



# **Kalorina series 20 M**

## **Digital and Electro-mechanical**



# KALORINA SERIES 20 M

## Digital and Electro-mechanical

### FUELS

Wood pellets

Wood

Olive husk

Marc of olives

Minced shells



## HANDY, ECONOMICAL AND SAFE

### Range:

from 23 to 115 kW thermal output power.

Kalorina 20 M, the mechanical multi-fuel boiler, is the optimal solution for the ecological and economic heating for all the environments.

### System advantages:

Robust and solid construction

High efficiency thanks to its structural components: a wide combustion chamber, a large fire top covered with refractory cement, horizontal heat exchanger with smoke tubes, mechanical burner with two augers.

Great flexibility in choice of fuels: solid minced fuels inside the hopper or wood manually loaded.

Ease of installation, ease of use and maintenance and maximum safety.

The boilers can be combined with a wide range of kettles and integrated with solar systems.

The model with Hydro provides hot water through a removable copper coil in the serial models.

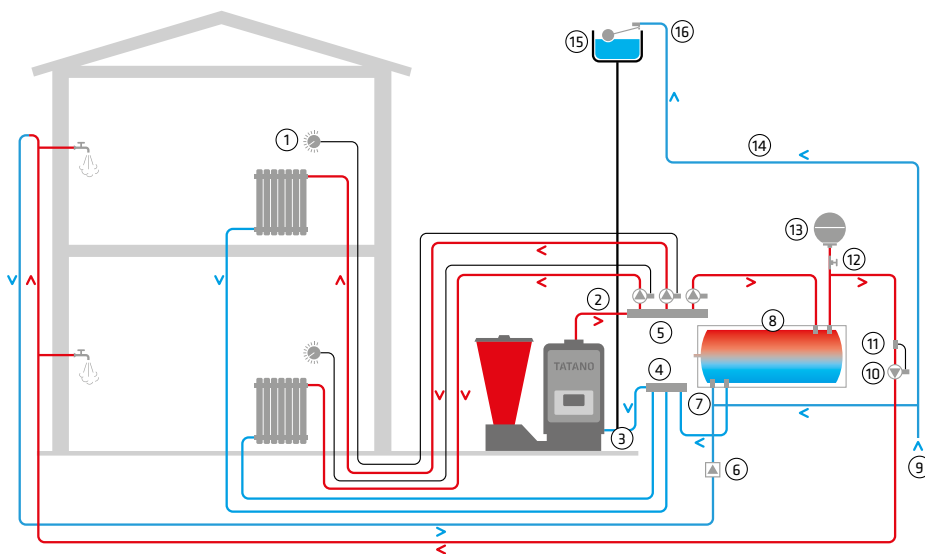
## Kalorina with Sil-MAX

The boiler provides positioning of the hopper on left or right hand side; to have a greater autonomy it is also possible to apply the Sil-Max 800 or other direct storage systems.



