

1509 SW 27th St ESTAR Final Inspection Report

DDB ESTAR

1509 Sw 27th, Lee's Summit, MO 64082

Apr/14/2023, 2:20am -12

38/38 Tasks Completed



Clean Efficient Energy Company, LLC

10424 Mastin Street, Overland Park, 66212

Bryton Stoll

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✓ Elevation Photos

Taken outdoors, all angles of the home



✓ Notes

Leaky door



General Info

✓ Bedrooms

1 photo of each bedroom





✓ Attic Insulation

1 photo with ruler/tape measure + general layout & coverage of attic & ducts

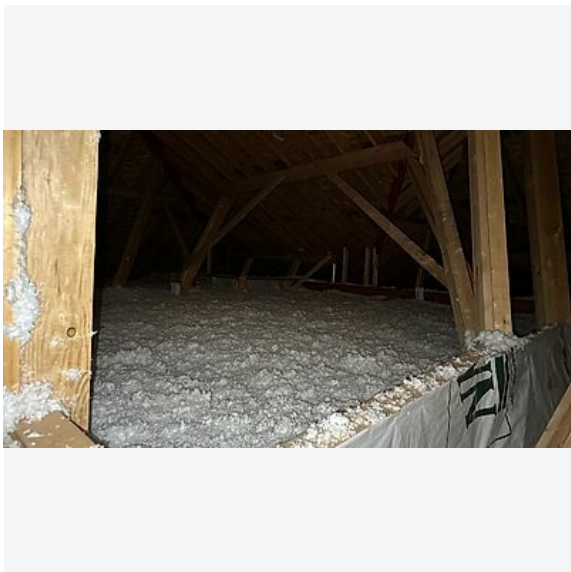
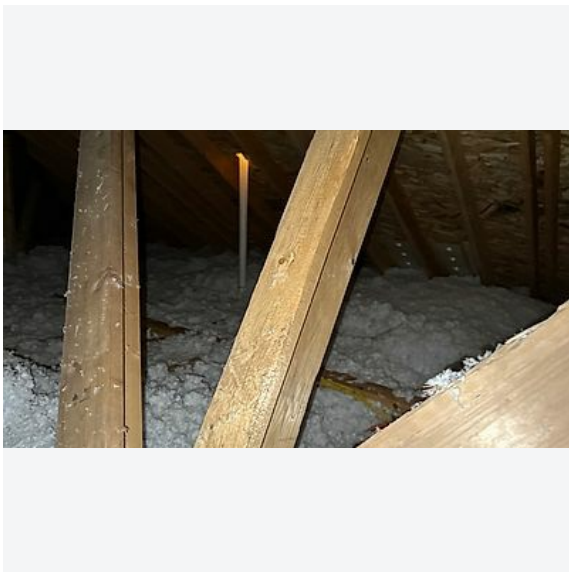
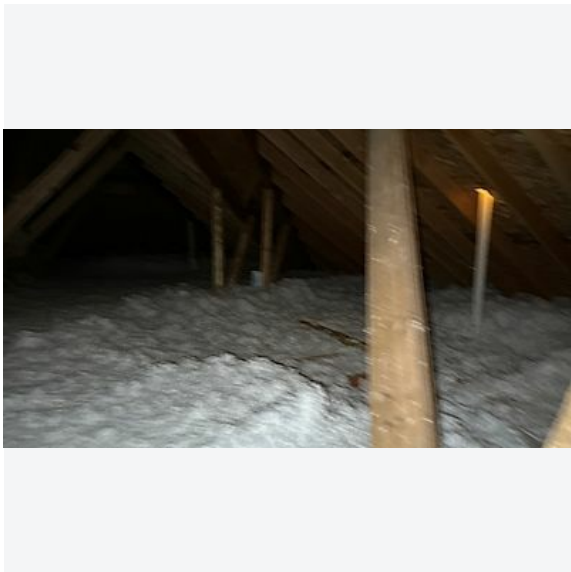
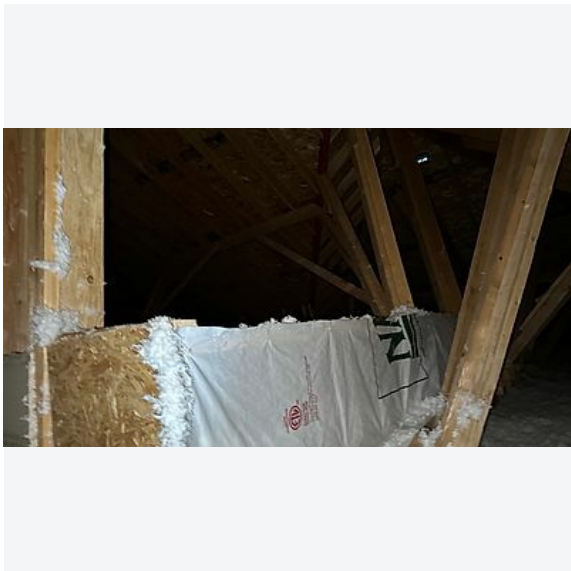
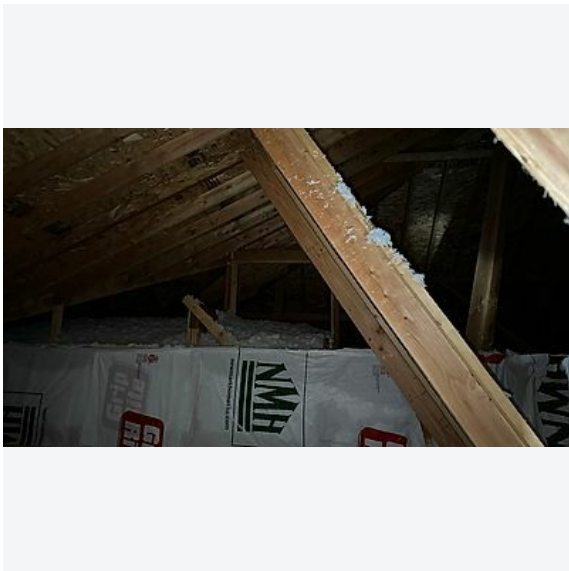
Attic insulation must be $\geq$ R38 Grade 1.

