

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 10-0647	Issue Date:	CBL: 344 G001001
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Location of Construction: 47 CYPRESS ST	Owner Name: LYDEN CATHERINE M	Owner Address: 47 CYPRESS ST	Phone:
Business Name:	Contractor Name: Mainely Plumbing & Heating	Contractor Address: 674 Main Street Gorham	Phone 2078544969
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R-5

Past Use: Single Family Home	Proposed Use: Single Family Home - Replace furnace w/ new Carrier Furnace in basement	Permit Fee: \$70.00	Cost of Work: \$5,000.00	CEO District: 5	6000
Proposed Project Description: Replace furnace w/ new Carrier Furnace in basement		FIRE DEPT: <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Denied <i>N/A</i>	INSPECTION: Use Group: R-3 Type: HVAC <i>State Eng Regs</i>		

Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)	
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied	
Signature:	Date:

Permit Taken By: Idobson	Date Applied For: 06/08/2010	Zoning Approval	
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<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>	<p>Special Zone or Reviews</p> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>6/8/10</i>	<p>Zoning Appeal</p> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	<p>Historic Preservation</p> <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date:
	<p>PERMIT ISSUED</p> <p>JUN 24 2010</p>		

City of Portland

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

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Permit No: 10-0647	Date Applied For: 06/08/2010	CBL: 344 G001001
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Business Name:	Contractor Name: Mainely Plumbing & Heating	Contractor Address: 674 Main Street Gorham	Phone: (207) 854-4969
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Single Family Home - Replace furnace w/ new Carrier Furnace in basement	Proposed Project Description: Replace furnace w/ new Carrier Furnace in basement
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Dept: Zoning	Status: Approved with Conditions	Reviewer: Marge Schmuckal	Approval Date: 06/08/2010
Note:			Ok to Issue: ✓
<ol style="list-style-type: none"> 1) Separate permits shall be required for future decks, sheds, pools, and/or garages. 2) This is NOT an approval for an additional dwelling unit. You SHALL NOT add any additional kitchen equipment including, but not limited to items such as stoves, microwaves, refrigerators, or kitchen sinks, etc. Without special approvals. 3) This property shall remain a single family dwelling. Any change of use shall require a separate permit application for review and approval. 4) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work. 			
Dept: Building	Status: Approved with Conditions	Reviewer: Tammy Munson	Approval Date: 06/24/2010
Note:			Ok to Issue: ✓
<ol style="list-style-type: none"> 1) The installation must comply with the State of Maine Gas Regulations. 			

PERMIT ISSUED

JUN 24 2010

City of Portland



FILL IN AND SIGN WITH INK

PERMIT ISSUED

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

JUN 24 2010

City of Portland

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 47 Cypress St Use of Building Single Family Date 6/2/10
Name and address of owner of appliance Cathy Lyden

Installer's name and address Mamely Pkg + Bldg 674 Main St. Gorham, Me 04038 Telephone 854-4869

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Carrier Furnace

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # _____
- Solid Fuel # _____
- Oil # _____
- Gas # PNT 347
- Other _____

Type of Chimney:

- Masonry Lined
Factory built _____
- Metal
Factory Built U.L. Listing # _____

Direct Vent
Type _____ UL# _____

Type of Fuel Tank

- Oil
- Gas

Size of Tank Natural Gas

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 5,000

Permit Fee: \$ 45.00

JUN - 8 2010
Dept. of Building Inspections
City of Portland Maine

RECEIVED

Approved

Approved with Conditions

Fire: _____
Ele.: _____
Bldg.: _____

See attached letter or requirement

Signature of Installer [Signature]

