5 x (Entho	llpy α - b) =	BTUH	System efficiency is coil	
System Effective Efficiency	: Coil Capacity:	÷	Equipment Norm	al Capacity =%	capacity ÷ nominal capacity.	
Notes						
If the ductwork is installed in a hot, unconditioned space, a difference between the room return air and coil entering air temperatures could indicate delivered capacity loss from duct leakage and/or transmission gains. Duct sealing or insulating may be recommended to improve delivered capacity, comfort and efficiency.						
A difference between the coil leaving temperature and the temperature delivered to a supply terminal usually indicates transmission gains through inadequate insulation. If the supply ducts leak, air will be lost to the unconditioned space.						
If adequate coil airflow cannot be achieved by replacing a dirty filter or changing the blower speed, the problem is likely inadequate ductwork.						
Technician (print name):			Technician Sig	gnature:		
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