Yes

No

N/A







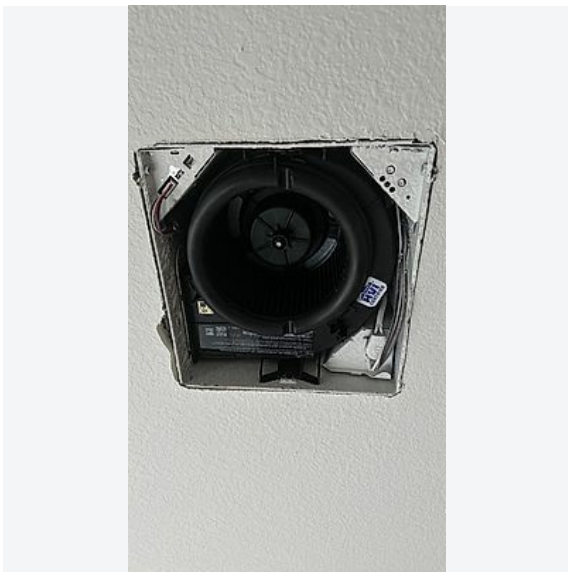
✓ Drywall Penetrations & Top Plates Sealed

Drywall must be sealed at all penetrations and top plate interfaces using foam, caulk, drywall adhesive, etc.

Yes

No

N/A



✓ Attic Access Insulation & Gasket

Attic access must be insulated $\geq R10$ and have a gasket to prevent air leakage, if they are inside conditioned space (access in the garage, no requirements).

Yes

No

N/A



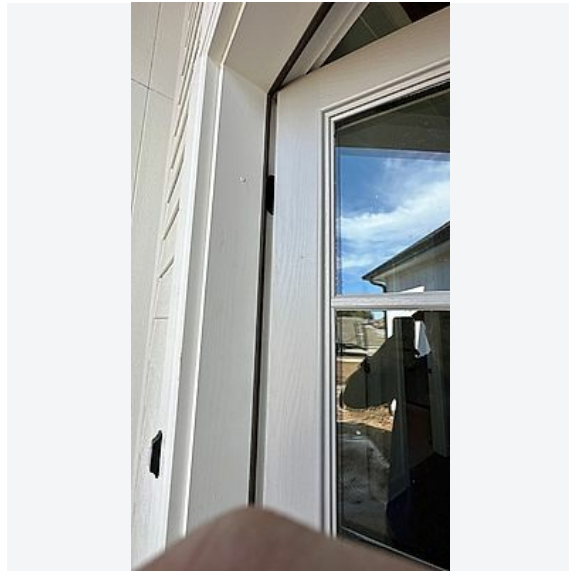
✓ Weather Stripping

All doors adjacent to unconditioned space must have weather stripping to prevent air leakage.

Yes

No

N/A





✓ Unfinished Below-Grade Walls

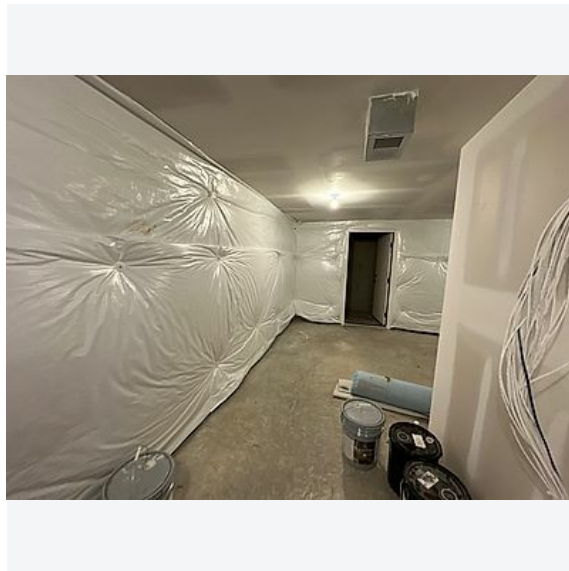
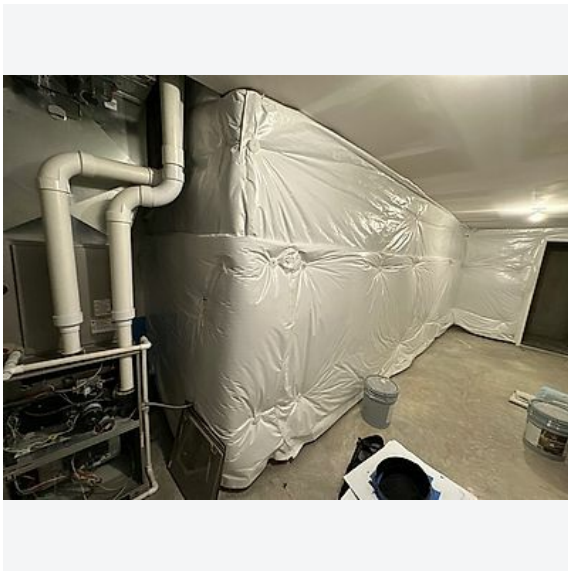
All unfinished below-grade walls must be insulated to $\geq R10$.

