



**Industrial, cascade  
and mobile boiler rooms**



**[www.verner.cz](http://www.verner.cz)**



# AUTOMATIC BOILER ROOMS VERNER

Automatic boiler rooms are specially designed units for comfortable and economic burning of biomass in many forms. These boiler rooms may consist of industrial boilers VERNER GOLEM with rated power 90 – 10 000 kW or cascades from automatic boilers VERNER with rated power 25 – 300 kW. For cases, when is necessary the maximum flexibility with minimum requirements for construction works, it is suitable to use a mobile boiler room with rated power 25 – 900 kW.

## Why automatic boiler rooms VERNER?



### From the beginning in a leading role in innovation

Over 20 years of experience with burning of biomass, own development and Czech precise processing can guarantee you high technical quality and long lifetime. The reward for our long-term research and development work are international honors, recognition of experts and especially your satisfaction.

### Fire like passion

Comfort, robust design, low operating costs, safe operation and of course also above standard high efficiency and perfect burning controlled by intelligent regulator. All this is represented by modern VERNER boilers, that can optimally burn more than 60 types of fuel.



### Automatic operation

Boilers are controlled by advanced regulator or by computer. Standard is the automatic ignition, automatic deashing, boiler shutdowns and keeping of set water temperature or also steam pressure in case of industrial boilers.

### Freedom in choice of fuel

The diversity of biofuels has almost no limits. Regarding VERNER boilers, you can combust not only wood or alternative pellets, but also nontraditional fuels e.g. cereal residues, maize, moldings of rape and tens of other types of fuel. Regarding industrial boilers VERNER, you can also combust wood chips and green wood chips, sawdust and also hay or straw. You can always choose currently cheapest fuel on the market.



### Turnkey realization

Don't you have time or just don't you want to deal with arranging of all issues related to your new heating system? Leave your worries on professionals. You can rely on us from design to final installation including professional training.

### Support of regional economy

Creation of values in the production and use of local biofuels directly helps to regional economic. This also significantly increases independence from imported energy and also reduces unemployment.





# INDUSTRIAL BOILERS

The industrial boilers VERNER GOLEM with rated power from 90 kW up to 2 500 kW (in cascade up to 10 000 kW) are designed for producing of warm and hot water or low-pressure and medium-pressure steam. Generally are designed for automatic and economic burning of biomass in different forms with moisture up to 50%.

Combustion proceeds in place with a water-cooled bottom. Burning is regulated by computer on the basis of attained water temperature, data from lambda probe, temperatures and underpressure in the heating chamber. Thanks to advanced regulation, we can guarantee high efficiency and low fuel consumption. The silo has a movable bottom that prevents from vaulting of the fuel and ensures its equal and automatic supply. The reservoir of fuel can be designed from one day up to few months of fuel supply. Standard is the automatic ignition, automatic deashing, boiler shutdowns and keeping of set water temperature or steam pressure.

Boiler type	Total rated capacity (kW)	Fuel	Version
<b>GOLEM 90</b> (compact)	90	wood chips, sawdust, pellets, agropellets	warmwater
<b>GOLEM 225</b> (compact)	225	wood chips, sawdust, pellets, agropellets	warmwater
<b>GOLEM 350</b> (burner + extension chamber + exchanger)	350	wood chips, sawdust, pellets, agropellets	warmwater, hotwater, steam
<b>GOLEM 600</b> (burner + exchanger)	600	wood chips, sawdust, pellets, agropellets, straw	warmwater, hotwater, steam
<b>GOLEM 900</b> (burner + exchanger)	900	wood chips, sawdust, pellets, agropellets, straw	warmwater, hotwater, steam
<b>GOLEM 1800</b> (burner + exchanger)	1 800	wood chips, sawdust, pellets, agropellets, straw	warmwater, hotwater, steam
<b>GOLEM 2500</b> (burner + exchanger)	2 500	wood chips, sawdust, pellets, agropellets, straw	warmwater, hotwater, steam

