ARITERM PELLET SYSTEM

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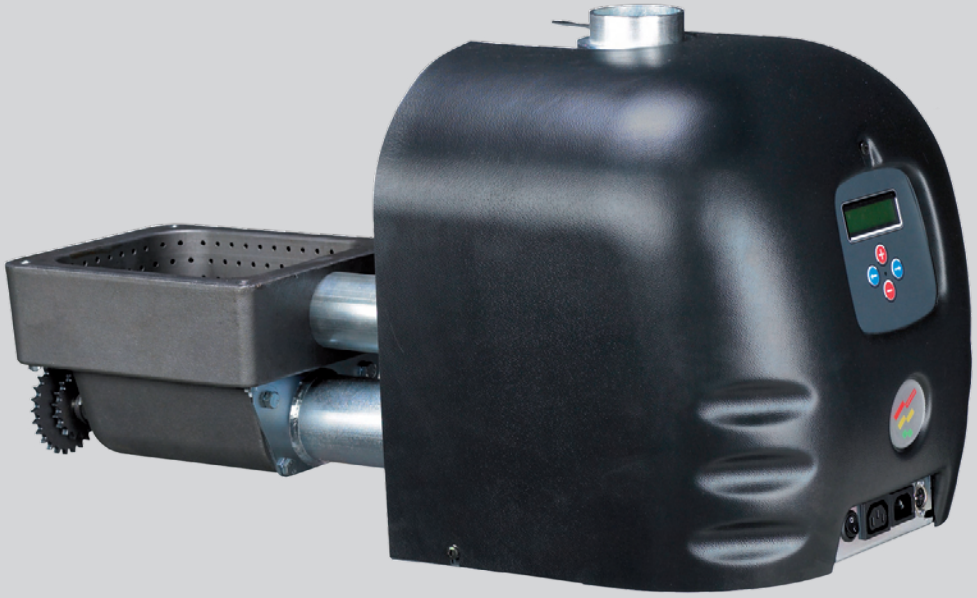
For a sustainable future

PELLET BURNER BEQUEM 50D



Ariterm BeQuem 50D fulfills the highest requirements to provide you with convenient and effective pellet heating!

There is now a new version of Ariterm's pellet burner, BeQuem, specially adapted for larger detached houses and properties.

BeQuem 50D is one of the most reliable products available on the market today. The design is very robust with vitally important parts made of heat-resistant cast iron, which ensures long service life and minimal maintenance costs. A unique overpressurised system reduces sensitivity to external influences and secures the operation, even under unfavourable conditions.

Automatic control

The control system is specially designed for pellet heating and permits efficient control at 3 different settings. The control display provides information about operational status, such as, boiler temperature, exhaust temperature, rate of pellet consumption, amount of pellets remaining in storage, warning functions, etc.

From the point of view of convenience, the pellet burner shows its true dvantages when used as part of the complete BeQuem® pellet system with feeding from a storage container which is filled by the pellets being blown in from a bulk truck. The burner operates on the underfed combustion principle and requires the minimum of care.

In combination with an adapted pellet boiler, pellet heating can provide a simple and convenient heating system to meet the requirements of both the environment and operational economy. BeQuem 50D can be installed in most wood and oil boilers available on the market today.

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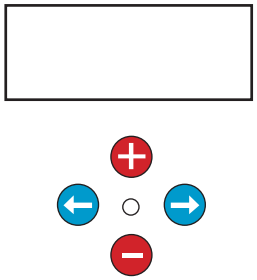
Easy electronic control via display panel



The easy electronic control is operated via the visibly clear display panel which is accessible and user-friendly.
All of the pellet system's functions are continuously monitored by the burner's control and you can access information about operational status, such as, boiler temperature, exhaust temperature, rate of pellet consumption, amount of pellets remaining in storage, warning functions, etc.
The burner's electric ignition system is a smart ignition system which is easy to activate following power failure and to also start up after manual shutting off. In normal operating conditions against the thermostat, the ignition is done at the old heat setting.

