

Mechanical System Inspection/Clean & Tune

Agency: BVCAP CAPLSC CAPMN CNCAP HFHO NENCAP NWCAP SENCA

Inspector Name: _____ Date: _____ Job Number: _____

Client Name & Address: _____ City: _____ Phone Number: _____

Ownership: Renter Owner
 Building Type: Frame Mobile Multifamily
 Fuel Type: _____ Heating: _____ Water Heating: _____
 Heating System Type: Forced Air Un-vented Gravity Wall Boiler Floor Vented Heat Pump
 Cooling System Type: Central Air Window A Coil Sloped Coil Heat Pump None
 Water Heating Type: Tank Instantaneous Heat Pump

INSPECTION/EVALUATION REQUIREMENTS

- Combustion Units Only**
- Leakage testing of piping and controls
 - Test heat exchanger for cracks and openings
 - Inspect venting for pitch, size, blockage, corrosion
 - Inspect heat exchanger for excessive corrosion
 - Inspect burners and crossovers for blockage
 - Determine pilot is burning properly
 - Determine main burner ignition is satisfactory
 - Test pilot safety devices
 - Visually determine gas is burning properly
 - If equipped, check main burner at low modulator
 - Test for spillage at draft hood

- Boilers Only (To be completed by a qualified technician)**
- Smoke spot tests
 - Net stack temps (5.3003.2e)
 - Carbon dioxide and oxygen (5.3003.2f)
 - Excess air (5.3003.2g)
 - CO (5.3003.2h)
 - Technician will provide printout for 5.3003.2c, 5.3003.2e, 5.3003.2f, 5.3003.2g and 5.3003.2h
 - Inspect for water or combustion product leaks (if applicable)
 - Determine water pumps are operational
 - Test low water cutoff, feed control, etc.
 - Determine the controls are operational

- All Heating Units (including Electric)**
- Check fan and belt condition
 - Inspect for exposed wiring and disconnect switch
 - Check thermostat operation
 - Check filter, filter rack and cover
 - Check limit and fan control
 - Install sticker (all repairs and Contractor Inspections)

- Boilers Only (To be completed by a qualified technician)**
- Recorded data plate information
 - Correct nozzle sizes
 - Fuel pressure readings
 - Steady state efficiency (5.3003.2c)

- Furnaces and Console Heaters**
- Determine the fan control is operational

- Water Heaters**
- Inspect for water or combustion product leaks (if applicable)
 - Determine unit has pilot access door & draft hood (if applicable)
- Air Conditioners**
- Inspect central air conditioner coils inside and out
 - Not accessible
 - Inspect wiring
 - Inspect pipe insulation

FORCED AIR SYSTEM AIR FLOW EVALUATION – SWS 5.3003.3

Yes	No	N/A	Specification	Notes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	External static pressure	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pressure drop across coiling coils	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pressure drop across filter	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Air flow measured at each register	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Supply wet bulb temperature	_____ °
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Supply dry bulb temperature	_____ °
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Return wet bulb temperature	_____ °
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Return dry bulb temperature	_____ °
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature rise between supply & return	Tested _____ ° Mfg. Req'd. _____ °

FORCED AIR SYSTEM ELECTRICAL SERVICE EVALUATION – SWS 5.3003.4

Yes	No	N/A	Specification	Notes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Polarity of equipment tested/corrected	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Voltage/amperage in accordance with mfg. specs	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Voltage drop in accordance with mfg. specs/range	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grounding conforms with NFPA 70 National Electrical Code	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Blower amperage will not exceed mfg. full load amperage	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Compressor amperage will not exceed mfg. full load amperage	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Blower compartment safety switch operation verified	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Heat pump emergency heat circuit function verified	_____

REFRIGERANT LINE EVALUATION – SWS 5.3003.5

Yes	No	N/A	Specification	Notes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Insulated to a minimum R-4	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If exposed to sunlight, protected from UV degradation	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sized to meet manufacturer specifications	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Installed without kinks, crimps, or excessive bends	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Appropriately routed, supported and secured to prevent damage	_____