## Examples of use of GOLEM boilers:

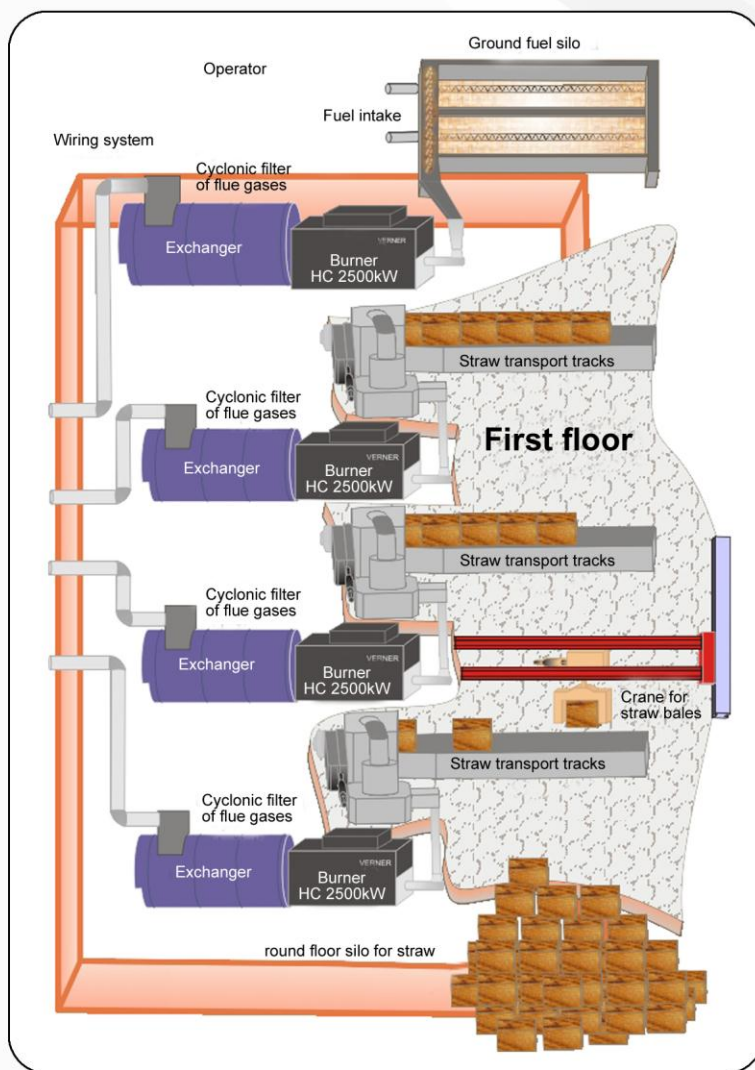
- 🔥 Central heating of cities, towns or blocks of flats
- 🔥 Sub-central heating of schools, companies, hospitals etc.
- 🔥 Usage in production technologies, drying etc.

## Fuels:

- 🔥 Wood chips
- 🔥 Green wood chips
- 🔥 Straw
- 🔥 Wood pellets
- 🔥 Agropellets
- 🔥 Shredded paper

## Version

- 🔥 Warmwater
- 🔥 Hotwater
- 🔥 Steam



Right: the example of cascade boiler room consisting of industrial boilers VERNER including transport tracks and fuel intake.



# CASCADE BOILER ROOMS

Cascade boiler rooms are optimum solution for current problems of big, medium and small consumers of heat and domestic hot water such as schools, authorities, hospitals, companies, agricultural buildings, but also blocks of flats and whole town districts.

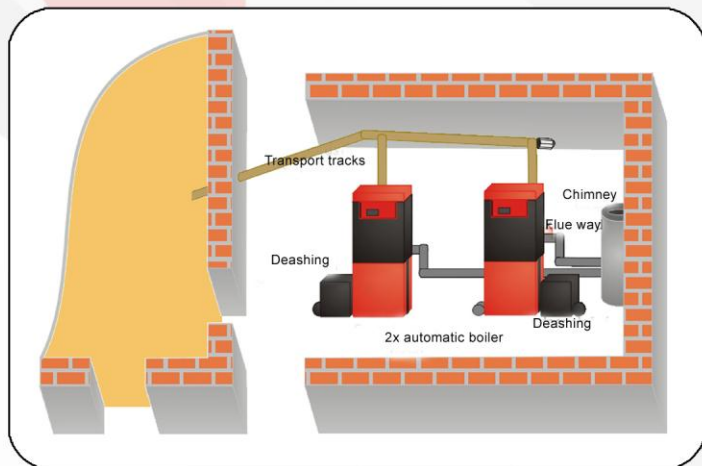
The basis of cascade boiler room is the cascade of boilers, so the system connection of few boilers in one row behind or next to each other. Due to the possibility of wide choice of VERNER boilers suitable for cascades, this connection enables to adjust the system of cascade boiler room according to heat loss calculation and also to needs of quantity of domestic hot water.