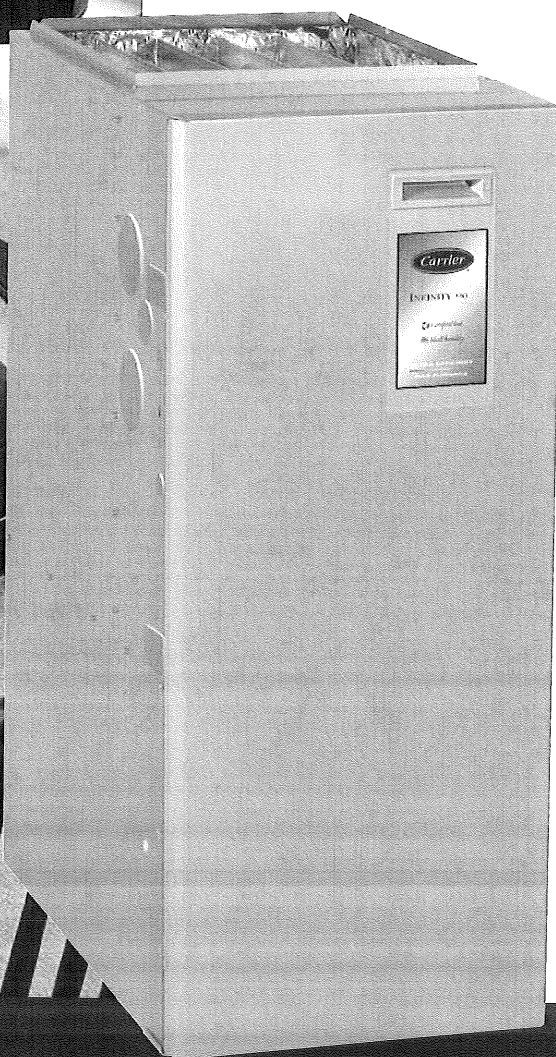
Inspector's Signature _____ Date Approved _____

Infinity™ 96 Gas Furnace
with Comfort Heat Technology®



Turn to the Experts.™

INFINITY™ SERIES



High-Efficiency Gas Furnace with up to 96.6% AFUE

Things to Consider Before You Buy

Comfort Heat Technology®

When temperatures outside start to dip, maintain your indoor comfort with the Comfort Heat Technology feature. Ordinary furnaces warm your home with full-speed hot-air blasts followed by idle periods, causing the temperature to drop before the next heating cycle. The Carrier® exclusive Comfort Heat Technology feature is a smart technology, accurately predicting



ComfortHeat

the need for heating while cutting temperature swings in half. Comfort Heat Technology provides a nearly continuous flow of warmth in low-capacity operation for a steadier, more consistent indoor temperature. Our patented technology monitors previous heating cycles and adjusts the low- and high-capacity operation based on your home's heating needs.

Comfort

Carrier specializes in creating a customized home comfort system tailored to your needs with our broad selection of residential heating and cooling products. Your Carrier dealer can help you choose the best system for your home including Carrier-exclusive features that further enhance your indoor environment.

- The revolutionary Infinity™ System is the only system in the industry that allows you to control temperature, humidity, air quality, fan speed, ventilation; and even detects when your air filter needs replacing. It's so advanced it automatically adjusts to your system's needs for peak-efficiency and performance.
- Add a Carrier Infinity™ Control and the Infinity™ 96 features SmartEvap™, which can keep unwanted humidity in your home to comfortably low levels.
- ComfortFan™ gives you even more control over your indoor comfort by allowing you to select your continuous fan speed at the Infinity Control.
- Bothered by that dry, "sticky" feeling in the winter or that muggy feeling in summer? Add a Carrier humidifier and Infinity Control to your heating and cooling system. Ideal Humidity System® technology helps control your home's humidity level.