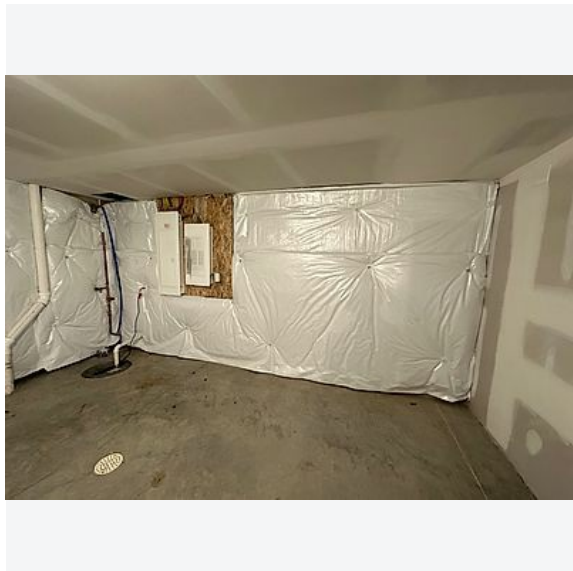
Yes

No

N/A

R-value





Windows

Filled out window takeoff

AppSheet 1:31 PM 77%

DDB 1509 Sw 27th St

WINDOW NAME	U	SHOC	AREA	ORIENT	AXIS	OCCT TOP	18TM	EXPOSURE	SIZE
F1.1 FRONT DOOR			42 E	AB	15	8	11	50%	4x7
F1.2			24 E	AB	15	8	10	100%	4x4
F1.3	25	11	20 E	AB	2	2	8	100%	5x4
F1.4 GARAGE DOOR			21 E	AB				100%	3x7
F1.5 PANTRY DOOR			10 E	AB				100%	3x4
L1.1	25	22	4 S	AB				100%	4x1
L1.2			16 S	AB				100%	4x4
L1.3 FWD			21 S	AB	20	8	11	75%	3x7
L1.4	25	18	19 S S	AB	20	3	9	75%	3x6.5
B1.1	25	22	20 W	AB	2	3	8	100%	5x5
B1.2			12 W	AB	20	2	4	75%	4x2
B1.3(2)	25	21	38 W	AB	20	8	12	75%	3x6.5
B1.4(2)	25	22	12 W	AB	20	1	3	75%	3x2
B1.5(2)	25	18	20 W	AB				100%	2x5
B1.6(2)	25	22	14 S W	AB	2	1	7	75%	3x6.5
B1.7	32	23	36 W	AB	20	4	10	75%	4x6
B1.8	25	18	19 S N	AB	2	1	7	75%	3x6.5
P2.1			21 E	GDWG				100%	3x7
B2.1(2)	25	22	48 W W	AB				100%	22x1
B2.2 FWD			21 W	AB	20	3	10	75%	3x7
B2.3	25	22	25 W	AB				100%	5x5
B2.4(2)	25	22	32 S W	AB	20	3	9	50%	25x1
B2.4	25	14	10 N	AB				50%	2x5

APPSHEET REPORT REPORTS

Lighting & Appliances

Refrigerator(s)

Model # of refrigerator(s) or empty spot for refrigerator(s)