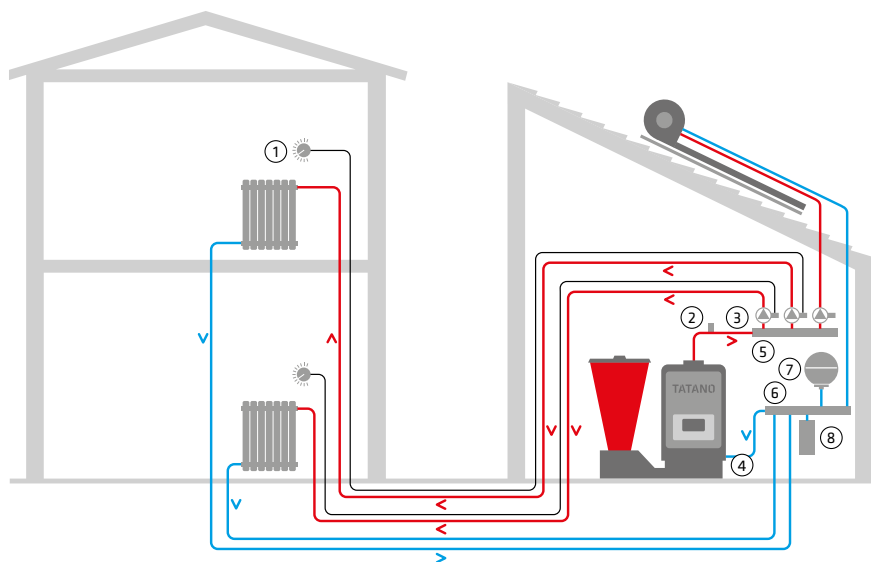
| Kalorina series 20 M                  |                        | K 2002 M | K 2003 M | K 2004 M | K 2006 M | K 2008 M | K 2010 M |
|---------------------------------------|------------------------|----------|----------|----------|----------|----------|----------|
| Nominal power                         | kW                     | 23       | 29       | 46       | 69       | 93       | 115      |
| Maximum allowable working pressure    | bar                    | 3        | 3        | 3        | 3        | 3        | 3        |
| Boiler Class                          | EN 303-5: 1999 Class 3 |          |          |          |          |          |          |
| Maximum allowable working temperature | °C                     | 90       | 90       | 90       | 90       | 90       | 90       |
| Water content                         | L                      | 64       | 116      | 116      | 158      | 200      | 245      |
| Dimensions mm                         | width                  | 1250     | 1350     | 1350     | 1350     | 1350     | 1350     |
|                                       | depth                  | 850      | 980      | 980      | 1180     | 1380     | 1700     |
|                                       | height                 | 1075     | 1213     | 1213     | 1213     | 1213     | 1213     |
| Pipes Ø                               | flow                   | 2"       | 2"       | 2"       | 2"       | 2"       | 2"       |
|                                       | return                 | 1"       | 1" ½     | 1" ½     | 1" ½     | 1" ½     | 1" ½     |
|                                       | expansion tank         | 1"       | 1"       | 1"       | 1"       | 1"       | 2"       |
| Chimney flue                          | Ø mm                   | 150      | 200      | 200      | 200      | 200      | 250      |

# INSTALLATION DRAWINGS



**Classic installation for radiators and biomass boiler for heating and water production of multi-floor houses**

- |                       |                                 |
|-----------------------|---------------------------------|
| 1 Thermostat          | 9 Cold water input from the net |
| 2 Fluid flow          | 10 Hot water circulating pump   |
| 3 Return              | 11 Contact thermostat           |
| 4 Collector return    | 12 Safety valve                 |
| 5 Collector and pumps | 13 Closed expansion tank        |
| 6 Non-return valve    | 14 Water replenishing tubes     |
| 7 Cold water inputs   | 15 Open Expansion tank          |
| 8 Horizontal tank     | 16 Float                        |