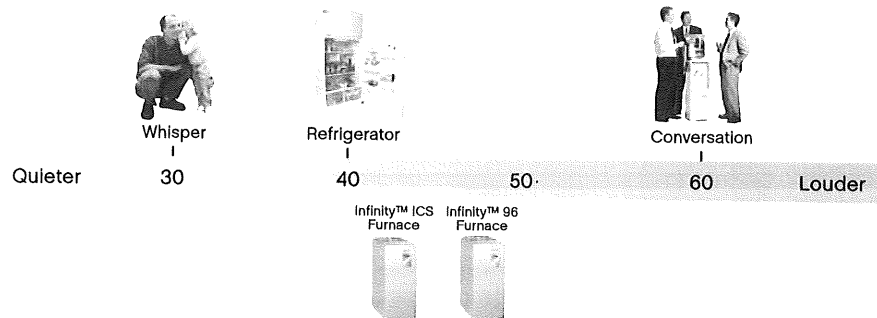


IdealHumidity

Sound

Carrier furnaces are designed for quiet operation. The variable speed fan allows this system to operate in the lowest possible setting for 90% of the heating season. Not only does this feature help to minimize sound, it also helps you save on your utility bills. And for what little sound a Carrier system does make, a sealed combustion system and insulated cabinet help to further isolate sound levels at its source. At Carrier, we believe home comfort shouldn't be at your ears' expense.

Comparative Sound Ratings (decibels)



Carrier manufactures gas furnaces that are among the quietest in the industry. We test our products in a sound laboratory specifically built to resemble a typical residence. Sound level recordings produced at steady state, low fire operation (the most common operating condition), measured 3 feet from furnace. Other sound levels, mentioned for comparison, as published at <http://www.nidcd.nih.gov/health/hearing/ruler.asp>.

Carrier® Systems for Unmatched Performance

Humidifier replenishes moisture to dry air.

Evaporator Coil allows the refrigerant to absorb heat from the air as it passes over the coil surface. The evaporator coil is located with the indoor unit and is also referred to as the indoor coil.

Gas Furnace provides reliable, high-efficiency heating for long-lasting comfort and energy savings.

Air Cleaner improves air quality by removing harmful and irritating airborne pollutants from your home.

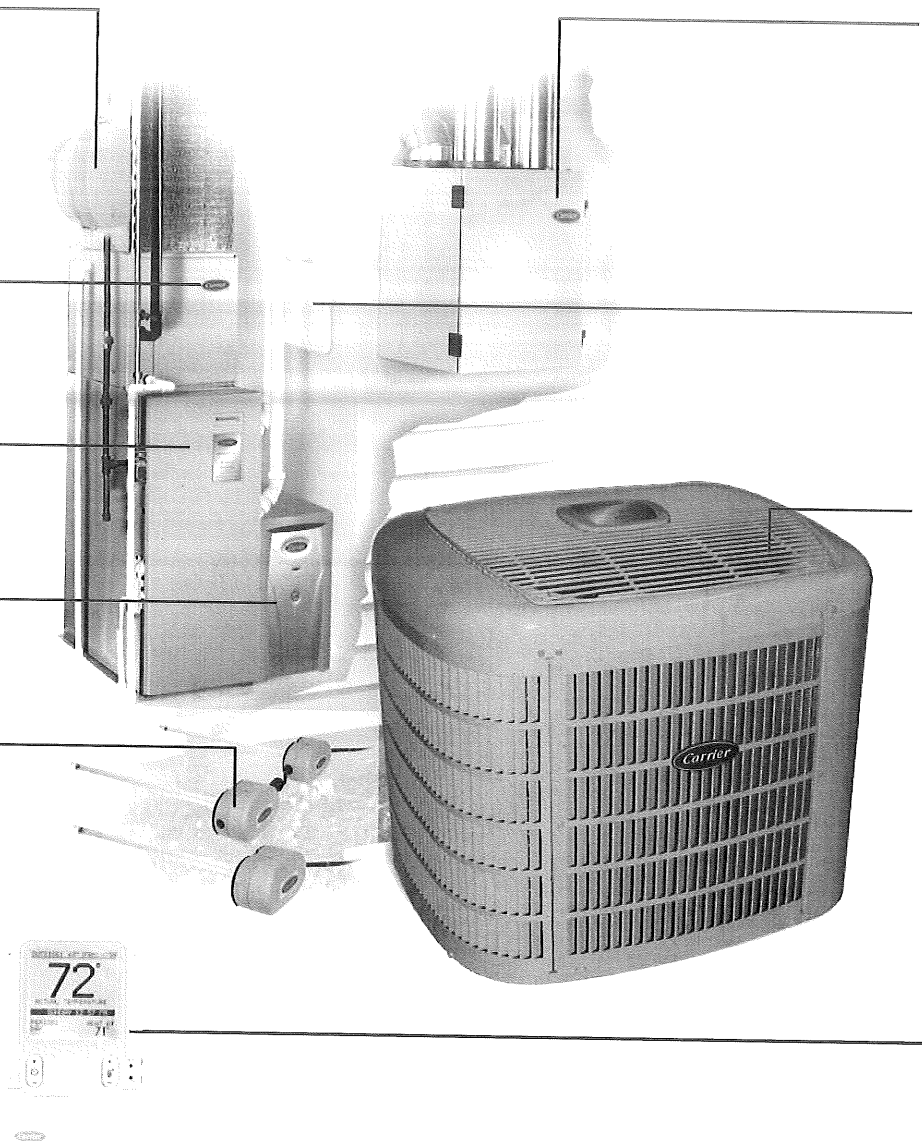
Ultraviolet Germicidal Lamp inhibits the growth of contaminants on the indoor coil, leaving your home with cleaner, fresher indoor air.