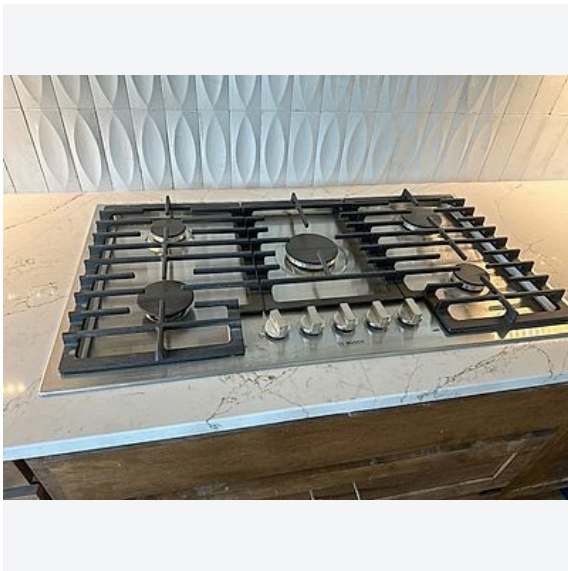
✓ Dishwasher

Model # of dishwasher or empty spot for dishwasher



✓ Stove

Photo of the stove



✓ **Oven (convection?)**

Photo of the oven settings or inside of oven



✓ **Washer/dryer**

Model #s, ESTAR labels, or empty spot for washer/dryer



✓ LED Bulb %

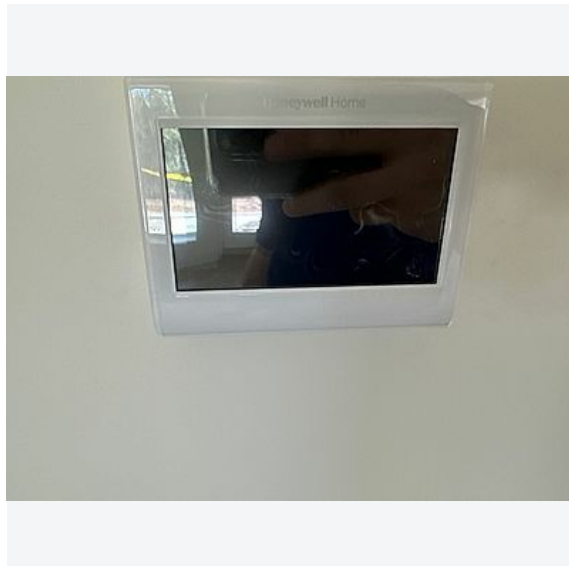
Percentage of LED bulbs

10

Utilities

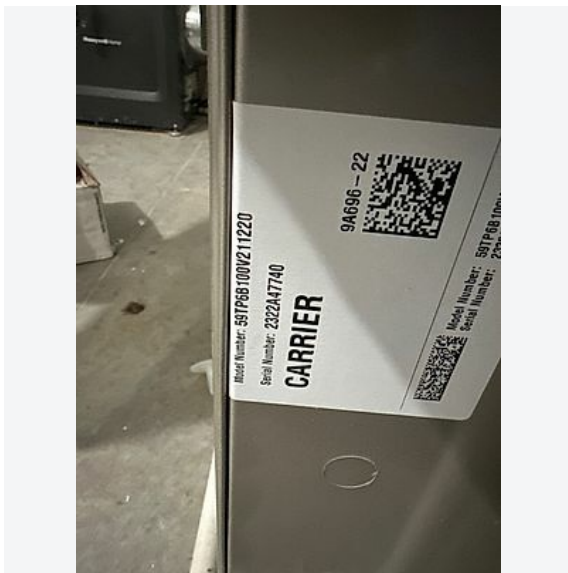
✓ Thermostat(s)

1 photo of each thermostat



✓ AC/Heat Pump Outdoor Unit(s)

Model # of each outdoor unit



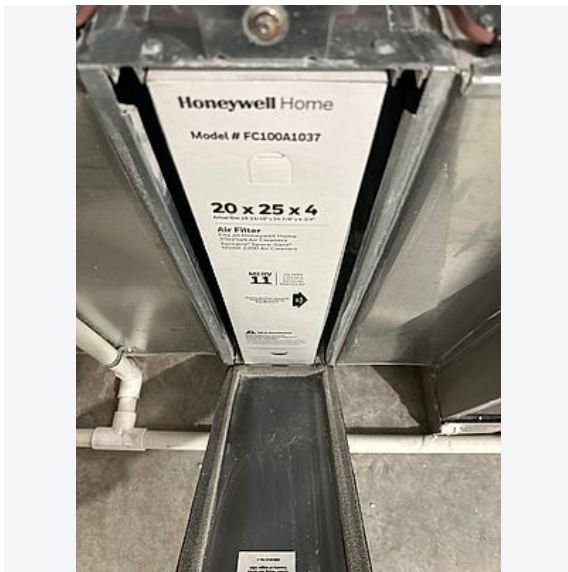
✓ **Filter MERV Rating**

MERV rating must be ≥ 6 .

Yes

No

N/A



✓ **Filter Slot Cover**

Filter access panel must include gasket/cover.

Yes

No

N/A



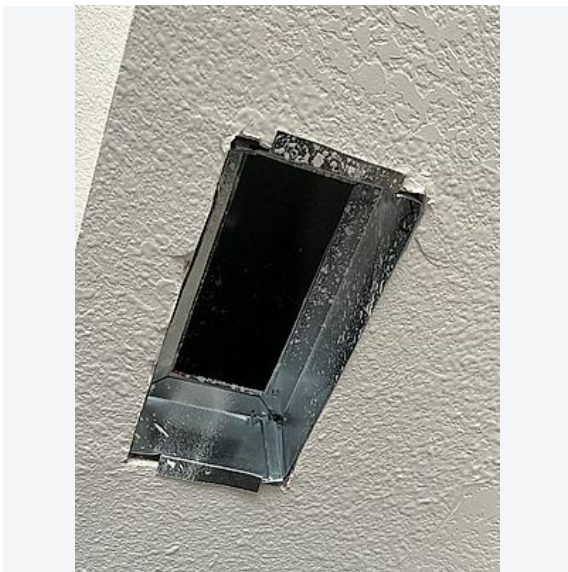
✓ **Duct Boots Sealed to Drywall**

Duct boots must be sealed to drywall in all locations.

