Gas Furnace Test 10/2/2026 9:56:49 AM



Joe Tester

Sample Report

Date of Service: 10/2/2026

Time of Service: 9:56:49 AM



Heating System Vitals

Date of Service: 10/2/2026
Time of Service: 10:05:17 AM

What Are Your System Vitals?
Just like your health vitals, temperature, pulse, and blood pressure etc, for Heating System vitals represent the overall health of your heating system. These vitals account for age, efficiency, fuel input as well as the airside performance of the system. System targets that are out of range are typically related to system diagnostics below. Correcting the system faults should put the system back into the normal range.

YOUR SYSTEM SCORE

100% A+

Age & Efficiency

In Range Out of Range

Age: 5

End of Life	Older	New
15+ Years	7-15 Years	0-7 Years

Efficiency 96.0

Low	Standard	High
(70+)	(80+)	(90+)

Fuel Input Rate & Heat Transfer

Manifold Pressure: 3.5 inH2O

Low	Normal	High
	(3.3 - 3.7)	

Temperature Split: 48.6 °F

Low	Normal	High
	(35.0 - 65.0)	

Air Distribution & Filtration

Total External Static Pressure: 0.53 inH2O

Low	Normal	High
	(< 0.7)	

Filter Face Velocity: 359.1 FPM

Low	Normal	High
	(< 500.0)	

Subsystem Review

- Control system (thermostat) *
- Electrical system *
- Air distribution system
- Air filtration system
- Condensate drain system *
- Indoor equipment *
- Venting system *
- Fuel delivery system
- Make up air (CAZ) *
- Heat exchanger *
- Safety system *
- Heating operation *
- Combustion efficiency

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Score Breakdown

Age & Efficiency Losses

Combustion Safety and Efficiency: The system age scoring is based upon the initial system AFUE, installation date and climate zone. From the combustion efficiency measureQuick also deducts points for standby losses from draft hoods, standing pilots and uninsulated cabinets.

0

Fuel Input Losses

To assure a long equipment life, correct fuel input is critical. Overfiring is a primary reason for heat exchanger failure due to thermal stresses.

0

Heat Transfer Losses

To assure a long equipment life, correct temperature rise is critical. Excessive temperature rise is a primary reason for heat exchanger failure due to thermal stresses.

0

Air Distribution & Filtration Losses

High system static pressure can result in high fan watt draw (electrical usage) and/or low airflow as well as premature blower motor failure, especially with ECM/Constant Torque motors. The system can have high total static, supply static, return static or a combination of all three. High static can also exacerbate return air duct leakage and contribute to poor indoor air quality. Excessive filter face velocity can result in blower, secondary heat exchanger and evaporator coil dirt fouling due to filter bypass or dirt sifting through the filter.

0

Your System Performance Score

Using data from several studies that correlate system faults, and system degradation due to age, measureQuick uses a proprietary scoring system to grade the system based upon age and system fault intensity. New systems when properly installed should easily score 95-100%.

100% A+

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Measurement Details

Date of Service: 10/2/2026
Time of Service: 10:04:52 AM

What Are Your System Vitals?
Just like your health vitals, temperature, pulse, and blood pressure etc, for Heating System vitals represent the overall health of your heating system. These vitals account for age, safety and efficiency, fuel input as well as the airside performance of the system. System targets that are out of range are typically related to system diagnostics below. Correcting the system faults should put the system back into the normal range.

YOUR SYSTEM SCORE

100% A+

Performance

Inlet Pressure (inH2O)	5.00	✓
Manifold Pressure (inH2(	3.54	✓
TESP (inH2O)	0.53	✓
Temp Rise (F)	48.6	✓
Temp Rise Tai	50.0	
Return Air (F)	66.3	✓
Supply Air (F)	114.9	✓
Airflow (SCFM	1097	✓
Rated Input	60000	
Meter Input	60000	
Heat Output	57600	✓

Electrical Measurements

Incoming Voltage (V)	121.0
Low Voltage (V)	24.7
Flame Rod (uA)	1.9
Polarity	96.0
Comb. Blower (MFD)	5.2
Comb. Blower (Amps)	1.3
Indoor Fan (MFD)	3.4
Indoor Fan (Amps)	5.3
Indoor Fan Power	0.70
Indoor Fan Power	1242.0

System Info & Weather

Atmos. Pressure (psi	14.677
Elevation (ft)	36
Temperature (F)	70.7
Humidity (%)	81
Dew Point (F)	64.49

Map removed for privacy

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Additional Details

System Information

Air Handler

Daikin DM96SE0603BNAA

System Profile

Heating Type	90+ Furnace
Fuel Type	Natural Gas
Min Gas Supply Pres	4.4
Max Gas Supply Pres	10
Rated Manifold Pres	3.50
Rated Efficiency	96
System Type	Split