The big advantage of cascade boiler room is very wide range of regulation that enables long-term operation at low power. It is possible to switch on as much boilers as it is necessary at the time. Number of boilers to be in operation is electronically controlled.

Cascade boiler rooms can be equipped with automatic boilers, gasification boilers for lump wood or with industrial boilers VERNER GOLEM. Suitable is also combination of different types of boilers VERNER. We have practical and verified experience with power from 50 to 10 000 kW.

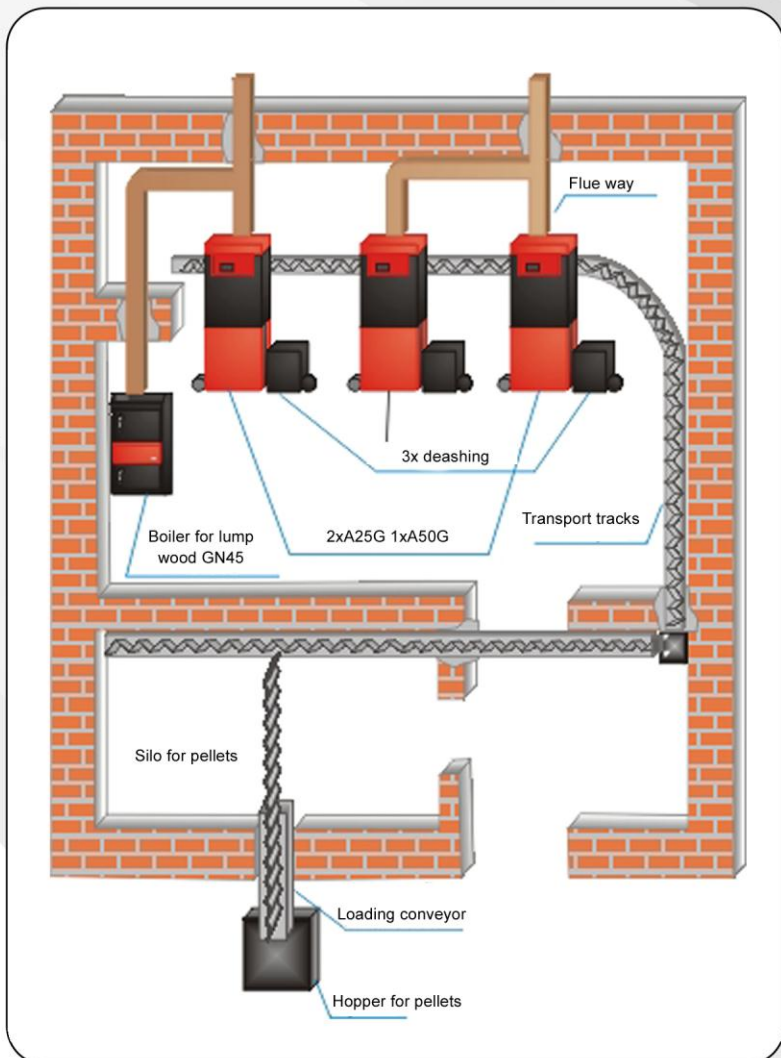
## Benefits of cascade boiler room:

- 🔥 Extraordinary investment profitability
- 🔥 Excellent operating economy
- 🔥 Automatic operation
- 🔥 Perfect regulation
- 🔥 Wide range of output
- 🔥 Possibility of combination of different types of boilers, it means independence on one type of fuel



Up:  
the example of cascade boiler room composed of two automatic boilers VERNER, including transport tracks, fuel storage and automatic deashing.

Right:  
illustration of cascade boiler room composed of three automatic boilers VERNER for biomass and one boiler VERNER for lump wood. The part of boiler room is a fuel depot including hopper for receiving of fuel.





# MOBILE BOILER ROOMS

Mobile boiler rooms are specially designed as a flexible equipment for heating of industrial halls, family houses, schools, hospitals, health centers etc. The biggest advantage of these mobile boiler rooms is large variability of use. Mobile boiler rooms can be used as a backup or emergency boiler room, which can be moved according to necessity from one place to another. Mobile boiler room can be used also as a backup boiler room for big companies, schools, villages, family houses or as a main boiler room on places, where you would have to invest big amount of money for building or reconstruction of boiler room. Moreover against building of new classic boiler room, under certain circumstances, it is not essential to solve long processing of building permit.