Yes

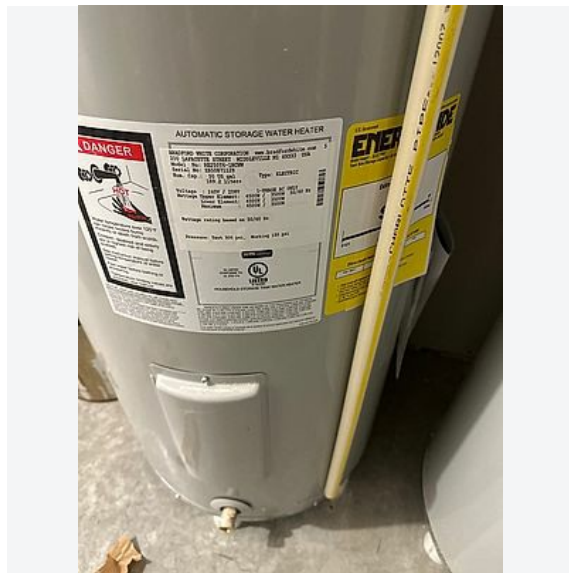
No

N/A



✓ **Water Heater**

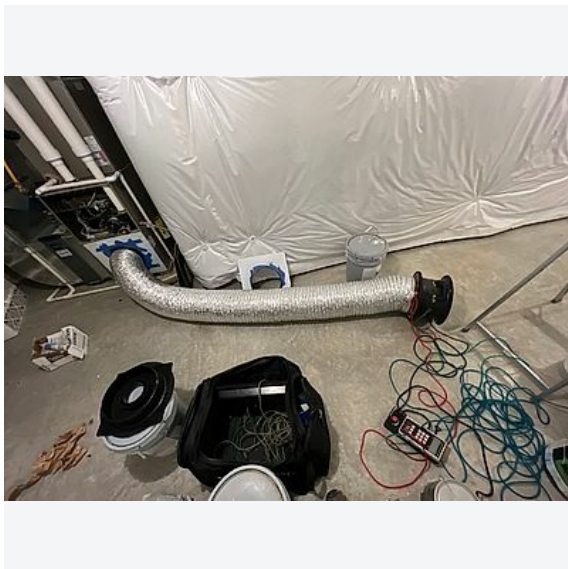
Model # of each water heater



Test Results

✓ Duct Blaster Setup

1 photo showing duct blaster setup connected to duct system



✓ Total Duct Leakage

Test result on manometer

Final total duct leakage sufficient?

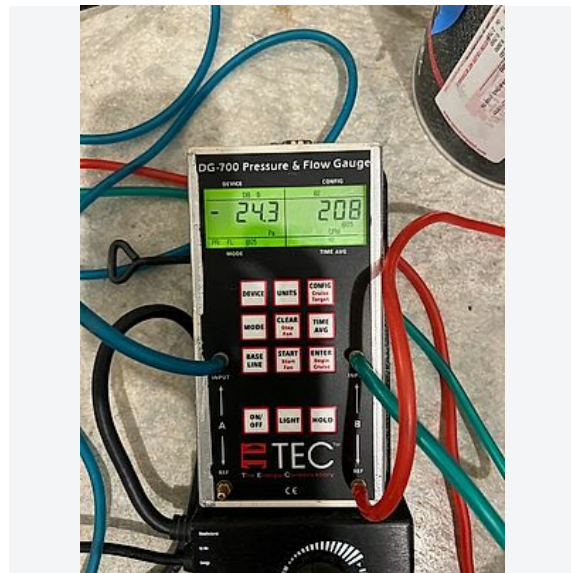
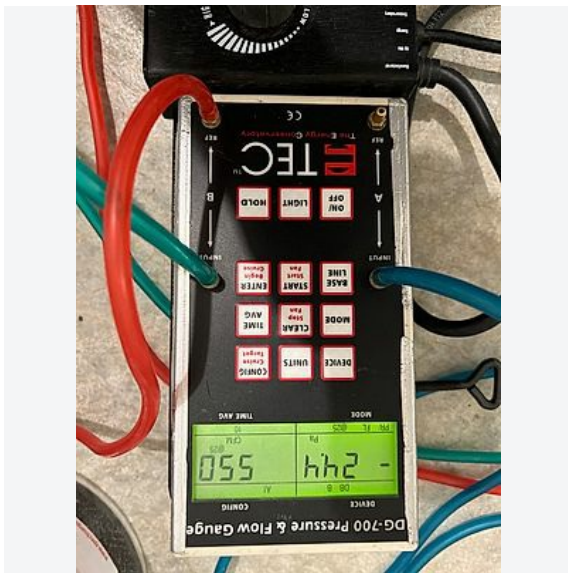
Yes

No

N/A

Final Target Leakage (8CFM25/100sqft)

315



✓ Duct LTO

Test result on manometer (leakage to outside)

Final duct leakage to outside sufficient?

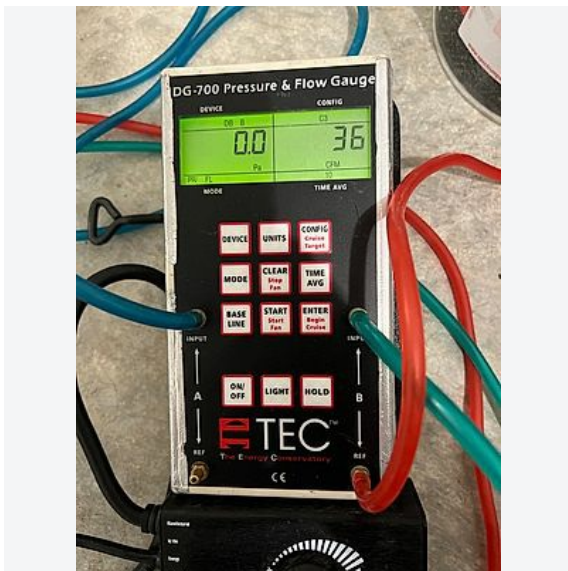
Yes

No

N/A

LTO Target Leakage (4CFM25/100sqft)

