

SECTION 23 08 00 {15992}

COMMISSIONING OF HVAC

{HVAC COMMISSIONING}

This section includes responsibilities and tasks for HVAC system commissioning.

Manufacturers listed in this section were identified as representative and not as an endorsement for meeting this specification. For additional product information, visit 4Specs at www.4specs.com, ARCAT at www.arcata.com, First Source at www.reedfirstsource.com, SpecSource at www.specsource.com, and Sweets Network at products.construction.com.

This section includes performance, proprietary, and descriptive type specifications. Edit to avoid conflicting requirements.

Contact the CSRF Support Center at supportcenter@csrf.org to submit comments or suggestions for improvements to this specification. Visit the SPECTEXT web site at www.spectext.com for current product announcements.

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:

1. HVAC commissioning description.
2. HVAC commissioning responsibilities.

B. Related Sections:

1. Section 23 05 93 - Testing, Adjusting, and Balancing for HVAC: For requirements and procedures concerning testing, adjusting, and balancing of mechanical systems.
2. Section 23 09 00 - Instrumentation and Control for HVAC: Submittal and training requirements.
3. Section 23 09 23 - Direct-Digital Control System for HVAC: Submittal, training, and programming requirements.
4. Section 23 09 53 - Pneumatic and Electric Control System for HVAC: Submittal and training requirements.
5. Section 23 33 00 - Air Duct Accessories: Product requirements for ductwork test holes.
6. Section 25 50 00 - Integrated Automation Facility Controls: Submittal, training, and programming requirements.
7. Section [_____-_____]: Electrical systems commissioning requirements.
8. Section [_____-_____]: Plumbing systems commissioning requirements.

C. Related Sections:

1. Section 13800 - Building Automation and Control: Submittal, training, and programming requirements.

2. Section 15820 - Duct Accessories: Product requirements for ductwork test holes.
3. Section 15905 - HVAC Instrumentation: Submittal and training requirements.
4. Section 15910 - Direct Digital Controls: Submittal, training, and programming requirements.
5. Section 15920 - Pneumatic Controls: Submittal and training requirements.
6. Section 15950 - Testing, Adjusting, and Balancing: For requirements and procedures concerning testing, adjusting, and balancing of mechanical systems.
7. Section [_____-_____]: Plumbing systems commissioning requirements.
8. Section [_____-_____]: Electrical systems commissioning requirements.

1.2 REFERENCES

List reference standards included within text of this section. Edit the following for Project conditions.

- A. Associated Air Balance Council:
 1. AABC - AABC Commissioning Guideline.
- B. American Society of Heating, Refrigerating and Air-Conditioning Engineers:
 1. ASHRAE Guideline 1 - The HVAC Commissioning Process.
- C. National Environmental Balancing Bureau:
 1. NEBB - Procedural Standards for Building Systems Commissioning.

1.3 COMMISSIONING DESCRIPTION

- A. HVAC commissioning process includes the following tasks:
 1. Testing and startup of HVAC equipment and systems.
 2. Equipment and system verification checks.
 3. Assistance in functional performance testing to verify testing and balancing, and equipment and system performance.
 4. Provide qualified personnel to assist in commissioning tests, including seasonal testing.
 5. Complete and endorse functional performance test checklists provided by Commissioning Authority to assure equipment and systems are fully operational and ready for functional performance testing.
 6. Provide equipment, materials, and labor necessary to correct deficiencies found during commissioning process to fulfill contract and warranty requirements.
 7. Provide operation and maintenance information and record drawings to Commissioning Authority for review verification and organization, prior to distribution.
 8. Provide assistance to Commissioning Authority to develop, edit, and document system operation descriptions.
 9. Provide training for systems specified in this Section with coordination by Commissioning Authority.
- B. Equipment and Systems to Be Commissioned: