

The Comfort
of a Thermo Pride
Gas Fired Furnace

Built Tough for Lifetime Comfort™

Thermo Pride®



The Comfort of a Gas-Fired Furnace

The Gas Furnace Built for You

Thermo Products, makers of Thermo Pride heating and cooling equipment, listens to homeowners and incorporates your needs and concerns into a line of superior gas furnaces. You are ensured long-lasting trouble-free operation and peace of mind when you choose a Thermo Pride gas-fired furnace.



Traditional Craftsmanship

For over 50 years, Thermo Pride has stood for handcrafted products and hometown values. During this time we have never lost sight of our heritage, our goal of producing the highest quality comfort products, or our commitment to complete customer satisfaction. This has allowed us to provide customers like you with the highest quality products, which you deserve.

Thermo Pride gas furnaces are designed in upflow (CHX1, CHB1 and MHA1) and counterflow/horizontal (CDX1, CDB1 and MDA1) models. This ensures that you get the furnace that's a perfect match for your home.

Value—"Peace of Mind" Warranty

The proven longevity of Thermo Pride's heat exchanger combined with the "Peace of Mind" warranties, help

eliminate your risk and worry of having to repeat a substantial investment. The



"Peace of Mind Plus" warranty provides that if the heat exchanger fails within 10 years from the date of installation, Thermo Pride will provide you with a replacement furnace*. The "Peace of Mind" warranty covers the cost of defective parts for the first five years and covers the heat exchanger for life. Should you sell your home, the warranties will also transfer automatically to the new homeowners.

*Installation requirements must be met. See contractor for more information.

Certified Value



Thermo Products is an ISO 9001:2000 registered company. This means that our products are quality inspected to ensure a high level of value. Also, all of our condensing furnaces bear the ENERGY STAR® logo. These products are more than 90% efficient, saving you money on energy bills.

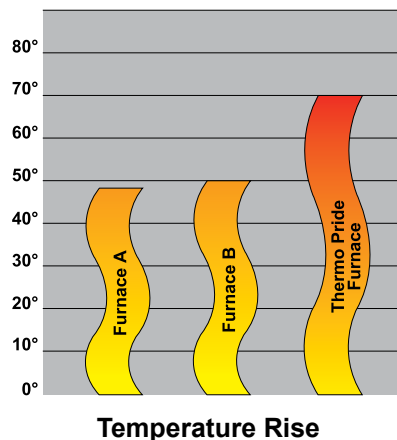


Quality

Proven quality components, heavier construction throughout the appliance, and a cabinet that is designed to last are just a few quality features of Thermo Pride gas furnaces. All three models, the Premiere Series, 90% Condensing, and 80% Mid-efficiency are constructed with state-of-the-art components to operate under a variety of conditions while providing complete comfort.

Temperature Rise

Comfort is the purpose behind any heating system, and warmer air from the heat vents in your home means greater comfort for you. "Temperature rise" is the temperature difference between air entering and exiting the furnace. The higher the temperature rise—the greater the warmth of the air when it enters your home. Thermo Pride has set a standard of 70°F temperature rise across its full line of furnaces, considerably higher than other manufacturers' units.

