

# EnergyGauge Summit 6.10 rev22 Release Notes

Date of release: May 28, 2019

## **1: Minimum Efficiency for Fan System not required for the ASHRAE Energy Cost Budget Option**

The extract below (from ASHRAE 90.1-2013) gives the compliance requirements when using ASHRAE 90.1-2013 Section 11 - Energy Cost Budget (ECB) Option for compliance:

**11.2 Compliance.** Compliance with Section 11 will be achieved if

- a. all requirements of Sections 5.4, 6.4, 7.4, 8.4, 9.4, and 10.4 are met;
- b. the design energy cost, as calculated in Section 11.5, does not exceed the energy cost budget as calculated by the simulation program described in Section 11.4; and

ASHRAE 90.1-2013 Section 6.4 contains the mandatory provisions for equipment as shown in the extract (from ASHRAE 90.1-2013) below.

**6.4 Mandatory Provisions**

**6.4.1 Equipment Efficiencies, Verification, and Labeling Requirements**

**6.4.1.1 Minimum Equipment Efficiencies—Listed Equipment—Standard Rating and Operating Conditions.** Equipment shown in Tables 6.8.1-1 through 6.8.1-13 shall

However, as the extract (from ASHRAE 90.1-2013) below shows “Fan System Power and Efficiency” is part of Section 6.5 and not part of Section 6.4 and hence not required in the ASHRAE ECB option.

**6.5.3.1 Fan System Power and Efficiency**

**6.5.3.1.1** Each HVAC system at fan system design conditions shall not exceed the allowable fan system motor nameplate hp (Option 1) or fan system bhp (Option 2) as shown in Table 6.5.3.1-1. This includes supply fans, return/relief fans, exhaust fans, and fan-powered terminal units associated with systems providing heating or cooling capability. Single-zone variable-air-volume systems shall comply with the constant-volume fan power limitation.

However, in EnergyGauge Summit 6.00, the minimum Fan System Power and Efficiency from section 6.5 was inadvertently included as a compliance requirement for the ASHRAE Energy Cost Budget Option. EnergyGauge Summit 6.10 corrects this error. Shown below is a sample of the correction in the output report:

Pr0Sy4 System 1		Constant Volume Packaged System-902					No. of Units
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	146944	12.80	11.00	12.90	12.40	PASSES
Heating System	Electric Furnace	271640	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	5030	0.90	0.82			FAILS

  

Pr0Sy5 System 1		Constant Volume Packaged System-902					No. of Units
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance

EnergyGauge Summit® Fla/Com-2017. TAM 2017-1.0 Compliant Software. Effective Date: Dec 31, 2017  
 Florida Building Code, Sixth Edition (2017) - Energy Conservation ASHRAE 90.1-2013 - Energy Cost Budget Option

3/18/2019 Page 7 of 17

Output Sample in EnergyGauge Summit 6.00, ECB option

Pr0Sy4 System 1		Constant Volume Packaged System-902					No. of Units
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	146944	12.80	11.00	12.90	12.40	PASSES
Heating System	Electric Furnace	271640	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	5030	0.90	0.82			Not Required

  

Pr0Sy5 System 1		Constant Volume Packaged System-902					No. of Units
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance

EnergyGauge Summit® Fla/Com-2017. TAM 2017-1.0 Compliant Software. Effective Date: Dec 31, 2017  
 Florida Building Code, Sixth Edition (2017) - Energy Conservation ASHRAE 90.1-2013 - Energy Cost Budget Option

3/18/2019 Page 7 of 17

Output Sample in EnergyGauge Summit 6.10, ECB option. NOTE: Fan System minimum requirements have been removed.

## 2: New online help system in the help menu

The help system in the program is now also available online where changes made to the help systems are reflected immediately and does not require release of a patch. In addition, the updated pdf help document can be downloaded without requiring a patch to be released.

## 3. New Startup page has current information that is updated from time to time.

A new section in the start up page contains useful information that is updated periodically for the benefit of the user.