



Biomass Boiler



- HIGH EFFICIENCY,
LOW EMISSIONS
- AUTOMATIC FUEL FEED,
ASH REMOVAL AND
FLUE CLEANING
- COMMITTED SERVICE
PERSONNEL
- MORE ALTERNATIVE
FUEL OPTIONS
- ONE UNIT; MULTIPLE
APPLICATIONS
- HEAT YOUR GREENHOUSE,
BARN, OFFICE, SCHOOL,
CARWASH AND MORE...





The *Pelco Light Industrial Biomass Boiler* connects directly into the existing heating system in a barn, greenhouse, office, factory, home, shop or other building **via a heat exchanger**, ideally through a flat plate heat exchanger installed near the *Pelco* unit.

The *Pelco* is designed with a central firebox surrounded by a large capacity water reserve. The firebox and flue design provides maximum surface area for the **most efficient heat transfer**. After the water is heated, it is channelled to the building's heating system through underground insulated pipes.

Applications



GREENHOUSES

Major greenhouse operators across North America have saved on heating by installing one or several *Pelco* units. A properly plumbed *Pelco* is ideal for heating a series of greenhouses.



BARNs

Poultry, hog and dairy producers have found the *Pelco* to be an ideal choice for keeping animals warm year round.



HOMES

The *Pelco* can heat homes as well as pools and domestic hot water. When used in an industrial application, the *Pelco* can often provide heat for a residence on the same property.

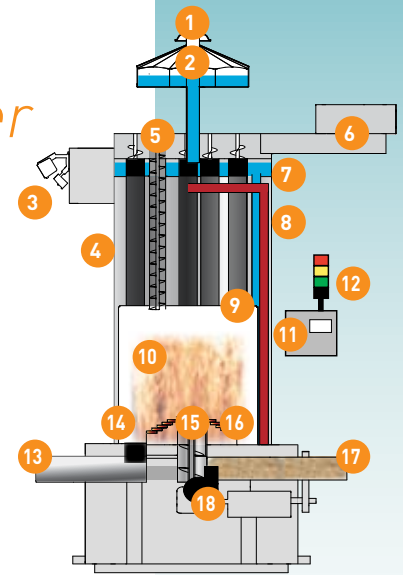


SCHOOLS, FACTORIES, OFFICES AND MORE...

The *Pelco* is versatile, with heating options for any type of building. *Pelco* boilers have been installed in schools, office buildings, car washes, factories, public swimming pools and more. Whatever your application, there is a *Pelco* for you.



- | | | |
|----------------------------------|--------------------------------------|--|
| 1 Open Pressure Vent | 9 Exhaust Flue | <i>Pelco
Biomass Boiler
Up Close</i> |
| 2 Expansion Water Tank | 10 Firebox | |
| 3 Work Light | 11 Computerized Control Panel | |
| 4 Boiler Plate Steel Fabrication | 12 Highly Visible Operational Beacon | |
| 5 Flue Cleaning Augers | 13 Auto Ash Removal Auger | |
| 6 Exhaust Blower | 14 Auto Ash Ring | 16 Burner
(CL Model as Shown) |
| 7 Cold Return Water | 15 Vertical Feed Auger | 17 Auto Fuel Feed Auger |
| 8 Hot Water Out
180°F Max | | 18 Adjustable Combustion Blower |



INSTALLATION OPTIONS

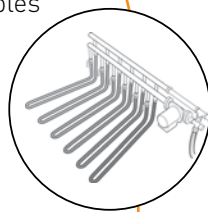
Domestic Hot Water

Hot water from the *Pelco* flows through a side arm heat exchanger on the existing hot water heater.