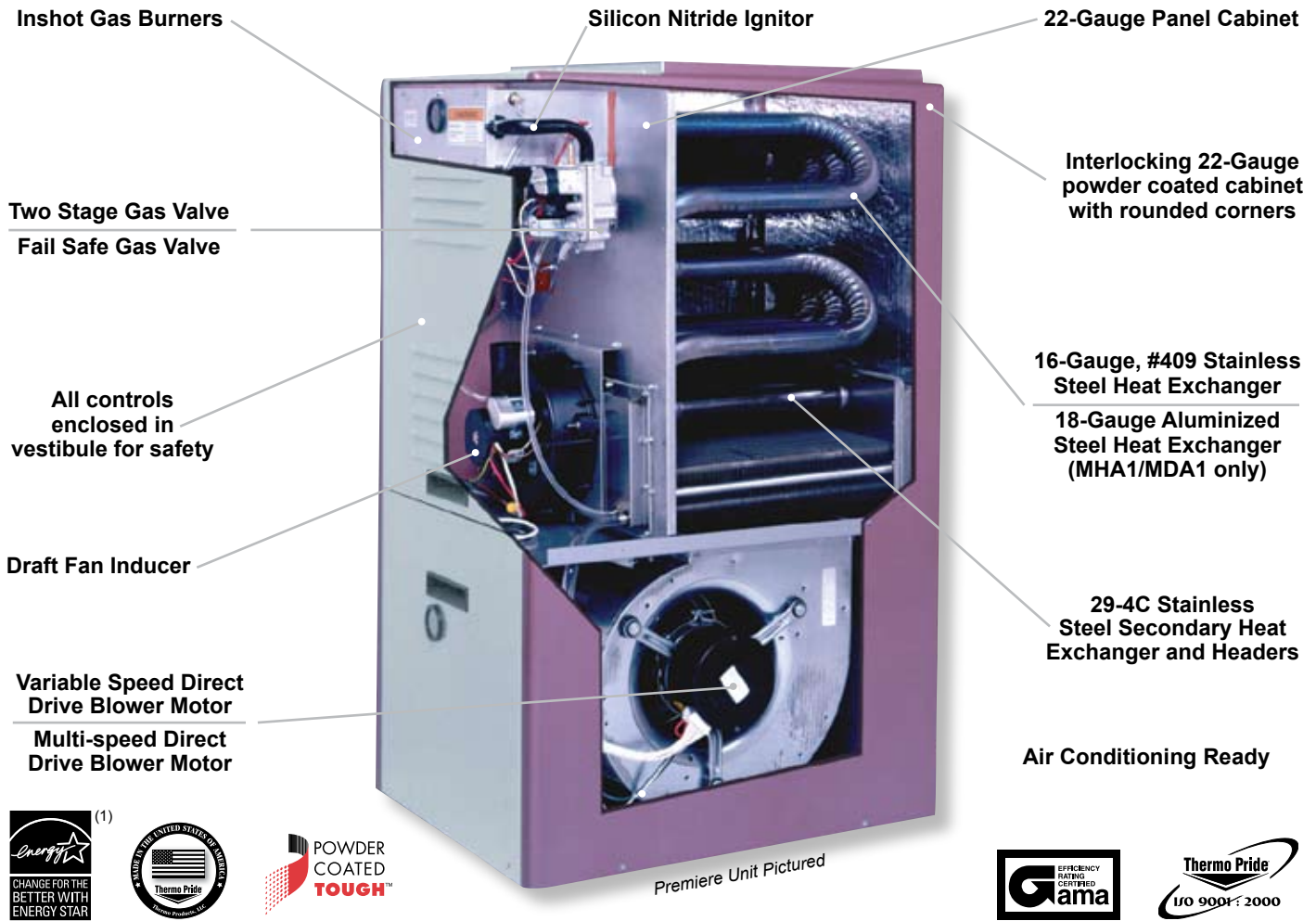


Offering quality, value and traditional craftsmanship, a Thermo Pride gas furnace is truly the gas furnace built for you.



Built Tough for Lifetime Comfort™

Features and Benefits



FEATURE	(1) Premiere Series CHX1/CDX1	(1) 90% Condensing CHB1/CDB1	80% Mid-efficiency MHA1/MDA1
Inshot Gas Burners	•	•	•
Two Stage Gas Valve	•		
Fail-Safe Gas Valve	•	•	•
Variable Speed Direct Drive Blower	•		
Multi-speed Direct Drive Blower Motor		•	•
16-gauge #409 Stainless Steel Heat Exchanger	•	•	
18-gauge Aluminized Steel Heat Exchanger			•
29-4C Stainless Steel Secondary Heat Exchanger	•	•	
Interlocking 22-gauge Panel Cabinet w/ Powder Coated Finish	•	•	•
Silicon Nitride Ignitor	•	•	•
High Limit Temperature Switch	•	•	•
CSA Design Certified	•	•	•
Natural Gas (LP conversion kit included)	•	•	•
Direct Vent	•	•	
5-year "Peace of Mind" Warranty	•	•	•
10-year "Peace of Mind Plus" Warranty	•	•	•
Fully Transferable Lifetime Limited Warranty on Heat Exchanger	•	•	•
Optional Extended Parts and Labor Warranty	•	•	•

1. As an ENERGY STAR® partner, Thermo Pride has determined that the Premiere CHX1/CDX1 series and the CHB1/CDB1 series meet the ENERGY STAR® guidelines.