Installation

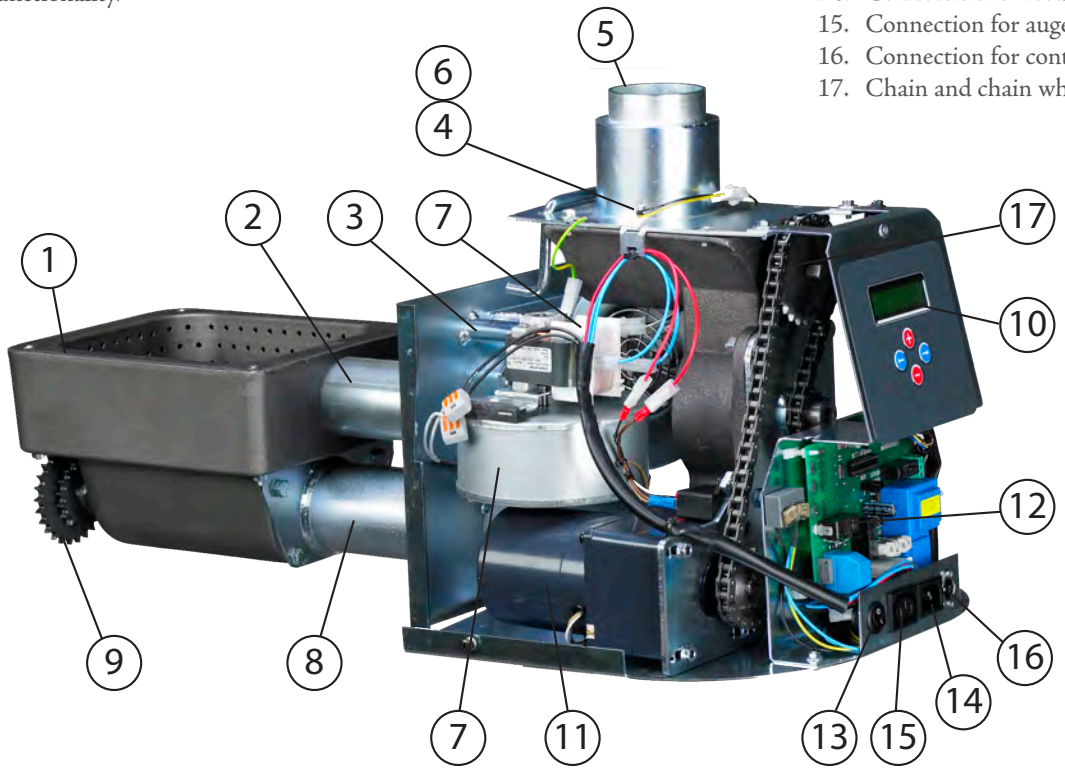
To install the burner in an existing boiler, a mounting plate and sliding runner with a fastlocking system is provided which enables the burner to be easily pulled out of the boiler, so that ash emptying and cleaning can be performed.

		BeQuem 50D
Heating output	kW	25-50
Weight	kg	40
Voltage	volt	230
Pellet dimensions	mm	8
Volume of wood pellet ash		approx. 0,5 %
Length out from the boiler	mm	370
Height	mm	350
Width	mm	350
Inside length of boiler	mm	420
Clearance above combustion head	mm	min 350

Security is a natural part of the function

During every operating cycle, a small amount of pellets (150 g) is fed from the pellet storage container via the external feeding system to the upper connection of the burner. To make it possible to dose an accurate and equal amount of pellets during every cycle, the dosing is carried out by means of a separate dosing auger via the blocking feeder and burner auger to the combustion poy.

As the burner auger feeds pellets forwards three times faster than they arrive at the auger, a safety zone containing only a few single pellets is created between the combustion pot and the upper connection. This safety zone always remains intact even in the event of power failure, insufficient maintenance or equipment failure.
As a consequence, safety has become an integral part of the burner's functionality.



1. Crucible
2. Primary air pipe
3. Optical sensor pipe
4. Level sensor, transmitter
5. Top connection
6. Level sensor, receiver (concealed)
7. Fan 1 and 2
8. Threaded pipe
9. Crucible screws
10. Control panel
11. Drive motor
12. Control circuit board
13. Main switch
14. Connection for feed cable
15. Connection for auger motor
16. Connection for control sensor
17. Chain and chain wheel

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