Simplified Building Method—HVAC Systems

Oregon Energy Efficiency Specialty Code Compliance Checklist

This checklist may be used to demonstrate compliance with the Simplified Building Method Compliance Path for HVAC Systems, Section 6.3 of the Oregon Energy Efficiency Specialty Code (OEESC)/ASHRAE Standard 90.1. **COM*check* is not required.**

Base requirements:
1. The building shall be two stories or fewer in height.
2. The *gross floor area* of the building shall be less than 25,000 ft^2.
3. The HVAC system(s) meets the applicable criteria in Section 6.3.2.

CONTACT & BUILDING INFORMATION

Contact name:	Phone number:	
Email:		
Site address:	Map and tax lot:	
City:	State: Oregon	ZIP:
Gross floor area:	Number of stories:	

COMPLIANCE

HVAC System Criteria from Section 6.3.2.

Indicate whether the individual criteria are met. Include location on plans and specs, or whether the criteria are not applicable to the submitted project.

Section 6.3.2 Criteria	(Check **N/A** if not applicable)
☐ Each HVAC system serves a single HVAC zone.	☐ N/A
☐ The equipment meets the variable flow requirements of Section 6.5.3.2.1.	☐ N/A
☐ Cooling (if any) is provided by a unitary packaged or split-system air conditioner that is either air cooled or evaporatively cooled, with efficiency meeting the requirements shown in Table 6.8.1-1 (air conditioners), Table 6.8.1-2 (heat pumps), or Table 6.8.1-4 (packaged terminal and room air conditioners and heat pumps) for the applicable equipment category. Cooling equipment shall also comply with Section 6.4.1.4. *Section 6.4.3.5.1 of the OEESC shall be applied to packaged equipment selections under 241,000 Btu/h.*	☐ N/A
☐ The system has an air economizer meeting the requirements of Sections 6.5.1 and 6.4.3.12.	☐ N/A
☐ Heating (if any) is provided by a unitary packaged or split-system heat pump that meets the applicable efficiency requirements shown in Table 6.8.1-2 (heat pumps) or Table 6.8.1-4 (packaged terminal and room air conditioners and heat pumps), a fuel fired furnace that meets the applicable efficiency requirements shown in Table 6.8.1-5 (furnaces, duct furnaces, and unit heaters), an electric resistance heater, or a baseboard system connected to a boiler that meets the applicable efficiency requirements shown in Table 6.8.1-6 (boilers).	☐ N/A
☐ The system meets the exhaust air energy recovery requirements of Section 6.5.6.1.	☐ N/A
☐ The system is controlled by a manual changeover or dual set-point thermostat.	☐ N/A
☐ The system controls do not permit reheat or any other form of simultaneous heating and cooling for humidity control. ☐ **Exception**: Humidity control assisted by hot-gas reheat or heat from 100% site-recovered energy is permitted.	☐ N/A
☐ Systems serving spaces other than residential spaces, that do not require continuous operation, with a cooling or heating capacity greater than 7,000 Btu/h comply with Sections 6.4.3.3.1 and 6.4.3.3.2.	☐ N/A
☐ Systems serving residential spaces other than hotel/motel guest rooms comply with Sections 6.4.3.3.1 and 6.4.3.3.2 except for electric resistance heaters rated at 2 hp or less with a readily accessible manual control that lowers the set point or turns the unit off.	☐ N/A

COMPLIANCE—continued	
☐ Systems serving hotel/motel guest rooms shall comply with Section 6.4.3.3.5.	☐ N/A
☐ Ductwork and plenums are insulated in accordance with Table 6.8.2 and sealed in accordance with Section 6.4.4.2.1.	☐ N/A
☐ If a heat pump equipped with auxiliary internal electric resistance heaters is installed, controls are provided that prevent supplemental heater operation when the heating load can be met by the heat pump alone during both steady-state operation and setback recovery. Supplemental heater operation is permitted during outdoor coil defrost cycles. ☐ The heat pump is controlled by **either:** (1) a digital or electronic thermostat designed for heat pump use that energizes auxiliary heat only when the heat pump has insufficient capacity to maintain set point or to warm up the space at a sufficient rate **or** (2) a multistage space thermostat and an outdoor air thermostat wired to energize auxiliary heat only on the last stage of the space thermostat and when outdoor air temperature is less than 40°F. **Exception** ☐ Heat pumps that comply with the following: • Have a minimum efficiency regulated by NAECA. • Meet the requirements in Table 6.8.1-2. • Include all usage of internal electric resistance heating.	☐ N/A
☐ Except for piping within manufacturers' units, HVAC piping is insulated in accordance with Tables 6.8.3-1 and 6.8.3-2. Insulation exposed to weather is suitable for outdoor service, e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover. Cellular foam insulation is protected as above or painted with a coating that is water retardant and provides shielding from solar radiation.	☐ N/A
☐ Construction documents require a ducted system to be air balanced in accordance with industry accepted procedures.	☐ N/A
☐ Outdoor air intake and exhaust systems meet the requirements of Section 6.4.3.4.	☐ N/A
☐ Where separate heating and cooling equipment serves the same temperature zone, thermostats are interlocked to prevent simultaneous heating and cooling.	☐ N/A
☐ Systems with a design supply air capacity greater than 10,000 cfm have optimum start controls.	☐ N/A
☐ The system complies with the demand control ventilation requirements in Section 6.4.3.8, occupied-standby controls in Section 6.5.3.9, and the ventilation design requirements in Section 6.5.3.8.	☐ N/A
☐ The system complies with the door switch requirements in Section 6.5.10.	☐ N/A
Location on plans:	