

SEPTEMBER 30, 2008

**CONSUMERS' DIRECTORY
OF
CERTIFIED EFFICIENCY RATINGS**

for

Heating and Water Heating Equipment

INCLUDES:

RESIDENTIAL HEATING EQUIPMENT

- Gas Central Furnaces
- Oil Central Furnaces
- Gas Boilers
- Oil Boilers
- Gas Room Heaters
- Gas Floor Furnaces
- Gas Wall Furnaces

COMMERCIAL HEATING EQUIPMENT

- Gas Central Furnaces
- Oil Central Furnaces

RESIDENTIAL WATER HEATING EQUIPMENT

- Gas Water Heaters
- Oil Water Heaters
- Electric Water Heaters
including Heat Pump Type

COMMERCIAL WATER HEATING EQUIPMENT

- Gas Water Heaters
- Oil Water Heaters
- Electric Water Heaters



Air Conditioning, Heating and Refrigeration Institute



SEPTEMBER 30, 2008
CONSUMERS DIRECTORY OF
CERTIFIED EFFICIENCY RATINGS
FOR RESIDENTIAL HEATING
AND WATER HEATING
EQUIPMENT AND COMMERCIAL
WATER HEATING EQUIPMENT

PROGRAM SPONSOR AND ADMINISTRATOR:

AHRI
2111 WILSON BLVD, SUITE 500
ARLINGTON, VIRGINIA 22201-3001

INDEPENDENT TESTING LABORATORY:

INTERTEK TESTING SERVICES
3933 U.S. ROUTE 11
P.O. BOX 2040
CORTLAND, NEW YORK 13045

FOREWORD

In 2007, the members of the Gas Appliance Manufacturers Association (GAMA) and the Air-Conditioning and Refrigeration Institute (ARI) merged to become the Air-Conditioning, Heating, and Refrigeration Institute (AHRI). AHRI is one of the largest associations in the nation, representing 350+ member companies accounting for more than 90% of the residential and commercial air-conditioning, space heating, water heating, and commercial refrigeration equipment manufactured and sold in North America.

Regulators increasingly depend on AHRI for accurate and unbiased evaluation of HVACR equipment. Our certification programs demonstrate to government, building owners and homeowners that equipment performance claims have been independently measured and verified in accordance with federally mandated test procedures, instilling consumer confidence and enabling fair product comparisons. There are a number of product sections within AHRI. Four of those have developed separate efficiency certification programs continuing to operate under the GAMA Efficiency Rating Certified label: the Furnace, Hydronics Institute, Direct Heating and Water Heater Sections.

The GAMA Furnace and Hydronics Institute Divisions sponsor the certification program for residential gas and oil central furnaces and boilers. The GAMA Direct Heating Division sponsors the efficiency certification program for vented gas room heaters, floor furnaces and wall furnaces. The GAMA Water Heater Division sponsors the efficiency certification program for residential and commercial gas, oil, electric (including heat pump type) water heaters. This Directory lists the models for all participating manufacturers in each of the programs. The following is the format for those listings:

CHAPTER I	Gas and Oil Central Heating Equipment
CHAPTER II	Gas Vented Direct Heating Equipment
CHAPTER III	Gas, Oil, Electric, Combination, & Instantaneous Water Heaters
CHAPTER IV	Commercial Gas, Oil, Electric, & Instantaneous Water Heaters
CHAPTER V	Commercial Gas and Oil Central Heating Equipment

Each participant in the GAMA Efficiency Certification Program is entitled to display the GAMA Certification Symbol (Seal), Figure 1, on units of models covered by the program. The seal may be affixed to the unit only at the time and place of manufacture. The seal may also be displayed on specification sheets, advertising and on other literature that either specifies ratings or claims participation in the program. The seal and listing in this Directory are an indication that the equipment's efficiency rating as well as output heating capacity for heating equipment and first hour rating for water heating equipment have been determined and are accurately stated in accordance with the applicable efficiency test method; no other warranty, representation, endorsement or other statement, expressed or implied, is made.



Figure 1. GAMA Certification Seal

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INTRODUCTION

Description of GAMA Furnace and Boiler Efficiency Certification Program

Chapter I is a product of the residential Furnace and Boiler Efficiency Certification Program sponsored by AHRI in cooperation with its industry members. The program uses an independent laboratory to verify the furnace and boiler manufacturers' stated Annual Fuel Utilization Efficiency (AFUE) and output heating capacity as determined by testing in accordance with the Department of Energy's Uniform Test Method of Measuring the Energy Consumption of Furnaces and Boilers. Gas and oil furnaces with input ratings less than 225,000 Btu/hour, gas and oil boilers with input ratings less than 300,000 Btu/hour, are currently included in the program.

Administration of the program includes the quarterly publication of this electronic "Consumers' Directory of Certified Efficiency Ratings", which identifies certified products enrolled in the certification program and lists the input rating, certified heating capacity and Annual Fuel Utilization Efficiency (AFUE) for each.

Central Heating Equipment Defined

Central Heating equipment listed in this chapter is gas or oil burning furnaces or boilers. Furnaces supply heat to space remote from the furnace location through a system of ducts with air as the heating medium. Boilers supply heat to space remote from the boiler location through a piping and radiator system with hot water or low-pressure steam as the heating medium.

Chapter I Format

This chapter is divided into four (4) separate sections described as follows:

- Section 1 - Residential Gas Central Furnaces
- Section 2 - Residential Oil Central Furnaces
- Section 3 - Residential Gas Boilers
- Section 4 - Residential Oil Boilers

USE OF CHAPTER I

Each section provides a listing of the models of each of the companies participating in this program along with information on the configuration of the model, its size, heating capacity and efficiency rating (AFUE). Participating companies are listed in the Directory alphabetically.

In order for a potential purchaser of central heating equipment to get the optimum use from this chapter, there are two requirements:

- 1) an understanding of the information and terminology that it contains, and
- 2) (for purposes of selecting heating equipment) the information in the chapter must be supplemented with information concerning the type of installation and heat loss of the home to be heated. (See Step 2 on Page 4).

Information Contained in Chapter I

Following is an excerpt from a typical listing in the chapter along with an explanation of the information that is presented. Models with higher Annual Fuel Utilization Efficiency (AFUE) ratings use less fuel! To calculate how much less fuel, a procedure is provided in the next part of this introduction that will allow comparison of models of different AFUE ratings.

SAMPLE LISTING

(3) Model Number	(4) Configuration	(5) Footnotes	(6) Input MBTUH	(7) Heat Cap MBTUH	(8) PE Watts	(9) Eae kWh/yr	(10) Ef MMBTU/yr	(11) AFUE %
(2) ABA HEATING, INC.								
Trade Name(s): AABA								
<u>Steel</u>								
(1) NATURAL OR PROPANE GAS							<u>NON-WEATHERIZED</u>	
GH60DM	U H		60.0	46.0	80	600	55.2	78.5
GHE60DM-2	U H		60.0	45.0	80	600	64.5	78.1
GHE60DM-3	U D H		60.0	45.0	80	750	54.2	78.0
GH80DM	D H		80.0	62.0	80	750	77.0	79.5
GH80DM-3	D H		80.0	61.0	80	750	77.2	79.0

1. Type of Fuel: Sections 1 and 3 of Chapter 1 will be listed for natural gas, propane gas, or both. In Sections 2 and 4, this designation will be omitted since the models in these sections are listed for oil.
2. Name of Company: This may also be accompanied by a trade name or mark.
3. Model Number: Lists the model number of the units in the program. Certain furnaces listed in this chapter have the same ratings for efficiency related parameters such as input, capacity, and AFUE even though they have different model numbers. These units may be listed on the same line with interchangeable portions of the model numbers listed with an asterisk. For example, if the two models GF100-1 and GF100-2 have the same efficiency ratings they could be listed as GF100-*
4. Configuration: Configuration of the model and installation location used for ratings. Configurations and installation locations are further described at the beginning of each section.
5. Footnote: This column is for referencing footnotes.
6. Input, Mbtuh: This figure represent the amount of fuel that the model consumes in one hour. It is defined as the rate of energy supplied in a fuel to a furnace or boiler when operating under continuous burning (steady-state) conditions:
 - a) "Mbtuh" stands for thousands of British Thermal Units (Btu's) used in one hour and is a term used to measure energy; for example, a few hundred Btu's provide enough energy to make a pot of coffee. Some larger homes may require as much as 80,000-90,000 Btu's an hour for heating on very cold days.
 - b) "Steady-State Conditions" are conditions of continuous burner operation during which fuel consumption of the furnace or boiler is measured, somewhat like measuring your car's gasoline mileage under steady highway driving conditions.
7. Heating Capacity, Mbtuh: This figure tells how much heat the model can produce in one hour operating under steady-state conditions expressed in thousands of Btu's per hour. For isolated combustion or outdoor units the Heating Capacity is determined by multiplying the specified input by the steady-state efficiency, as tested, and subtracting an additional term to account for jacket losses which would go into an unheated environment.

- 8. PE, Watts: The electrical energy input rate supplied to the power burner (combustion air blower, fuel pump, damper motor) of a furnace or boiler operating under continuous burning (steady-state) conditions.
- 9. Eae, kWh/yr: The average annual auxiliary electrical energy consumption for a gas furnace or boiler in kilowatt-hours per year. It is a measure of the total electrical energy supplied to a furnace or boiler during a one-year period.
- 10. Ef, MMBtu/yr: The average annual fuel energy consumption for a gas furnace or boiler, in millions of Btu's per year.
- 11. AFUE, %: Annual Fuel Utilization Efficiency and is the efficiency rating of the model shown. Unlike steady-state conditions, this rating is based on average usage, including on and off cycling, as set out in the standardized Department of Energy test procedures.

REMEMBER: The higher the AFUE rating, the more efficient the model will be.

- 12. Electrically Efficient Furnaces (*e*) - The bold, italicized "*e*" designates furnaces that meet GAMA's guideline for electrical efficiency. The guideline applies to furnaces whose electricity consumption is 2% or less of the furnaces total energy use, according to the Department of energy's official test procedure, and is determined according to the following formula:

$$(Eae \times 3413) / [(Eae \times 3413) + (Ef \times 1,000,000)] \leq 2\%$$

Such furnaces typically employ a more efficient motor on the circulation fan and can significantly reduce electricity use during the heating season compared to models of the same AFUE and capacity that do not meet the guideline, especially when the circulating fan is operated on its own for ventilation, air circulation, or filtration. The electricity saved during each heating cycle is offset, on a site energy basis, by an equivalent increase in fuel use.

The guideline does not ensure electricity savings during the cooling season. For cooling season electricity savings, specify a furnace-air conditioner combination with a Seasonal Energy Efficiency Rating (SEER) that exceeds the federal minimum.

- 13. Primary heat exchanger material (boilers only).

Notes: a) Items 7 and 11 are certified values, while items 8, 9, and 10 are provided for application use.
 b) Eae and Ef are based on national averages. For the purpose of comparison, use the calculation procedure in this section.

Procedure for Estimating the Annual Heating Requirements and Comparing the Costs of Operation of Different Models

To estimate the amount of energy a home will use to provide comfort heating for a year, it is necessary to use both a) information specific to the particular home's need for heat, and b) the size and efficiency information on models listed in this Directory.

Outlined below is a method (based on the Department of Energy efficiency test procedure for furnaces and boilers) for first estimating the annual amount of energy used for heating a specific installation and then making a comparison of the estimated annual operating costs of models of essentially the same size but different efficiencies. Because of the number of variables involved in the procedure, the method shown here is only for the purpose of 1) estimating the amount of energy that will be consumed in one year for the specific installation and 2) comparing models of various Annual Fuel Utilization Efficiencies (AFUE) to assist in making a purchasing decision. The method outlined below can be used for comparing models using the same fuel (gas to gas) or different fuels (gas to oil). When selecting models for comparison, make sure units are of the same configuration needed for a particular installation, i.e., upflow models, etc. A "Worksheet" is provided at the end of the section for ease in compiling and calculating the necessary information. The steps required to complete the "Worksheet" are:

Step 1 - Determine the Heating Load Hours (HLH) for your area. To find an approximate number of Heating Load Hours for your specific area, use the map illustrated in Figure 1.

Heating Load Hours, HLH _____ hours

The procedure outlined above is based upon the Department of Energy test procedure for estimating the annual operating cost of gas or oil-fired furnaces or boilers. It includes the cost of annual fuel usage (natural gas, propane gas, or No. 2 heating oil), in addition to the annual electrical cost to operate furnace circulating blowers, pumps, and power burners.

Step 2 - Estimate the Design Heating Requirement (DHR) for the specific installation. Because the Design Heating Requirement is dependent upon a number of variables, such as the size of the house, building materials, insulation, architectural features, specific climatic conditions, etc., this determination must usually be performed by a knowledgeable heating contractor or other qualified source.

Design Heating Requirement, DHR _____ Btu/hr

Step 3 - Refer to the Directory to identify the size of the model needed to satisfy the Design Heating Requirement determined in Step 2. Models listed in the Directory of essentially the same heating capacity can now be evaluated for estimated annual operating costs. Models of the same fuel type (gas versus gas) as well as different fuel types (gas versus oil) can be compared using this

procedure.

	Input	_____	Btu/hr
	Heating Capacity	_____	Btu/hr
	AFUE	_____	%
Average Annual Fuel Consumption, Ef	_____		MMBtu
Average Annual Electrical Consumption, Eae	_____		KW-hr

Step 4 - Determine the Rated Design Heating Requirement, RDHR, for the selected model. The RDHR for an appliance is the DHR value that was used to calculate the Ef and Eae ratings included in this Directory. Using the Heating Capacity from Step 3, read the RDHR from Table 1.

TABLE 1

Unit Heating Capacity, Btu/hr	RDHR, Btu/hr
5,000 - 10,000	5,000
11,000 - 16,000	10,000
17,000 - 25,000	15,000
26,000 - 42,000	20,000
43,000 - 59,000	30,000
60,000 - 76,000	40,000
77,000 - 93,000	50,000
94,000 - 110,000	60,000
111,000 - 127,000	70,000
128,000 - 144,000	80,000
145,000 - 161,000	90,000
162,000 - 178,000	100,000
179,000 - 195,000	110,000
196,000 and Over	130,000

Rated Design Heating Requirement, RDHR _____ Btu/hr

Step 5 - Calculate the adjustment factor, AF, which is required to correct the energy usage figures from the Directory for your specific installation.

$$AF = \frac{HLH \times DHR}{2080 \times RDHR}$$

where,

- HLH = Heating Load Hours from Step 1.
- DHR = Design Heating Requirements from Step 2.
- 2080 = Average Annual Heating Load hours.
- RDHR = Rated Design Heating Requirement from Step 4.

AF = _____

Step 6 - Calculate the Estimated Annual Fuel Usage, EAFU, for your specific installation.

$$EAFU = AF \times Ef$$

where,

- AF = Adjustment Factor from Step 5.
- Ef = Average Annual Fuel Consumption from Step 3.

EAFU _____ MMBtu

Step 7 - Calculate the Estimated Annual Electrical Usage, EAEU, for your specific installation.

$$EAEU = AF \times Eae$$

where,

- AF = Adjustment Factor from Step 5.
- Eae = Average Annual Electrical Consumption from Step 3.

EAEU _____ kWh

Step 8 - Calculate the Estimated Annual Operating Cost, EAOC, for your specific installation and selected model.

$$EAO = [(EAFU \times 1,000,000 \times \text{Fuel Cost}) / \text{Btu Content}] + (EAEU \times \text{Electrical Cost})$$

where,

EAFU = Estimated Annual Fuel Usage in MMBtu from Step 6.

1,000,000 = Conversion factor for MMBtu to BTU.

Fuel Cost = Cost of fuel for your area in:

\$ per therm for Natural Gas

\$ per gallon for Propane Gas.

\$ per gallon for Heating Oil.

Btu Content:

100,000 Btu per therm for Natural Gas.

91,333 Btu per gallon for Propane Gas.

138,700 Btu per gallon for Heating Oil.

EAEU = Estimated Annual Electrical Usage in kW-hr from Step 7.

Electrical Cost = Cost of electricity in your area in \$ per kW-hr.

EAO, \$ _____ per year

This procedure can be repeated for other models of essentially the same size with different efficiencies to compare their Estimated Annual Operating Costs. Models with higher efficiency (AFUE) ratings will consume less fuel and cost less to operate, but generally have a higher purchase price and may have a higher installation cost. Therefore, there is a period of time, referred to as a "Payback Period", before the savings that result from the lower operating costs of a more efficient model makes up the difference in price of that furnace or boiler as compared to a less efficient model.

EXAMPLE: Assume you are intending to buy a new gas furnace and have calculated the Estimated Annual Operating Cost (EAO) using the procedure outlined above for two models of essentially the same size to meet your heating requirements but with different efficiency (AFUE) ratings.

	<u>Price of Furnace</u>	<u>AFUE</u>	<u>Estimated Annual Operating Cost</u>
Model A	\$600 Installed	78%	\$425.00
Model B	\$775 Installed	91%	\$365.00

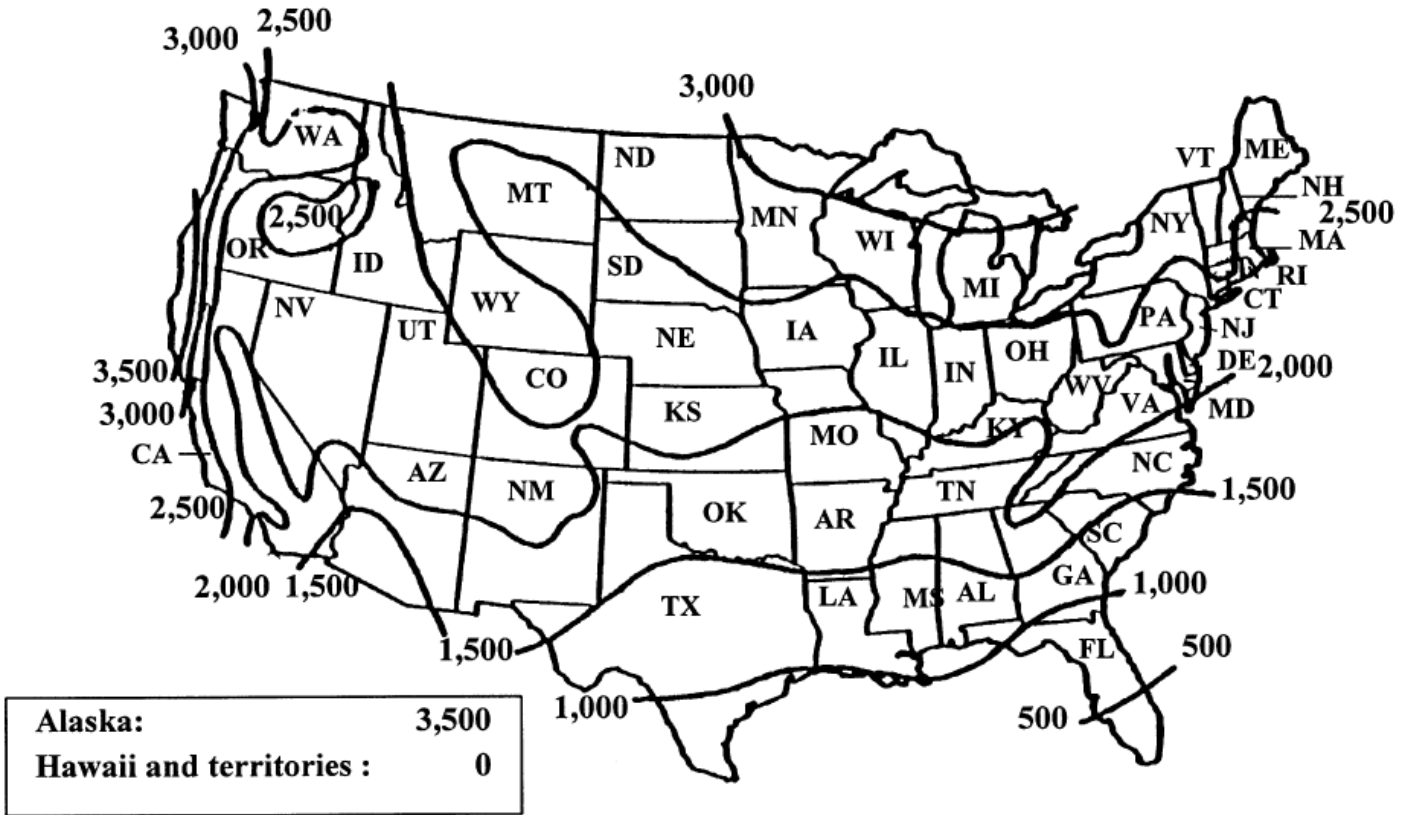
The additional cost of more efficient model (Model B) is: \$775 - \$600 = \$175 higher installation cost.

