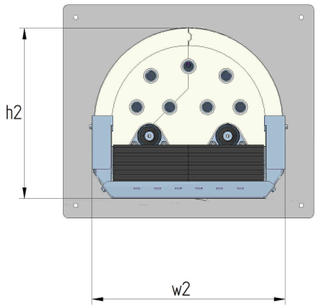
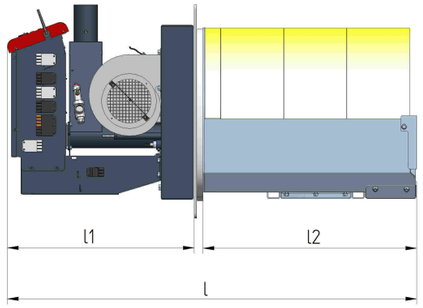
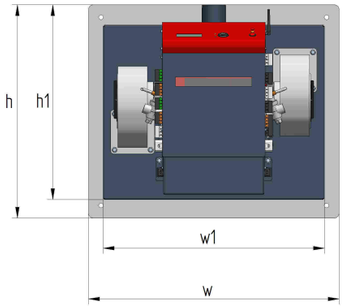
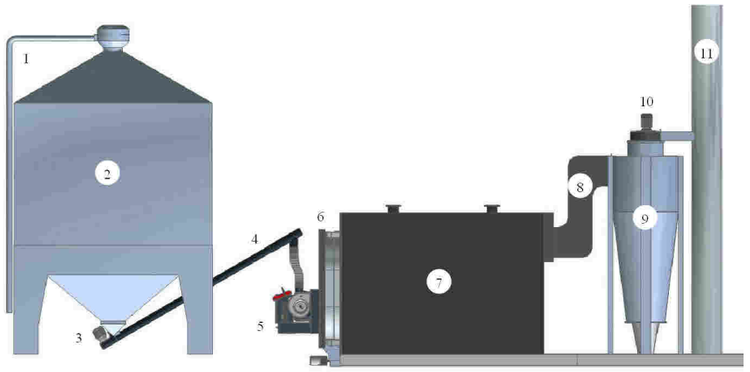




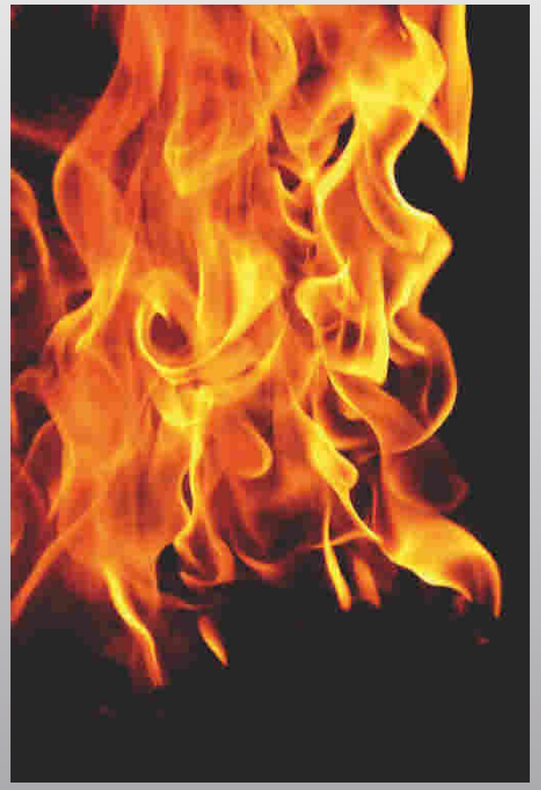


Model		PV350a	PV500a	PV700a	PV1000a
Fuel		wood pellets 8..10mm, ash content < 0,7%			
- Maximum fuel consumption	kg/h	75	120	150	215
Power output					
- burning at maximum	kW	350	560	700	1000
- burning at minimum	kW	100	160	200	250
- heat up	kW	30	40	50	70
- holding flame	kW	6	12	12	12
Boiler requirements					
- Minimum diameter of furnace	mm	600	700	700	800
- Minimum length of furnace	mm	1700	2000	2200	2500
Fluegas					
- Maximum amount (at 200°C)	m^3/h	900	1400	1800	2500
- Optimal O_2 concentration	%	4...6	4...6	4...6	3...6
- Required chimney diameter *2	mm	200	250	300	350
- Furnace underpressure min/optimal/max	Pa	5/10/30	3/10/30	3/10/30	3/10/30
Power supply		230/240V, 50/60Hz,16A			
Electrical power consumption*3					
- burning at maximum	W	450	500	550	700
- burning at minimum	W	150	160	190	250
- igniting	W	1100	1100	1100	2100
- standby	W	20	20	20	20
Overall dimensions (L/W/H)	mm	942/500/392	1065/606/523	1190/606/598	1306/800/621
Pellet inlet diameter	mm	76	76	76	76
Burner body dimensions (L1/W1/H1)	mm	438/500/392	480/606/523	592/606/598	624/706/621
Burning chamber dimensions (L2/W2/H2)	mm	496/363/349	585/506/452	590/528/451	682/614/545
Burner weight (with package)	kg	95 (125)	150 (185)	165 (200)	230 (280)

*2 - fluegas max temp 200°C and fluegas fan is used
*3 - without fluegas fan consumption