Benefits of Thermo Pride Ownership

Inshot Gas Burners

- Designed to burn quietly, efficiently and consistently.
- Factory ready for natural gas application. (LP conversion kit included)



Fail Safe Gas Valve

- Ensures safe, reliable operation for years of trouble-free service

Two Stage Gas Valve on Premiere Units

- Operates at two firing rates. The first, or lower rate, is designed to provide heat on the mild days when a single stage furnace may be too large
- The second stage operates only when outside temperatures reach or are close to design temperatures
- Provides lower gas consumption because the furnace will operate at low fire 70-80% of the time

Multi-speed Direct Drive Blower Motors in the 80% and 90%+ Furnaces

- Allows the installer to select the proper blower speeds for quiet operation
- Are higher quality, with a wider wheel, built and balanced for whisper quiet reliable operation
- Air conditioning ready



Premiere Variable Speed Direct Drive ECM Blower Motor

- Infinite fan motor speeds provide quieter start up, greater efficiency, and more comfortable operation
- Delivers the correct amount of airflow in both the heating and cooling modes. On a call for heat/cooling the blower motors starts at a slower speed and builds to the correct running speed



- Provides significant electrical cost reduction when the blower is run constantly as in air cleaner applications

16-gauge #409 Stainless Steel Heat Exchanger

- 16-gauge #409 stainless steel provides a lifetime of durability, high efficiency heat transfer and high 70° temperature rise on the Premiere and 90% condensing furnaces.



29-4C Stainless Steel Secondary Heat Exchanger

- Includes stainless steel collector box on secondary heat exchanger
- Extracts the remaining usable heat from the flue products for maximum efficiency
- Is corrosion resistant, which provides maximum safety and durability to the heat exchanger construction

Interlocking 22-gauge Panel Cabinet with Durable Powder Coated Finish

- Fabricated with rounded corners and an interlocking design for a more finished appearance and greater strength
- Lined with ½” thick reinforced fiberglass insulation for maximum heat retention
- Incorporates a burner vestibule enclosure into its design to isolate burner combustion noise



Silicon Nitride Igniter

- Nearly indestructible—the silicon nitride igniter quickly heats to a red-hot condition to ignite the gas from the manifold
- Minimum voltage required for ignition which saves energy

High Limit Temperature Switch

- Protects the heat exchanger from poor air flow and potential hazards
- Shuts down the furnace if a blower malfunction or an obstruction occurs which blocks airflow

Which Thermo Pride Gas Furnace is Right for You?

Deciding which furnace line and accessories to use may be as simple as asking yourself and your contractor a few basic questions. This will help to establish a clear understanding of your system needs and desires ensuring complete comfort and satisfaction.

When should I buy a Thermo Pride MHA1/MDA1 series furnace?

- *Do you already have a working chimney and moderate heating costs?*
The 80+ AFUE furnace line may be your best choice if you already have a properly sized and lined chimney suitable for the furnace and your annual heating costs are moderate. A direct replacement installation that requires no additional chimney work may save you “up front” money on the furnace and installation.

When should I buy a Thermo Pride CHB1/CDB1 series of furnace?

- *How much do you currently spend for heating fuel, annually?*
If your current fuel bills are high, the 10-15% savings of CHB1/CDB1 can substantially increase your rate of return on the investment.
- *What are the venting requirements?*
The CHB1/CDB1 gas furnace can be vented with PVC pipe reducing installation costs if the chimney is not in working condition. This “up front” installation savings may be enough to completely offset the difference in price.
- *Is the air in your home too dry during the heating season?*
The CHB1/CDB1 gas furnace can be installed as a direct vent system where combustion air is drawn from the outside of the home, eliminating the depletion of moisture from your home through your chimney.

When should I buy a Thermo Pride Premiere CHX1/CDX1 series furnace?

The Premiere 2-stage 90+ furnace (CHX1/CDX1) has all of the benefits of the single stage 90+ furnace (CHB1/CDB1) plus a few added features.

- *Do you want to increase comfort and further reduce your fuel bills?*
The high efficiency General Electric ECM variable speed blower motor will save a significant amount of electrical energy in applications that require long or constant blower operation.

- *Is improving your indoor air quality important to you?*
The ECM motor will allow for reduced speed during constant fan operation for air filtration and improved indoor air quality.

The ECM variable speed blower motor adjusts to compensate for less than perfect duct applications and/or dirty filters (filters should be cleaned or replaced on a regular basis).

Two stages of heat allow for longer run times at a reduced firing rate. Increased run times allow better air filtration and reduce temperature swings during the milder seasons increasing your comfort level.



Complete System Comfort

Assemble a complete comfort system with a Thermo Pride air conditioning condensing unit, and your choice of accessories along with your Thermo Pride gas furnace.



The Premiere Gas Furnace offers the added comfort of two-stage operation, so why not add a programmable two-stage Premiere Thermostat for added efficiency? The Premiere Air Conditioning Unit adds greater efficiency to the cooling operation because of its high SEER (Seasonal Energy Efficiency Ratio) rating. For added indoor comfort, add a UV Aire light in the ductwork to kill mold and bacteria that can contribute to poor indoor air quality, an electronic air cleaner, and an automatic air humidifier for complete comfort from your Thermo Pride forced air system.