The estimated Annual Savings in Operating Costs for Model B, as compared to Model A is:

$$\$425 - \$365 = \$60 \text{ lower operating cost per year.}$$

The payback period is:

$$\$175 / \$60 \text{ per year} = 2.92 \text{ years} = 35 \text{ months}$$



This map is reasonably accurate for most parts of the United States but is necessarily generalized, and consequently not too accurate in mountainous regions, particularly in the rockies.

FIGURE 1

WORKSHEET

General instructions: After determining the size of the unit needed, refer to the listing of models of essentially the same size (heating capacity) and select models for comparison. Fill in the blocks with the listing information and perform the calculations required to determine the Estimated Annual Operating Costs.

	Model 1	Model 2	Model 3
Brand:			
Model:			
STEP 1. Heating Load Hours, HLH (Figure 1)			
STEP 2. Design Heating Requirements, DHR, in Btu/hr			
STEP 3. Record the following information from the Directory: Input, Btu/hr Heating Capacity, Btu/hr AFUE, % Ef, MMBtu Eae, kW-hr	Input _____ Heating Capacity _____ AFUE _____ Ef _____ Eae _____	Input _____ Heating Capacity _____ AFUE _____ Ef _____ Eae _____	Input _____ Heating Capacity _____ AFUE _____ Ef _____ Eae _____
STEP 4. Rated Design Heating Requirement, RDHR, from Table 1.			
STEP 5. Calculate the value AF: $AF = \frac{HLH \times DHR}{2080 \times RDHR}$			
STEP 6. Calculate Estimated Annual Fuel Usage, EAFU, in MMBtu's: $EAFU = AF \times Ef$			
STEP 7. Calculate Estimated Annual Electrical Usage, EAEU, in kW-hrs: $EAEU = AF \times Eae$			
STEP 8. Calculate Estimated Annual Operating Cost, EAOC, in \$: $EAOC = \frac{(EAFU \times 1,000,000 \times \text{Fuel Cost})}{\text{Btu Content}} + (EAEU \times \text{Electrical Cost})$ Natural Gas\$1.218 / therm @ 100,000 Btu / therm Propane.....\$1.87 / gallon @ 91,333 Btu / gal #2 Heating Oil\$2.22 / gallon @ 138,690 Btu / gal Electricity.....\$0.1065 / kWh @ 3,412 Btu / kWh Costs Based on FTC Representative Average Unit Costs of Energy (16 CFR Part 305, Appendix K). Use Local Energy Costs When Available			

INFORMATION ABOUT THE GAMA FURNACE AND BOILER EFFICIENCY CERTIFICATION PROGRAM**Testing Laboratory and Test Procedures**

Intertek Testing Services of Cortland, New York, has been retained as the program's designated independent testing laboratory responsible for conducting efficiency verification tests on furnaces and boilers. Randomly selected units of gas and oil furnaces and boilers are tested in accordance with the U. S. Department of Energy Test Procedures for Furnaces and Boilers as published in the May 12, 1997 Federal Register Notice and amended in the October 14, 1997 Federal Register Notice. Some boilers listed in the GAMA Directory have been tested under the boiler verification program sponsored and conducted by the Hydronics Institute (HI), a section of AHRI. Cross listing between the two programs is permitted.

Scope of the Program

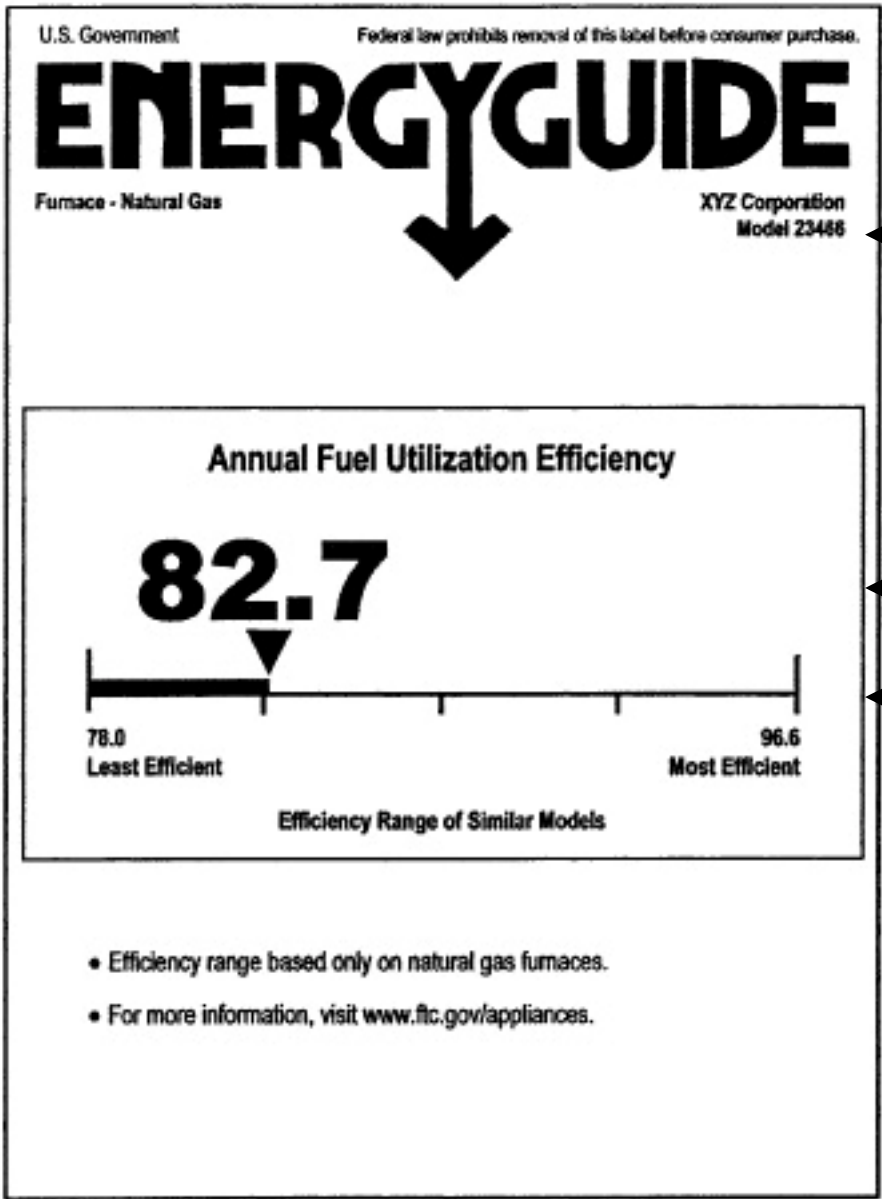
The program is open to all manufacturers of furnaces and boilers and to all firms that market private brand models. Participation in the program is voluntary, but all models of furnaces and boilers sold by a participant in the United States must be included in the Efficiency Certification Program. The furnaces and boilers covered by this program are defined by the following parameters:

- a) All furnaces, including manufactured housing (mobile home) furnaces, with input ratings less than 225,000 Btu/hr that use single-phase electric current or DC; and
- b) All boilers with input ratings less than 300,000 Btu/hr that use single-phase electric current or DC.

The Directory and the Federal Trade Commission Energy Guide Label Program

The Federal Trade Commission (FTC) requires that furnaces and boilers be labeled to show how the efficiency of these models compare to other comparable models. This FTC required EnergyGuide label also directs the consumer to a fact sheet or directory containing specific energy efficiency and operating cost information. This is the directory to which that statement refers. The sample FTC EnergyGuide label on the following page has explanations as to how the listings in this directory complement the information provided on the label.

CORRELATION OF CHAPTER 1 LISTINGS TO FTC “ENERGY GUIDE” LABEL



← The model number(s) for all models to which the label applies are listed. The model numbers is given in the first column of the listing.

← This is the measured AFUE of this model.

← This section shows how this model compares to all other similar models that use gas.

Note: the sample FTC “Energy Guide” label is shown for a gas furnace. A similar label is required for oil furnaces and gas and oil boilers. Also, some furnaces can be installed in one of the three positions (i.e. upflow, horizontal, or downflow). The number of positions that a particular furnace model can be installed will determine whether its label may have one, two, or three range bars.

SECTION 3 - GAS BOILERS

The gas boilers listed in this section are identified for installation as either indoor or outdoor.

Location

Indoor - a model installed indoors which uses indoor air for all combustion and ventilation air.

Outdoor - a weatherized model intended for installation out-of-doors.

Ranges of Comparability

The charts below show the lowest and highest efficiency ratings (i.e., ranges of comparability) for all models of gas boilers. The ranges of comparability are specified by the Federal Trade Commission to be used on the EnergyGuide labels for gas boilers.

GAS BOILERS (STEAM)		
Heating Capacity (Btu per hour)	Range of Energy Efficiency Ratings (AFUE)	
	Low	High
All Capacities	75.8	84.0

GAS BOILERS (HOT WATER)		
Heating Capacity (Btu per hour)	Range of Energy Efficiency Ratings (AFUE)	
	Low	High
All Capacities	80.0	96.0

The following charts provide more detailed information on the lowest and highest efficiency rating for various heating capacity ranges for each category of gas boiler listed in the Directory.

To use the charts, first go to the listing for the boiler of interest, i.e. indoor or outdoor. Then refer to the "Heating Capacity" column to the size required, i.e. 77,000 to 93,000 Btu per hour. The low and high rating of energy efficiency ratings of models in this size category are provided. Note that the specific model number is not listed, but can be determined by perusing the listings.

RANGES OF COMPARABILITY FOR GAS-FIRED BOILERS

TYPE: INDOOR (I)

Heating Capacity Comparability (Btu per hour)	Ranges of Energy Efficiency Ratings (AFUE)	
	Low	High
11,000 TO 16,000		*
17,000 TO 25,000	82.7	82.7
26,000 TO 42,000	80.0	85.3
43,000 TO 59,000	79.5	95.3
60,000 TO 76,000	78.0	95.2
77,000 TO 93,000	78.0	95.2
94,000 TO 110,000	80.0	95.4
111,000 TO 127,000	78.0	95.2
128,000 TO 144,000	79.6	95.5
145,000 TO 161,000	78.0	95.2
162,000 TO 178,000	80.0	92.7
179,000 TO 195,000	75.8	95.7
196,000 AND OVER	75.8	96.0

TYPE: OUTDOOR (O)

Ranges of Energy Efficiency Ratings (AFUE)	
Low	High
	*
	*
	*
	*
	*
	*
	*
	*
	*
	*
	*
	*
	*
	*

* No models of this type listed in this edition.

Model Number	Footnotes	Heat Cap Input MBTUH	Eae PE Watts	AFUE Ef MMBTU/yr	
AMERICAN STANDARD HEATING & COOLING PRODUCTS					
AGB					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
AGBWF090	1,2,6	90.0	76	20	127 76.0 83.6
AGBWF130	1,2,6	130.0	111	20	154 134.0 83.5
AGBWF173	1,2,6	173.0	145	20	149 172.0 83.4
AGBWF215	1,2,6	215.0	180	20	147 211.0 83.3
AGR					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
AGRWF130	1,6	130.0	110	92	194 114.0 84.3
AXEMAN-ANDERSON CO.					
OLYMPIA I GL SERIES					
Steel		NATURAL GAS		INDOOR	
GL-91	1,3,6	91.0	78		83.7
GL-119	1,2,3,6	119.0	99		83.8
PG SERIES					
Steel		NATURAL GAS		INDOOR	
74PG	1,3,6	136.0	114		82.5
BIASI, S.p.A. c/o QHT, INC.					
B-10 Gas Series					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
B-10-3	1,3,6	80.0	69		84.4
B-10-4	1,3,6	115.0	97		84.0
B-10-5	1,3,6	140.0	119		83.8
B-10-6	1,3,6	175.0	148		83.6
B-10-7	1,3,6	215.0	181		83.0
B-10-8	1,3,6	257.0	217		83.6
B-10-9	1,3,6	298.0	252		83.5
B-10-D					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
B-10-3-D	1,6	80.0	68		85.5
B-10-4-D	1,6	115.0	99		85.5
B-10-5-D	1,6	138.0	118		85.0
B-10-6-D	1,6	175.0	150		85.5
SG Gas Series					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
SG-5	1,3,6	224.0	189		83.8
BOSCH THERMOTECNOLOGY CORP.					
GB162					
Aluminum		NATURAL GAS		INDOOR	
GB162-80	1,4,6	290.0	260		93.8
Aluminum		PROPANE GAS		INDOOR	
GB162-80	1,4,6	270.0	242		93.9
Logano Classic GC124 II					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
GC124/3 II	1,2,6	74.0	62	0	87 76.0 84.0
GC124/4 II	1,2,6	103.0	87	0	78 95.0 84.0
GC124/5 II	1,2,6	133.0	112	0	85 133.0 84.0
Logano Classic GC124 SP					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
GC124/3 SP	2,6	74.0	62	0	86 78.0 80.9
GC124/4 SP	2,6	103.0	87	0	78 98.0 81.7
GC124/5 SP	2,6	133.0	112	0	85 136.0 82.5
LOGANO GA244 SERIES					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
GA244/37	1,2,6	156.0	128		85.0
GA244/44	1,2,6	182.0	148		85.0
GA244/53	1,2,6	220.0	181		84.8
GA244/62	1,2,6	259.0	212		84.6

STANDARD FOOTNOTES:

1. Electronic Ignition (No Standing Pilot)
2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
3. Power Combustion Or Power Vent
4. Condensing Type
5. Direct Vent (Includes Venting And Combustion Air Systems)

Model Number	Footnotes	Heat Cap Input MBTUH	Eae PE Watts	AFUE Ef MMBTU/yr	
Logano GB 142					
Aluminum		NATURAL OR PROPANE GAS		INDOOR	
GB 142 24	1,4,6	84.8	75	100	278 66.4 95.4
GB 142 30	1,4,6	106.0	95	100	320 99.9 94.1
GB 142 45	1,4,6	160.9	143	100	362 133.6 95.4
GB 142 60	1,4,6	214.8	193	100	412 184.1 95.5
Trade Name(s): Buderus					
G124X-DI SERIES					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
G124X-18DI	1,6	74.0	63	180	311 74.1 85.0
G124X-25DI	1,6	103.0	87	180	280 93.1 85.0
G124X-32DI	1,6	132.5	112	180	299 130.7 85.0
G124X-DP SERIES					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
G124X-18DP	2,6	74.0	61	180	309 77.7 81.5
G124X-25DP	2,6	103.0	86	180	282 97.6 81.5
G124X-32DP	2,6	132.5	110	180	266 117.5 81.5
G124X-II SERIES					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
G124X-18II	1,2,6	74.0	61	130	131 78.4 84.3
G124X-25II	1,2,6	103.0	86	130	119 94.6 84.2
G124X-32II	1,2,6	132.5	110	130	111 113.1 84.6
G124X-SP SERIES					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
G124X-18SP	2,6	74.0	61	130	131 78.4 81.5
G124X-25SP	2,6	103.0	86	130	119 98.3 81.5
G124X-32SP	2,6	132.5	110	130	112 118.1 81.5
G234X SERIES					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
G234X-38	1,2,6	160.0	130	130	124 152.0 84.0
G234X-45	1,2,6	187.0	154	130	120 171.1 84.0
G234X-55	1,2,6	228.0	188	130	119 209.2 84.0
G234X-64	1,2,6	266.0	219	130	121 274.4 84.0
LOGANO GA124 SERIES					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
GA124-17	1,6	70.0	59		85.2
GA124-23	1,6	94.0	79		85.1
GA124-30	1,6	123.0	104		85.0
BOYERTOWN FURNACE CO.					
SOLAIA SERIES					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
SL375	1,6	105.0	91		85.0
SL4100	1,6	140.0	122		85.1
SL5125	1,6	175.0	153		85.1
SL6150	1,6	210.0	184		85.1
SL7175	1,6	245.0	208		83.4
BURNHAM COMMERCIAL					
8H SERIES					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
805H	1,2,6	252.0	210		83.2
Trade Name(s): Burnham					
8B SERIES					
Cast Iron		NATURAL OR PROPANE GAS		INDOOR	
805B	1,2,6	264.0	212	0	128 259.3 80.1
BURNHAM HYDRONICS (U.S. BOILER CO., INC.)					
Alpine					
Stainless Steel		NATURAL OR PROPANE GAS		INDOOR	
ALP080	1,4,5,6	80.0	73	153	600 65.3 95.0
ALP105	1,4,5,6	105.0	96	153	600 98.7 95.0
ALP150	1,4,5,6	150.0	138	153	600 132.6 95.0

6. Hot Water
7. Steam
- # Rating Voluntarily Revised Since Last Directory
- * Rating Revised By Program Since Last Directory

		Heat Cap	Eae	AFUE			Heat Cap	Eae	AFUE
		MBTUH	kWh/yr	%			MBTUH	kWh/yr	%
Model	Input	PE	Ef		Model	Input	PE	Ef	
Number	Footnotes	MBTUH	Watts	MMBTU/yr	Number	Footnotes	MBTUH	Watts	MMBTU/yr
BURNHAM HYDRONICS (U.S. BOILER CO., INC.)									
Alpine									
Stainless Steel NATURAL OR PROPANE GAS INDOOR									
ALP210	1,4,5,6	210.0	194	153	600	183.1	95.0		
ALP285	1,4,5,6	285.0	265	153	600	216.9	95.0		
CHG									
Aluminum NATURAL OR PROPANE GAS INDOOR									
CHG150	1,4,5,6	150.0	135	70	170	154.0	93.1		
CHG225	1,4,5,6	225.0	202	100	192	220.0	94.2		
Freedom									
Aluminum NATURAL OR PROPANE GAS INDOOR									
FMC070	1,4,5,6	70.0	63	70	158	67.0	95.4		
FMC090	1,4,5,6	90.0	80	70	155	84.0	94.5		
FMC120	1,4,5,6	120.0	107	70	139	100.0	95.2		
FMC150	1,4,5,6	150.0	137	70	147	134.0	95.2		
PVG									
Cast Iron NATURAL OR PROPANE GAS INDOOR									
PVG-3	1,3,6	70.0	60	90	243	74.0	85.5		
PVG-4	1,3,6	105.0	90	90	243	111.0	85.4		
PVG-5	1,3,6	140.0	120	90	245	148.9	85.3		
PVG-6	1,3,6	175.0	150	90	247	187.8	85.2		
PVG-7	1,3,6	210.0	179	90	263	240.5	85.0		
PVG-8	1,3,6	245.0	208	90	230	244.9	84.5		
PVG-9	1,3,6	280.0	238	90	201	244.9	84.0		
REVOLUTION II SERIES									
Discontinued Models									
Cast Iron NATURAL OR PROPANE GAS INDOOR									
RVII3	1,4,5,6	62.0	57	100	245	52.4	91.2		
RVII4	1,4,5,6	96.0	88	100	264	87.4	90.8		
RVII5	1,4,5,6	130.0	118	100	276	123.8	90.1		
SCG									
Cast Iron NATURAL OR PROPANE GAS INDOOR									
SCG-3	1,5,6	70.0	60	90	243	74.0	85.5		
SCG-4	1,5,6	105.0	90	90	243	111.0	85.4		
SCG-5	1,5,6	140.0	120	90	245	148.9	85.3		
SCG-6	1,5,6	175.0	150	90	247	187.8	85.2		
SCG-7	1,5,6	210.0	179	90	263	240.5	85.0		
SCG-8	1,5,6	245.0	208	90	230	244.9	84.5		
SCG-9	1,5,6	280.0	238	90	201	244.9	84.0		
Trade Name(s): Burnham Hydronics									
2PV SERIES									
Discontinued Models									
Cast Iron NATURAL OR PROPANE GAS INDOOR									
203PV*I-	1,3,6	62.0	51	90	205	57.7	82.1		
204PV*I-	1,3,6	96.0	79	90	222	96.7	82.0		
205PV*I-	1,3,6	130.0	107	80	185	116.4	82.0		
206PV*I-	1,3,6	164.0	135	80	198	155.4	82.0		
INDEPENDENCE SERIES									
Cast Iron NATURAL GAS INDOOR									
IN3PVNI-	1,7	62.0	52	90	83	57.5	83.2		
IN4PVNI-	1,7	105.0	87	90	83	96.7	82.2		
IN5PVNI-	1,7	140.0	116	80	78	136.5	82.2		
IN6PVNI-	1,7	175.0	145	80	80	174.0	82.2		
Cast Iron NATURAL OR PROPANE GAS INDOOR									
IN3	2,7	62.0	51	0	0	60.0	80.0		
IN3L*C-	2,6	62.0	51	0	120	58.7	81.0		
IN3L*I	1,2,6	62.0	51	0	120	57.3	83.1		
IN4	2,7	105.0	87	0	0	100.3	80.0		
IN4L*C-	2,6	105.0	87	0	117	96.6	81.3		
IN4L*I	1,2,6	105.0	87	0	119	95.9	83.1		
IN5	2,7	140.0	115	0	0	139.6	80.3		
IN5L*C- 2,6 140.0 115 0 123 135.0 81.6									
IN5L*I 1,2,6 140.0 115 0 125 134.4 83.1									
IN6 2,7 175.0 144 0 0 158.9 80.6									
IN6L*C- 2,6 175.0 144 0 127 173.3 81.8									
IN6L*I 1,2,6 175.0 144 0 128 172.7 83.2									
IN7 2,7 210.0 173 0 0 197.9 80.9									
IN7L*C- 2,6 210.0 173 0 117 192.2 82.1									
IN7L*I 1,2,6 210.0 173 0 119 192.0 83.2									
IN8 2,7 245.0 202 0 0 260.4 80.0									
IN8L*C- 2,6 245.0 202 0 130 255.6 81.1									
IN8L*I 1,2,6 245.0 202 0 133 249.7 83.2									
IN9 2,7 280.0 231 0 0 260.8 80.3									
IN9L*C- 2,6 280.0 231 0 113 254.8 81.4									
IN9L*I 1,2,6 280.0 231 0 116 249.8 83.2									
MINUTEMAN II SERIES									
Cast Iron NATURAL GAS INDOOR									
MMII5105NI-	1,5,6	105.0	88	192	290	94.6	83.3		
MMII5140NI-	1,5,6	140.0	112	192	319	138.6	80.1		
Cast Iron NATURAL OR PROPANE GAS INDOOR									
MMII470*I-	1,5,6	70.0	58	192	261	56.6	83.3		
MMII4105*I-	1,5,6	105.0	84	192	302	98.5	80.2		
REVOLUTION SERIES									
Cast Iron NATURAL OR PROPANE GAS INDOOR									
RV3	1,5,6	62.0	55	130	225	53.6	88.0		
RV4	1,5,6	96.0	84	130	232	87.4	87.6		
RV5	1,5,6	130.0	114	130	238	122.4	87.4		
RV6	1,5,6	164.0	143	130	245	156.2	87.2		
RV7	1,5,6	190.0	166	130	250	183.0	87.0		
SERIES 2									
Cast Iron NATURAL OR PROPANE GAS INDOOR									
202	2,6	37.5	31	0	131	39.7	80.0		
202X*C-	2,6	50.0	42	0	97	40.1	80.2		
202X*I	1,2,6	50.0	42	0	99	38.1	83.2		
203	2,6	62.0	52	0	122	59.4	80.0		
204	2,6	96.0	80	0	132	99.0	80.1		
205	2,6	130.0	108	0	117	118.9	80.2		
206	2,6	164.0	136	0	124	158.4	80.3		
207	2,6	198.0	163	0	128	197.8	80.4		
208	2,6	232.0	191	0	115	221.1	80.4		
209	2,6	266.0	218	0	119	222.9	80.5		
210	2,6	299.0	244	0	104	257.4	80.7		
SERIES 2H									
Cast Iron NATURAL OR PROPANE GAS INDOOR									
203H*I	1,2,6	62.0	52	0	119	56.2	84.0		
204H*I	1,2,6	96.0	80	0	128	94.0	84.0		
205H*I	1,2,6	130.0	108	0	114	113.9	84.0		
206H*I	1,2,6	164.0	136	0	120	152.0	84.0		
SPACEMASTER SERIES									
Discontinued Models									
Cast Iron NATURAL GAS INDOOR									
SM3	1,5,6	70.0	58	130	213	57.3	82.5		
SM4	1,5,6	105.0	85	130	244	98.7	80.3		
SPIRIT SERIES									
Discontinued Models									
Cast Iron NATURAL OR PROPANE GAS INDOOR									
SP3	1,5,6	62.0	52	90	200	56.4	84.0		
SP4	1,5,6	96.0	81	90	216	94.5	84.0		
SP5	1,5,6	130.0	108	80	185	114.7	83.0		
SP6	1,5,6	164.0	137	80	196	153.2	83.0		
CAMUS HYDRONICS LTD.									
DynaMax									
Stainless Steel NATURAL OR PROPANE GAS INDOOR									