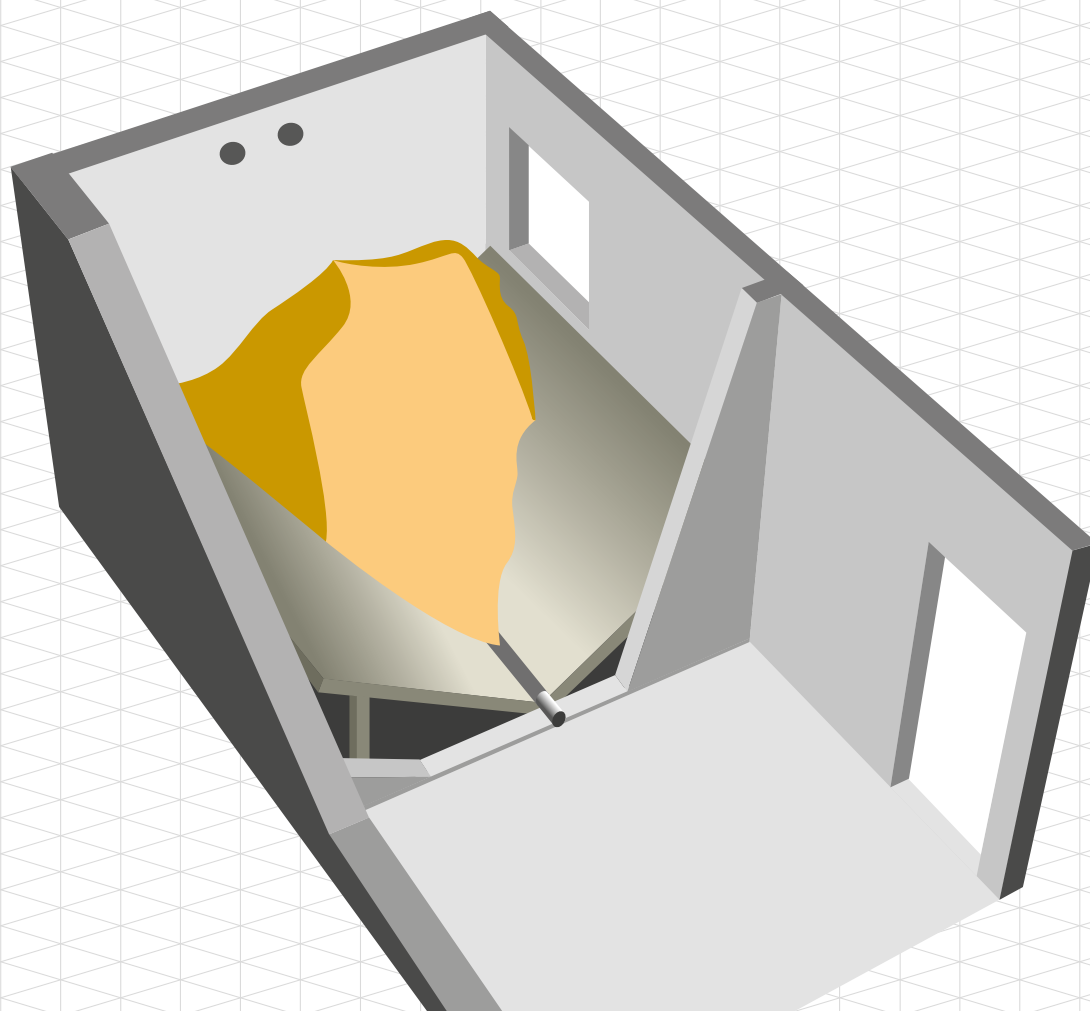
**Biomass boiler for heating and water production with integration of natural circulation thermal solar**

- |                              |
|------------------------------|
| 1 Thermostat                 |
| 2 Safety valve               |
| 3 Fluid flow                 |
| 4 Return                     |
| 5 Collector and pumps        |
| 6 Collector return           |
| 7 Closed expansion tank      |
| 8 Group of automatic filling |

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# STORAGE/EXTRACTION SYSTEMS

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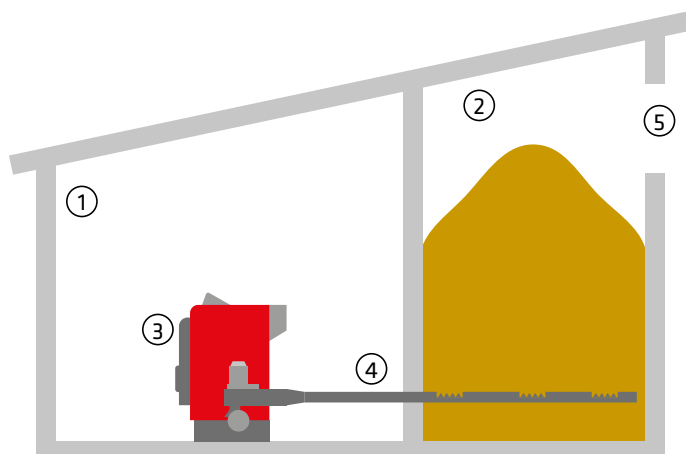
## **Storage for pellet / wood chips**

The stock is the classic solution for storing the fuel and having a greater autonomy.

The best extraction technique depends on the requirements of your home. Our extraction systems are: the adjustable feeder, the auger or the spring transport system.