Ventilator combines fresh outdoor air with conditioned indoor air for improved air quality and maximum efficiency – great for today's tightly constructed home.

Zoning sets different temperatures for up to eight different areas of your home for truly customized comfort and enhanced utility savings.

Air Conditioner provides reliable, high-efficiency cooling for long-lasting comfort and energy savings. Ask about environmentally sound Carrier air conditioners with Puron® refrigerant.

Infinity™ Control is the interface to the Infinity™ System. The Infinity System is the only system in the industry that allows you to control temperature, humidity, air quality, fan speed and ventilation.



Reliability

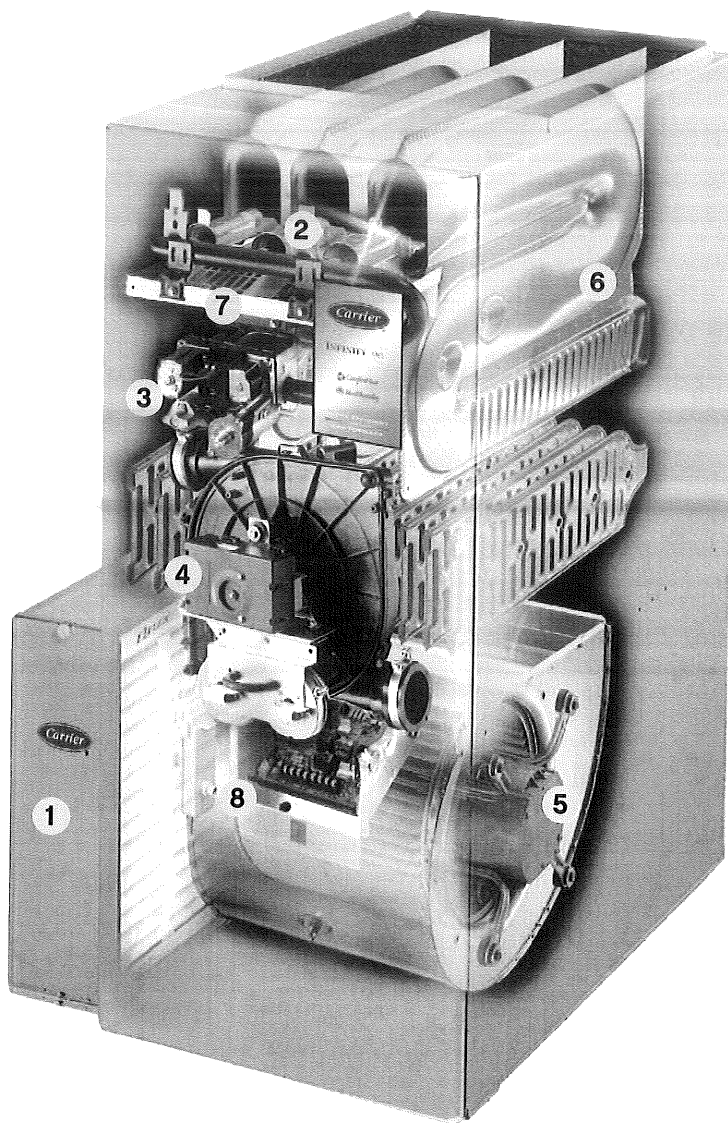
At Carrier, your comfort is our business. That's why we have one of the most extensive product research and development facilities in the world. Within every step of the development process, from the design phase to finished products, we test each and every product to exceed industry standard requirements. In fact, Carrier engineers test the reliability of the heat exchangers to over 200,000 cycles. That's more than six times the industry's standard of 30,000 cycles.