Mobile boiler rooms can be equipped with automatic boiler, gasification boiler for lump wood or even with industrial boiler VERNER GOLEM with power up to 900 kW.

The basic equipment of the mobile boiler room is a boiler, large silo, complete transport tracks including wiring system, expansion tank, mixing armature, pumps and safety features. The boiler room may also include an external automatic deashing, GSM communication and other accessories.

The containers for placing of boiler rooms are thermally insulated. These containers have a metal floor and walls. Mobile boiler rooms are also equipped with electric switchboard and lighting.

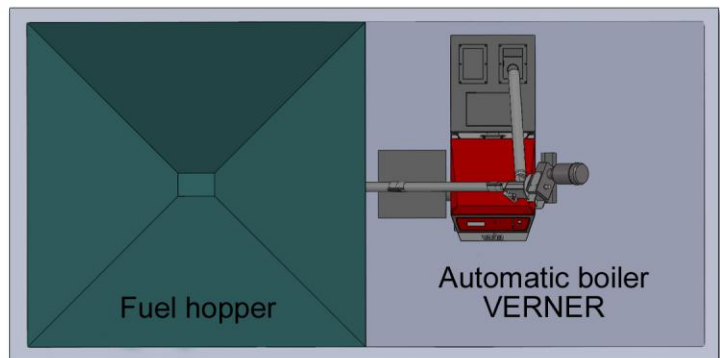
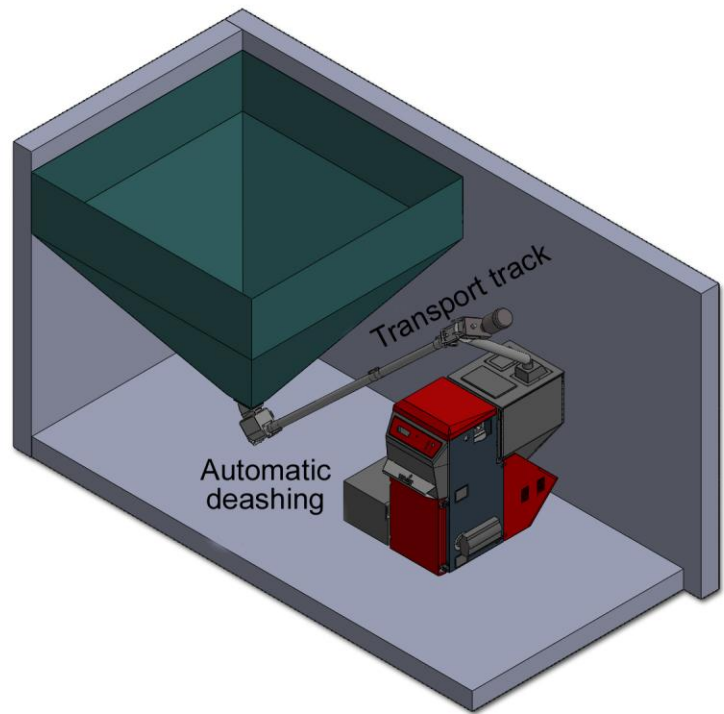
Each boiler room is subject to intensive output control and therefore it is ready for immediate operation. Whole boiler room is an ideal combination of heating, eventual heating of domestic hot water and at the same time also clever storage space.

## Benefits of mobile boiler room:

- 🔥 Favorable cost-building opportunities
- 🔥 Quick and easy installation
- 🔥 Wide possibility of use
- 🔥 Enormous space savings
- 🔥 Simplified transfer to biomass
- 🔥 Excellent operating economy
- 🔥 Automatic operation



Up:  
view in mobile boiler room.



Right:  
this mobile boiler room consists of automatic boiler VERNER for biomass. Part of the boiler room is a fuel hopper, transport tracks, automatic deashing and it is possible to order other equipment.



# Examples of realizations



Spálený- Dřevěné Lišty  
VERNER GOLEM 1 800 kW



Žlutická teplárenská a.s.  
Cascade of boilers VERNER GOLEM



Collective farm Unčovice  
Mobile boiler room 50 kW



High school Uničov  
A501G and VERNER GOLEM 225 kW



SEMO Smržice  
VERNER GOLEM 1 800 kW



Hotel Tanečnice Pustevny  
Cascade of automatic boilers VERNER



Pension Bejčkův Mlýn  
Cascade of automatic boilers VERNER



Health center Broumov  
Cascade of automatic boilers VERNER



Municipal office and sports hall Vlčice  
Cascade of automatic boilers VERNER

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