



Biomass Fuel System 12-300 KW

Fuel system

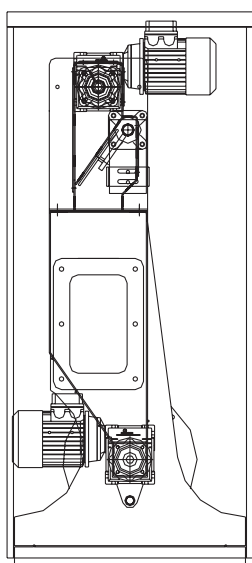
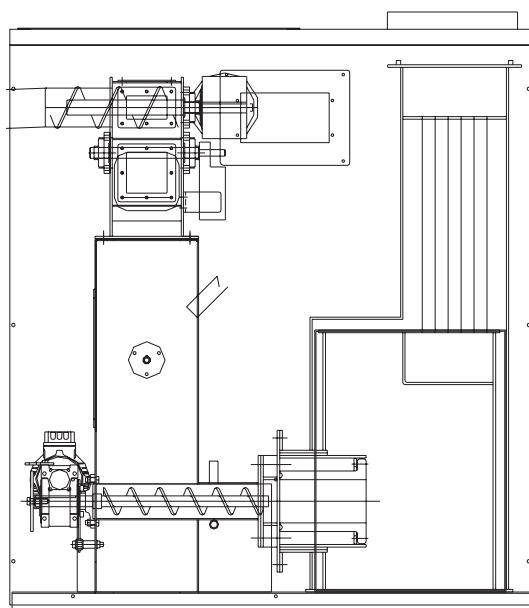
- for wood pellets, wood chip etc.

Fuel economy - Safety - Quality



Technical Data PH12-23-47

PH Central System



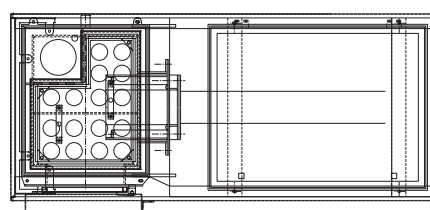
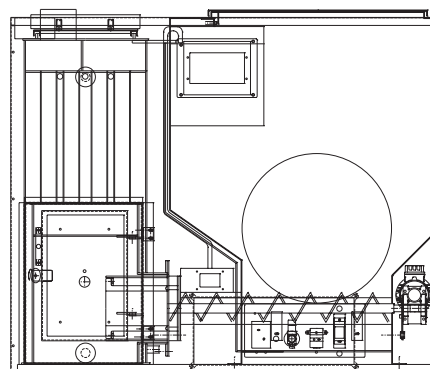
The P&H systems are delivered in sizes ranging from 12 kW to 97 kW.

The P&H systems are delivered with standard magazine or with feeding unit from external silo.

The P&H systems are tested and approved by the Danish Technological Institute (DTI).

Furthermore, PH12 is labelled with the Nordic ecolabel (Svanemærket).

PH Compact System



Combustion system:

The P&H systems are all equipped with a special designed burning pipe made of alloy cast iron. This construction facilitates a very high combustion temperature in the burn zone, which enables an optimal combustion.

Controlling:

The systems are as standard installed with fully modulated oxygen control.

Options:

Compact system with magazine
Central system with automatic silo system
Stirring system for wood chip etc.

Important installation info:

The smoke outlet should be as follows:
(Min./max. capacity)

PH12: 10-20Pa / PH23: 15-25Pa / PH47: 15-35Pa.