Safety

Built by the most trusted name in the industry, Carrier furnaces heat safely within your home. Carrier pioneered the following safety innovations:

- Hot surface ignition system eliminates the need for a pilot light, reducing gas usage and promoting worry-free operation.
- The control board constantly monitors the safety devices during heating operation. If a safety device activates for any reason, the furnace will cease operation and a status code will be displayed on the furnace control board, alerting you to any potential problems.

INFINITY 96



Technology

- 1 Optional air cleaner cabinet** – allows for the easy and convenient addition of a Carrier® high-efficiency air filter for enhanced air quality.
- 2 Burner ignition** – as one of the most robust and durable ignition systems available, Power Heat™ hot surface ignition replaces pilot lights and reduces utility consumption.
- 3 Two-stage gas valve** – provides two heating capacities. The low capacity works during milder days while the high capacity engages during colder temperatures.
- 4 Variable speed inducer** – precisely controls air intake within the combustion system for high-efficiency performance.
- 5 Variable speed blower motor** – ensures consistent airflow and temperature maintenance, helping to keep rooms more comfortable while improving air quality.
- 6 Two heat exchangers** – extract heat from the gas you use and transfer it to warm the air. The primary heat exchanger extracts 80% of the heat while the secondary heat exchanger extracts an additional 12 - 16%, helping to ensure efficient, reliable performance.
- 7 Sealed combustion system** – reduces cold air infiltration while providing quieter operation.
- 8 Infinity™ furnace control board** – allows the unit to connect to an Infinity™ Control for the ultimate comfort control. Smart electronics keep track of previous cycles and allow the system to automatically adjust the heating and cooling stages for the best comfort and energy efficiency.

Specifications

Gas Furnaces	Infinity™ System	Humidity Control	Blower Speed	Comfort Heat Technology*	AFUE Rating	Heat Stages	SEER Boost
Infinity™ ICS Furnace	✓	Ideal Humidity System® Technology	Variable	✓	Up to 95.0*	Multi	
Infinity™ 96 Furnace	✓	Ideal Humidity System® Technology	Variable	✓	Up to 96.6*	2	
Performance™ 93 Furnace		Enhanced	4-5	✓	Up to 93.0*	2	
Performance Boost 90 Furnace		Enhanced	4-5	✓	Up to 93.0*	1	✓
Comfort™ 92 Furnace		Enhanced	3-4		Up to 95.5*	1	

* ENERGY STAR® rated

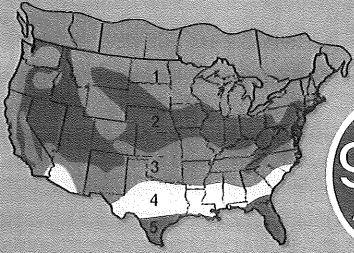
Warranty

To the original owner, the Carrier Infinity 96 gas furnace is covered by a 10-year parts and lifetime heat exchanger limited warranty upon timely registration of your new equipment.* The secondary heat exchanger carries a 20-year labor limited warranty. Ask your Carrier dealer about optional extended warranties, which may include labor.

