



## Light Industrial Biomass Boiler



- HIGH EFFICIENCY, LOW EMISSIONS
- AUTOMATIC FUEL FEED, ASH REMOVAL AND FLUE CLEANING
- COMMITTED SERVICE PERSONNEL
- MANY ALTERNATIVE FUEL OPTIONS
- *EASY-TOUCH* ONLINE ELECTRONIC CONTROL INTERFACE
- ONE UNIT; MULTIPLE APPLICATIONS
- HEAT YOUR GREENHOUSE, BARN, OFFICE, SCHOOL, CARWASH AND MORE
- FAST PAYBACK





# Simplicity, Reliability, Durability

The *Pelco Light Industrial Biomass Boiler* can be connected directly into the existing heating system in a barn, greenhouse, office, factory, 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.

## HOTELS

The Terelj Hotel in Mongolia utilizes 7 *Pelco* 2520's to heat luxury suites, restaurants, a pool pavilion, spa and conference facilities.

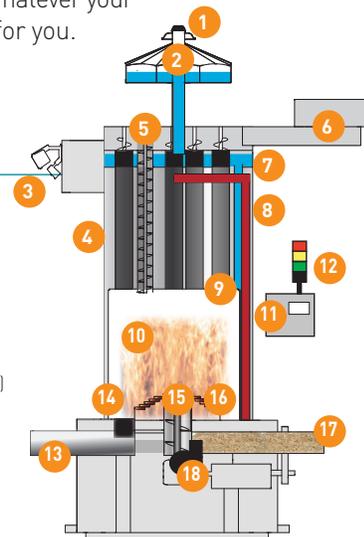
## SCHOOLS, FACTORIES, OFFICES AND MORE...

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.

## Easy to Operate with Simple Controls

### Take a Closer Look

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



## Easy-Touch Electronic Control Panel

New to the *Pelco Biomass Boiler* is the state of the art electronic display. This user interface provides full control over the boiler. The simple display allows management of the boiler with touch sensitive controls.

With the revolutionary online surveillance software, there is no need to leave the comfort of the indoors to monitor and manage the boiler. All that is required to access the controls is a computer with an internet connection and a router. With the *Easy-Touch Electronic Control* software, warnings will be

sent directly to an email address or smart phone and full control can be accessed at a moment's notice.

- On screen real time monitoring
- Error messages sent directly to an email address or smart phone
- Off-site adjustments made through an internet connection
- One piece PLC and touch display



## INSTALLATION OPTIONS

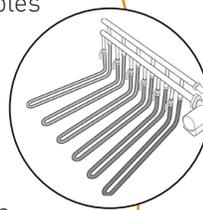
### Home Heating

With dual ports, the *Pelco* can be expanded to include on-site locations such as a home, garage or workshop, in addition to the primary heat load.



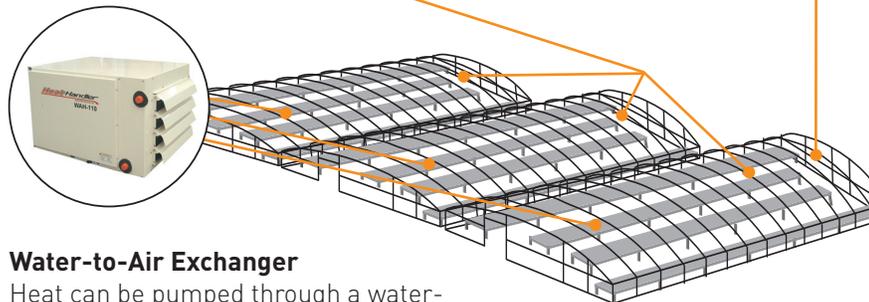
### Radiant Heating

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
- Easy-Touch controls

### 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

## 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.



## TESTIMONIAL



Pat Wohlgemuth heats two greenhouses and a packing house, 12,070 ft<sup>2</sup> in total, with one Pelco 2520. "I've operated coal boilers in the past and I wasn't a fan of them. They are a far cry from the Pelco," Pat says. "My Pelco 2520 is far superior, easier to handle, convenient, reliable and durable. My favorite feature is the easy to use electronic controls and warning lights. On a cold winter day it's easy to tell everything is alright at a glance. It saves me a lot of work."



**Pat Wohlgemuth**  
Neva Hydroponic Farms, Landmark, MB

## Specifications

	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	146.5 kWh	1,000,000	293.1 kWh	1,500,000	439.6 kWh
Computerized Controls	Included		Included		Included	
Electrical Requirements	220V / 20 amp		220V / 20 amp		220V / 20 amp	
Outlet Fitting Sizes	1 1/2 in.		2 in.		2 1/2 in.	
Limited Warranty	6 Year		6 Year		6 Year	

\*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 five manufacturing facilities across three countries, *Pro-Fab Industries* has the widest range of EPA qualified clean burning units on the market.



Manufactured by:  
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