STANDARD FOOTNOTES:

1. Electronic Ignition (No Standing Pilot)
2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
3. Power Combustion Or Power Vent
4. Condensing Type
5. Direct Vent (Includes Venting And Combustion Air Systems)

6. Hot Water
7. Steam
- # Rating Voluntarily Revised Since Last Directory
- * Rating Revised By Program Since Last Directory

Model Number	Footnotes	Heat Cap Input MBTUH	Eae PE Watts	AFUE Ef MMBTU/yr	%	Model Number	Footnotes	Heat Cap Input MBTUH	Eae PE Watts	AFUE Ef MMBTU/yr	%
CAMUS HYDRONICS LTD.						CLIMATE ENERGY, LLC					
DynaMax						CE95M					
Stainless Steel NATURAL OR PROPANE GAS INDOOR						Aluminum NATURAL OR PROPANE GAS INDOOR					
DMH100	1,4,5,6	100.0	90		89.9	CE95-200M	1,4,5,6	200.0	190		95.0
DMH150	1,4,5,6	150.0	135		91.4	COLUMBIA BOILER COMPANY OF POTTSTOWN					
CARRIER CORPORATION						CEG SERIES					
Comfort 80						Cast Iron NATURAL OR PROPANE GAS INDOOR					
Cast Iron NATURAL GAS INDOOR						Cast Iron NATURAL OR PROPANE GAS INDOOR					
BS1AAN000075	2,7	75.0	62		81.1	CEG-75BID	1,2,7	75.0	61		81.0
BS2AAN000075	1,2,7	75.0	62		82.7	CEG-112BID	1,2,7	112.5	90		81.0
BS1AAN000112	2,7	112.5	91		82.0	CEG-150BID	1,2,7	150.0	120		81.0
BS2AAN000112	1,2,7	112.5	91		82.0	CEG-187BID	1,2,7	187.5	151		81.0
BS1AAN000150	2,7	150.0	122	0	141.7	CEG-225BID	1,2,7	225.0	181		81.0
BS2AAN000150	1,2,7	150.0	122	0	139.0	CEG-262BID	1,2,7	262.5	212		81.0
BS1AAN000187	2,7	187.5	153	0	180.9	CEG-300BID	1,2,7	299.0	243	0	257.0
BS2AAN000187	1,2,7	187.5	153	0	178.2	CSC SERIES					
BS1AAN000225	2,7	225.0	183	0	219.9	Cast Iron NATURAL OR PROPANE GAS INDOOR					
BS2AAN000225	1,2,7	225.0	183	0	217.2	CSC-3	1,5,6	50.0	44	80	228
BS1AAN000262	2,7	262.5	214	0	258.7	CSC-4	1,5,6	100.0	87	80	192
BS2AAN000262	1,2,7	262.5	214	0	256.0	CSC-5	1,5,6	140.0	122	80	192
BS1AAN000299	2,7	299.0	245	0	257.9	EMERALD GAS SERIES					
BS2AAN000299	1,2,7	299.0	245	0	255.3	Steel NATURAL GAS INDOOR					
Cast Iron NATURAL OR PROPANE GAS INDOOR						EMG 120					
BW1AA*000037	2,6	37.5	30	0	132	39.6	80.0	EMG 140			
BW2AA*000037	1,2,6	37.5	30	0	135	38.8	81.4	EMG 160			
BW1AA*000070	2,6	70.0	57	0	108	59.5	80.4	SOLAIA SERIES			
BW2AA*000070	1,2,6	70.0	57	0	110	59.5	81.6	Cast Iron NATURAL OR PROPANE GAS INDOOR			
BW1AA*000105	2,6	105.0	85	0	121	99.2	80.4	SL375			
BW2AA*000105	1,2,6	105.0	85	0	123	99.2	81.5	SL4100			
BW1AA*000140	2,6	140.0	113	0	127	139.1	80.3	SL5125			
BW2AA*000140	1,2,6	140.0	113	0	129	139.0	81.3	SL6150			
BW1AA*000175	2,6	175.0	142	0	117	159.3	80.2	SL7175			
BW2AA*000175	1,2,6	175.0	142	0	118	158.8	81.1	Trade Name(s): Bryant, Carrier, Day and Night, Payne			
BW1AA*000210	2,6	210.0	170	0	122	199.4	80.1	CDV SERIES			
BW2AA*000210	1,2,6	210.0	170	0	123	198.4	81.0	Cast Iron NATURAL OR PROPANE GAS INDOOR			
BW1AA*000245	2,6	245.0	198	0	136	259.5	80.0	CDV-38			
BW2AA*000245	1,2,6	245.0	198	0	137	257.7	80.8	CDV-50			
BW1AA*000280	2,6	280.0	226	0	119	260.1	80.0	CDV-75			
BW2AA*000280	1,2,6	280.0	226	0	120	257.5	80.7	CDV-100			
Cast Iron PROPANE GAS INDOOR						CDV-125					
BS1AAP000070	2,7	70.0	58	0	0	59.8	81.1	CDV-150			
BS2AAP000070	1,2,7	70.0	58	0	0	58.1	82.7	CDV-175			
BS1AAP000105	2,7	105.0	85	0	0	102.2	78.8	CDV-200			
BS2AAP000105	1,2,7	105.0	85	0	0	99.5	80.4	Trade Name(s): Columbia			
BS1AAP000140	2,7	140.0	114	0	0	141.7	79.2	CEG SERIES			
BS2AAP000140	1,2,7	140.0	114	0	0	139.0	80.6	Cast Iron NATURAL OR PROPANE GAS INDOOR			
BS1AAP000175	2,7	175.0	143	0	0	161.1	79.6	CEG-75BD			
BS2AAP000175	1,2,7	175.0	143	0	0	178.2	80.9	CEG-112BD			
BS1AAP000210	2,7	210.0	171	0	0	200.1	80.1	CEG-150BD			
BS2AAP000210	1,2,7	210.0	171	0	0	217.2	81.1	CEG-187BD			
BS1AAP000245	2,7	245.0	200	0	0	258.7	80.5	CEG-225BD			
BS2AAP000245	1,2,7	245.0	200	0	0	256.0	81.3	CEG-262BD			
BS1AAP000280	2,7	280.0	229	0	0	257.9	80.9	CEG-300BD			
BS2AAP000280	1,2,7	280.0	229	0	0	255.3	81.5	MCB SERIES			
Performance 84						Cast Iron NATURAL OR PROPANE GAS INDOOR					
Cast Iron NATURAL OR PROPANE GAS INDOOR						Cast Iron NATURAL OR PROPANE GAS INDOOR					
BW3AA*000042	1,6	42.5	36	180	269	36.9	84.4	MCB-38D			
BW3AA*000075	1,6	75.0	63	180	312	75.5	83.4				
BW3AA*000112	1,6	112.5	94	180	316	114.5	83.0				
BW3AA*000150	1,6	150.0	125	180	278	134.4	82.7				
BW3AA*000187	1,6	187.5	155	180	288	174.0	82.3				
BW3AA*000225	1,6	225.0	186	180	294	213.6	82.0				
Performance 90						Cast Iron NATURAL OR PROPANE GAS INDOOR					
Aluminum NATURAL OR PROPANE GAS INDOOR						Cast Iron NATURAL OR PROPANE GAS INDOOR					

STANDARD FOOTNOTES:

1. Electronic Ignition (No Standing Pilot)
2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
3. Power Combustion Or Power Vent
4. Condensing Type
5. Direct Vent (Includes Venting And Combustion Air Systems)

6. Hot Water
7. Steam
- # Rating Voluntarily Revised Since Last Directory
- * Rating Revised By Program Since Last Directory

Model Number	Footnotes	Heat Cap		Eae kWh/yr	AFUE %		Model Number	Footnotes	Heat Cap		Eae kWh/yr	AFUE %									
		Input MBTUH	PE Watts		Input MBTUH	PE Watts			Input MBTUH	PE Watts		Input MBTUH	PE Watts								
COLUMBIA BOILER COMPANY OF POTTSTOWN																					
Trade Name(s): Columbia																					
<u>MCB SERIES</u>																					
<u>Cast Iron</u>				<u>NATURAL OR PROPANE GAS</u>				<u>INDOOR</u>													
MCB-38ID	1,2,6	38.0	32	0	129	38.0	84.1	BSI138E	1,2,7	138.0	113	0	0	136.2	82.0						
MCB-50D	2,6,8	50.0	42	0	103	42.0	80.0	BSI138S	2,7	138.0	114	0	0	137.7	80.3						
MCB-50ID	1,2,6	50.0	42	0	98	38.0	84.1	BSI172E	1,2,7	172.0	142	0	0	155.6	82.1						
MCB-75D	2,6,8	75.0	63	0	129	82.0	80.0	BSI172S	2,7	172.0	142	0	0	157.0	80.6						
MCB-75ID	1,2,6	75.0	63	0	133	77.0	83.1	BSI207E	1,2,7	207.0	171	0	0	194.6	82.1						
MCB-100D	2,6,8	100.0	83	0	129	102.0	80.0	BSI207S	2,7	207.0	171	0	0	195.6	80.9						
MCB-100ID	1,2,6	100.0	83	0	125	96.0	83.0	BSI241E	1,2,7	241.0	199	0	0	252.7	82.2						
MCB-125D	2,6,8	125.0	104	0	124	122.0	80.0	BSI241S	2,7	241.0	200	0	0	253.4	80.0						
MCB-125ID	1,2,6	125.0	104	0	122	118.0	82.0	BSI276S	2,7	276.0	227	0	0	253.3	80.3						
MCB-150D	2,6,8	150.0	124	0	121	142.0	80.0	BSI276E	1,2,7	276.0	229	0	0	252.8	82.2						
MCB-150ID	1,2,6	150.0	124	0	132	153.0	83.0	<u>BIMINI</u>													
MCB-175D	2,6,8	175.0	143	0	118	162.0	80.0	<u>Aluminum</u>				<u>NATURAL OR PROPANE GAS</u>				<u>INDOOR</u>					
MCB-175ID	1,2,6	175.0	143	0	117	158.0	81.0	BWC070	1,4,5,6	70.0	63	70	158	67.0	95.4						
MCB-200D	2,6,8	200.0	165	0	129	202.0	80.0	BWC090	1,4,5,6	90.0	80	70	155	84.0	94.5						
MCB-200ID	1,2,6	200.0	165	0	127	195.0	81.9	BWC120	1,4,5,6	120.0	107	70	139	100.0	95.2						
MCB-225D	2,6,8	225.0	183	0	128	222.0	80.0	BWC150	1,4,5,6	150.0	135	70	170	154.0	93.1						
MCB-225ID	1,2,6	225.0	183	0	126	220.0	80.5	BWC151	1,4,5,6	150.0	137	70	147	134.0	95.2						
MCB-250D	2,6,8	250.0	205	0	135	262.0	80.0	BCW225	1,4,5,6	225.0	202	100	192	220.0	94.2						
MCB-250ID	1,2,6	250.0	205	0	134	258.0	80.5	<u>CABO II SERIES</u>													
MCB-275D	2,6,8	275.0	222	0	122	262.0	80.0	<u>Cast Iron</u>				<u>NATURAL OR PROPANE GAS</u>				<u>INDOOR</u>					
MCB-275ID	1,2,6	275.0	222	0	124	263.0	80.5	CWD060	1,5,6	60.0	51	196	269	55.0	85.1						
MCB-300D	2,6,8	299.0	243	0	112	262.0	80.0	CWD083	1,5,6	82.5	71	196	262	74.0	85.1						
MCB-300ID	1,2,6	299.0	243	0	115	266.0	80.5	CWD110	1,5,6	110.0	94	196	296	112.0	85.2						
Additional Footnotes																					
CROWN BOILER CO.																					
<u>ARUBA III</u>																					
<u>Cast Iron</u>				<u>NATURAL OR PROPANE GAS</u>				<u>INDOOR</u>													
AWI 037S	2,6	37.0	30	24	134	40.0	80.0	CWD138	1,5,6	137.5	118	196	277	130.0	85.2						
AWI 037E	1,2,6	37.0	30	31	166	38.0	82.3	CWD165	1,5,6	165.0	142	196	264	149.0	85.2						
AWI 061S	2,6	61.0	50	24	133	61.0	80.0	CWD193	1,5,6	192.5	165	196	283	187.0	85.2						
AWI 061E	1,2,6	61.0	50	31	152	58.0	82.6	CWD220	1,5,6	220.0	189	196	273	205.0	85.2						
AWI 095S	2,6	95.0	78	24	150	100.0	80.1	CWD245	1,5,6	245.0	211	196	289	243.0	85.3						
AWI 095E	1,2,6	95.0	78	31	164	97.0	82.3	<u>CAYMAN SERIES</u>													
AWI 128S	2,6	128.0	105	24	135	120.0	80.2	<u>Cast Iron</u>				<u>NATURAL OR PROPANE GAS</u>				<u>INDOOR</u>					
AWI 128E	1,2,6	128.0	105	31	147	117.0	82.0	CWI069S	2,6	69.0	57	0	0	59.7	81.0						
AWI 162S	2,6	162.0	132	24	145	160.0	80.3	CWI069E	1,2,6	69.0	58	0	0	57.4	83.1						
AWI 162E	1,2,6	162.0	132	31	155	156.0	81.7	CWI103E	1,2,6	103.0	86	0	0	95.9	83.1						
AWI 195S	2,6	195.0	159	24	136	180.0	80.4	CWI103S	2,6	103.0	86	0	0	97.9	81.3						
AWI 195E	1,2,6	195.0	159	31	146	176.0	81.4	CWI138E	1,2,6	138.0	115	0	0	134.4	83.1						
AWI 229S	2,6	229.0	186	24	142	220.0	80.4	CWI138S	2,6	138.0	115	0	0	135.9	81.6						
AWI 229E	1,2,6	229.0	186	31	152	216.0	81.2	CWI172E	1,2,6	172.0	144	0	0	153.5	83.2						
AWI 262S	2,6	262.0	212	24	148	259.0	80.5	CWI172S	2,6	172.0	144	0	0	155.1	81.8						
AWI 262E	1,2,6	262.0	212	31	257	259.0	80.9	CWI207E	1,2,6	207.0	173	0	0	192.0	83.2						
AWI 295S	2,6	295.0	238	24	131	259.0	80.7	CWI207S	2,6	207.0	173	0	0	193.1	82.1						
AWI 295E	1,2,6	295.0	238	31	141	258.0	80.6	CWI241E	1,2,6	241.0	201	0	0	249.7	83.2						
<u>BALI SERIES</u>																					
<u>Cast Iron</u>				<u>NATURAL OR PROPANE GAS</u>				<u>INDOOR</u>													
BWF061	1,6	61.0	51	130	242	57.0	83.3	CWI241S	2,6	241.0	202	0	0	251.6	81.1						
BWF095	1,6	95.0	78	130	261	95.0	83.1	CWI276E	1,2,6	276.0	230	0	0	249.7	83.2						
BWF128	1,6	128.0	106	130	234	115.0	82.8	CWI276S	2,6	276.0	232	0	0	250.0	81.4						
BWF162	1,6	162.0	134	130	248	154.0	82.5	<u>Maui</u>													
BWF195	1,6	195.0	161	130	232	174.0	82.3	<u>Copper</u>				<u>NATURAL OR PROPANE GAS</u>				<u>INDOOR</u>					
BWF229	1,6	229.0	189	130	243	214.0	82.0	MWC116	1,5,6	116.0	102	70	161	112.0	85.0						
<u>BERMUDA SERIES</u>																					
<u>Cast Iron</u>				<u>NATURAL OR PROPANE GAS</u>				<u>INDOOR</u>													
BSI069E	1,2,7	69.0	57	0	0	58.2	81.9	<u>TARTUGA SERIES</u>													
BSI069S	2,7	69.0	57	0	0	60.3	80.0	<u>Cast Iron</u>				<u>NATURAL OR PROPANE GAS</u>				<u>INDOOR</u>					
BSI103E	1,2,7	103.0	85	0	0	97.1	82.0	TWI061EN	1,2,6	61.0	51				83.0						
BSI103S	2,7	103.0	85	0	0	99.0	80.0	TWI095EN	1,2,6	95.0	79				83.0						
<u>DDEXTER BOILERS</u>																					
<u>Gas Series</u>																					
<u>Steel</u>				<u>NATURAL OR PROPANE GAS</u>				<u>INDOOR</u>													
Model 20		1,6	140.0	117			83.7	TWI128EN	1,2,6	128.0	106				83.0						
Model 25		1,6	200.0	167			83.6	TWI162EN	1,2,6	162.0	134				83.0						
<u>DUNKIRK BOILERS</u>																					
<u>Q95M</u>																					
<u>Aluminum</u>				<u>NATURAL OR PROPANE GAS</u>				<u>INDOOR</u>													
Q95-200M	1,4,5,6	200.0	190				95.0	<u>QUANTUM 90 SERIES</u>													

STANDARD FOOTNOTES:

- 1. Electronic Ignition (No Standing Pilot)
- 2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
- 3. Power Combustion Or Power Vent
- 4. Condensing Type
- 5. Direct Vent (Includes Venting And Combustion Air Systems)

- 6. Hot Water
- 7. Steam
- # Rating Voluntarily Revised Since Last Directory
- * Rating Revised By Program Since Last Directory

