

## 17 TASK PROFESSIONAL HEATING TUNE-UP

A comprehensive heating tune-up consists of 5 safety tasks, 12 efficiency tasks and clean and wax the unit(s).

- 1. Inspect the thermostat** - Insures the thermostat is programmed properly. The thermostat will be leveled and all electrical connections will be checked for good contact.  
**BENEFIT:** Maximum comfort and fuel savings.
- 2. Inspect the furnace area for combustible material** - Combustible material and harmful vapors that are dangerously close to furnace can create a fire hazard.  
**BENEFIT:** Safety; prevents fire
- 3. Adjust all air volume dampers** - Insures that warm air is delivered at the proper volume to all areas of the home to provide maximum comfort in all areas.  
**BENEFIT:** Assures comfort.
- 4. Inspect Flue** - This insures the flue is free of obstruction, properly supported, drafts properly and the piping is not corroded. Flues that do not draft properly are dangerous.  
**BENEFIT:** Safety
- 5. Clean and wax the exterior of the furnace.**  
**BENEFIT:** Appearance and longer life.
- 6. Replace or clean air filters** - Standard 1-inch throw-away filters will be replaced free of charge. Electronic air cleaning cells and pre-filters will be cleaned with detergent, free of charge. Large, high efficiency media filters will be replaced with the approval of the customer at current prices.  
**BENEFIT:** Insures proper airflow for efficiency, comfort, and long system life.
- 7. Lubricate the blower motor and inspect the blower wheel** - Motor bearings require semi-annual lubrication to reduce friction and wear. The blower wheel must be clean to deliver proper airflow. Some motors do not require lubrication, but must be cleaned to prevent overheating.  
**BENEFIT:** Saves money by extending the life of the blower motor.
- 8. Inspect, clean and adjust gas burners** - Insures proper fuel/air mixture for maximum combustion efficiency and smooth ignition.  
**BENEFIT:** Saves money by insuring maximum efficiency.
- 9. Examine the heat exchanger** - To insure proper fuel combustion and heat transfer. The heat exchanger will be cleaned and visibly inspected for holes or cracks. Holes or cracks in the heat exchanger are dangerous due to the possibility of combustible gas and carbon monoxide entering the living area.  
**BENEFIT:** Safety
- 10. Lubricate vent motor and other moving parts** - Poor lubrication causes drag in the motor drive shaft and an increase in electrical consumption. Lack of lubrication will ruin the bearing and burn out the motor.-  
**BENEFIT:** Saves money by extending the life of the furnace and reduces electrical consumption.
- 11. Service the humidifier** - Adjust by-pass dampers, clean exterior and interior of humidifier cabinet. Set humidistat reading to 40% and check for proper water flow. Water panels will be replaced with customer's approval at current prices.  
**BENEFIT:** Insures comfort by providing the proper amount of humidity to your home.
- 12. Check condensate drain. Clean if necessary** - A clogged condensate drain can cause severe water damage as well as equipment damage. Drain hoses will be replaced as needed with customer's approval at current prices.  
**BENEFIT:** Saves money on fuel, extends life of system.
- 13. Verify manifold gas pressure** - Accurate gas pressure is required to control the fuel input to the furnace without wasting fuel. Insufficient gas pressure can cause corrosion of furnace venting components.  
**BENEFIT:** Saves money and extends the life of the furnace.
- 14. Check gas connections at furnace for gas leaks.** - Ensures tight gas pipe connections at the furnace and gas valve.  
**BENEFIT:** Safety. Alerts technician to potentially dangerous situations.

- 15. Measure the temperature increase through the furnace** - Insures the airflow through the furnace meets the manufacturer's recommendation to insure maximum efficiency.  
**BENEFIT:** Save money by providing maximum efficiency.
- 16. Measure the electrical operation of the furnace** - Check for proper voltage and amperage of the electrical components. Check wire condition and terminal contact.  
**BENEFIT:** Saves money by finding potential problems thereby reducing the number of service calls.
- 17. Test for carbon monoxide gas** - Carbon monoxide is a deadly, colorless, and odorless gas caused by incomplete combustion, blocked flues, vent connectors that are not attached or corroded and heat exchangers that have holes or cracks.  
**BENEFIT:** Safety. Alerts the technician to a dangerous condition that must be located and resolved.