Thermo Pride offers a complete heating/cooling system. The addition of accessories to your system can provide greater comfort and a healthier indoor environment.

Accessories

Premiere Series Air Conditioner

Available in 2 through 5 tons and up to 15.3 SEER, the Premiere Series contains thermally efficient micro-channel parallel flow tubing that is smaller and lighter than traditional copper tube aluminum fin coils, requires less refrigerant and has a smaller footprint than competitors' units.



Premiere Series Programmable Thermostat



Perfect for a combination heating/cooling system, the Premiere Series Programmable Thermostat maximizes comfort while saving energy. Use up to four different timed programs which allow you to save energy when it is not needed and then reset to provide the comfort your family desires.

UV Aire



Improve the indoor air quality of your home by adding a UV Aire air purifying system to your home heating and cooling ductwork. UV Aire silently and effectively reduces airborne contaminants including molds, bacteria, yeasts, dust mites, and viruses that can cause allergies.



Electronic Air Cleaner and Media Air Filter

Removes up to 97% of micron-sized airborne pollutants and allergy causing pollens to improve indoor air quality and create a healthier environment.

Vent Termination Kit

The Vent Termination Kit gives your installation an attractive finish. It mounts outside your home and the intake and exhaust pipes are terminated inside this paintable cover.



Power Humidifier

Proper humidity levels in your home reduce annoying static electricity, dried cracked furniture and wood trim, and wilting houseplants. Properly humidified air feels warmer allowing you to turn your thermostat down a few degrees and reduce energy costs, yet remain warm and comfortable.



Specifications

	MODEL NUMBER	MBH INPUT	MBH OUTPUT	AFUE %	DIMENSIONS (IN INCHES) L x W x H	FLUE DIAMETER (in inches)	WARM AIR OPENING	MAXIMUM A/C CAPACITY	APPROX. SHIPPING WEIGHT
PREMIERE SERIES	CHX1-75	75/52	71/49	94.5	27½ x 17 x 44¼	2	15 x 18	3.5	185
	CHX1-100	100/70	95/66	94.5	27½ x 21 x 44¼	3	19 x 18	4	200
	CHX1-125	125/87	117/82	94.0	27½ x 24 x 44¼	3	22 x 18	5	225
	CDX1-75	75/56	71/52	93.0	27½ x 17 x 46¼	2	15 x 18	3.5	195
	CDX1-100	100/75	94/69	93.0	27½ x 21 x 46¼	3	19 x 18	4	210
	CDX1-125	125/93	116/87	93.0	27½ x 24 x 46¼	3	22 x 18	5	243
90% + CONDENSING SERIES	CHB1-50	50	47	94.5	27½ x 17 x 44¼	2	15 x 18	2	185
	CHB1-75	75	71	93.0	27½ x 17 x 44¼	2	15 x 18	3.5	200
	CHB1-100	100	94	94.0	27½ x 21 x 44¼	3	19 x 18	4	225
	CHB1-125	125	116	93.0	27½ x 24 x 44¼	3	22 x 18	5	243
	CDB1-50	50	47	91.5	27½ x 17 x 46¼	2	15 x 18	2	195
	CDB1-75	75	70	92.0	27½ x 17 x 46¼	2	15 x 18	3.5	210
	CDB1-100	100	94	92.5	27½ x 21 x 46¼	3	19 x 18	4	235
	CDB1-125	125	116	92.0	27½ x 24 x 46¼	3	22 x 18	5	253
MID-EFFICIENCY SERIES	MHA1-50	50	40	80.0	27½ x 17 x 44¼	3	15 x 18	2	131
	MHA1-75	75	59	80.0	27½ x 17 x 44¼	4	15 x 18	3.5	143
	MHA1-100	100	79	80.0	27½ x 21 x 44¼	4	19 x 18	4	170
	MHA1-125	125	99	80.0	27½ x 24 x 44¼	4	22 x 18	5	186
	MDA1-50	50	40	81.0	27½ x 17 x 44¼	3	15 x 18	2	131
	MDA1-75	75	60	80.0	27½ x 17 x 44¼	4	15 x 18	3	143
	MDA1-100	100	81	81.0	27½ x 21 x 44¼	4	19 x 18	3.5	170
	MDA1-125	125	101	81.0	27½ x 24 x 44¼	4	22 x 18	4	186