GP ENERGY PRODUCTS
Since 1953

GP Energy Products is the home of the Delaware Valley's leading system design specialists, repair technicians, and installation experts for advanced commercial and industrial heating processes. We have partnered with innovative equipment, accessory and controls suppliers enabling us to design unique heating system solutions for our customers.

BOILERS & BOILER ROOM EQUIPMENT

UNILUX

Bent & Tangential Watertube Boilers up to 1700 HP; Steam & Hot Water

Sellers MANUFACTURING CO.

Atmospheric, Pressurized & Split Tank Deatators, Single Pass Firetube Boilers

VIESSMANN

High Efficiency Vertical Firetube Condensing Boilers

SELKIRK COMMERCIAL & INDUSTRIAL

Positive Pressure Venting for Boiler Exhaust, Generator Exhaust, and Grease Duct Systems

BURNHAM Commercial Boilers

3 & 4 Pass Fire Tube Boilers Producing Hot Water, Low Pressure Steam & High Pressure Steam

RIELLO Energy For Life

High Turndown, Low NOx, Dual Fuel, Burners

SIEMENS Combustion Controls Division

Full Boiler Plant Control System Designed to Optimize Process Performance, Minimize Costs, Simplify Installation, and Ensure Safe Operation.

heatfab

High Quality Venting Systems for Special Gas Vent Applications

PREFABRICATED UNDERGROUND PIPING SOLUTIONS

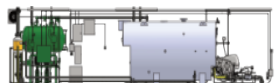**Rovanco Piping Systems** Since 1969

Preinsulated and fabricated above & underground piping for the following applications:

• LNG (Liquid Natural Gas) & Cryogenic Liquids
• Oil & Fuel
• Steam & Condensate

• Hot Water
• Chilled Water
• Potent & Process Waste

FABPRO

FabPro systems

Custom Fabricated Heat & Fluid Transfer Systems, Packaged Boiler Pump Plants, and Chiller Plants

GP Energy Products—Stacked and Staffed

GP Energy Products offers experts from all sides of the industrial heating and cooling industry. From industrial and mechanical engineering to equipment diagnostics to the installation of intricate industrial heating and cooling systems, our team is ready to help you.

Call us for:

- Boiler selection, installation & service
- Boiler repair and rentals
- Boiler venting
- Fluid pumping systems
- Heat transfer coils, tubes & equipment
- System controls
- Installation of pre-insulated piping systems
- Containment piping

We Have It All—24/7

Whether it is emergency repair, engineering design data, or product service, we are available with a single contact.

Service & Boiler Repair Manager
Todd Smith – tsmith@gpenergyproducts.com

General Manager
Christopher Pepe – cpepe@gpenergyproducts.com

Field Applications
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Conversion Tips & Tools

FUEL COST COMPARISON (2021)

Fuel	Btu/Gal		Eff%		Cost		Btu/$1.00	Cost Comparison
#2 Oil	14,000	x	.83	÷	$3.00	=	38,700	100% (Base)
#6 Oil	152,000	x	.83	÷	$1.80	=	70,100	55%
Nat. Gas	100,000/Therm	x	.80	÷	$0.58	=	137,900	28%
Elect.	3412/KwHr	x	1.0	÷	$0.14	=	24,400	159%

APPROXIMATE STEAM PRESSURE vs TEMPERATURE VALUES

Steam @	0 PSIG	212°F (100°C)
Steam @	10 PSIG	240°F (116°C)
Steam @	25 PSIG	267°F (131°C)
Steam @	35 PSIG	280°F (138°C)
Steam @	50 PSIG	298°F (148°C)
Steam @	75 PSIG	320°F (160°C)
Steam @	100 PSIG	338°F (170°C)
Steam @	125 PSIG	353°F (178°C)
Steam @	150 PSIG	366°F (186°C)
Steam @	200 PSIG	388°F (198°C)

EQUIVALENCIES

1 Blr HP = 34.4 lbs/steam/hr @ 212°F
1 Blr HP = 33,475 Btu/hr = 9.8 KW
1 KW = 3,412 Btu/hr = 1,000 watts
1 Electric HP = 746 watts

$$AMPS(3\ ph) = \frac{Watts}{Volts \times 1.73} \qquad AMPS(1\ ph) = \frac{Watts}{Volts}$$

1 cu. ft. = 1,728 cu. in. = 7.5 gal
1 cu. ft. of water = 62.5 lb. @ 68°F
1 gal. of water = 8.3 lb. @ 68°F = 231 cu. in.

Btu/hr = material wt. (lb./Hr) x Temperature rise (°F) x specific heat

SpecHt Water = 1.0   SpecHt Oil = 0.5