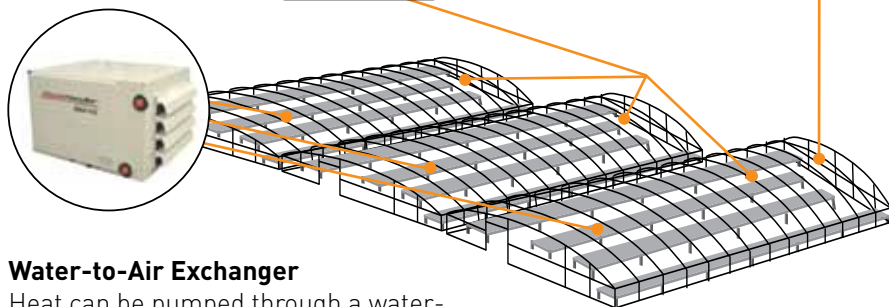
Radiant Heating

Hot water flows through tubes in the floors of a building or the tables in a greenhouse to provide consistent heat.



Flat Plate Heat Exchanger

Typical installation.



Water-to-Air Exchanger

Heat can be pumped through a water-to-air exchanger to distribute heat inside a building. Pro-Fab Industries also offers the efficient *HeatHandler* water-to-air heat exchanger which is ideal for greenhouses.

Multiple Ports

With multiple ports, a single unit can be used in several applications at once.

Features

CONVENIENCE

- Automatic flue cleaning
- Automatic feed auger
- Automatic ash removal
- Hinged roof for easy access
- Indoor or outdoor installation
- Multiple hookup ports

SAFETY

- Warning beacon
- Locking firebox door and secure control panel
- Dual door firebox access
- Non-pressurized system
- Certified boiler plate steel construction
- Warnock Hersey Certified to CSA Standard B366.1-M91

EFFICIENCY

- Multiple fuel options
- Specialty flue system for reduced emissions
- Stoker designed for efficient burning and minimal clinkers
- Adjustable combustion air intake and exhaust

TESTIMONIAL



This is to express our appreciation for the good work Pro-Fab has done in developing the Pelco heating system. We heat a 20,000 ft² office building with a Pelco 1020 and couldn't be more pleased with its performance. We don't have any interruptions at all. It just keeps on burning.

Kenneth Maki

RIVER'S EDGE PROFESSIONAL BUILDING, HAYWARD, WI

FUEL COMPARISON

The *Pelco Biomass Boiler* is designed to adapt to the ideal alternative heating fuel for your application. These are a few of the most common fuels used in the *Pelco*:



Wood Pellets Wood pellets are becoming more accessible in many parts of the country and are a clean burning, cost effective fuel.

Ag Residue Cubes Recycle agricultural waste and save money by heating with pelletized oat hulls, wheat screenings or some grasses. In some regions, corn is also a cost effective heating option.

Coal (Lignite/Sub-Bituminous) Coal is easily found in many regions at a low cost. *Pelco's* clean burning technology makes coal a great alternative to imported fossil fuels.

Ask your *Pelco* dealer about local fuels available.

Sizes and Models

	PC 1020		PC 1520		PC 2520	
Height	10 ft.	3 m	11 ft.	3.4 m	11 ft.	3.4 m
Width	53 1/2 in.	136 cm	61 1/4 in.	156 cm	73 1/4 in.	186 cm
Water Capacity	130 US gal.	492 L	220 US gal.	833 L	350 US gal.	1,325 L
Shipping Weight	4,500 lbs.	2,041 kg	5,400 lbs.	2,449 kg	7,500 lbs.	3,402 kg
Burner Size	20 in.	51 cm	28 1/2 in.	72 cm	36 1/2 in.	93 cm
Maximum Output BTU*	500,000		1,000,000		1,500,000	
Computerized Controls	Included		Included		Included	
Electrical Requirements	220V / 20 amp		220V / 20 amp		220V / 20 amp	
Outlet Fitting Sizes	1 1/2 in.	3.8 cm	2 in.	5.1 cm	2 1/2 in.	6.4 cm

*BTU numbers indicated are approximate output values based on fuel value of 8,000 BTU/lb at sea level.

Pro-Fab Industries Inc., founded in 1989, is North America's premier designer of alternative heating products. With six manufacturing facilities across three countries, *Pro-Fab Industries* has the widest range of high efficiency alternative energy clean burning units on the market.



Manufactured by:
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Your Authorized **PELCO** Dealer