Model Number	Footnotes	Heat Cap Input MBTUH	PE Watts	Eac kWh/yr	Ef MMBTU/yr	AFUE %
DUNKIRK BOILERS						
Trade Name(s): Dunkirk						
PLYMOUTH XTREME						
Cast Iron		NATURAL OR PROPANE GAS		INDOOR		
PWX-3E	1,2,6	70.0	57	0	110	59.5 81.6
PWX-3V	2,6	70.0	57	0	108	59.5 80.4
PWX-4E	1,2,6	105.0	85	0	123	99.2 81.5
PWX-4V	2,6	105.0	85	0	121	99.2 80.4
PWX-5E	1,2,6	140.0	113	0	129	139.0 81.3
PWX-5V	2,6	140.0	113	0	127	139.1 80.3
PWX-6E	1,2,6	175.0	142	0	118	158.8 81.1
PWX-6V	2,6	175.0	142	0	117	159.3 80.2
PWX-7E	1,2,6	210.0	170	0	123	198.4 81.0
PWX-7V	2,6	210.0	170	0	122	199.4 80.1
PWX-8E	1,2,6	245.0	198	0	137	257.7 80.8
PWX-8V	2,6	245.0	198	0	136	259.5 80.0
PWX-9E	1,2,6	280.0	226	0	120	257.5 80.7
PWX-9V	2,6	280.0	226	0	119	260.1 80.0
XEB SERIES						
Cast Iron		NATURAL OR PROPANE GAS		INDOOR		
XEB-2	1,6	42.5	36	180	269	36.9 84.4
XEB-3	1,6	75.0	63	180	312	75.5 83.4
XEB-4	1,6	112.5	94	180	316	114.5 83.0
XEB-5	1,6	150.0	125	180	278	134.4 82.7
XEB-6	1,6	187.5	155	180	288	174.0 82.3
XEB-7	1,6	225.0	186	180	294	213.6 82.0
ECR INTERNATIONAL						
FW95M						
Aluminum		NATURAL OR PROPANE GAS		INDOOR		
FW95-200M	1,4,5,6	200.0	190			95.0
GENESIS BOILER COMPANY						
GSA Series 1						
Cast Iron		NATURAL GAS		INDOOR		
GSA-075-N-I	1,2,7	75.0	62	0	0	76.6 83.0
GSA-100-N-I	1,2,7	100.0	83	0	0	96.1 82.9
GSA-125-N-I	1,2,7	125.0	104	0	0	115.4 82.9
GSA-150-N-I	1,2,7	150.0	125	0	0	134.9 82.9
GSA-175-N-I	1,2,7	175.0	145	0	0	173.6 82.8
GSA-200-N-I	1,2,7	200.0	167	0	0	193.0 82.8
GSA-250-N-I	1,2,7	250.0	209	0	0	250.4 83.0
Trade Name(s): Genesis						
GSA SERIES						
Cast Iron		NATURAL GAS		INDOOR		
GSA-075N-S	2,7,8	75.0	62	0	0	76.6 81.0
GSA-100N-S	2,7,8	100.0	83	0	0	96.2 81.3
GSA-125N-S	2,7,8	125.0	104	0	0	115.4 81.5
GSA-150N-S	2,7,8	150.0	125	0	0	134.9 81.6
GSA-175N-S	2,7,8	175.0	145	0	0	173.6 81.9
GSA-200N-S	2,7,8	200.0	167	0	0	193.0 81.9
GSA-250N-S	2,7,8	250.0	209	0	0	251.4 82.0
Cast Iron		PROPANE GAS		INDOOR		
GSA-075L-S	2,7	75.0	63	0	0	75.1 82.9
GSA-100L-S	2,7	100.0	85	0	0	94.7 82.5
GSA-125L-S	2,7	125.0	106	0	0	113.0 83.2
GSA-150L-S	2,7	150.0	127	0	0	132.7 83.0
GSA-175L-S	2,7	175.0	146	0	0	169.8 83.7
GSA-200L-S	2,7	200.0	170	0	0	189.5 83.5
GSA-250L-S	2,7	250.0	211	0	0	248.6 82.7
GWA SERIES						
Cast Iron		NATURAL GAS		INDOOR		
GWA-052N-I	1,2,6	52.0	43	0	143	57.0 83.0
GWA-052N-S	2,6	52.0	43	0	141	59.0 80.2

Model Number	Footnotes	Heat Cap Input MBTUH	PE Watts	Eac kWh/yr	Ef MMBTU/yr	AFUE %
GWA-070N-I	1,2,6	70.0	58	0	108	58.0 82.2
GWA-070N-S	2,6	70.0	58	0	106	60.0 80.1
GWA-105N-I	1,2,6	105.0	88	0	119	96.0 82.9
GWA-105N-S	2,6	105.0	88	0	119	100.0 80.4
GWA-140N-I	1,2,6	140.0	117	0	126	135.0 82.5
GWA-140N-S	2,6	140.0	117	0	126	139.0 80.4
GWA-175N-I	1,2,6	175.0	145	0	130	175.0 82.2
GWA-175N-S	2,6	175.0	145	0	130	179.0 80.5
GWA-210N-I	1,2,6	210.0	174	0	121	195.0 81.8
GWA-210N-S	2,6	210.0	174	0	121	199.0 80.5
GWA-245N-I	1,2,6	245.0	202	0	135	255.0 81.4
GWA-245N-S	2,6	245.0	202	0	135	258.0 80.5
Cast Iron		PROPANE GAS		INDOOR		
GWA-052L-S	2,6	52.0	43	0	139	59.0 80.4
GWA-070L-S	2,6	70.0	58	0	104	60.0 80.7
GWA-105L-S	2,6	105.0	88	0	115	99.0 81.4
GWA-140L-S	2,6	140.0	117	0	122	138.0 81.5
GWA-175L-S	2,6	175.0	145	0	126	176.0 81.6
GWA-210L-S	2,6	210.0	174	0	118	196.0 81.7
GWA-245L-S	2,6	245.0	202	0	132	255.0 81.8
Additional Footnotes						
8. Rating is also approved for boilers with prefix "P" where indicated by (*).						
HEAT TRANSFER PRODUCTS INC.						
MUNCHKIN						
Stainless Steel		NATURAL OR PROPANE GAS		INDOOR		
T50M	1,4,5,6	50.0	46	43	442	75.0 95.1
80M	1,4,5,6	80.0	74	45	543	77.0 95.1
T80M	1,4,5,6	80.0	74	45	399	77.0 95.1
140M	1,4,5,6	140.0	129	52	467	132.0 95.1
199M	1,4,5,6	199.0	183	90	463	188.0 95.1
199VWH	1,4,5,6	199.0	183	90	406	188.0 92.0
399M	1,4,5,6	299.0	279	100	404	300.0 93.0
399VWH	1,4,5,6	299.0	279	100	404	300.0 93.0
HYDROTHERM						
DIVISION OF MESTEK, INC.						
HV Series						
Cast Iron		NATURAL OR PROPANE GAS		INDOOR		
HV-50-HSI	1,6	50.0	42	66	147	37.6 83.8
HV-75-HSI	1,6	75.0	63	66	197	75.2 84.3
HV-100-HSI	1,6	100.0	84	66	185	94.5 84.1
HV-125-HSI	1,6	125.0	104	66	180	114.5 83.4
HV-150-HSI	1,6	150.0	125	66	175	133.6 83.5
HW Series						
Cast Iron		NATURAL OR PROPANE GAS		INDOOR		
HW-50-CON	2,6	50.0	42	0	91	40.1 81.5
HW-50-INT	1,2,6	50.0	42	0	98	37.6 84.3
HW-75-CON	2,6	75.0	63	0	127	78.1 82.0
HW-75-INT	1,2,6	75.0	63	0	131	75.7 84.0
HW-100-CON	2,6	100.0	83	0	121	97.8 82.0
HW-100-INT	1,2,6	100.0	83	0	124	95.4 83.5
HW-125-CON	2,6	125.0	104	0	117	117.4 82.0
HW-125-INT	1,2,6	125.0	104	0	120	115.0 83.2
HW-150-CON	2,6	150.0	125	0	114	136.6 82.3
HW-150-INT	1,2,6	150.0	125	0	116	134.1 83.3
HW-175-CON	2,6	175.0	146	0	127	175.6 82.1
HW-175-INT	1,2,6	175.0	146	0	128	172.7 83.2
HW-200-CON	2,6	200.0	167	0	124	195.2 82.1
HW-200-INT	1,2,6	200.0	167	0	125	192.0 83.2
HW-225-CON	2,6	225.0	187	0	121	214.8 82.1
HW-225-INT	1,2,6	225.0	187	0	122	211.2 83.2
HW-250-CON	2,6	250.0	208	0	129	253.6 82.1
HW-250-INT	1,2,6	250.0	208	0	130	249.7 83.2
HW-275-CON	2,6	275.0	229	0	118	253.9 82.1
HW-275-INT	1,2,6	275.0	229	0	118	249.8 83.2

STANDARD FOOTNOTES:

- 1. Electronic Ignition (No Standing Pilot)
- 2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
- 3. Power Combustion Or Power Vent
- 4. Condensing Type
- 5. Direct Vent (Includes Venting And Combustion Air Systems)

- 6. Hot Water
- 7. Steam
- # Rating Voluntarily Revised Since Last Directory
- * Rating Revised By Program Since Last Directory

Model Number	Footnotes	Heat Cap MBTUH Input	PE Watts	Eae kWh/yr MMBTU/yr	AFUE %
HYDROTHERM					
DIVISION OF MESTEK, INC.					
KN					
Cast Iron NATURAL OR PROPANE GAS INDOOR					
KN-2	1,3,4,6	199.0	173		92.7
POWERVENT SERIES					
Discontinued Models					
Cast Iron PROPANE GAS INDOOR					
HI-85/50B	1,6	85.0	69 30	304	95.9 83.3
HI-125/75B	1,6	125.0	100 30	319	151.0 83.0
HI-165/100B	1,6	165.0	132 30	304	191.4 83.0
R-C SERIES					
Cast Iron NATURAL GAS INDOOR					
R-180C-PV	1,2,6	180.0	149	89	174.8 82.2
R-210C-PV	1,2,6	210.0	171	86	197.2 81.0
R-250C-PV	1,2,6	250.0	206	93	253.3 82.0
Cast Iron PROPANE GAS INDOOR					
R-180C-PV	1,2,6	180.0	151	82	172.6 83.2
R-210C-PV	1,2,6	200.0	166	85	194.6 82.0
R-250C-PV	1,2,6	235.0	195	92	250.2 83.0
VGA-B SERIES					
Cast Iron NATURAL GAS INDOOR					
VGA-175BS-CON	2,7	175.0	142	114	160.9 80.0
VGA-175BS-INT	1,2,7	175.0	142	117	157.7 81.3
VGA-200BS-CON	2,7	200.0	163	125	199.8 80.3
VGA-200BS-INT	1,2,7	200.0	163	128	196.5 81.6
VGA-250BS-CON	2,7	250.0	205	130	257.9 80.8
VGA-250BS-INT	1,2,7	250.0	205	132	254.0 82.1
Cast Iron PROPANE GAS INDOOR					
VGA-175BS-CON	2,7	175.0	143	113	159.9 80.5
VGA-175BS-INT	1,2,7	175.0	143	116	156.7 81.5
VGA-200BS-CON	2,7	200.0	164	124	198.6 80.8
VGA-200BS-INT	1,2,7	200.0	164	127	195.3 81.8
VGA-250BS-CON	2,7	250.0	207	129	256.4 81.3
VGA-250BS-INT	1,2,7	250.0	207	131	252.4 82.3
VS-B SERIES					
Cast Iron NATURAL GAS INDOOR					
VS-85BS-CON	2,7	85.0	69	110	81.5 79.5
VS-85BS-INT	1,2,7	85.0	69	119	77.8 81.8
VS-110BS-CON	2,7	110.0	89	109	101.8 79.5
VS-110BS-INT	1,2,7	110.0	89	116	98.0 81.3
VS-135BS-CON	2,7	135.0	110	108	121.3 80.0
VS-135BS-INT	1,2,7	135.0	110	113	117.4 81.5
VS-165BS-CON	2,7	165.0	134	119	160.7 80.1
VS-165BS-INT	1,2,7	165.0	134	124	157.3 81.2
Cast Iron PROPANE GAS INDOOR					
VS-85BS-CON	2,7	85.0	70	109	81.0 80.0
VS-85BS-INT	1,2,7	85.0	70	118	77.4 82.3
VS-110BS-CON	2,7	110.0	90	108	101.2 80.0
VS-110BS-INT	1,2,7	110.0	90	115	97.2 82.0
VS-135BS-CON	2,7	135.0	111	126	139.7 80.5
VS-135BS-INT	1,2,7	135.0	111	131	136.2 82.0
VS-165BS-CON	2,7	165.0	135	118	159.7 80.6
VS-165BS-INT	1,2,7	165.0	135	123	155.7 82.0
Trade Name(s): Hydrotherm					
HC-D SERIES					
Discontinued Models					
Cast Iron NATURAL GAS INDOOR					
HC-65D-PV	1,2,6	65.0	52 0	83	58.8 81.1
HC-85D-PV	1,2,6	85.0	69 0	85	78.6 80.8
HC-100D-PV	1,2,6	100.0	80 0	91	99.3 80.1
HC-120D-PV	1,2,6	120.0	96 0	91	119.4 80.0

Model Number	Footnotes	Heat Cap MBTUH Input	PE Watts	Eae kWh/yr MMBTU/yr	AFUE %
HC-145D-PV	1,2,6	145.0	118 0	87	137.7 81.0
HC-165D-PV	1,2,6	165.0	132 0	88	159.5 80.0
Cast Iron PROPANE GAS INDOOR					
HC-65D-PV	1,2,6	65.0	52 0	81	57.9 82.1
HC-85D-PV	1,2,6	85.0	69 0	84	77.7 81.8
HC-100D-PV	1,2,6	100.0	80 0	90	98.1 81.1
HC-120D-PV	1,2,6	120.0	96 0	90	117.9 81.0
HC-145D-PV	1,2,6	145.0	118 0	86	136.1 82.0
HC-165D-PV	1,2,6	165.0	132 0	87	157.6 81.0
HC-E SERIES					
Discontinued Models					
Cast Iron NATURAL GAS INDOOR					
HC-65E-V	2,6	65.0	53 0	112	59.9 80.4
HC-85E-V	2,6	85.0	70 0	114	78.6 81.6
HC-100E-V	2,6	100.0	82 0	123	98.2 81.5
HC-125E-V	2,6	125.0	102 0	119	118.7 81.0
HC-145E-V	2,6	145.0	120 0	118	136.0 82.5
HC-165E-V	2,6	165.0	136 0	121	157.6 81.3
Cast Iron PROPANE GAS INDOOR					
HC-65E-V	2,6	65.0	53 0	110	59.2 81.4
HC-85E-V	2,6	85.0	70 0	113	77.7 82.6
HC-100E-V	2,6	100.0	83 0	121	97.1 82.5
HC-125E-V	2,6	125.0	103 0	118	117.2 82.0
HC-145E-V	2,6	145.0	121 0	117	134.4 83.5
HC-165E-V	2,6	165.0	136 0	120	155.7 82.3
HYDRO-PULSE					
Discontinued Models					
Steel NATURAL GAS INDOOR					
AM-100	1,4,5,6,8	100.0	90 12	77	88.2 90.4
AM-150	1,4,5,6,8	150.0	135 12	82	141.0 90.6
AM-300	1,4,5,6,8	299.0	270 12	67	231.6 90.1
Steel PROPANE GAS INDOOR					
AM-100	1,4,5,6,8	90.0	82 12	85	97.8 90.5
AM-150	1,4,5,6,8	135.0	123 12	80	137.7 90.1
POWERVENT SERIES					
Discontinued Models					
Cast Iron NATURAL GAS INDOOR					
HI-85/50B	1,6	85.0	69 30	300	94.5 82.5
ID-85A	1,6	85.0	70 30	149	79.0 80.5
HI-125/75B	1,6	125.0	100 30	323	152.8 82.5
ID-125A	1,6	125.0	102 30	153	119.4 80.1
HI-165/100B	1,6	165.0	132 30	304	191.6 82.5
ID-165A	1,6	165.0	136 30	157	157.4 81.1
Cast Iron PROPANE GAS INDOOR					
ID-85A	1,6	85.0	71 30	174	77.9 81.6
ID-125A	1,6	125.0	103 30	179	118.0 81.0
ID-165A	1,6	165.0	138 30	179	155.8 81.9
SABRE EW SERIES					
Discontinued Models					
Cast Iron NATURAL GAS INDOOR					
EW-65-CON	2,6	65.0	53 0	112	59.9 80.4
EW-65-INT	1,2,6	65.0	53 0	83	58.8 81.4
EW-85-CON	2,6	85.0	70 0	114	78.6 81.6
EW-85-INT	1,2,6	85.0	70 0	85	78.6 82.6
EW-100-CON	2,6	100.0	82 0	123	98.2 81.5
EW-100-INT	1,2,6	100.0	82 0	91	99.3 82.5
EW-125-CON	2,6	125.0	102 0	119	118.7 81.0
EW-125-INT	1,2,6	125.0	102 0	91	119.4 82.0
EW-145-CON	2,6	145.0	120 0	118	136.0 82.5
EW-145-INT	1,2,6	145.0	120 0	87	137.7 83.5
EW-165-CON	2,6	165.0	136 0	121	157.6 81.3
EW-165-INT	1,2,6	165.0	136 0	88	159.5 82.3

STANDARD FOOTNOTES:

1. Electronic Ignition (No Standing Pilot)
2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
3. Power Combustion Or Power Vent
4. Condensing Type
5. Direct Vent (Includes Venting And Combustion Air Systems)

6. Hot Water
7. Steam
- # Rating Voluntarily Revised Since Last Directory
- * Rating Revised By Program Since Last Directory

Model Number	Footnotes	Heat Cap Input MBTUH	Eae PE Watts	Ef Ef MMBTU/yr	AFUE %
HYDROTHERM					
DIVISION OF MESTEK, INC.					
Trade Name(s): Hydrotherm					
SABRE EW SERIES					
Discontinued Models					
Cast Iron			PROPANE GAS		INDOOR
EW-65-CON	2,6	65.0	53	0	110 59.2 81.4
EW-65-INT	1,2,6	65.0	53	0	81 57.9 82.4
EW-85-CON	2,6	85.0	70	0	113 77.7 82.6
EW-85-INT	1,2,6	85.0	70	0	84 77.7 83.6
EW-100-CON	2,6	100.0	82	0	121 97.1 82.5
EW-100-INT	1,2,6	100.0	82	0	90 98.1 83.5
EW-125-INT	1,2,6	125.0	102	0	90 117.9 83.0
EW-125-CON	2,6	125.0	103	0	118 117.2 82.0
EW-145-INT	1,2,6	145.0	120	0	86 136.1 84.5
EW-145-CON	2,6	145.0	121	0	117 134.4 83.5
EW-165-CON	2,6	165.0	136	0	120 155.7 82.3
EW-165-INT	1,2,6	165.0	136	0	87 157.6 83.3
SABRE FX SERIES					
Discontinued Models					
Cast Iron			NATURAL GAS		INDOOR
FX-70	1,6	70.0	61	0	324 72.8 86.5
FX-105	1,6	105.0	91	0	273 91.7 86.3
FX-140	1,6	140.0	121	0	287 128.9 86.2
FX-175	1,6	175.0	151	0	296 166.2 86.1
FX-210	1,6	210.0	181	0	288 184.9 86.1
Cast Iron			PROPANE GAS		INDOOR
FX-70	1,5,6	70.0	61	0	324 72.8 86.5
FX-105	1,5,6	105.0	91	0	273 91.7 86.3
FX-140	1,5,6	140.0	121	0	287 128.9 86.2
FX-175	1,5,6	175.0	151	0	296 166.2 86.1
FX-210	1,5,6	210.0	181	0	288 184.9 86.1
Additional Footnotes					
8. Pulse combustion.					
INTERNATIONAL COMFORT PRODUCTS, LLC (USA)					
GSA SERIES					
Cast Iron			NATURAL GAS		INDOOR
GSA-075N-S	2,7	75.0	62		81.0
GSA-100N-S	2,7	100.0	83		81.3
GSA-125N-S	2,7	125.0	104		81.5
GSA-150N-S	2,7	150.0	125		81.6
GSA-175N-S	2,7	175.0	145		81.9
GSA-200N-S	2,7	200.0	167		81.9
GSA-250N-S	2,7	250.0	209		82.0
Cast Iron			PROPANE GAS		INDOOR
GSA-075L-S	2,7	75.0	63		82.9
GSA-100L-S	2,7	100.0	85		82.5
GSA-125L-S	2,7	125.0	106		83.2
GSA-150L-S	2,7	150.0	127		83.0
GSA-175L-S	2,7	175.0	146		83.7
GSA-200L-S	2,7	200.0	170		83.5
GSA-250L-S	2,7	250.0	211		82.7
GWA SERIES					
Cast Iron			NATURAL GAS		INDOOR
GWA-052N-I	1,2,6	52.0	43		83.0
GWA-052N-S	2,6	52.0	43		80.2
GWA-070N-I	1,2,6	70.0	58		82.2
GWA-070N-S	2,6	70.0	58		80.1
GWA-105N-I	1,2,6	105.0	88		82.9
GWA-105N-S	2,6	105.0	88		80.4
GWA-140N-I	1,2,6	140.0	117		82.5
GWA-140N-S	2,6	140.0	117		80.4