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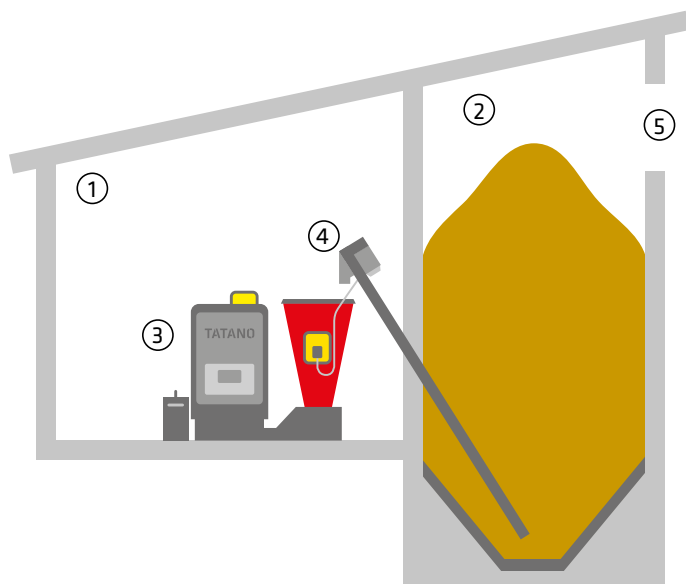
# Systems for extraction



## Extraction by adjustable feeder.

The storage is located near the boiler compartment.

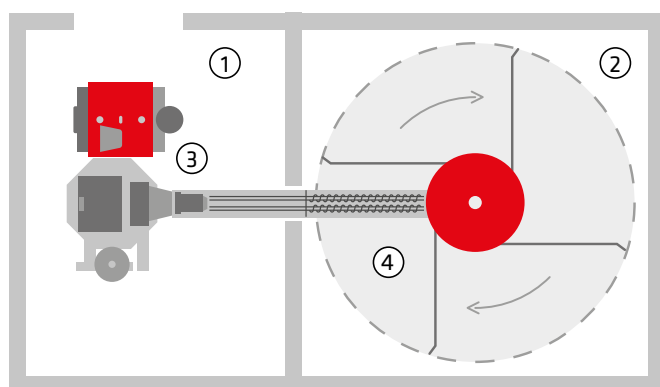
- 1 Boiler compartment
- 2 Fuel storage hopper
- 3 Biomass boiler
- 4 Adjustable feeder
- 5 Trapdoor loading fuel



## Extraction by motorized auger.

The storage is located near the boiler compartment or underground.

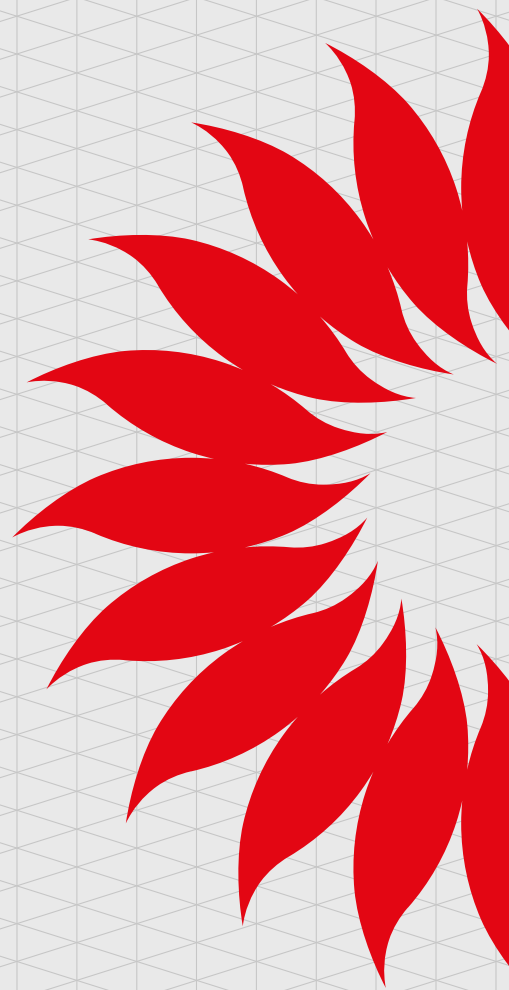
- 1 Boiler compartment
- 2 Fuel storage hopper
- 3 Biomass boiler
- 4 Motorized auger complete with sensor for fuel level
- 5 Trapdoor loading fuel



## Extraction by leaf spring agitator.

The storage is located near the boiler room.

- 1 Boiler compartment
- 2 Fuel storage hopper
- 3 Biomass boiler
- 4 Transport system



Boilers  
made in Italy



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