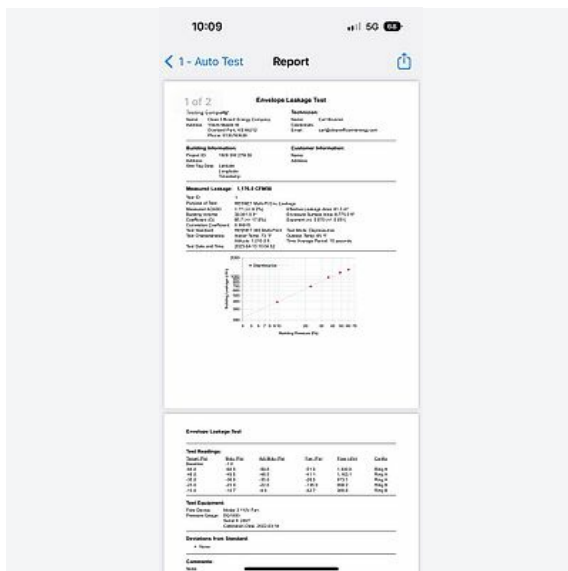
157



✓ Blower Door Result

Multi-point test - screenshot of test result

Single-point test - test result on manometer



Mechanical Ventilation

✓ Mech Vent Model

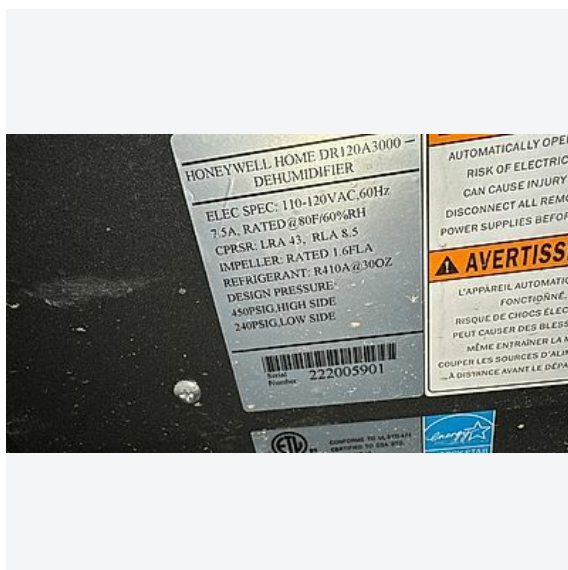
Model # of system used for mechanical ventilation

Exhaust fans must be ENERGY STAR certified if used for mechanical ventilation.

Yes

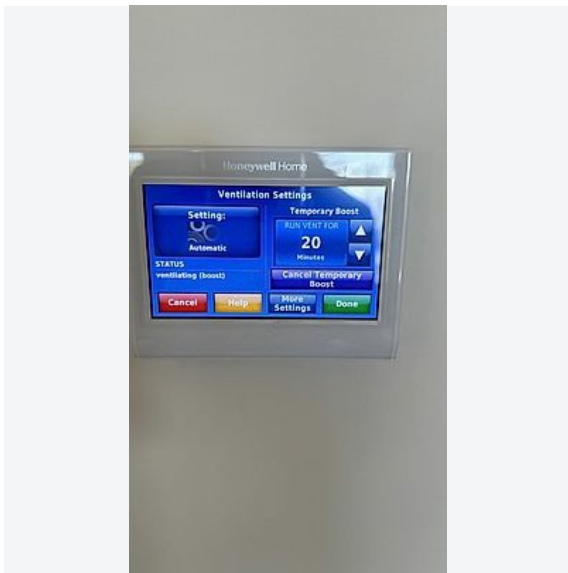
No

N/A



✓ Mech Vent Control

System used to control mechanical ventilation

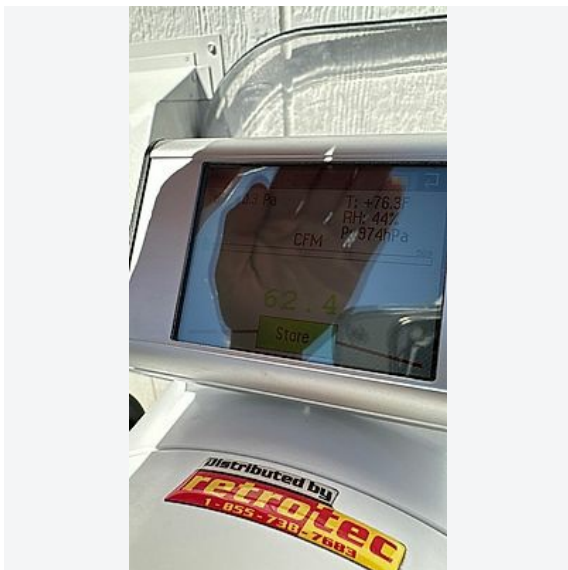


✓ Mech Vent Flow

Test result on flow meter or manometer

Mechanical ventilation flow must be within +/- 15 cfm or +/- 15% of design value (ASHRAE 62.2 2010).

☒ Yes ☐ No ☐ N/A



✓ Mech Vent Watts

Test result on watts meter



Additional Testing

✓ Kitchen Exhaust Fan

Measured flow from kitchen exhaust fan must be ≥ 100 cfm to the outdoors.