Model Number	Footnotes	Heat Cap Input MBTUH	Eae PE Watts	Ef Ef MMBTU/yr	AFUE %
GWA-175N-I	1,2,6	175.0	145		82.2
GWA-175N-S	2,6	175.0	145		80.5
GWA-210N-I	1,2,6	210.0	174		81.8
GWA-210N-S	2,6	210.0	174		80.5
GWA-245N-I	1,2,6	245.0	202		81.4
GWA-245N-S	2,6	245.0	202		80.5
Cast Iron					
Cast Iron			PROPANE GAS		INDOOR
GWA-052L-S	2,6	52.0	43		80.4
GWA-070L-S	2,6	70.0	58		80.7
GWA-105L-S	2,6	105.0	88		81.4
GWA-140L-S	2,6	140.0	117		81.5
GWA-175L-S	2,6	175.0	145		81.6
GWA-210L-S	2,6	210.0	174		81.7
GWA-245L-S	2,6	245.0	202		81.8
LAARS HEATING SYSTEMS COMPANY					
ENDURANCE SERIES					
Copper			NATURAL OR PROPANE GAS		INDOOR
EBP110	1,5,6	107.0	94		85.5
EDN110	1,5,6	107.0	94		85.5
EDP110	1,5,6	107.0	94		85.5
EBP175	1,5,6	178.6	155		86.1
EDN175	1,5,6	178.6	155		86.1
EDP175	1,5,6	178.6	155		86.1
Mini Therm Series JVI					
Copper			NATURAL GAS		INDOOR
JVH50NC	1,6	50.0	41		83.4
JVH75NC	1,6	75.0	62		83.2
JVH100NC	1,6	100.0	82		82.4
JVH125NC	1,6	125.0	102		82.4
JVH160NC	1,6	160.0	131		82.3
JVH225NC	1,6	225.0	184		82.2
Copper			PROPANE GAS		INDOOR
JVH50PC	1,6	50.0	42		84.0
JVH75PC	1,6	75.0	63		84.0
JVH100PC	1,6	100.0	83		84.0
JVH125PC	1,6	125.0	103		82.8
JVH160PC	1,6	160.0	132		82.4
JVH225PC	1,6	225.0	187		83.2
MINI-THERM II					
Copper			NATURAL OR PROPANE GAS		INDOOR
JVS 100*K	2,6	100.0	84		82.0
JVS 125*K	2,6	125.0	105		81.9
JVS 160*K	2,6	160.0	134		80.2
JVS 225*K	2,6	225.0	189		81.8
Pennant					
Copper			NATURAL OR PROPANE GAS		INDOOR
PNCH0200***C	1,5,6	199.9	172 185 321	186.0	85.5
Trade Name(s): Heatmaker, Laars					
9600 SERIES					
Copper			NATURAL GAS		INDOOR
CB-M2-250	1,4,5,6	250.0	223 190 315	232.2	88.1
Copper			NATURAL OR PROPANE GAS		INDOOR
CB-M2-150	1,4,5,6	150.0	135 156 286	140.5	88.6
CB-M2-175	1,4,5,6	175.0	158 170 290	158.5	88.7
CB-M2-200	1,4,5,6	199.9	180 180 321	194.8	88.5
Copper			PROPANE GAS		INDOOR
CB-M2-250	1,4,5,6	240.0	214 190 313	235.0	88.1
Trade Name(s): Laars Summit					
Summit Series					
Copper			NATURAL OR PROPANE GAS		INDOOR
SMB-200	1,4,5,6,11	200.0	179 180 300	193.8	90.5
SMB-250	1,4,5,6,11	250.0	218 190 293	229.0	90.5
Trade Name(s): Laars, Mini-Therm					

STANDARD FOOTNOTES:

1. Electronic Ignition (No Standing Pilot)
2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
3. Power Combustion Or Power Vent
4. Condensing Type
5. Direct Vent (Includes Venting And Combustion Air Systems)

6. Hot Water
7. Steam
- # Rating Voluntarily Revised Since Last Directory
- * Rating Revised By Program Since Last Directory

Model Number	Footnotes	Heat Cap Input MBTUH	Eae PE Watts	AFUE Ef MMBTU/yr	Model Number	Footnotes	Heat Cap Input MBTUH	Eae PE Watts	AFUE Ef MMBTU/yr
LAARS HEATING SYSTEMS COMPANY					PHO250CP01KB 2,6,14,15 250.0 208 0 265 257.0 81.6				
Trade Name(s): Laars, Mini-Therm					PHO250CP12CB 1,2,6 250.0 208 0 264 256.0 82.2				
MIGHTY THERM SERIES					PHO250CP12KB 1,2,6,14,15 250.0 208 0 265 253.0 82.0				
Copper PROPANE GAS INDOOR					<u>Additional Footnotes</u>				
HH0175CP01CB	2,6	175.0	145 0	114 159.0 81.9	9. Combination boiler, space heating and domestic hot water heating.				
HH0250CP01CB	2,6	250.0	208 0	130 256.0 81.9	11. Modulating.				
MINI-THERM II					14. With Laars Part No.: 107303 Pump Delay Package.				
Copper NATURAL GAS INDOOR					15. Two-Stage input (75% minimum input).				
JVS050ND*	1,2,6	50.0	42 0	98 38.0 84.4	LENNOX INDUSTRIES, INC.				
JVT050ND*	2,6	50.0	42 0	91 41.0 80.2	Trade Name(s): Conservator 90				
JVS075ND*	1,2,6	75.0	63 0	131 76.0 84.0	Conservator GWB9 Series				
JVT075ND*	2,6	75.0	63 0	128 80.0 80.5	Aluminum NATURAL OR PROPANE GAS INDOOR				
JVS100ND*	1,2,6	100.0	83 0	123 95.0 84.0	GWB9-050IH	1,4,5,6	50.0	45 100	195 52.6 90.0
JVT100ND*	2,6	100.0	83 0	121 99.0 80.7	GWB9-075IH	1,4,5,6	75.0	68 100	174 70.5 90.0
JVS125ND*	1,2,6	125.0	104 0	120 115.0 83.0	GWB9-100IH	1,4,5,6	100.0	90 100	164 88.4 90.0
JVT125ND*	2,6	125.0	104 0	117 119.0 80.7	Trade Name(s): Lennox				
JVS160ND*	1,2,6	160.0	133 0	125 154.0 83.0	Conservator GSB8-E Series				
JVT160ND*	2,6	160.0	133 0	123 157.0 81.0	Cast Iron NATURAL GAS INDOOR				
JVS225ND*	1,2,6	225.0	186 0	122 211.0 83.2	GSB8-075E	1,2,7	75.0	62	82.7
JVT225ND*	2,6	225.0	186 0	121 215.0 81.5	GSB8-112E	1,2,7	112.5	92 0	0 99.5 80.4
Copper PROPANE GAS INDOOR					GSB8-150E	1,2,7	150.0	123 0	0 139.0 80.6
JVS050PD*	1,2,6	50.0	43 0	97 37.0 85.4	GSB8-187E	1,2,7	187.5	154 0	0 178.2 80.9
JVT050PD*	2,6	50.0	43 0	91 40.0 82.0	GSB8-225E	1,2,7	225.0	185 0	0 217.2 81.1
JVS075PD*	1,2,6	75.0	64 0	129 75.0 85.2	GSB8-262E	1,2,7	262.5	215 0	0 256.0 81.3
JVT075PD*	2,6	75.0	64 0	126 77.0 82.5	GSB8-299E	1,2,7	299.0	245 0	0 255.3 81.5
JVS100PD*	1,2,6	100.0	85 0	122 94.0 85.0	Cast Iron PROPANE GAS INDOOR				
JVT100PD*	2,6	100.0	85 0	119 96.0 82.7	GSB8-070E	1,2,7	70.0	58	82.7
JVS125PD*	1,2,6	125.0	106 0	118 113.0 84.5	GSB8-105E	1,2,7	105.0	85 0	0 99.5 80.4
JVT125PD*	2,6	125.0	106 0	116 116.0 82.7	GSB8-140E	1,2,7	140.0	114 0	0 139.0 80.6
JVS160PD*	1,2,6	160.0	135 0	122 151.0 84.8	GSB8-175E	1,2,7	175.0	143 0	0 178.2 80.9
JVT160PD*	2,6	160.0	135 0	121 153.0 83.0	GSB8-210E	1,2,7	210.0	171 0	0 217.2 81.1
JVS225PD*	1,2,6	225.0	190 0	119 207.0 85.0	GSB8-245E	1,2,7	245.0	200 0	0 256.0 81.3
JVT225PD*	2,6	225.0	190 0	118 210.0 83.5	GSB8-280E	1,2,7	280.0	229 0	0 255.3 81.5
Trade Name(s): Mighty Therm					Conservator GSB8-S Series				
MIGHTY THERM SERIES					Cast Iron NATURAL GAS INDOOR				
Copper NATURAL GAS INDOOR					GSB8-075S	2,7	75.0	62	81.1
HH0175CN01CB	2,6	175.0	142 0	116 162.0 80.4	GSB8-112S	2,7	112.5	92 0	0 102.2 82.0
HH0175CN01KB	2,6,15	175.0	142 0	116 162.0 80.0	GSB8-150S	2,7	150.0	123 0	0 141.7 82.0
HH0175CN12KB	1,2,6,9	175.0	142 0	118 156.0 82.0	GSB8-187S	2,7	187.5	154 0	0 180.9 82.0
PH0175CN01KB	2,6,14,15	175.0	142 0	235 161.0 80.1	GSB8-225S	2,7	225.0	185 0	0 219.9 82.0
PH0175CN12KB	1,2,6,14,15	175.0	142 0	238 156.0 82.0	GSB8-262S	2,7	262.5	215 0	0 258.7 82.0
HH0175CN12CB	1,2,6	175.0	143 0	117 156.0 82.0	GSB8-299S	2,7	299.0	245 0	0 257.9 82.0
PH0175CN01CB	2,6,14	175.0	143 0	234 161.0 80.6	Cast Iron PROPANE GAS INDOOR				
PH0175CN12CB	1,2,6,14	175.0	143 0	237 156.0 82.0	GSB8-070S	2,7	70.0	58	81.1
HH0250CN01KB	2,6,15	250.0	203 0	133 261.0 80.0	GSB8-105S	2,7	105.0	85 0	0 102.2 78.8
HH0250CN12KB	1,2,6,15	250.0	203 0	134 254.0 82.0	GSB8-140S	2,7	140.0	114 0	0 141.7 79.2
PH0250CN01KB	2,6,14,15	250.0	203 0	269 260.0 80.1	GSB8-175S	2,7	175.0	143 0	0 161.1 79.6
PH0250CN12KB	1,2,6,14,15	250.0	203 0	272 253.0 82.0	GSB8-210S	2,7	210.0	171 0	0 200.1 80.1
HH0250CN01CB	2,6	250.0	204 0	132 261.0 80.4	GSB8-245S	2,7	245.0	200 0	0 258.7 80.5
HH0250CN12CB	1,2,6	250.0	204 0	133 253.0 82.0	GSB8-280S	2,7	280.0	229 0	0 257.9 80.9
PH0250CN01CB	2,6,14	250.0	204 0	268 259.0 80.6	Conservator GWB8-E Series				
PH0250CN12CB	1,2,6,14	250.0	204 0	271 253.0 82.0	Cast Iron NATURAL OR PROPANE GAS INDOOR				
HH0250CN22CN	1,2,6,14	250.0	206	82.0	GWB8-037E	1,2,6	37.5	30 0	135 38.8 81.4
Copper PROPANE GAS INDOOR					GWB8-070E	1,2,6	70.0	57 0	108 58.4 81.6
HH0175CP01KB	2,6,15	175.0	145 0	114 160.0 81.5	GWB8-105E	1,2,6	105.0	85 0	121 97.7 81.5
HH0175CP12CB	1,2,6	175.0	145 0	114 156.0 82.1	GWB8-140E	1,2,6	140.0	113 0	128 137.3 81.3
HH0175CP12KB	1,2,6,15	175.0	145 0	114 156.0 82.0	GWB8-175E	1,2,6	175.0	142 0	117 157.3 81.1
PH0175CP01CB	2,6,14	175.0	145 0	230 158.0 82.0	GWB8-210E	1,2,6	210.0	170 0	122 197.1 81.0
PH0175CP01KB	2,6,14,15	175.0	145 0	231 159.0 81.6	GWB8-245E	1,2,6	245.0	198 0	136 256.9 80.8
PH0175CP12CB	1,2,6	175.0	145 0	230 156.0 82.2	GWB8-280E	1,2,6	280.0	226 0	120 257.5 80.7
PH0175CP12KB	1,2,6,14,15	175.0	145 0	231 156.0 82.0	Conservator GWB8-IE Series				
HH0250CP01KB	2,6,15	250.0	208 0	131 257.0 81.5	Cast Iron NATURAL OR PROPANE GAS INDOOR				
HH0250CP12CB	1,2,6	250.0	208 0	130 256.0 82.1	GWB8-042IE	1,6	42.5	36 180	269 36.9 84.4
HH0250CP12KB	1,2,6,15	250.0	208 0	131 254.0 82.0	GWB8-075IE	1,6	75.0	63 180	312 75.5 83.4
PH0250CP01CB	2,6,14	250.0	208 0	264 256.0 82.0					

STANDARD FOOTNOTES:

1. Electronic Ignition (No Standing Pilot)
2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
3. Power Combustion Or Power Vent
4. Condensing Type
5. Direct Vent (Includes Venting And Combustion Air Systems)

6. Hot Water
7. Steam
- # Rating Voluntarily Revised Since Last Directory
- * Rating Revised By Program Since Last Directory

Model Number	Footnotes	Heat Cap	Eae	AFUE			
		MBTUH	kWh/yr	%	%		
Input	PE						
MBTUH	Watts	MMBTU/yr					
LENNOX INDUSTRIES, INC.							
Trade Name(s): Lennox							
Conservator GWB8-IE Series							
Cast Iron		NATURAL OR PROPANE GAS		INDOOR			
GWB8-112IE	1,6	112.5	94	180	316	114.5	83.0
GWB8-150IE	1,6	150.0	125	180	278	134.4	82.7
GWB8-187IE	1,6	187.5	155	180	288	174.0	82.3
GWB8-225IE	1,6	225.0	186	180	294	213.6	82.0
Conservator GWB8-S Series							
Cast Iron		NATURAL OR PROPANE GAS		INDOOR			
GWB8-037S	2,6	37.5	30	0	132	39.6	80.0
GWB8-070S	2,6	70.0	57	0	108	59.5	80.4
GWB8-105S	2,6	105.0	85	0	121	99.2	80.4
GWB8-140S	2,6	140.0	113	0	127	139.1	80.3
GWB8-175S	2,6	175.0	142	0	117	159.3	80.2
GWB8-210S	2,6	210.0	170	0	122	199.4	80.1
GWB8-245S	2,6	245.0	198	0	136	259.5	80.0
GWB8-280S	2,6	280.0	226	0	119	260.1	80.0
LOCHINVAR CORPORATION							
EFFICIENCY + SERIES							
Copper		PROPANE GAS		INDOOR			
EBL150	1,5,6	150.0	129	357	301	134.2	83.2
EBL200	1,5,6	200.0	170	357	326	195.3	83.1
EBL250	1,5,6	250.0	218	357	326	244.4	83.2
Knight		NATURAL GAS		INDOOR			
KBN080	1,4,5,6	80.0	72	220	1167	68.1	95.3
KBN105	1,4,5,6	105.0	94	220	1386	100.3	95.4
KBN150	1,4,5,6	150.0	135	220	1572	137.5	95.5
KBN210	1,4,5,6	210.0	190	220	1329	190.8	95.7
KBN285	1,4,5,6	285.0	260	220	1046	222.9	96.0
Stainless Steel		PROPANE GAS		INDOOR			
KBL080	1,4,5,6	80.0	72	220	1167	68.1	95.3
KBL105	1,4,5,6	105.0	94	220	1386	100.3	95.4
KBL150	1,4,5,6	150.0	135	220	1572	137.5	95.5
KBL210	1,4,5,6	210.0	190	220	1329	190.8	95.7
KBL285	1,4,5,6	285.0	260	220	1046	222.9	96.0
Knight Wall Mount		NATURAL GAS		INDOOR			
WBN050	1,4,5,6	50.0	45	220	1443	51.0	95.3
WBN080	1,4,5,6	80.0	72	220	1167	68.1	95.3
WBN105	1,4,5,6	105.0	94	220	1386	100.3	95.4
WBN150	1,4,5,6	150.0	135	220	1572	137.5	95.5
WBN210	1,4,5,6	210.0	190	220	1329	190.8	95.7
Stainless Steel		PROPANE GAS		INDOOR			
WBL050	1,4,5,6	50.0	45	220	1443	51.0	95.3
WBL080	1,4,5,6	80.0	72	220	1167	68.1	95.3
WBL105	1,4,5,6	105.0	94	220	1386	100.3	95.4
WBL150	1,4,5,6	150.0	135	220	1572	137.5	95.5
WBL210	1,4,5,6	210.0	190	220	1329	190.8	95.7
SOLUTION SERIES							
Copper		NATURAL GAS		INDOOR			
CBN045F9	1,2,6	45.0	37	0	109	37.7	84.0
CBN045M9	1,2,6	45.0	37	0	340	37.4	82.0
CBN075F9	1,2,6	75.0	62	0	131	75.7	84.0
CBN075M9	1,2,6	75.0	62	0	348	76.1	82.0
CBN090F9	1,2,6	90.0	75	0	110	75.8	84.0
CBN090M9	1,2,6	90.0	75	0	348	76.4	82.0
CBN135F9	1,2,6	135.0	112	0	128	132.9	84.0
CBN135M9	1,2,6	135.0	112	0	409	134.7	82.0
CBN180F9	1,2,6	180.0	149	0	124	171.1	84.0
CBN180M9	1,2,6	180.0	149	0	395	173.8	82.0
CBN215F9	1,2,6	215.0	178	0	115	190.2	84.0

Model Number	Footnotes	Heat Cap	Eae	AFUE			
		MBTUH	kWh/yr	%	%		
Input	PE						
MBTUH	Watts	MMBTU/yr					
CBN215M9	1,2,6	215.0	178	0	405	212.9	82.0
CBN260F9	1,2,6	260.0	216	0	124	247.4	84.0
CBN260M9	1,2,6	260.0	216	0	397	252.0	82.0
Copper		PROPANE GAS		INDOOR			
CBL045F9	1,2,6	45.0	37	0	109	37.7	84.0
CBL045M9	1,2,6	45.0	37	0	340	37.4	82.0
CBL075F9	1,2,6	75.0	62	0	131	75.7	84.0
CBL075M9	1,2,6	75.0	62	0	348	76.1	82.0
CBL090F9	1,2,6	90.0	75	0	110	75.8	84.0
CBL090M9	1,2,6	90.0	75	0	348	76.4	82.0
CBL135F9	1,2,6	135.0	112	0	128	132.9	84.0
CBL135M9	1,2,6	135.0	112	0	409	134.7	82.0
CBL180F9	1,2,6	180.0	149	0	124	171.1	84.0
CBL180M9	1,2,6	180.0	149	0	395	173.8	82.0
CBL215F9	1,2,6	215.0	178	0	115	190.2	84.0
CBL215M9	1,2,6	215.0	178	0	405	212.9	82.0
CBL260F9	1,2,6	260.0	216	0	124	247.4	84.0
CBL260M9	1,2,6	260.0	216	0	397	252.0	82.0
Trade Name(s): Lochinvar							
Copper		NATURAL GAS		INDOOR			
RBN075(PM)-F1	2,6	75.0	62	136	0	81.6	80.3
RBN075(PM)-F9	1,2,6	75.0	62	136	0	77.6	83.0
Copper		PROPANE GAS		INDOOR			
RBL075(PM)-F1	2,6	75.0	62	136	0	81.6	80.3
RBL075(PM)-F9	1,2,6	75.0	62	136	0	77.6	83.0
EFFICIENCY + SERIES							
Copper		NATURAL GAS		INDOOR			
EBN150	1,5,6	150.0	129	357	301	134.2	83.2
EBN200	1,5,6	200.0	170	357	326	195.3	83.1
EBN250	1,5,6	250.0	218	357	326	244.4	83.2
MINI-FIN SERIES							
Copper		NATURAL OR PROPANE GAS		INDOOR			
RB(N,L)045(PM)-F1	2,6	45.0	37	0	133	41.8	80.1
RB(N,L)045(PM)-F9	1,2,6	45.0	37	0	132	37.6	84.2
RB(N,L)090(PM)-F1	2,6	90.0	75	0	136	81.6	80.3
RB(N,L)090(PM)-F9	1,2,6	90.0	75	0	136	77.6	83.0
RB(N,L)135(PM)-F1	2,6	135.0	112	0	154	139.5	81.4
RB(N,L)135(PM)-F9	1,2,6	135.0	112	0	154	135.9	83.2
RB(N,L)180(PM)-F1	2,6	180.0	149	0	149	178.4	81.6
RB(N,L)180(PM)-F9	1,2,6	180.0	149	0	149	173.8	83.1
RB(N,L)199(PM)-F1	2,6	199.0	165	0	153	201.7	80.1
RB(N,L)199(PM)-F9	1,2,6	199.0	165	0	151	195.7	81.6
RB(N,L)225-F1	2,6	225.0	186	0	149	221.7	80.1
RB(N,L)225-F9	1,2,6	225.0	186	0	148	215.4	81.6
RB(N,L)270-F1	2,6	270.0	223	0	147	261.1	80.3
RB(N,L)270-F9	1,2,6	270.0	223	0	146	253.7	81.9
POWER-FIN SERIES							
Copper		NATURAL OR PROPANE GAS		INDOOR			
PB(N,L)0250(PM)-F9	1,5,6	250.0	220	75	217	236.1	87.9
MESTEK, INC.							
KN		NATURAL OR PROPANE GAS		INDOOR			
200i	1,3,4,6	199.0	173				92.7
NEW YORKER BOILER CO., INC.							
CGC		NATURAL OR PROPANE GAS		INDOOR			
CG20C_C	2,6	37.5	31	0	131	39.7	80.0
CG20C_I	1,2,6	37.5	31	0	133	38.3	82.3