* Warranty period is a five-year on parts and 20-year on heat exchangers if not registered within 90 days. Jurisdictions where warranty benefits cannot be conditioned on registration will automatically receive a 10-year parts limited warranty and a lifetime parts limited warranty on the heat exchangers. See warranty certificate at carrier.com for complete details.



Efficiency



UP TO
96.6%
AFUE
RATING

APPROXIMATE ANNUAL HEATING/COOLING COSTS

		Typical 10+ year old system 85% AFUE with 6 SEER	Ordinary 92% AFUE with 12 SEER	Infinity™ 94% AFUE with 12* SEER
Zone 1	Heating	\$ 16.1	\$ 1.3	\$ 0.9
	Cooling	2.36	1.0	1.26
	Fan	0.38	0.21	0.19
Total		16.82	11.56	24.7
Zone 2	Heating	\$ 20.1	\$ 1.7	\$ 1.1
	Cooling	1.51	0.7	0.9
	Fan	0.38	0.21	0.19
Total		16.13	11.2	22.2
Zone 3	Heating	\$ 17.7	\$ 1.4	\$ 0.9
	Cooling	1.1	0.5	0.6
	Fan	0.61	0.24	0.19
Total		19.77	13.31	21.3
Zone 4	Heating	\$ 11	\$ 0.9	\$ 0.6
	Cooling	0.86	0.42	0.4
	Fan	0.53	0.14	0.19
Total		12.41	1.17	1.19
Zone 5	Heating	\$ 2.7	\$ 0.3	\$ 0.1
	Cooling	1.32	0.21	0.1
	Fan	0.11	0.05	0.05
Total		4.07	0.56	0.26

To use this table:

1. Determine the AFUE/SEER of your current system.
2. From the map determine the zone you live in, enter the table and cross reference your zone with the AFUE/SEER of your current system to determine your approximate annual heating/cooling costs.
3. Compare your annual heating/cooling cost to that of a new system with a higher AFUE/SEER.
4. The difference of these two numbers is your estimated annual cost savings.
5. Heating and cooling costs include cycled fan operation. Fan costs are for fans set in ON position to run continuously. Subtract fan cost from total cost if unit is not set up to run continuously.

High-Efficiency Gas Furnace Designed with Your Comfort in Mind



Greater Operational Efficiency

Annual Fuel Utilization Efficiency or AFUE is like gas mileage. The higher the gas mileage or AFUE rating, the more efficient the automobile or system is. While an ordinary furnace will consume 625 watts of electricity during heating operation, most Infinity™ 96 models use less than a 100-watt light bulb.

- The Infinity 96 has a rating of up to 96.6 AFUE, helping to reduce your utility costs by up to 36% over the year. Actual savings will depend on the efficiency of your current system compared to the efficiency of a new system.
- As an ENERGY STAR® partner, Carrier Corporation has determined that the Infinity 96 gas furnace meets the ENERGY STAR guidelines for energy efficiency.





Turn to the Experts

Willis Carrier invented air conditioning in 1902. Over 100 years later, we're proud to say Carrier® systems are trusted in more homes than any other brand.

Carrier continues to be on the forefront of innovative engineering and unsurpassed standards of excellence. So when choosing a home comfort system, you'll want to turn to the experts. Your Carrier dealer will evaluate your home, such as window placement and size, ductwork, other structural specifics and lifestyle to provide a customized indoor comfort plan designed specifically for you. And when you have an expert helping you make an educated decision, you're going to feel more comfortable.



Turn to the Experts.™

www.carrier.com

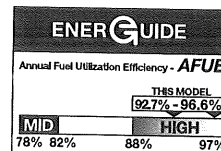
1-800-CARRIER

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Stock Symbol UTX.

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01-858-502-25

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.
Model 58MVB



Always look for these symbols, the home heating industry seals of certified performance, efficiency and capacity.