1. Pellet silo filling tube
2. Pellet silo
3. Motor for the external auger
4. External auger pipe
5. Pellet burner
6. Boiler door
7. Boiler
8. Connection between boiler and ash cyclone
9. Ash cyclone
10. Fluegas fan
11. Chimney



pelltech BURNERS

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INDUSTRIAL PELLET BURNERS

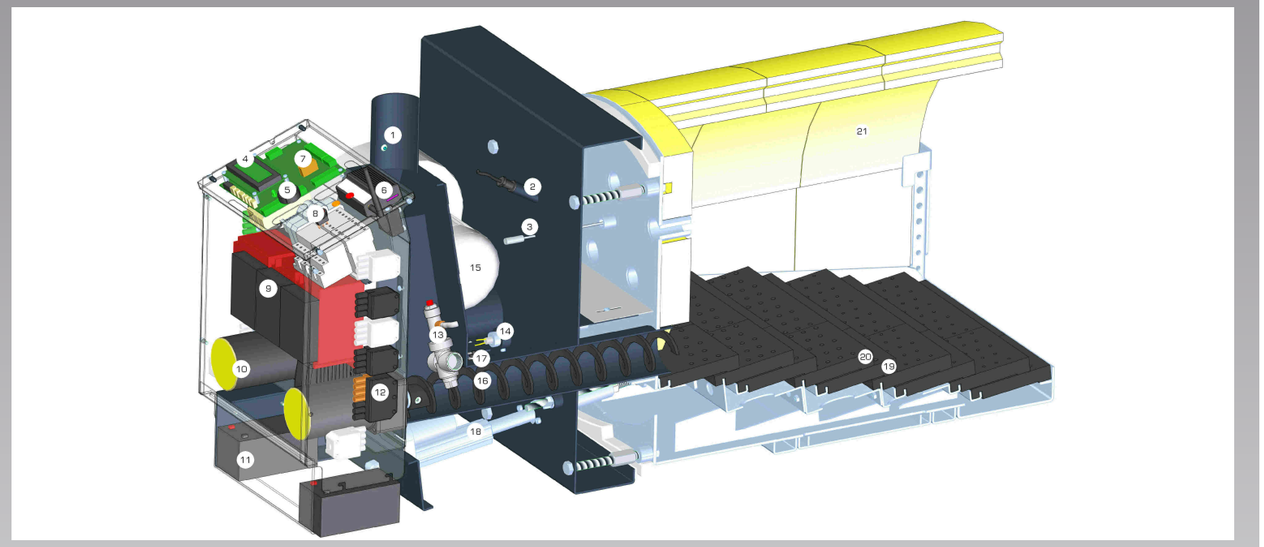
PV350a/ PV500a/PV700a/PV1000a

Giving up on gas or oil has never been easier

Combustion of wood pellets is the right way to go.

The totally NEW „agri“ family of industrial pellet burners serves as an effective and inexpensive solution to use in different heat demanding systems. Fully automated burner with integrated control system allows fast installation and easy startup of the system.

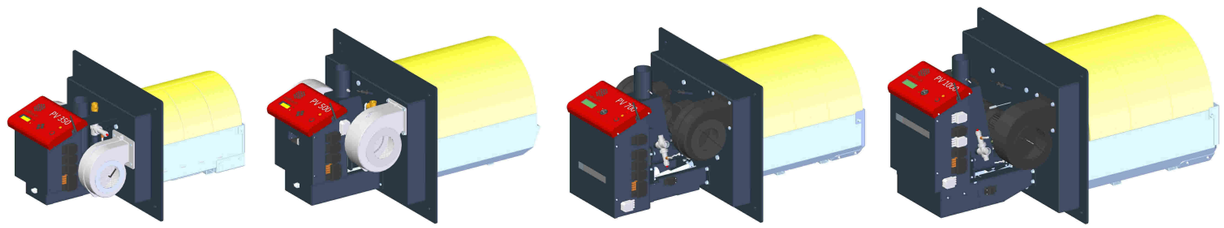
Pelltech burners can be used with different oil or wood boilers, steam generators, dryers, evaporators, etc.



Our burners guarantee high quality combustion, because they have:

- **Hot burning chamber** made from thermal shock resistant refractory tiles ensures complete combustion
- Separate fans for **primary** and **secondary** air allow to burn efficiently also at low power output and at low oxygen level in fluegases.
- **Internal feeder** fuel dosage enables stable pellet supply.
- **Fan speed regulation** and -control allows a precise air supply at different power levels.
- **Draft control** manages the exhaust fan and holds stable underpressure in the burning chamber.
- Automatic **burning chamber cleaning** with stepper grate system holds burning conditions stable during a long period
- **Single-point ignition**: all igniter heat is concentrated into one point for a fast and fumeless ignition
- Intelligent **burner controller** selects optimal burning parameters depending on the burn cycle or the boiler temperature.

1. Fuel level sensor
2. Flame sensor
3. Tile temperature sensor
4. Control board
5. Keyboard
6. GSM/GPRS modem
7. Underpressure sensor
8. ON/OFF switch
9. Inverters for flue gas fan and air fans
10. Feed screw motor
11. Backup battery
12. Plugs
13. Water sprinkler system
14. Igniter
15. Fan
16. Feed screw
17. Safety thermostat
18. Grate actuator
19. Stationary grates
20. Moving grates
21. Burning chamber tiles



Safety

Protection against back-burning:

- **Backup battery** insures the completion of the burning cycle to avoid back-burning
- Periodic work of **internal auger** in standby mode and in error condition
- **Flame retardant melting hose**
- **Underpressure sensor** controls the pressure in combustion chamber and locks out the burner in case of draught dismiss.
- **Water sprinkler system** with a pressurized water tank and self-opening valves

Usability

- **Interface**: the burner gives clear information about the current state and shows setup parameters on the display
- **Automatic ash removal** periodically cleans the burning chamber
- **Hold flame option** enables a faster startup
- **Fuel amount counter**: counts the total amount of fuel burned with this burner and shows the fuel amount burned in certain time period.
- **A boiler temperature sensor** can be installed for the continuous operation of the burner
- **GSM modem** notifies about errors and working conditions via SMS