STANDARD FOOTNOTES:

1. Electronic Ignition (No Standing Pilot)
2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
3. Power Combustion Or Power Vent
4. Condensing Type
5. Direct Vent (Includes Venting And Combustion Air Systems)

6. Hot Water
7. Steam
- # Rating Voluntarily Revised Since Last Directory
- * Rating Revised By Program Since Last Directory

Model Number		Heat Cap MBTUH		Eae kWh/yr		AFUE %		Model Number		Heat Cap MBTUH		Eae kWh/yr		AFUE %							
Input	PE	Input	PE	Ef	Ef	Input	PE	Input	PE	Input	PE	Ef	Ef	Input	PE						
MMBTU/yr	Watts	MMBTU/yr	Watts	MMBTU/yr	MMBTU/yr	MMBTU/yr	Watts	MMBTU/yr	Watts	MMBTU/yr	Watts	MMBTU/yr	MMBTU/yr	MMBTU/yr	Watts						
P B HEAT, LLC																					
Trade Name(s): Peerless																					
MIH SERIES																					
Cast Iron NATURAL GAS INDOOR																					
MIH-03-SV	1,2,6	65.0	54	0	115	57.0	83.2	1604HSD	1,2,7	112.5	91	0	0	99.5	82.0						
MIH-04-SV	1,2,6	97.5	81	0	128	96.0	83.1	1605HSD	2,7	150.0	122	0	0	141.7	82.0						
MIH-05-SV	1,2,6	130.0	108	0	115	115.0	83.0	1605HSD	1,2,7	150.0	122	0	0	139.0	82.0						
MIH-06-SV	1,2,6	162.5	135	0	123	154.0	83.0	1606HSD	2,7	187.5	153	0	0	180.9	82.0						
PSC SERIES																					
Cast Iron NATURAL OR PROPANE GAS INDOOR																					
PSC-03-SV	1,6	70.0	58	210	276	57.0	83.0	1606HSD	1,2,7	187.5	153	0	0	178.2	82.0						
PSC-04-SV	1,6	105.0	88	210	308	95.0	83.0	1607HSD	2,7	225.0	183	0	0	219.9	82.0						
PSC-05-SV	1,6	140.0	117	210	325	134.0	83.0	1607HSD	1,2,7	225.0	183	0	0	217.2	82.0						
PSC-06-SV	1,6	175.0	146	210	335	172.0	83.0	1608HSD	2,7	262.5	214	0	0	258.7	82.0						
PENNCO BOILERS																					
Series 15B																					
Cast Iron NATURAL OR PROPANE GAS INDOOR																					
15B045FV	2,6	45.0	37	0	103	42.0	80.0	1608HSD	1,2,7	262.5	214	0	0	256.0	82.0						
15B070FV	2,6	70.0	57	0	129	82.0	80.0	1609HSD	2,7	299.0	245	0	0	257.9	82.0						
15B096FV	2,6	96.0	79	0	125	102.0	80.0	1609HSD	1,2,7	299.0	245	0	0	255.3	82.0						
15B120FV	2,6	120.0	98	0	124	122.0	80.0	Cast Iron PROPANE GAS INDOOR													
15B145FV	2,6	145.0	119	0	121	142.0	80.0	1603HSD	2,7	70.0	58			81.1							
15B175FV	2,6	175.0	141	0	118	162.0	80.0	1603HSD	1,2,7	70.0	58			82.7							
15B195FV	2,6	195.0	157	0	129	202.0	80.0	1604HSD	2,7	105.0	85	0	0	102.2	78.8						
15B245FV	2,6	245.0	197	0	135	262.0	80.0	1604HSD	1,2,7	105.0	85	0	0	99.5	80.4						
15B295FV	2,6	295.0	237	0	112	262.0	80.0	1605HSD	2,7	140.0	114	0	0	141.7	79.2						
Series 15BW																					
Cast Iron NATURAL OR PROPANE GAS INDOOR																					
15B045FE	1,2,6	45.0	37	0	98	40.0	82.0	1605HSD	1,2,7	140.0	114	0	0	139.0	80.6						
15B070FE	1,2,6	70.0	57	0	133	77.0	82.0	1606HSD	2,7	175.0	143	0	0	161.1	79.6						
15B096FE	1,2,6	96.0	79	0	125	96.0	82.0	1606HSD	1,2,7	175.0	143	0	0	178.2	80.9						
15B120FE	1,2,6	120.0	98	0	122	118.0	82.0	1607HSD	2,7	210.0	171	0	0	200.1	80.1						
15B145FE	1,2,6	145.0	119	0	124	135.0	82.0	1607HSD	1,2,7	210.0	171	0	0	217.2	81.1						
15B175FE	1,2,6	175.0	141	0	117	158.0	80.5	1608HSD	2,7	245.0	200	0	0	258.7	80.5						
15B195FE	1,2,6	195.0	157	0	127	195.0	80.5	1608HSD	1,2,7	245.0	200	0	0	256.0	81.3						
15B245FE	1,2,6	245.0	197	0	134	258.0	80.5	1609HSD	2,7	280.0	229	0	0	257.9	80.9						
15B295FE	1,2,6	295.0	237	0	115	266.0	80.5	1609HSD	1,2,7	280.0	229	0	0	255.3	81.5						
Trade Name(s): Pennco																					
15 SERIES																					
Discontinued Models																					
Cast Iron NATURAL OR PROPANE GAS INDOOR																					
1502HWD	2,6	37.5	30	0	132	39.6	80.0	18 SERIES													
1502HWID	1,2,6	37.5	30	0	135	38.8	81.4	Cast Iron NATURAL GAS INDOOR													
1503HWD	2,6	70.0	57	0	108	59.5	80.4	1803HWD	2,6	75.0	63	0	129	77.2	82.6						
1503HWID	1,2,6	70.0	57	0	108	58.4	81.6	1803HWD	1,2,6	75.0	63	0	131	75.7	84.0						
1504HWD	2,6	105.0	85	0	121	99.2	80.4	1804HWD	2,6	112.5	94	0	130	115.4	82.7						
1504HWID	1,2,6	105.0	85	0	121	97.7	81.5	1804HWID	1,2,6	112.5	94	0	131	114.0	84.0						
1505HWD	2,6	140.0	113	0	127	139.1	80.3	1805HWD	2,6	150.0	126	0	114	134.6	82.8						
1505HWID	1,2,6	140.0	113	0	128	137.3	81.3	1805HWID	1,2,6	150.0	126	0	115	133.2	84.1						
1506HWD	2,6	175.0	142	0	117	159.3	80.2	1806HWD	2,6	187.5	157	0	118	172.8	82.9						
1506HWID	1,2,6	175.0	142	0	117	157.3	81.1	1806HWID	1,2,6	187.5	157	0	118	171.5	84.1						
1507HWD	2,6	210.0	170	0	122	199.4	80.1	1807HWD	2,6	225.0	188	0	120	211.2	83.0						
1507HWID	1,2,6	210.0	170	0	122	197.1	81.0	1807HWID	1,2,6	225.0	188	0	121	209.7	84.0						
1508HWD	2,6	245.0	198	0	136	259.5	80.0	1808HWD	2,6	262.5	220	0	122	249.7	83.1						
1508HWID	1,2,6	245.0	198	0	136	256.9	80.8	1808HWID	1,2,6	262.5	220	0	122	248.0	83.9						
1509HWD	2,6	280.0	226	0	119	260.1	80.0	1809HWD	2,6	299.0	251	0	107	249.9	83.2						
1509HWID	1,2,6	280.0	226	0	120	257.5	80.7	1809HWID	1,2,6	299.0	251	0	108	248.3	83.7						
16 SERIES																					
Cast Iron NATURAL GAS INDOOR																					
1603HSD	2,7	75.0	62				82.7	Cast Iron PROPANE GAS INDOOR													
1603HSD	1,2,7	75.0	62				82.7	1803HWD	2,6	70.0	59			82.6							
1604HSD	2,7	112.5	91	0	0	102.2	82.0	1803HWID	1,2,6	70.0	59			84.0							
1804HWD																2,6	105.0	88			82.7
1804HWID																1,2,6	105.0	88			84.0
1805HWD																2,6	140.0	118			82.8
1805HWID																1,2,6	140.0	118			84.1
1806HWD																2,6	175.0	147			82.9
1806HWID																1,2,6	175.0	147			84.1
1807HWD																2,6	210.0	176			83.0
1807HWID																1,2,6	210.0	176			84.0
1808HWD																2,6	245.0	206			83.1
1808HWID																1,2,6	245.0	206			83.9
1809HWD																2,6	280.0	235			83.2
1809HWID																1,2,6	280.0	235			83.7
FSB SERIES																					
Cast Iron NATURAL OR PROPANE GAS INDOOR																					
FSB-2	1,6	42.5	36	180	269	36.9	84.4	Cast Iron PROPANE GAS INDOOR													
FSB-3	1,6	75.0	63	180	312	75.5	83.4	1803HWD	2,6	70.0	59			82.6							
FSB-4	1,6	112.5	94	180	316	114.5	83.0	1803HWID	1,2,6	70.0	59			84.0							
FSB-5	1,6	150.0	125	180	278	134.4	82.7	1804HWD	2,6	105.0	88			82.7							
FSB-6	1,6	187.5	155	180	288	174.0	82.3	1804HWID	1,2,6	105.0	88			84.0							
FSB-7	1,6	225.0	186	180	294	213.6	82.0	1805HWD	2,6	140.0	118			82.8							
PNA, INC. / PENSOTTI																					

STANDARD FOOTNOTES:

1. Electronic Ignition (No Standing Pilot)
2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
3. Power Combustion Or Power Vent
4. Condensing Type
5. Direct Vent (Includes Venting And Combustion Air Systems)

6. Hot Water
7. Steam
- # Rating Voluntarily Revised Since Last Directory
- * Rating Revised By Program Since Last Directory

Model Number	Footnotes	Heat Cap Input MBTUH	PE Watts	Eae kWh/yr MMBTU/yr	AFUE %
PNA, INC. / PENSOTTI					
Blueline Gas Series					
Cast Iron			NATURAL GAS		
BL-4	1,3,6	141.0	117		80.2
BL-5	1,3,6	182.0	151		80.9
BL-6	1,3,6	223.0	186		81.5
BL-7	1,3,6	264.0	220		82.1
Cast Iron			PROPANE GAS		
BL-3	1,3,6	98.0	82		81.2
BL-4	1,3,6	138.0	116		81.9
BL-5	1,3,6	178.0	125		82.6
BL-6	1,3,6	217.0	185		83.5
BL-7	1,3,6	257.0	219		83.9
PUREPRO					
TRIO SERIES					
Cast Iron			NATURAL OR PROPANE GAS		
P3	1,6	105.0	91		85.0
P4	1,6	140.0	122		85.1
P5	1,6	175.0	153		85.1
P6	1,6	210.0	184		85.1
P7	1,6	245.0	208		83.4
RAYPAK, INC.					
HI-DELTA SERIES					
Copper			NATURAL GAS		
H40122	1,7	120.0	99 85	208	115.9 84.0
H40162	1,7	160.0	132 85	208	158.2 84.0
H40202	1,7	199.0	164 85	208	201.4 84.0
H40242	1,7	240.0	198 85	208	251.2 84.0
Raytherm Series					
Copper			NATURAL GAS		
H40030*	1,2,6	30.0	25 0	125	28.8 82.7
H40042*	1,2,6	42.0	35 0	117	37.7 84.0
H40066*	1,2,6	66.0	54 0	112	57.1 83.0
H40090*	2,6	90.0	74 0	111	81.2 82.0
H40135*	2,6	135.0	109 0	112	122.6 82.6
H40133*	1,2,6	136.0	112 0	129	135.0 82.7
H40180*	2,6	180.0	148 0	125	179.1 82.9
H40182	1,2,6	181.0	148 0	124	173.8 82.6
H40181	1,2,6	181.0	148 61	184	173.8 82.6
H40260	1,2,6	264.0	216 0	127	258.2 82.7
H40261	1,2,6	264.0	216 61	184	258.2 82.7
Copper			PROPANE GAS		
H40030*	1,2,6	30.0	25 0	125	28.8 82.7
H40042*	1,2,6	42.0	35 0	117	37.7 84.0
H40066*	1,2,6	66.0	54 0	112	57.1 83.0
H40090*	2,6	90.0	74 0	111	81.2 82.0
H40135*	2,6	135.0	109 0	112	122.6 82.6
H40133*	1,2,6	136.0	112 0	129	135.0 82.7
H40180*	2,6	180.0	148 0	125	179.1 82.9
H40182	1,2,6	181.0	148 0	124	173.8 82.6
H40181	1,2,6	181.0	148 61	184	173.8 82.6
H40260	1,2,6	264.0	216 0	127	258.2 82.7
H40261	1,2,6	264.0	216 61	184	258.2 82.7
Trade Name(s): Raypak					
HI-DELTA SERIES					
Copper			NATURAL GAS		
H30122	1,7,8	120.0	99 85	208	115.9 84.0
H30162	1,7,8	160.0	132 85	208	158.2 84.0
H30202	1,7,8	199.0	164 85	208	201.4 84.0
H30242	1,7,8	240.0	198 85	208	251.2 84.0
Raytherm Series					
Copper			NATURAL GAS		
H30030*	1,2,6,8	30.0	25 0	125	28.8 82.7
H30042*	1,2,6,8	42.0	35 0	117	37.7 84.0

Model Number	Footnotes	Heat Cap Input MBTUH	PE Watts	Eae kWh/yr MMBTU/yr	AFUE %
H30066*	1,2,6,8	66.0	54 0	112	57.1 83.0
H30090*	2,6,8,8	90.0	74 0	111	81.2 82.0
H30135*	2,6,8,8	135.0	109 0	112	122.6 82.6
H30133*	1,2,6,8	136.0	112 0	129	135.0 82.7
H30180*	2,6,8,8	180.0	148 0	125	179.1 82.9
H30182	1,2,6,8	181.0	148 0	124	173.8 82.6
H30181	1,2,6,8	181.0	148 61	184	173.8 82.6
H30260	1,2,6,8	264.0	216 0	127	258.2 82.7
H30261	1,2,6,8	264.0	216 61	184	258.2 82.7
Copper			PROPANE GAS		
H30030*	1,2,6,8	30.0	25 0	125	28.8 82.7
H30042*	1,2,6,8	42.0	35 0	117	37.7 84.0
H30066*	1,2,6,8	66.0	54 0	112	57.1 83.0
H30090*	2,6,8,8	90.0	74 0	111	81.2 82.0
H30135*	1,2,6,8,8	135.0	109 0	114	118.0 82.8
H30133*	1,2,6,8	136.0	112 0	129	135.0 82.7
H30180*	2,6,8,8	180.0	148 0	125	179.1 82.9
H30182	1,2,6,8	181.0	148 0	124	173.8 82.6
H30260	1,2,6,8	264.0	216 0	127	258.2 82.7
Additional Footnotes					
8. (*) represents a number from 1 - 6.					
RBI WATER HEATERS					
DIVISION OF MESTEK, INC.					
Spectrum Series					
Copper			NATURAL OR PROPANE GAS		
SB100E	1,2,6	100.0	84		82.0
SB150E	1,2,6	150.0	125		82.0
SB200E	1,2,6	200.0	166		81.0
SB250E	1,2,6	250.0	209		81.0
Discontinued Models					
Copper			NATURAL OR PROPANE GAS		
SB050E	1,2,6	50.0	42		81.0
Trade Name(s): Spectrum Series					
SPECTRUM SERIES					
Copper			NATURAL GAS		
SB100S	2,6	100.0	84 0	121	97.8 81.0
SB150S	2,6	150.0	125 0	114	136.6 81.0
SB200S	2,6	200.0	166 0	124	195.2 80.0
SB250S	2,6	250.0	209 0	129	253.6 80.0
Discontinued Models					
Copper			NATURAL GAS		
SB50S	2,6	50.0	42 0	91	40.1 80.0
SEARS, ROEBUCK AND COMPANY					
K90 SERIES					
Aluminum			NATURAL OR PROPANE GAS		
K90-50	1,4,5,6	50.0	45 100	195	52.6 90.0
K90-75	1,4,5,6	75.0	68 100	174	70.5 90.0
K90-100	1,4,5,6	100.0	90 100	164	88.4 90.0
K90-125	1,4,5,6	125.0	113 100	207	123.8 90.0
K90-150	1,4,5,6	150.0	134 100	197	141.6 90.0
K90-175	1,4,5,6	175.0	158 100	190	159.4 90.0
K90-200	1,4,5,6	200.0	180 100	204	195.0 90.0
K95M					
Aluminum			NATURAL OR PROPANE GAS		
K95-200M	1,4,5,6	200.0	190		95.0
Trade Name(s): Kenmore					
960 SERIES					
Cast Iron			NATURAL GAS		
229.96023	1,2,7	75.0	62 0	0	77.4 82.7
229.96033	2,7	75.0	62 0	0	79.2 81.1
229.96024	1,2,7	112.5	91 0	0	99.5 82.0

STANDARD FOOTNOTES:

1. Electronic Ignition (No Standing Pilot)
2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
3. Power Combustion Or Power Vent
4. Condensing Type
5. Direct Vent (Includes Venting And Combustion Air Systems)

6. Hot Water
7. Steam
- # Rating Voluntarily Revised Since Last Directory
- * Rating Revised By Program Since Last Directory

Model Number	Footnotes	Heat Cap Input MBTUH	PE Watts	Eae kWh/yr	Ef MMBTU/yr	AFUE %
SEARS, ROEBUCK AND COMPANY						
Trade Name(s): Kenmore						
960 SERIES						
Cast Iron		NATURAL GAS			INDOOR	
229.96034	2,7	112.5	91	0	102.2	78.8
229.96025	1,2,7	150.0	122	0	139.0	82.0
229.96035	2,7	150.0	122	0	141.7	79.2
229.96026	1,2,7	187.5	153	0	178.2	82.0
229.96036	2,7	187.5	153	0	180.9	79.6
229.96027	1,2,7	225.0	183	0	217.2	82.0
229.96037	2,7	225.0	183	0	219.9	80.1
229.96028	1,2,7	262.5	214	0	256.0	82.0
229.96038	2,7	262.5	214	0	258.7	80.5
229.96029	1,2,7	299.0	245	0	255.3	82.0
229.96039	2,7	299.0	245	0	257.9	80.9
Cast Iron		NATURAL GAS			INDOOR	
229.96552	1,6	42.5	36	180	269	36.9
229.96553	1,6	75.0	63	180	312	75.5
229.96554	1,6	112.5	94	180	316	114.5
229.96555	1,6	150.0	125	180	278	134.4
229.96556	1,6	187.5	155	180	288	174.0
229.96557	1,6	225.0	186	180	294	213.6
Cast Iron		PROPANE GAS			INDOOR	
229.96532	1,6	42.5	36	180	269	36.9
229.96533	1,6	75.0	63	180	312	75.5
229.96534	1,6	112.5	94	180	316	114.5
229.96535	1,6	150.0	125	180	278	134.4
229.96536	1,6	187.5	155	180	288	174.0
229.96537	1,6	225.0	186	180	294	213.6
KENMORE WATER XTREME SERIES						
Cast Iron		NATURAL GAS			INDOOR	
KWX-3E	1,2,6	70.0	57			81.6
KWX-3V	2,6	70.0	57			80.4
KWX-4E	1,2,6	105.0	85			81.5
KWX-4V	2,6	105.0	85			80.4
KWX-5E	1,2,6	140.0	113			81.3
KWX-5V	2,6	140.0	113			80.3
KWX-6E	1,2,6	175.0	142			81.1
KWX-6V	2,6	175.0	142			80.2
KWX-7E	1,2,6	210.0	170			81.0
KWX-7V	2,6	210.0	170			80.1
KWX-8E	1,2,6	245.0	198			80.8
KWX-8V	2,6	245.0	198			80.0
KWX-9E	1,2,6	280.0	226			80.7
KWX-9V	2,6	280.0	226			80.0
SLANT/FIN CORPORATION						
Bobcat						
Aluminum		NATURAL OR PROPANE GAS			INDOOR	
B-120	1,4,5,6	120.0	109			93.0
B-200	1,4,5,6	200.0	182	100	100	100.0
Eutectic EC-10G						
Cast Iron		NATURAL OR PROPANE GAS			INDOOR	
EG-13	1,6	91.0	76			84.5
EG-13*	1,6	98.0	83			84.5
EG-14	1,6	112.0	95			84.5
EG-14*	1,6	126.0	105			84.5
EG-15	1,6	140.0	117			84.5
EG-15*	1,6	154.0	131			84.5
EG-16	1,6	161.0	137			84.5
EG-16*	1,6	175.0	147			84.5
Eutectic EC-20G						
Cast Iron		NATURAL OR PROPANE GAS			INDOOR	

