

PROJECT NAME AND LOCATION :



STORE #785
975 W. POPLAR AVENUE
COLLIERVILLE, TN 38017

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DRAWING REVISIONS:

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1	--	--
2	--	--
3	--	--

SHEET NAME:
COMCHECK COMPLIANCE

BID SET

project no:
17-085
dwg no:
MO



COMcheck Software Version 4.0.8.1
Mechanical Compliance Certificate

Section 1: Project Information

Energy Code: 2006 IECC
Project Title: Which Which Sandwiches
Project Type: Alteration

Construction Site: 975 W POPLAR AVENUE
COLLIERVILLE, TN 38017
Owner/Agent: [blank]
Designer/Contractor: TX

Section 2: General Information

Building Location (for weather data): Collierville, Tennessee
Climate Zone: 3a

Section 3: Mechanical Systems List

Quantity	System Type & Description
1	RTU-2 (Single Zone) Heating: 1 each - Central Furnace - Gas, Capacity = 72 kBtu/h Proposed Efficiency = 82.10% E1, Required Efficiency = 80.00% E1 Cooling: 1 each - Single Package DX Unit, Capacity = 49 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency = 13.00 SEER Fan System: RTU-2 - Compliance (Motor nameplate HP method) - Paseses Fans: FAN 1 Supply, Coaster Volute, 1500 CFM, 1.5 motor nameplate hp

Section 4: Requirements Checklist

Requirements Specific To: RTU-2:

- 1. Equipment minimum efficiency: Central Furnace (Gas): 80.00 % E1 (in 78% AFUE)
- 2. Equipment minimum efficiency: Single Package Unit: 13.00 SEER

Generic Requirements: Must be met by all systems to which the requirement is applicable:

- 1. Field equipment and system capacity no greater than needed to meet loads
Exception(s):
 Standby equipment automatically off when primary system is operating
 Multiple units controlled to sequence operation as a function of load
- 2. Minimum rise temperature control device per system
- 3. Minimum rise humidity control device per installed humidification/dehumidification system
- 4. Load calculations per ASHRAE/ACCAs Standard 18S
- 5. Automatic Controls: Setback for 55°F (heat) and 65°F (cool); 7-day clock; 2-hour occupant override; 10-hour backup
Exception(s):
 Continuous operating modes
- 6. Outside-air source for ventilation system capable of reducing OSA to required minimum
- 7. R-6 supply and return air duct insulation in unconditioned spaces
R-8 supply and return air duct insulation outside the building
R-8 insulation on knee walls and the building exterior when studs are part of a building assembly
Exception(s):
 Ducts located within equipment
 Ducts with interior and exterior temperature difference not exceeding 15 °F

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- 8. Mechanical systems and systems used to connect ducts and air distribution equipment
- 9. Ducts sealed - longitudinal seams on rigid ducts, transverse seams on all ducts, i.e. 1/2" or 18" or 18" tapes and sleeves
- 10. Hot water pipe insulation: 1.5 in. for pipes <= 1.5 in. and 2 in. for pipes > 1.5 in.
Cold water pipe insulation: 1.5 in. for pipes <= 1.5 in. and 1.5 in. for pipes > 1.5 in.
Steam pipe insulation: 1.5 in. for pipes <= 1.5 in. and 3 in. for pipes > 1.5 in.
Exception(s):
 Piping within HVAC equipment
 Fluid temperatures between 55 and 105°F
 Fluid not heated or cooled with renewable energy
 Piping within rooms for cold (with ASHRAE43 rating) and hot (with ASHRAE43 rating)
 Runouts <= 4 ft in length
- 11. Operation and maintenance manual provided to building owner
- 12. Thermostatic controls have 5°F deadband
Exception(s):
 Thermostats requiring manual changes: between heating and cooling
 Special occupancy or special applications where temperature ranges are not acceptable and are approved by the authority having jurisdiction
- 13. Balancing devices provided in accordance with IMC 603.17
- 14. Demand control ventilation (DCV) present for high volume displacement areas (>40 person/1000 ft² in spaces >800 ft²) and served by systems with any one of 1) an air-side economizer; 2) automatic modulating control of the outdoor air damper; or 3) a design outdoor airflow greater than 3000 cfm.
Exception(s):
 Systems with heat recovery
 Multiple-zone systems without DDC of individual zones communicating with a central control panel
 Systems with a design outdoor airflow less than 1200 cfm
 Spaces where the supply airflow rate minus any leakage or outgoing transfer air requirement is less than 1000 cfm
- 15. Motorized, automatic control dampers required on exhaust and outdoor air supply openings
Exception(s):
 Gravity dampers acceptable in buildings < 3 stories
- 16. Automatic controls for freeze protection systems present
- 17. Exhaust air heat recovery included for systems 5,000 cfm or greater with more than 70% outside air fraction or specifically exempted
Exception(s):
 Fiberglass exhaust systems, commercial kitchen and clothes dryer exhaust systems that the integrator has determined provide the use of energy recovery systems
 Systems serving spaces that are heated and not cooled to less than 60°F
 Where more than 60 percent of the outdoor heating energy is provided from solar gain and/or other sources
 Heating systems in climates with less than 3600 HDD
 Cooling systems in climates with a 1 percent cooling design wet-bulb temperature less than 64°F
 Systems requiring dehumidification that employ energy recovery systems with the cooling coil
 Laboratory fume hood exhaust systems that have either a) a minimum volume system capable of reducing exhaust air volume to 30 percent or less of design volume or a separate make-up supply meeting the following make-up air requirements: a) at least 75 percent of outdoor air rate, b) heated to no more than 10 degrees Fahrenheit above the space temperature, c) cooled to no lower than 5°F above room setpoint temperature, and d) dehumidification and/or heating and cooling

- 18. H/M-C O&M documents for all mechanical equipment and system provided to the owner by the mechanical contractor
 - 19. Written H/M-C balancing and operations report provided to the owner
- The above post construction requirements have been completed.

Project: WhichWhich Designer: Home Signature: Date:

Section 5: Compliance Statement

Compliance Statement: The proposed mechanical alteration project meets the requirements in accordance with the building code, specifications and other requirements submitted with this permit application. The proposed mechanical alteration project has been designed to meet the 2006 IECC, Chapter 8, requirements in COMcheck version 4.0.8.1 and comply with the mandatory requirements in the Requirements Checklist.

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Section 6: Post Construction Compliance Statement

- 1. A/C record readings of the field installation, system capacities, calibration information, and performance data for each equipment submitted to the owner

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Order Plans