Yes

No

N/A

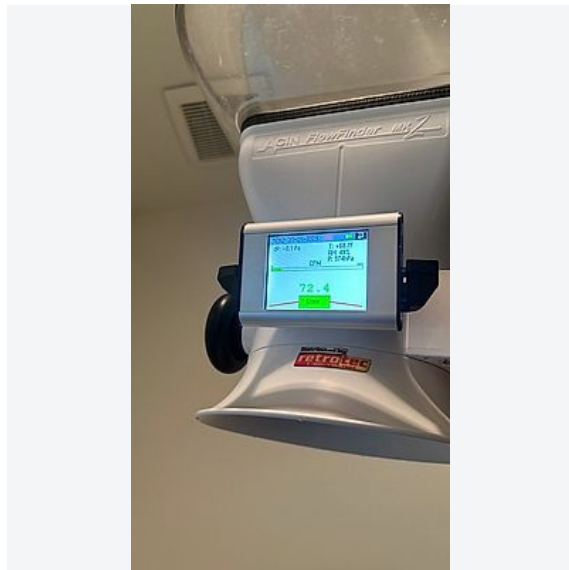
✓ Bathroom Exhaust Fans

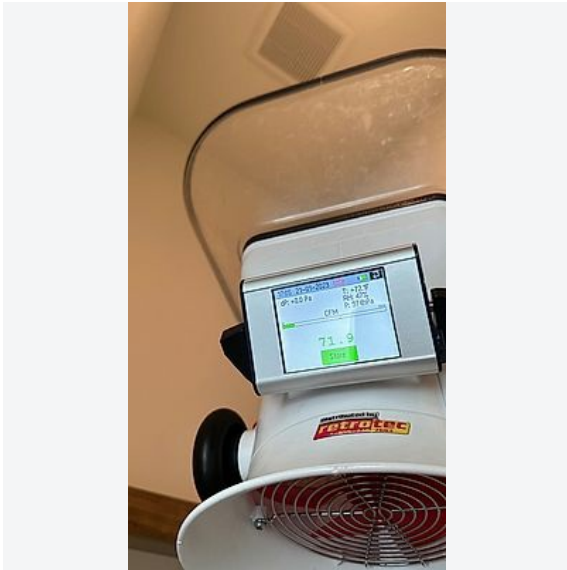
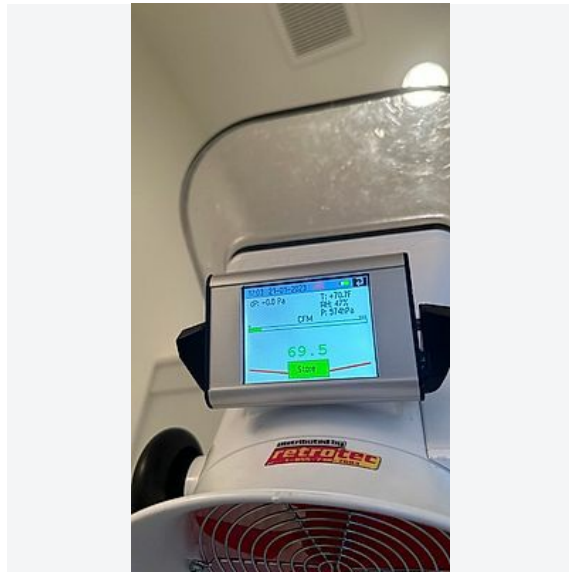
Measured flow from all bathroom exhaust fans must be ≥ 50 cfm to the outdoors.

Yes

No

N/A





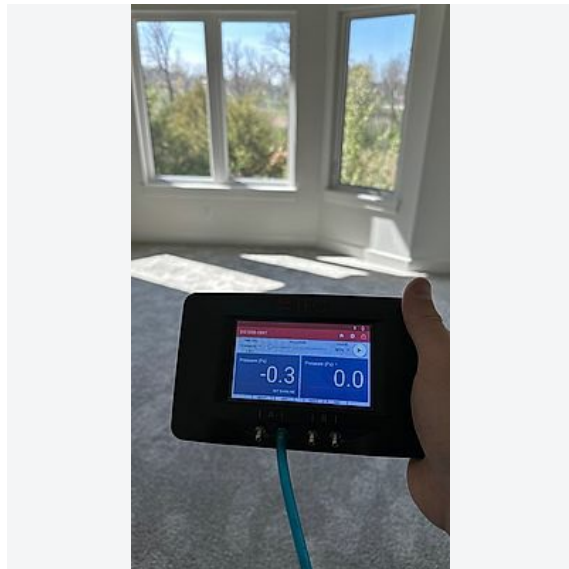
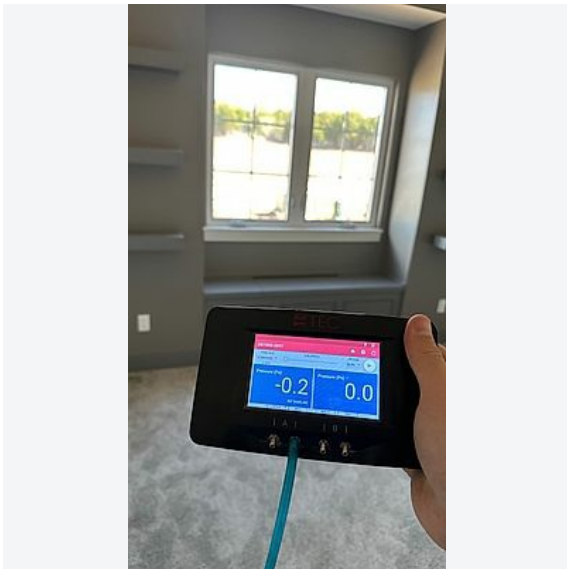
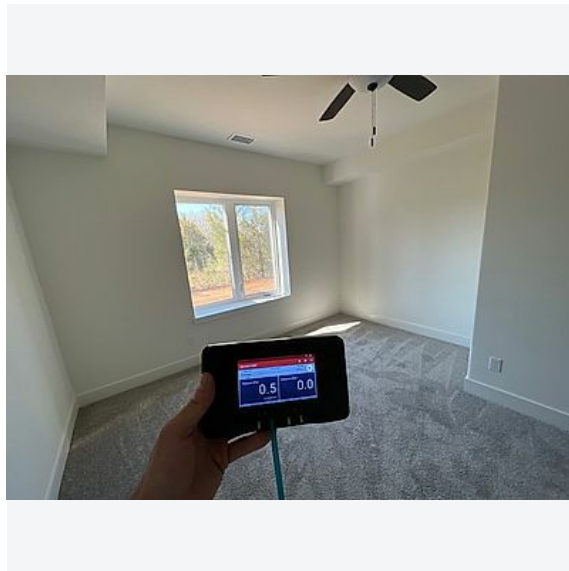
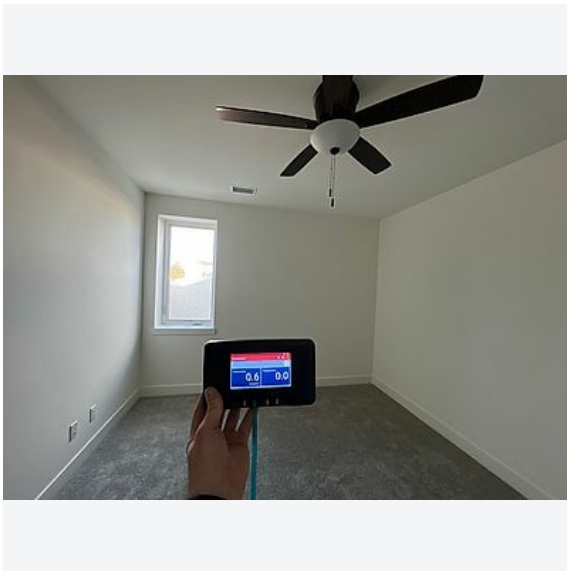
✓ Bedrooms Pressure Balanced