Model Number	Footnotes	Heat Cap Input MBTUH	PE Watts	Eae kWh/yr	Ef MMBTU/yr	AFUE %
EC-25G	1,6	217.0	185			85.0
EC-25G*	1,6	266.0	227			85.0
Galaxy GXHA Series						
Cast Iron		NATURAL OR PROPANE GAS			INDOOR	
GXHA-100D	2,7	100.0	81			80.0
GXHA-100ED	1,2,7	100.0	81			81.0
GXHA-120D	2,7	120.0	97	0	121.0	80.1
GXHA-120ED	1,2,7	120.0	97	0	118.0	81.2
GXHA-160D	2,7	160.0	130			80.1
GXHA-160ED	1,2,7	160.0	130			81.2
GXHA-200D	2,7	200.0	163			80.2
GXHA-200ED	1,2,7	200.0	163			81.3
GG SERIES						
Cast Iron		NATURAL OR PROPANE GAS			INDOOR	
GG-75HDS	2,6	75.0	64	0	128	78.0
GG-75HEDS	1,2,6	75.0	64	0	130	75.0
GG-100HDS	2,6	100.0	83	0	123	99.0
GG-100HEDS	1,2,6	100.0	83	0	126	97.0
GG-125HDS	2,6	125.0	103	0	120	119.0
GG-125HEDS	1,2,6	125.0	103	0	121	116.0
GG-150HDS	2,6	150.0	125	0	116	138.0
GG-150HEDS	1,2,6	150.0	125	0	117	135.0
GG-175HDS	2,6	175.0	145	0	129	177.0
GG-175HEDS	1,2,6	175.0	145	0	130	174.0
GG-200HDS	2,6	200.0	167	0	124	195.0
GG-200HEDS	1,2,6	200.0	167	0	125	192.0
GG-225HDS	2,6	225.0	186	0	123	216.0
GG-225HEDS	1,2,6	225.0	186	0	123	213.0
GG-250HDS	2,6	250.0	209	0	129	252.0
GG-250HEDS	1,2,6	250.0	209	0	130	249.0
GG-275HDS	2,6	275.0	228	0	118	254.0
GG-275HEDS	1,2,6	275.0	228	0	119	251.0
LYNX						
Aluminum		NATURAL OR PROPANE GAS			INDOOR	
LX-85	1,4,5,6	85.0	76	100	100	100.0
SENTRY SX SERIES						
Cast Iron		NATURAL OR PROPANE GAS			INDOOR	
SX-150D	2,6	150.0	126	0	116	137.0
SX-150ED	1,2,6	150.0	126	0	116	134.0
SX-180D	2,6	180.0	151	0	125	175.0
SX-180ED	1,2,6	180.0	151	0	125	173.0
SX-210D	2,6	210.0	175	0	119	195.0
SX-210ED	1,2,6	210.0	175	0	119	192.0
Trade Name(s): Slant/Fin						
Galaxy - Steam Series						
Cast Iron		NATURAL OR PROPANE GAS			INDOOR	
GXH-105DPZ	2,7	105.0	86	0	0	101.0
GXH-105EDPZ	1,2,7	105.0	86	0	0	99.0
GXH-125DPZ	2,7	126.0	104	0	0	121.0
GXH-125EDPZ	1,2,7	126.0	104	0	0	119.0
GXH-150DPZ	2,7	147.0	120	0	0	141.0
GXH-150EDPZ	1,2,7	147.0	120	0	0	138.0
GXH-170DPZ	2,7	168.0	137	0	0	161.0
GXH-170EDPZ	1,2,7	168.0	137	0	0	158.0
GXH-190DPZ	2,7	189.0	155	0	0	181.0
GXH-190EDPZ	1,2,7	189.0	155	0	0	178.0
GXH-210DPZ	2,7	210.0	172	0	0	200.0
GXH-210EDPZ	1,2,7	210.0	172	0	0	197.0
GX-225DPZ	2,7	225.0	179	0	0	233.0
GX-225EDPZ	1,2,7	225.0	179	0	0	225.0
GXH-230DPZ	2,7	231.0	189	0	0	220.0
GXH-230EDPZ	1,2,7	231.0	189	0	0	217.0
GX-250DPZ	2,7	250.0	198	0	0	275.0
GX-250EDPZ	1,2,7	250.0	198	0	0	267.0
GXH-250DPZ	2,7	252.0	206	0	0	260.0

STANDARD FOOTNOTES:

1. Electronic Ignition (No Standing Pilot)
2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
3. Power Combustion Or Power Vent
4. Condensing Type
5. Direct Vent (Includes Venting And Combustion Air Systems)

6. Hot Water
7. Steam
- # Rating Voluntarily Revised Since Last Directory
- * Rating Revised By Program Since Last Directory

Model Number	Footnotes	Heat Cap MBTUH	Input PE Watts	Eae kWh/yr MMBTU/yr	AFUE %	Model Number	Footnotes	Heat Cap MBTUH	Input PE Watts	Eae kWh/yr MMBTU/yr	AFUE %				
SMITH CAST IRON BOILERS						PGB200-S SERIES									
Trade Name(s): Smith Cast Iron Boilers						PROPANE GAS									
GB100-W SERIES						INDOOR									
Cast Iron						Cast Iron									
NATURAL OR PROPANE GAS						PROPANE GAS									
INDOOR						INDOOR									
GB100-W-11-INT-D	1,2,6	250.0	208	0	130	249.7	83.2	PGB200-S-3-COND	2,7	85.0	70	0	109	81.0	80.0
GB100-W-12-CON-D	2,6	275.0	229	0	118	253.9	82.1	PGB200-S-3-INTD	1,2,7	85.0	70	0	118	77.4	82.3
GB100-W-12-HSI-D	1,2,6	275.0	229	0	118	249.8	83.2	PGB200-S-4L-COND	2,7	110.0	90	0	108	101.2	80.0
GB100-W-12-INT-D	1,2,6	275.0	229	0	118	249.8	83.2	PGB200-S-4L-INTD	1,2,7	110.0	90	0	115	97.2	82.0
GB200-S SERIES						PGB200-S-4H-COND									
Cast Iron						PGB200-S-4H-INTD									
NATURAL GAS						PGB200-S-5-COND									
INDOOR						PGB200-S-5-INTD									
GB200-S-3-COND	2,7	85.0	69	0	110	81.5	79.5	PGB200-S-5-INTD	1,2,7	165.0	135	0	118	159.7	80.6
GB200-S-3-INTD	1,2,7	85.0	69	0	119	77.8	81.5	PGB250-S SERIES							
GB200-S-4L-COND	2,7	110.0	89	0	109	101.8	79.5	Cast Iron							
GB200-S-4L-INTD	1,2,7	110.0	89	0	116	98.0	81.3	PROPANE GAS							
GB200-S-4H-COND	2,7	135.0	110	0	108	121.3	80.0	INDOOR							
GB200-S-4H-INTD	1,2,7	135.0	110	0	113	117.4	81.5	PGB250-S-5L-COND	2,7	175.0	143	0	113	159.9	80.5
GB200-S-5-COND	2,7	165.0	134	0	119	160.7	80.1	PGB250-S-5L-INTD	1,2,7	175.0	143	0	116	156.7	81.5
GB200-S-5-INTD	1,2,7	165.0	134	0	124	157.3	81.2	PGB250-S-5H-COND	2,7	200.0	164	0	124	198.6	80.8
GB250-S SERIES						PGV100-W SERIES									
Cast Iron						Cast Iron									
NATURAL GAS						PROPANE GAS									
INDOOR						INDOOR									
GB250-S-5L-COND	2,7	175.0	142	0	114	160.9	80.0	PGV100-W-3-HSI	1,6	50.0	42	66	147	37.6	83.8
GB250-S-5L-INTD	1,2,7	175.0	142	0	117	157.7	81.3	PGV100-W-4-HSI	1,6	75.0	63	66	197	75.2	84.3
GB250-S-5H-COND	2,7	200.0	163	0	125	199.8	80.3	PGV100-W-5-HSI	1,6	100.0	84	66	185	94.5	84.1
GB250-S-5H-INTD	1,2,7	200.0	163	0	128	196.5	81.6	PGV100-W-6-HSI	1,6	125.0	104	66	180	114.5	83.4
GB250-S-6-COND	2,7	250.0	205	0	130	257.9	80.8	PGV100-W-7-HSI	1,6	150.0	125	66	175	133.6	83.5
GB250-S-6-INTD	1,2,7	250.0	205	0	132	254.0	82.1	THERMO-DYNAMICS BOILER CO.							
GV100-W SERIES						CWL-GS SERIES									
Cast Iron						Steel									
NATURAL OR PROPANE GAS						NATURAL GAS									
INDOOR						INDOOR									
GV100-W-3-HSI	1,6	50.0	42	66	147	37.6	83.8	CWL-GS120	1,3,6	120.0	100	100	352	115.0	82.6
GV100-W-4-HSI	1,6	75.0	63	66	197	75.2	84.3	CWL-GS140	1,3,6	140.0	115	100	348	133.0	81.1
GV100-W-5-HSI	1,6	100.0	84	66	185	94.5	84.1	CWL-GS160	1,3,6	160.0	130	100	326	121.0	80.5
GV100-W-6-HSI	1,6	125.0	104	66	180	114.5	83.4	CWL-GS-DV SERIES							
GV100-W-7-HSI	1,6	150.0	125	66	175	133.6	83.5	Steel							
LEXINGTON GS110 SERIES						NATURAL GAS									
Cast Iron						INDOOR									
GS110-3	1,6	70.0	61	0	324	72.8	86.5	CWL-GS120-DV	1,3,5,6	120.0	100	100	352	115.0	82.6
GS110-4	1,6	105.0	91	0	273	91.7	86.3	CWL-GS140-DV	1,3,5,6	140.0	115	100	348	133.0	81.1
GS110-5	1,6	140.0	121	0	287	128.9	86.2	CWL-GS160-DV	1,3,5,6	160.0	130	100	326	121.0	80.5
GS110-6	1,6	175.0	151	0	296	166.2	86.1	TRANE PRODUCTS							
GS110-7	1,6	210.0	181	0	288	184.9	86.1	TGB							
Cast Iron						Cast Iron									
PROPANE GAS						NATURAL OR PROPANE GAS									
INDOOR						INDOOR									
PGS110-3	1,5,6	70.0	61	0	324	72.8	86.5	TGBWF090	1,2,6	90.0	76	20	127	76.0	83.6
PGS110-4	1,5,6	105.0	91	0	273	91.7	86.3	TGBWF130	1,2,6	130.0	111	20	154	134.0	83.5
PGS110-5	1,5,6	140.0	121	0	287	128.9	86.2	TGBWF173	1,2,6	173.0	145	20	149	172.0	83.4
PGS110-6	1,5,6	175.0	151	0	296	166.2	86.1	TGBWF215	1,2,6	215.0	180	20	147	211.0	83.3
PGS110-7	1,5,6	210.0	181	0	288	184.9	86.1	TGR							
PGB100-W SERIES						Cast Iron									
Cast Iron						NATURAL OR PROPANE GAS									
NATURAL OR PROPANE GAS						INDOOR									
PGB100-W-3-CON-D	2,6	50.0	42	0	91	40.1	81.5	TGRWF130	1,6	130.0	110	92	194	114.0	84.3
PGB100-W-3-HSI-D	1,2,6	50.0	42	0	98	37.6	84.3	TRIANGLE TUBE							
PGB100-W-4-CON-D	2,6	75.0	63	0	127	78.1	82.0	Prestige							
PGB100-W-4-HSI-D	1,2,6	75.0	63	0	131	75.7	84.0	Stainless Steel							
PGB100-W-5-CON-D	2,6	100.0	83	0	121	97.8	82.0	NATURAL GAS							
PGB100-W-5-HSI-D	1,2,6	100.0	83	0	124	95.4	83.5	INDOOR							
PGB100-W-6-CON-D	2,6	125.0	104	0	117	117.4	82.0	Excellence 110	1,4,5,6	110.0	99	53	378	100.0	95.0
PGB100-W-6-HSI-D	1,2,6	125.0	104	0	120	115.0	83.2	Solo 110	1,4,5,6	110.0	99	53	378	100.0	95.0
PGB100-W-7-CON-D	2,6	150.0	125	0	114	136.6	82.3	Stainless Steel							
PGB100-W-7-HSI-D	1,2,6	150.0	125	0	116	134.1	83.3	NATURAL OR PROPANE GAS							
PGB100-W-8-CON-D	2,6	175.0	146	0	127	175.6	82.1	INDOOR							
PGB100-W-8-HSI-D	1,2,6	175.0	146	0	128	172.7	83.2	Solo 60	1,4,5,6	60.0	54	53	485	49.5	95.0
PGB100-W-9-CON-D	2,6	200.0	167	0	124	195.2	82.1	Solo 175	1,4,5,6	170.0	154	25	425	150.0	95.0
PGB100-W-9-HSI-D	1,2,6	200.0	167	0	125	192.0	83.2	Solo 250	1,4,5,6	245.0	223	25	474	218.0	95.0
PGB100-W-10-CON-D	2,6	225.0	187	0	121	214.8	82.1	Stainless Steel							
PGB100-W-10-HSI-D	1,2,6	225.0	187	0	122	211.2	83.2	PROPANE GAS							
STANDARD FOOTNOTES:						INDOOR									
1. Electronic Ignition (No Standing Pilot)						Excellence 110P									
2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer						1,4,5,6									
3. Power Combustion Or Power Vent						97.0									
4. Condensing Type						87									
5. Direct Vent (Includes Venting And Combustion Air Systems)						87									
						39									
						323									
						82.0									
						95.0									

1. Electronic Ignition (No Standing Pilot)
 2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
 3. Power Combustion Or Power Vent
 4. Condensing Type
 5. Direct Vent (Includes Venting And Combustion Air Systems)

6. Hot Water
 7. Steam
 # Rating Voluntarily Revised Since Last Directory
 * Rating Revised By Program Since Last Directory

Model Number	Footnotes	Heat Cap		Eae		AFUE %
		Input MBTUH	PE Watts	kWh/yr	Ef MMBTU/yr	
ULTIMATE ENGINEERING						
Trade Name(s): Ultimate						
PFG SERIES						
Discontinued Models						
Cast Iron	NATURAL OR PROPANE GAS			INDOOR		
PFG-3-63	1,3,6	63.0	54	130	230	56.0 84.7
PFG-3T-70	1,3,6	70.0	60	130	276	74.0 85.0
PFG-4-84	1,3,6	84.0	72	130	241	75.0 84.8
PFG-4T-91	1,3,6	91.0	78	130	266	93.0 85.0
PFG-5-105	1,3,6	105.0	90	130	231	93.0 84.8
PFG-5T-112	1,3,6	112.0	96	130	260	112.0 85.0
PFG-3-126	1,3,6	126.0	104	130	241	117.0 81.6
PFG-6T-133	1,3,6	133.0	114	130	256	131.0 85.0
PFG-7-147	1,3,6	147.0	126	130	232	131.0 84.9
PFG-3T-154	1,3,6	154.0	127	130	231	137.0 81.5
PFG-8T-175	1,3,6	175.0	150	140	260	169.0 85.0
PFG-4T-183	1,3,6	183.0	151	130	249	175.0 81.8
PFG-4-189	1,3,6	189.0	156	130	241	175.0 81.9
PFG-9-189	1,3,6	189.0	162	140	268	187.0 84.9
PFG-5-211	1,3,6	211.0	175	130	239	194.0 82.1
PFG-5T-212	1,3,6	212.0	175	130	238	194.0 82.1
PFG-6T-240	1,3,6	240.0	199	140	283	252.0 82.4
PFG-7-255	1,3,6	255.0	212	135	261	251.0 82.5
PFG-8T-300	1,3,6	299.0	251	140	225	250.0 82.9
PFG-9-300	1,3,6	299.0	251	140	225	250.0 83.0
Cast Iron	NATURAL OR PROPANE GAS			OUTDOOR		
PFG-3T2-70W	1,3,6	70.0	58	130	289	78.0 81.0
PFG-4-84W	1,3,6	84.0	70	130	242	78.0 80.8
PFG-3T2-95W	1,3,6	95.0	77	130	271	99.0 80.0
PFG-4-115W	1,3,6	115.0	93	130	268	119.0 80.2
PFG-6T2-133W	1,3,6	133.0	110	135	273	137.0 81.0
PFG-7-147W	1,3,6	147.0	122	135	248	138.0 80.9
PFG-7T2-154W	1,3,6	154.0	128	135	270	157.0 81.0
PFG-6T2-175W	1,3,6	175.0	143	135	271	179.0 80.0
PFG-8T2-175W	1,3,6	175.0	145	135	273	177.0 81.0
PFG-7-183W	1,3,6	183.0	149	140	254	179.0 80.0
PFG-9-189W	1,3,6	189.0	156	140	281	197.0 80.9
PFG-7T2-204W	1,3,6	204.0	166	140	263	199.0 80.0
PFG-8T2-240W	1,3,6	240.0	197	145	294	204.0 80.0
PFG-9-240W	1,3,6	240.0	198	145	295	258.0 80.4
UTICA BOILERS						
UB90D						
Aluminum	NATURAL OR PROPANE GAS			INDOOR		
UB90-50	1,4,5,6	50.0	45	100	195	52.6 90.0
UB90-75	1,4,5,6	75.0	68	100	174	70.5 90.0
UB90-100	1,4,5,6	100.0	90	100	164	88.4 90.0
UB90-125	1,4,5,6	125.0	113	100	207	123.8 90.0
UB90-150	1,4,5,6	150.0	134	100	197	141.6 90.0
UB90-175	1,4,5,6	175.0	158	100	190	159.4 90.0
UB90-200	1,4,5,6	200.0	180	100	204	195.0 90.0
UB95M						
Aluminum	NATURAL OR PROPANE GAS			INDOOR		
UB95-200M	1,4,5,6	200.0	190			95.0
Trade Name(s): Utica Boilers						
DV SERIES						
Cast Iron	NATURAL OR PROPANE GAS			INDOOR		
DVB-38	1,6	38.0	32	50	177	37.0 84.0
DVB-50	1,6	50.0	42	50	137	38.0 83.0
DVB-75	1,6	75.0	62	50	186	77.0 82.0
DVB-100	1,6	100.0	82	50	174	97.0 82.0
DVB-125	1,6	125.0	103	50	168	116.0 82.0
DVB-150	1,6	150.0	122	50	167	139.0 80.0
DVB-175	1,6	175.0	141	50	164	159.0 80.0

