

State of Nebraska Weatherization Assistance Program

Mechanical System Inspection/Clean & Tune

FORM WX17

| Agency: | □BVCAF | · 🗆 | CAPLSC | CAPMN | □CNCAP | □HFHO | <u> </u> | NENCAP | □NWCAP □SENCA | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------|--|--|
| Inspector | Name: | | | | | | Date: | | Job Number: | | |
| Client Na | ne & Address: | | | | | City: | | | Phone Number: | | |
| Ownershi Renter Owner | | Building Frame | e ☐ Mobile He | uel Type: eating: ater Heating: | | | Heating Syste | | Boiler □ Vented or □ Heat Pump | | |
| Cooling S | ystem Type: | 1 | eat Pump None | | | Water Heating T | ype: | | 5 | | |
| | Sloped Co | | at Fullip Intolle | | | ☐ Heat Pump | | | | | |
| | | | | INSPE | ECTION/EVALU | ATION REQUI | REMENTS | | | | |
| | stion Units | • | d controls | | Boilers Only (To be completed by a question technician) | | | d All Heating Units (including Electric) ☐ Check fan and belt condition | | | |
| ☐ Leakage testing of piping and controls technic ia ☐ Test heat exchanger for cracks and openings ☐ Smoke spo | | | | | | • | | | ☐ Inspect for exposed wiring and disconnect switch | | |
| ☐ Inspect venting for pitch, size, blockage, corrosion ☐ Net stack temps (5 | | | | | | 3.2e) | | ☐ Check therm | - | | |
| ☐ Inspect heat exchanger for excessive corrosion ☐ Carbon dioxide | | | | | | tygen (5.3003.2f) | | | ilter rack and cover | | |
| | | | ers for blockage | | | | | ☐ Check limit a | nd fan control · (all repairs and Contractor | | |
| □ Determine pilot is burning properly □ CO (5.3003.2 □ Determine main burner ignition is satisfactory □ Technician v | | | | | | n will provide printout for 5.3003.2c, | | | (all repairs and Contractor | | |
| ☐ Test pilot safety devices 5.3003.2e, 5.3003.2f, 5.3 | | | | | | 5.3003.2g and 5 | 3.2g and 5.3003.2h Water Heaters | | | | |
| ☐ Visually determine gas is burning properly ☐ Inspect for water or compaphicable) | | | | | | mbustion produc | ion product leaks (if Inspect for water or combustion product leaks (if applicable) | | | | |
| ☐ If equipped, check main burner at low modulator ☐ Test for spillage at draft hood ☐ Test low water cutoff, fe | | | | | | • | I | | nit has pilot access door & draft hood) | | |
| Boilers Only (To be completed by a qualified Determine the controls a | | | | | | are operational | | Air Condition | ners | | |
| technic □ Becor | • | e informa | tion | Furna | ices and Conso | and Console Heaters | | | al air conditioner coils inside and out | | |
| □ Recorded data plate information □ Correct nozzle sizes | | | | | \square Determine the fan control is operational | | | ☐ Not accessible ☐ Inspect wiring | | | |
| ☐ Fuel pressure readings | | | | | | | | ☐ Inspect willing ☐ Inspect pipe insulation | | | |
| □ Stead | y state efficie | ncy (5.300 | 03.2c) | | | | | | | | |
| | | | FOR | CED AIR S | YSTEM AIR FL | OW EVALUAT | ION – SWS 5 | .3003.3 | | | |
| Yes | No | N/A | Specification | | | Notes | | | | | |
| | | | External static pre | | | | | | | | |
| | | | Pressure drop acr | oils | | | | | | | |
| □ □ □ Pressure drop across i □ □ □ Air flow measured at e | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | Supply wet bulb to | emperature | | | 0 | _ | | | |
| | | | Supply dry bulb te | | | <u> </u> | | | | | |
| □ □ Return wet bulb temperature | | | | | | | 0 | _ | | | |
| □ □ □ Return dry bulb temperature □ □ □ Temperature rise between supply | | | | | nlv & return T | ested | Mfg. Req | _ | ۰ | | |
| | | | romporataro nos | | p., a rota | | 9.1104 | | | | |
| | | | FORCED A | IR SYSTEI | M ELECTRICAL | SERVICE EV | ALUATION – | SWS 5.3003.4 | | | |
| Yes | No | N/A | Specification | | | | Notes | | | | |
| | | | Polarity of equipm | | | | | | | | |
| | | | Voltage/amperage in accordance with mfg. specs Voltage drop in accordance with mfg. specs/range | | | | | | | | |
| | | | Grounding conforms with NFPA 70 National Electrical Co | | | | | | | | |
| | | | Blower amperage will not exceed mfg. full load amperage | | | | | | | | |
| | , , , , | | | | | | | | | | |
| □ □ □ Blower compartment safety switch operation verified □ □ □ □ Heat pump emergency heat circuit function verified | | | | | | | | | | | |
| | | | · · · · · · · · · · · · · · · · · · · | - | | | | | | | |
| | | | | REFRIGI | ERANT LINE EV | ALUATION – | | 5 | | | |
| Yes | No □ | N/A □ | Specification Insulated to a min | imum P₋∕I | | | Notes | | | | |
| | | | | | d from UV degrad | ation | | | | | |
| | | | Sized to meet man | | - | • | | | | | |
| | | | | - | or excessive bend | | | | | | |
| | \square \square Appropriately routed, supported and secured to prevent d | | | | | | | | | | |