Tested at DTI (The Danish Technological Institute (EN 303-5 standard))

Type		Power	Efficiency rate	Dimensions* WxLxH cm	Smoke pipe	Weight	Pipe stub	Oxy. control Standard	Accessory Ash Worm	Biomass fuel
PH12Compact	Magazine 300L	2.3-12kw	92	60x120x135	Ø133	550kg	1"	X		Wood pellets
PH12Central	External silo	2.3-12kw	92	60x120x135	Ø133	550kg	1"	X		Wood pellets
PH23Compact	Magazine 600L	4.5-23kw	91	70x160x135	Ø133	600kg	1"	X	X	Wood pellets/corn
PH23Compact F	Magazine 600L	4.5-23kw	91	70x160x135	Ø133	650kg	1"	X	X	Wood pellets/corn/wood chip
PH23Central	External silo	4.5-23kw	91	70x160x135	Ø133	600kg	1"	X	X	Wood pellets/corn
PH23Central F	External silo	4.5-23kw	91	70x160x135	Ø133	600kg	1"	X	X	Wood pellets/corn/wood chip
PH47Compact	Magazine 850L	9.0-48kw	92	80x242x150	Ø155	800kg	1 1/4"	X	X	Wood pellets/corn
PH47Compact F	Magazine 850L	9.0-48kw	92	80x242x150	Ø155	850kg	1 1/4"	X	X	Wood pellets/corn/wood chip
PH47Central	External silo	9.0-48kw	92	80x171x150	Ø155	800kg	1 1/4"	X	X	Wood pellets/corn
PH47Central F	External silo	9.0-48kw	92	80x171x150	Ø155	800kg	1 1/4"	X	X	Wood pellets/corn/wood chip

* Indicated measurements is only guiding

Technical Data PH97 Fuel System

The PH97 systems are specifically designed for industry etc.

Dimensions:	Width:	1000 mm
	Length:	1350+900 mm
	Height:	1650 mm
	Smoke pipe:	Ø180 mm
	Weight:	1200 kg
	Water content:	225 Liter
	FL / RL:	1 1/4"

Data:	Full load wood pellets:	97 kW
	Low load wood pellets:	22 kW
	Full load corn:	80 kW
	Low load corn:	18 kW
	Max. working temp.:	80 C
	Max. working pressure:	2,5 bar
	Smoke outlet:	15-35 Pa.
	Efficiency:	94 %



P&H-Stoker:

Maximum comfort - Fuel economy
- Safety - Quality

The fuel consumption is very low due to the oxygen control and the specially developed combustion tech (efficiency from 91% to 94%)

- High efficiency at low performance
- Compact design and smart finish
- Low CO emission (<0,004)
- Low noise level.
- A minimum of care and maintenance
- Maximum safety with P&H oxygen control
- Easy to install and to service
- Easy to operate
- Easy to maintain
- Economically profitable
- The system is labelled by the Nordic ecolabel (Svanemærket).
- The specified efficiencies are based on wood pellet calculations. When other biomass fuels are used a lower efficiency rate should be expected

By pure optimal combustion and CO2 neutral biomass fuels P&H Energy protects our environment!

Stirring system - for wood chip



Solid fuel boiler - for closed system

- EN 303-5 tested at DTI
- large filler door
- solid cast iron grates
- easy to maintain
- 0.5 meter wood logs
- must be mounted with buffer
- approx. 20 kW power





Since 1997, the P&H Energy biomass fuel system, PH-Stoker, has been on the Danish market. Here, it has established a prominent market position due to its high effectiveness, low noise level, compact design and its smart finish.

P&H seeks to:

- Satisfy customer demands and expectations by delivering biomass fuel systems with maximum output and reliability, which require minimum service and maintenance.
- Ensure customers well functioning solutions and professional counselling and service by selling the P&H systems through approved and authorised dealers.
- Be world leading in development, manufacturing and sales of small and medium biomass fuel systems.

P&H Energy has a great network of professionally qualified service centres. Our partners are specifically trained at our factory. This will guarantee you the best possible counselling before and after you have purchased our products.

This brochure only gives a small insight into our program. Please contact us for more information and counselling.



Erritsø Møllebanke 11
7000 Fredericia
Danmark
Tlf. +45 70 23 88 11
info@ph-energy.dk
www.ph-energy.dk