Model Number	Footnotes	Heat Cap		Eae		AFUE %
		Input MBTUH	PE Watts	kWh/yr	Ef MMBTU/yr	
DVB-200	1,6	199.0	160	50	162	179.0 80.0
MGB SERIES						
Cast Iron	NATURAL OR PROPANE GAS			INDOOR		
MGB-38D	2,6,9	38.0	32	0	136	42.0 80.0
MGB-38ID	1,2,6,9	38.0	32	0	129	38.0 84.1
MGB-50D	2,6,9	50.0	42	0	103	42.0 80.0
MGB-50ID	1,2,6,9	50.0	42	0	98	38.0 84.1
MGB-75D	2,6,9	75.0	63	0	129	82.0 80.0
MGB-75ID	1,2,6,9	75.0	63	0	133	77.0 83.1
MGB-100D	2,6,9	100.0	83	0	129	102.0 80.0
MGB-100ID	1,2,6,9	100.0	83	0	125	96.0 83.0
MGB-125D	2,6,9	125.0	104	0	124	122.0 80.0
MGB-125ID	1,2,6,9	125.0	104	0	122	118.0 82.0
MGB-150D	2,6,9	150.0	124	0	121	142.0 80.0
MGB-150ID	1,2,6,9	150.0	124	0	117	135.0 83.0
MGB-175D	2,6,9	175.0	143	0	118	162.0 80.0
MGB-175ID	1,2,6,9	175.0	143	0	117	158.0 81.0
MGB-200D	2,6,9	199.0	165	0	129	202.0 80.0
MGB-200ID	1,2,6,9	199.0	165	0	127	195.0 81.9
MGB-225D	2,6,9	225.0	183	0	128	222.0 80.0
MGB-225ID	1,2,6,9	225.0	183	0	128	220.0 80.5
MGB-250D	2,6,9	250.0	205	0	135	262.0 80.0
MGB-250ID	1,2,6,9	250.0	205	0	134	258.0 80.5
MGB-275D	2,6,9	275.0	222	0	122	262.0 80.0
MGB-275ID	1,2,6,9	275.0	222	0	124	263.0 80.5
MGB-300D	2,6,9	299.0	243	0	112	262.0 80.0
MGB-300ID	1,2,6,9	299.0	243	0	115	266.0 80.5
PEG-C SERIES						
Cast Iron	NATURAL OR PROPANE GAS			INDOOR		
PEG75CD	2,7	75.0	61	0	0	88.0 78.0
PEG75CID	1,2,7	75.0	61	0	0	78.0 82.0
PEG112CD	2,7	112.5	90	0	0	108.0 78.0
PEG112CID	1,2,7	112.5	90	0	0	100.0 82.0
PEG150CD	2,7	150.0	120	0	0	149.0 78.0
PEG150CID	1,2,7	150.0	120	0	0	139.0 82.0
PEG187CD	2,7	187.5	151	0	0	190.0 78.0
PEG187CID	1,2,7	187.5	151	0	0	179.0 82.0
PEG225CD	2,7	225.0	181	0	0	232.0 78.0
PEG225CID	1,2,7	225.0	181	0	0	219.0 82.0
PEG262CD	2,7	262.5	212	0	0	273.0 78.0
PEG262CID	1,2,7	262.5	212	0	0	258.0 82.0
PEG300CD	2,7	299.0	243	0	0	273.0 78.0
PEG300CID	1,2,7	299.0	243	0	0	257.0 81.0
SC SERIES						
Cast Iron	NATURAL OR PROPANE GAS			INDOOR		
USC-3	1,5,6	50.0	44	80	228	54.0 87.0
USC-4	1,5,6	100.0	87	80	192	91.0 87.0
USC-5	1,5,6	140.0	122	80	192	128.0 87.0
Additional Footnotes						
9. Rating also approved for boilers with a suffix "H".						
UTICA HEATING						
Series 15B						
Cast Iron	NATURAL OR PROPANE GAS			INDOOR		
UH15B045FE	1,2,6	45.0	37	0	98	40.0 82.0
UH15B045FV	2,6	45.0	37	0	103	42.0 80.0
UH15B070FE	1,2,6	70.0	57	0	133	77.0 82.0
UH15B070FV	2,6	70.0	57	0	129	82.0 80.0
UH15B096FE	1,2,6	96.0	79	0	125	96.0 82.0
UH15B096FV	2,6	96.0	79	0	125	102.0 80.0
UH15B120FE	1,2,6	120.0	98	0	122	118.0 82.0
UH15B120FV	2,6	120.0	98	0	124	122.0 80.0
UH15B145FE	1,2,6	145.0	119	0	124	135.0 82.0
UH15B145FV	2,6	145.0	119	0	121	142.0 80.0
UH15B175FE	1,2,6	175.0	141	0	117	158.0 80.5

STANDARD FOOTNOTES:

1. Electronic Ignition (No Standing Pilot)
2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
3. Power Combustion Or Power Vent
4. Condensing Type
5. Direct Vent (Includes Venting And Combustion Air Systems)

6. Hot Water
7. Steam
- # Rating Voluntarily Revised Since Last Directory
- * Rating Revised By Program Since Last Directory

Model Number	Footnotes	Heat Cap		Eae		AFUE		Model Number	Footnotes	Heat Cap		Eae		AFUE	
		Input MBTUH	PE Watts	kWh/yr	Ef MMBTU/yr	%	Input MBTUH			PE Watts	kWh/yr	Ef MMBTU/yr	%		
UTICA HEATING															
Series 15B															
Cast Iron															
NATURAL OR PROPANE GAS								INDOOR							
UH15B175FV	2,6	175.0	141	0	118	162.0	80.0	VB2-33	1,3,6	146.0	122	132	240	133.6	83.3
UH15B195FE	1,2,6	195.0	157	0	127	195.0	80.5	VB2-33*	1,3,6	146.0	122	132	238	132.5	84.0
UH15B195FV	2,6	195.0	157	0	129	202.0	80.0	VB2-40	1,3,6	185.0	154	132	244	172.0	83.3
UH15B245FE	1,2,6	245.0	197	0	134	258.0	80.5	VB2-40*	1,3,6	185.0	154	132	242	170.6	84.0
UH15B245FV	2,6	245.0	197	0	135	262.0	80.0	VB2-50	1,3,6	238.0	198	132	274	248.8	83.3
UH15B295FE	1,2,6	295.0	237	0	115	266.0	80.5	VB2-50*	1,3,6	238.0	198	132	272	247.0	83.9
UH15B295FV	2,6	295.0	237	0	112	262.0	80.0	VB2-63	1,3,6	299.0	249	194	269	248.8	83.3
								VB2-63*	1,3,6	299.0	249	194	267	247.1	83.9
								Additional Footnotes							
								8. Stack Damper.							
VISSMANN MANUFACTURING COMPANY, INC.								WEIL-MCLAIN							
VITODENS 100, WB1 SERIES								CGi SERIES 2							
Stainless Steel								Cast Iron							
NATURAL GAS								NATURAL GAS							
WB1 8-24	1,4,5,6	80.0	72	64	43	75.0	95.1	CGi-25-PIN	1,6	50.0	42	192	243	37.1	84.0
WB1 8-30	1,4,5,6	100.0	90	100	51	101.0	95.1	CGi-3-PIN	1,6	60.3	51	138	246	55.5	85.1
								CGi-4-PIN	1,6	100.0	85	192	308	94.1	84.0
								CGi-5-PIN	1,6	119.7	100	138	256	114.2	83.3
								CGi-6-PIN	1,6	167.0	140	192	299	152.6	83.3
								CGi-7-PIN	1,6	200.0	167	192	313	191.7	83.0
								CGi-8-PIN	1,6	233.0	194	192	297	211.8	82.7
								Cast Iron							
								PROPANE GAS							
								CGi-25-PIL	1,6	50.0	42	192	243	37.1	84.0
								CGi-3-PIL	1,6	60.3	51	138	246	55.5	85.1
								CGi-4-PIL	1,6	100.0	85	192	308	94.1	84.0
								CGi-5-PIL	1,6	119.7	100	138	256	114.2	83.3
								CGi-6-PIL	1,6	167.0	140	192	299	152.6	83.3
								CGi-7-PIL	1,6	200.0	167	192	313	191.7	83.0
								CGi-8-PIL	1,6	233.0	194	192	297	211.8	82.7
								Ultra Series 3							
								Aluminum							
								NATURAL OR PROPANE GAS							
								INDOOR							
								#ULTRA 80	1,4,6	80.0	71	58	141	68.4	93.0
								#ULTRA 105	1,4,6	105.0	94	58	136	86.5	92.0
								#ULTRA 155	1,4,6	155.0	139	78	139	138.1	93.0
								#ULTRA 230	1,4,6	230.0	207	105	204	223.9	92.8
								Trade Name(s): Weil-McLain							
								AHE SERIES 3							
								Cast Iron							
								NATURAL OR PROPANE GAS							
								INDOOR							
								AHE-45	1,5,6	45.0	38	35	136	37.0	85.3
								AHE-60	1,5,6	60.0	51	35	153	56.0	85.5
								CGa SERIES							
								Cast Iron							
								NATURAL GAS							
								INDOOR							
								CGa-25-PIDN	1,2,6	52.0	44	0	140	56.1	84.0
								CGa-25-SPDN	2,6	52.0	44	0	143	57.1	81.5
								CGa-3-PIDN	1,2,6	70.0	59	0	106	57.0	84.0
								CGa-3-SPDN	2,6	70.0	59	0	106	57.1	81.6
								CGa-4-PIDN	1,2,6	105.0	88	0	118	95.2	84.0
								CGa-4-SPDN	2,6	105.0	88	0	118	95.4	81.7
								CGa-5-PIDN	1,2,6	140.0	117	0	124	133.5	83.5
								CGa-5-SPDN	2,6	140.0	117	0	125	134.1	81.8
								CGa-6-PIDN	1,2,6	175.0	146	0	128	172.1	83.2
								CGa-6-SPDN	2,6	175.0	146	0	128	172.9	81.9
								CGa-7-PIDN	1,2,6	210.0	175	0	119	191.7	83.0
								CGa-7-SPDN	2,6	210.0	175	0	119	192.8	82.0
								CGa-8-PIDN	1,2,6	245.0	204	0	133	249.8	82.7
								CGa-8-SPDN	2,6	245.0	204	0	133	251.3	82.1
								Cast Iron							
								PROPANE GAS							
								INDOOR							
								CGa-25-SPDL	2,6	52.0	45	0	139	55.4	83.3
								CGa-3-SPDL	2,6	70.0	60	0	138	74.5	83.7
								CGa-4-SPDL	2,6	105.0	90	0	116	93.4	83.7
								CGa-5-SPDL	2,6	140.0	120	0	122	131.3	83.7
								CGa-6-SPDL	2,6	175.0	149	0	126	169.7	83.6
								CGa-7-SPDL	2,6	210.0	179	0	129	208.1	83.6
								CGa-8-PIDN	2,6	245.0	208	0	131	247.1	83.6
								CGs SERIES 1							

STANDARD FOOTNOTES:

- Electronic Ignition (No Standing Pilot)
- Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
- Power Combustion Or Power Vent
- Condensing Type
- Direct Vent (Includes Venting And Combustion Air Systems)

- Hot Water
- Steam
- Rating Voluntarily Revised Since Last Directory
- Rating Revised By Program Since Last Directory

Model Number	Footnotes	Heat Cap		Eae		AFUE	
		Input MBTUH	PE Watts	kWh/yr	Ef MMBTU/yr	MBTUH	Watts
WEIL-MCLAIN							
Trade Name(s): Weil-McLain							
CGs SERIES 1							
Cast Iron				NATURAL GAS		INDOOR	
CGs-3-PIN	1,6,10	67.0	57	192	274	55.2	85.3
CGs-4-PIN	1,6,10	100.0	85	192	310	93.4	84.6
CGs-5-PIN	1,6,10	133.0	112	192	330	132.1	84.0
CGs-6-PIN	1,6,10	167.0	140	192	303	152.4	83.4
Cast Iron				PROPANE GAS		INDOOR	
CGs-3-PIL	1,6,10	67.0	57	192	274	55.2	85.3
CGs-4-PIL	1,6,10	100.0	85	192	310	93.4	84.6
CGs-5-PIL	1,6,10	133.0	112	192	330	132.1	84.0
CGs-6-PIL	1,6,10	167.0	140	192	303	152.4	83.4
CGt SERIES							
Cast Iron				NATURAL OR PROPANE GAS		INDOOR	
CGT-5-PIDN	1,7	133.0	108				81.0
EG SERIES 4							
Cast Iron				NATURAL GAS		INDOOR	
EG-30-PIDN-S	1,2,7,11	75.0	62	0	0	76.6	83.0
EG-30-SPDN-S	2,7,11	75.0	62	0	0	76.6	81.0
EG-30-PIDN-W	1,2,6	75.0	63	0	131	75.5	84.3
EG-30-SPDN-W	2,6	75.0	63	0	131	75.5	82.2
EG-35-PIDN-S	1,2,7,11	100.0	83	0	0	96.1	82.9
EG-35-SPDN-S	2,7,11	100.0	83	0	0	96.2	81.3
EG-35-PIDN-W	1,2,6	100.0	84	0	124	95.3	83.6
EG-35-SPDN-W	2,6	100.0	84	0	124	95.4	82.0
EG-40-PIDN-S	1,2,7,11	125.0	104	0	0	115.4	82.9
EG-40-SPDN-S	2,7,11	125.0	104	0	0	115.4	81.5
EG-40-PIDN-W	1,2,6	125.0	105	0	118	113.9	84.0
EG-40-SPDN-W	2,6	125.0	105	0	118	113.9	82.5
EG-45-PIDN-S	1,2,7,11	150.0	125	0	0	134.9	82.9
EG-45-SPDN-S	2,7,11	150.0	125	0	0	134.9	81.6
EG-45-PIDN-W	1,2,6	150.0	126	0	116	133.8	83.5
EG-45-SPDN-W	2,6	150.0	126	0	116	133.9	82.4
EG-50-PIDN-S	1,2,7,11	175.0	145	0	0	173.6	82.8
EG-50-SPDN-S	2,6,11	175.0	145	0	0	173.6	81.9
EG-50-PIDN-W	1,2,6	175.0	147	0	127	171.5	83.8
EG-50-SPDN-W	2,6	175.0	147	0	127	171.5	82.9
EG-55-PIDN-S	1,2,7,11	200.0	167	0	0	193.0	82.8
EG-55-SPDN-S	2,7,11	200.0	167	0	0	193.0	81.9
EG-55-PIDN-W	1,2,6	200.0	168				83.3
EG-55-SPDN-W	2,6	200.0	168	0	125	191.7	82.5
EG-65-PIDN-S	1,2,7	250.0	209	0	0	250.4	83.0
EG-65-SPDN-S	2,7	250.0	209	0	0	251.4	82.0
EG-65-PIDN-W	1,2,6	250.0	210	0	129	249.0	84.4
EG-65-SPDN-W	2,6	250.0	210	0	130	249.7	82.6
Cast Iron				PROPANE GAS		INDOOR	
EG-30-SPDL-S	2,7	75.0	63	0	130	75.1	82.6
EG-30-SPDL-W	2,6	75.0	64	0	128	73.7	84.2
EG-35-SPDL-S	2,7	100.0	85	0	123	94.7	82.5
EG-35-SPDL-W	2,6	100.0	85	0	121	93.3	83.7
EG-40-SPDL-S	2,7	125.0	106	0	118	113.0	83.2
EG-40-SPDL-W	2,6	125.0	107	0	116	111.4	84.3
EG-45-SPDL-S	2,7	150.0	127	0	115	132.7	83.0
EG-45-SPDL-W	2,6	150.0	128	0	130	149.9	84.0
EG-50-SPDL-S	2,7	175.0	146	0	126	169.8	83.7
EG-55-SPDL-S	2,7	200.0	170	0	123	189.5	83.5
EG-55-SPDL-W	2,6	200.0	171	0	122	187.8	84.2
EG-60-SPDL-S	2,7	250.0	211	0	129	248.6	82.8
EG-65-SPDL-W	2,6	250.0	214	0	127	245.2	84.0
GV SERIES 4							
Cast Iron				NATURAL OR PROPANE GAS		INDOOR	
GV-3	1,6,10	70.0	61	105	243	72.0	87.5
GV-4	1,6,10	105.0	92	105	204	91.0	87.3

Model Number	Footnotes	Heat Cap		Eae		AFUE	
		Input MBTUH	PE Watts	kWh/yr	Ef MMBTU/yr	MBTUH	Watts
GV-5	1,6,10	140.0	122	105	214	128.0	87.2
GV-6	1,6,10	175.0	153	105	221	165.0	87.0
PFG SERIES 6							
Cast Iron				NATURAL GAS		INDOOR	
PFG-5-PIDN	1,2,6	244.0	199	0	137	256.0	81.0
Additional Footnotes							
10. Direct Vent when installed with combustion air piping.							
11. Rating is also approved for boilers with prefix "P" where indicated by (*).							
WILLIAMSON-THERMOFLO							
GSA SERIES				NATURAL GAS		INDOOR	
Cast Iron				NATURAL GAS		INDOOR	
GSA-075N-S	2,7	75.0	62				81.0
GSA-100N-S	2,7	100.0	83				81.3
GSA-125N-S	2,7	125.0	104				81.5
GSA-150N-S	2,7	150.0	125				81.6
GSA-175N-S	2,7	175.0	145				81.9
GSA-200N-S	2,7	200.0	167				81.9
GSA-250N-S	2,7	250.0	209				82.0
Cast Iron				PROPANE GAS		INDOOR	
GSA-075L-S	2,7	75.0	63				82.6
GSA-100L-S	2,7	100.0	85				82.5
GSA-125L-S	2,7	125.0	106				83.2
GSA-150L-S	2,7	150.0	127				83.0
GSA-175L-S	2,7	175.0	146				83.7
GSA-200L-S	2,7	200.0	170				83.5
GSA-250L-S	2,7	250.0	211				82.8
GSA Series 1							
Cast Iron				NATURAL GAS		INDOOR	
GSA-075-N-I	1,2,7	75.0	62	0	0	76.6	83.0
GSA-100-N-I	1,2,7	100.0	83	0	0	96.1	82.9
GSA-125-N-I	1,2,7	125.0	104	0	0	115.4	82.9
GSA-150-N-I	1,2,7	150.0	125	0	0	134.9	82.9
GSA-175-N-I	1,2,7	175.0	145	0	0	173.6	82.8
GSA-200-N-I	1,2,7	200.0	167	0	0	193.0	82.8
GSA-250-N-I	1,2,7	250.0	209	0	0	250.4	83.0
GWA SERIES							
Cast Iron				NATURAL GAS		INDOOR	
GWA-052N-I	1,2,6	52.0	43				83.0
GWA-052N-S	2,6	52.0	43				80.2
GWA-070N-I	1,2,6	70.0	58				82.2
GWA-070N-S	2,6	70.0	58				80.1
GWA-105N-I	1,2,6	105.0	88				82.9
GWA-105N-S	2,6	105.0	88				80.4
GWA-140N-I	1,2,6	140.0	117				82.5
GWA-140N-S	2,6	140.0	117				80.4
GWA-175N-I	1,2,6	175.0	145				82.2
GWA-175N-S	2,6	175.0	145				80.5
GWA-210N-I	1,2,6	210.0	174				81.8
GWA-210N-S	2,6	210.0	174				80.5
GWA-245N-I	1,2,6	245.0	202				81.4
GWA-245N-S	2,6	245.0	202				80.5
Cast Iron				PROPANE GAS		INDOOR	
GWA-052L-S	2,6	52.0	43				80.4
GWA-070L-S	2,6	70.0	58				80.7
GWA-105L-S	2,6	105.0	88				81.4
GWA-140L-S	2,6	140.0	117				81.5
GWA-175L-S	2,6	175.0	145				81.6
GWA-210L-S	2,6	210.0	174				81.7
GWA-245L-S	2,6	245.0	202				81.8
GWJ SERIES							
Cast Iron				NATURAL OR PROPANE GAS		INDOOR	
GWJ-047*-I	1,6	47.5	40				83.0
GWJ-063*-I	1,6	63.0	53				83.3
GWJ-095*-I	1,6	95.0	79				83.0

STANDARD FOOTNOTES:

1. Electronic Ignition (No Standing Pilot)
2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
3. Power Combustion Or Power Vent
4. Condensing Type
5. Direct Vent (Includes Venting And Combustion Air Systems)

6. Hot Water
7. Steam
- # Rating Voluntarily Revised Since Last Directory
- * Rating Revised By Program Since Last Directory

Model Number	Footnotes	Heat Cap		AFUE %	Model Number	Footnotes	Heat Cap		AFUE %
		Input MBTUH	PE Watts				Eae kWh/yr	Ef MMBTU/yr	
WILLIAMSON-THERMOFLO									
<u>GWI SERIES</u>									
<u>Cast Iron</u>		<u>NATURAL OR PROPANE GAS</u>			<u>INDOOR</u>				
GWI-127*-I	1,6	127.0	106	82.7					
GWI-158*-I	1,6	158.0	131	82.4					
GWI-190*-I	1,6	190.0	157	82.1					
<u>GWS SERIES</u>									
<u>Cast Iron</u>		<u>NATURAL OR PROPANE GAS</u>			<u>INDOOR</u>				
GWS-063*-I	1,6	63.0	54	85.3					
GWS-095*-I	1,6	95.0	81	84.6					
GWS-127*-I	1,6	127.0	107	84.0					
GWS-158*-I	1,6	158.0	133	83.4					

STANDARD FOOTNOTES:

1. Electronic Ignition (No Standing Pilot)
2. Electro-Mechanical Vent Damper(s) Specified By The Boiler Manufacturer
3. Power Combustion Or Power Vent
4. Condensing Type
5. Direct Vent (Includes Venting And Combustion Air Systems)

6. Hot Water
7. Steam
- # Rating Voluntarily Revised Since Last Directory
- ⊗ Rating Revised By Program Since Last Directory