CLEAN AND TUNE REQUIREMENTS All Units \square Remove and clean the blower **Combustion Units** ☐ Lubricate all moving parts ☐ Check blower capacitor, fan relay and or contatcts ☐ Clean flame sensor ☐ Clean and vacuum the return air and cabinet and ☐ Clean air conditioner coil ☐ Not Accessible $\hfill\Box$ Clean and test heat exchanger – except boilers $\hfill\square$ Check and adjust burners All Units ☐ Calibrate and adjust the thermostat, inspect wiring ☐ Clean the exhaust port and draft hood ☐ Seal thermostat wire penetration in frame homes ☐ Clean or replace filter ☐ Install sticker (all repairs and Contractor **Electric Units** ☐ Adjust the conditioned airflow, high limit, fan Inspections) control, fan on/fan off and temperature rise ☐ Repair or replace damaged wiring ☐ Adjust the belt tension or replace belt (if needed) ☐ Test heating elements and sequencers CARBON MONOXIDE TESTING AND ADJUSTMENT Test and adjust each chamber for carbon monoxide Pre-cleaning Post-cleaning Chamber 1 PPM PPM Chamber 2 PPM PPM Chamber 3 РРМ РРМ Chamber 4 PPM PPM **HVAC CLIENT EDUCATION** Yes No N/A Specification Basic operation of the equipment has been explained to the client (i.e. efficiency measures, design considerations differences from previous systems) Proper operation and programming of the system controls for proper operation has been explained П Indoor and outdoor shut-offs have been demonstrated П П Location of combustion air inlets have been identified for the client as per NFPA 31, 54 & 58 Client has been informed of the importance of not blocking combustion air inlets Client has been informed of the importance of cleaning dust and debris from return air grilles Client has been informed of proper placement of interior furnishings with respect to registers Client has been informed of the negative consequences of closing registers П П П Client has been informed of the importance of leaving interior doors open as much as possible Client has been informed of the importance of proper filter selection and how to change the filter Client has been informed of the importance of keeping the outside units clear of debris, vegetation, decks and other blockages Client has been informed of the importance of routine professional equipment maintenance П Client has been informed that there will be no air bypass around the new filter and that the new forced air system will have a minimum MERV 6 filtration П Client has been informed of situations when a HVAC contractor should be contacted ◆ Fuel Odors ◆ Water draining from secondary drain line ◆ Emergency heat indicator always on for a heat pump ◆ System blowing cold air during heating season and vice versa ◆ Icing of evaporator coils during heat pump cooling mode ◆ Heat pump outside unit never defrosts Unusual noises Unusual odors Client has been informed that carbon monoxide(s) alarm has been installed and the importance of maintenance Client has been provided with relevant manuals and warranties The labor warranty has been explained to the client **SIGNATURES** I certify that the work performed meets the requirements of the Nebraska Weatherization Assistance Program Installation Measures and Work Standards. Agency or Company Name_ Sign

Date

Signature Heating/Plumbing Technician

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