Your System Score

100% A+

Visual Inspection

Control System (Thermostat)
- No action required

Electrical System
- No action required

Air Distribution System
- No action required

Air Filtration System
- No action required

Condensate Drain System
- No action required

Indoor Equipment
- No action required

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Project Photos



Control System (Thermostat)



Control System (Thermostat)



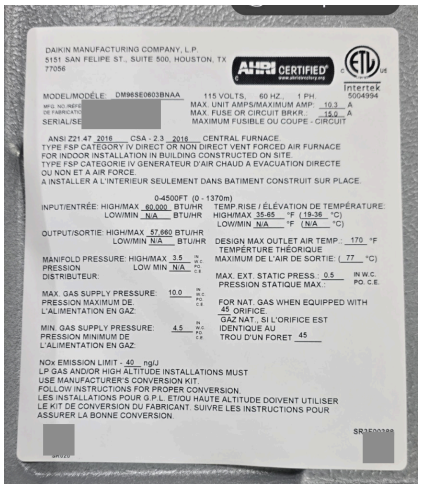
Control System (Thermostat)



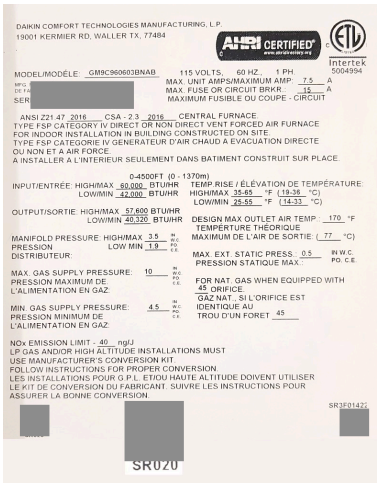
Control System (Thermostat)

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Equipment Photos



Equipment Models & Serials



Equipment Models & Serials

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Report Information

Heating System Vitals Report

The Heating System Vitals report and scoring: This measureQuick Heating System Vitals Score is reflective of the system safety, heating performance, degradation due to age, initial rated AFUE, fuel input, temperature split and duct system static pressures. Each element of the calculation is data driven and has a direct or indirect bearing on the equipment safety efficiency, heating performance, and longevity.

Your system is not only composed of the mechanical equipment, but there are also many subsystems including a control system, electrical system, air distribution system, air filtration system, condensate disposal system, venting system, fuel delivery system, and provisions for make-up air. Servicing and or replacing the equipment without addressing issues with the subsystems will assure premature equipment failure.

When properly installed and maintained, modern furnace systems are designed to last up to 20 years.* When there are system installation issues or maintenance that has been long deferred, the system life can be decreased dramatically. Systems scoring at or above 80% are typically considered excellent candidates for repair. Systems scoring less than 50% may require significant repairs, and due to age may be better candidates for equipment early retirement and replacement.

Combustion Safety and Efficiency

Combustion safety is measured with a combustion analyzer. It is determined by the COaf (Carbon Monoxide Air Free) reading. Appliances that are adjusted for proper input will typically have a COaf reading of 100 ppm or less. The maximum permissible COaf reading is 400 ppm at steady state. Systems producing COaf readings above Systems between 100 and 400 ppm COaf should be serviced and or adjusted to reduce the COaf reading below 100 ppm. An appliance with CO readings above 400 ppm COaf that cannot be fixed should be removed from service. Please see specific recommendations further down in this report under combustion safety.

The efficiency of gas appliances remains consistent over the life of the appliance with limited maintenance provided they are set up properly at the time of installation. These appliances require annual service to assure their continued safety and longevity. Many non-condensing (mid and low efficiency) appliances can have combustion efficiencies approaching 80%. Combustion efficiency however is not representative of the actual efficiency of the appliance due to standby losses from continuous pilots, draft hoods, and installation in an unconditioned space. These standby losses can decrease overall appliance efficiency (AFUE) as much as 25%.

Fuel Input and Heat Transfer

Fuel input and temperature split are of primary importance when it comes to equipment longevity and efficiency. It is critical that the appliance is on rate (proper fuel input) and operating near the center of the desired temperature rise at or below the designed duct air pressure for the system. Incorrect input and high temperature rise are primary contributors to premature heat exchanger failure.

Air Distribution and Filtration (TESP and Filter Face Velocity)

Total External Static Pressure (TESP) is a measure of the resistance to airflow in an air conditioning system by components external to the rated appliance. Typically, the components that create resistance to airflow are the evaporator coil, the air filter and/or filter grill, and the supply and return duct system including the registers. A high total external static pressure will cause low airflow for a PSC motor and high electrical consumption and or low airflow for an ECM. In both cases, this can cause premature failure of the blower motor, an expensive repair.

Filter face velocity is measured to assure proper air filtration and to prevent the sifting of dirt through the filter causing the evaporator coil to foul and or the condensate line to plug with dirt. A system that has undersized filtering will also typically have a high TESP. While coil fouling does naturally occur over time, when accelerated, it can lead to significant system efficiency losses.

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