Measured pressure from HVAC in all bedrooms must be $\leq \pm 3$ Pa.

Yes

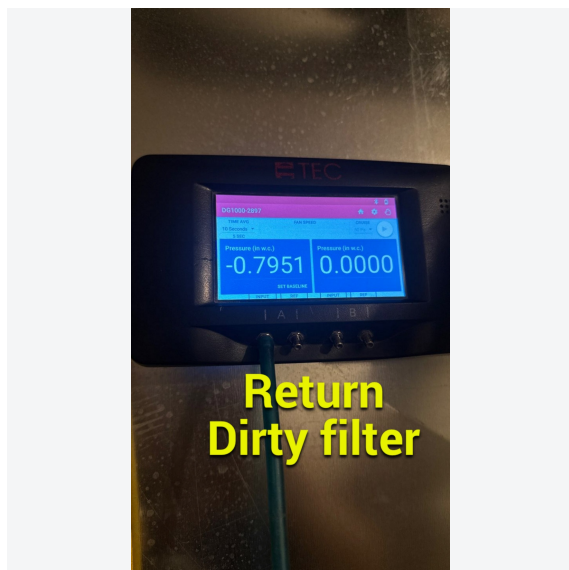
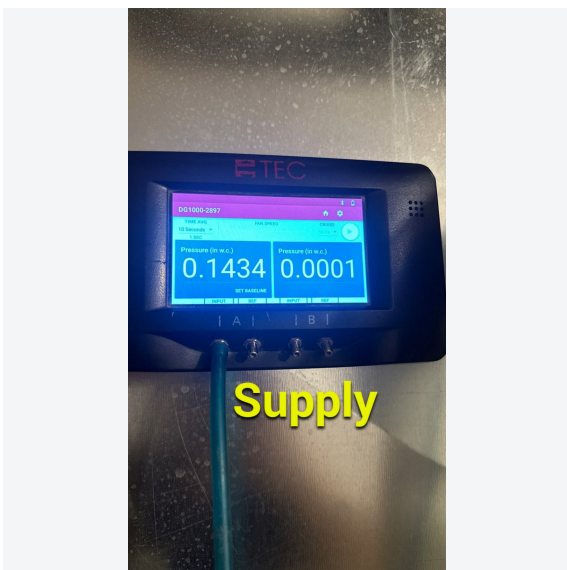
No

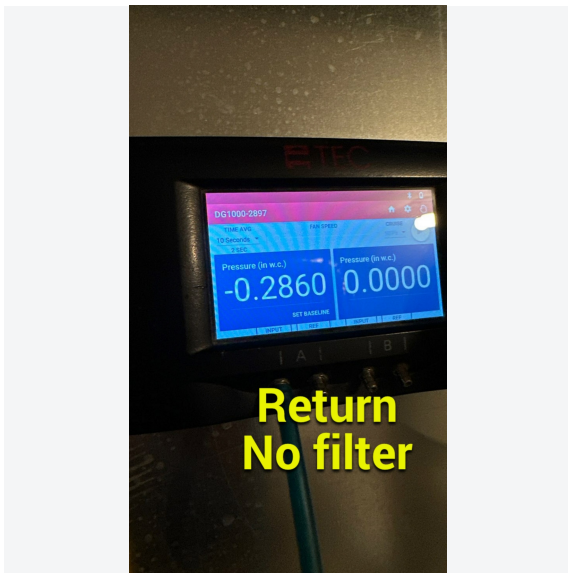
N/A



✓ Air Handler Static Pressure

Static pressure (in IWC) of return and supply side of air handler with fan running





Before Leaving

✓ Duct Seals Removed

All vent caps, foam blocks, and tape should be accounted for, photo not required

Yes

No

N/A

✓ HVAC Ready

HVAC system is back in original working condition

Yes

No

N/A

✓ House Locked

Yes

No

N/A