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**MEGAKONE** 



**HEATING STATIONS**



## AGRICONTPower

### *The choice for convenient wood heating!*

AgriContPower is a packaged wood heating solution, suitable for a large variety of premises, and is available in outputs from 30 to 300 kW.

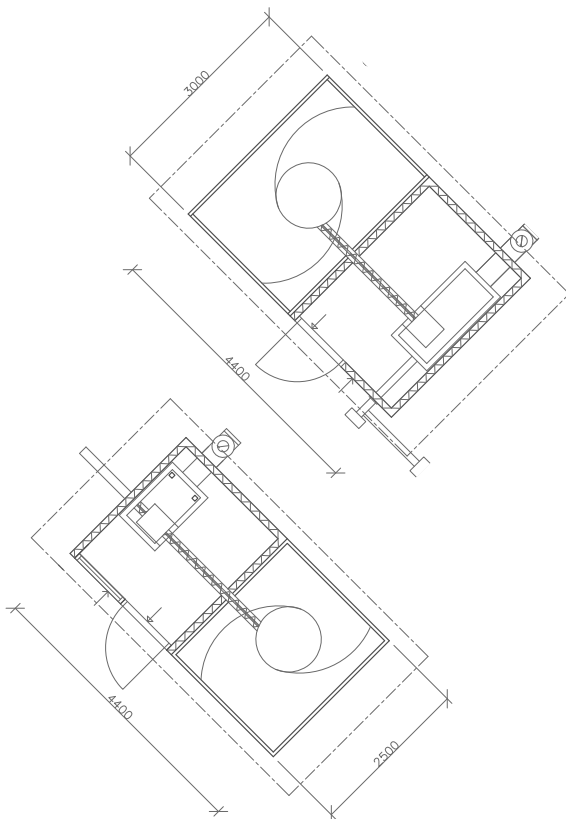
The packaged system comprises of complete building including the boiler room containing the Veto stoker boiler (full installed, plumbed and wired), and fuel store with 'spring agitator' feed system and hydraulic lifting roof for fuel deliveries.

The standard fuel storage capacity of 10m<sup>3</sup> can be upgraded to 14m<sup>3</sup> with the 'W' version. The MaxiCont or MegaCont units can be used if even greater fuel storage capacities are required

The AgriContPower unit is fully equipped and completed at the factory and is extremely convenient to install. As well as the wood heating system, controls, plumbing and electrics, lighting, sockets, ventilation, access doors and windows are all provided. All that is required on site is a pad foundation for the unit, and service connections including heating flow and return, electrical and mains water connection. The AgriCont unit can be located at a distance from the premises requiring heating, with heat distributed to buildings through pre-insulated underground pipe-work. This provides the advantage of keeping the heat station and fuel supply operations remote from the building, and this is especially convenient in retro-fitting for existing premises, when finding plant room and fuel storage space near to the building can often be difficult. District heating, when a number of buildings are served from a centralised energy source, is also an application where using an AgriCont unit is a very convenient solution.

The Cont packaged units provide an excellent resale value, tax benefits and are easy to relocate, ensuring maximised value investment.

A wide range of optional and finished, including wood cladding, makes it possible to specify the heating station according to client and project requirements. Isn't it easy?



## AGRICONTPower

Output range: 30, 60, 75, 80, 100, 120, 150, 200, 250, 300 kW

Overall dimensions: 2.5 x 4.4 m (W-model 3.0 x 4.4 m), height 3.67 m

Weight: ca. 4.5 to 6 t

Silo: 11m<sup>3</sup>(W-model 14 m<sup>3</sup>)

Stoker: Spring agitator with direct feed outfeed auger

Equipment: Electrics and plumbing completed, hydraulically opening fuel silo roof, acid-resistant pipe



# MAXICONT

**Providing heating to large spaces effectively and economically!**

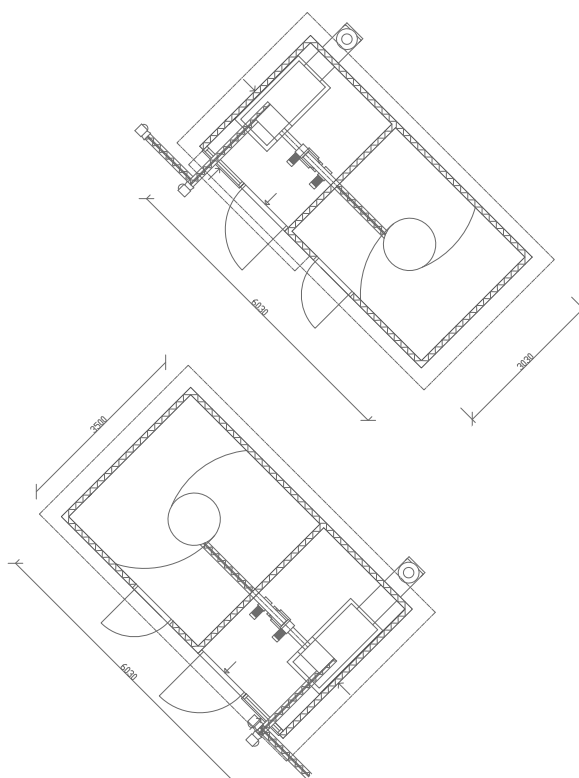
The large fuel storage capacity of the MaxiCont guarantees long filling intervals with a variety of fuels. Fuel storage with bulk tipping trailer is convenient with W- and EW-models equipped with double rear lateral doors and a drive-one ramp. This enables tipped deliveries with provision of a simple 1500mm high ramp on site, with the requirement for expensive underground storage constructions.

MaxiCont is a highly equipped heating station. The spring agitator feeds fuel faultlessly, the rotary feeder provides a seal between the stoker and outfeed auger, and the automatic ash auger system ensures maximum convenience. Both AgriCont and MaxiCont units above 150kW output feature Veto boilers with moving, water cooled grates.

As with the AgriCont, there is a wide selection of accessory equipment available for the MaxiCont such as GSM alarm system with SMS fault notification (for example notifying by SMS if the plant has run out of fuel).

The heating station models can be also be equipped with a remote monitoring system which makes it possible to monitor and control the heating with a browser over the Internet. An Internet connection is all you need to install the system; no separate software is necessary!

MaxiCont makes the transition to wood heating easy!



## MAXICONT

Output range: 60, 80, 100, 120, 150, 200, 250, 300, 400 kW

Overall dimensions: 3.0 x 6.0 m (W-model 3.5 x 6.0 m) (EW-model 4.0 x 6.0 m), height 3.5 m, weight: ca. 8.5 to 10.5 t

Silo: 23 m<sup>3</sup> (W-model 26 m<sup>3</sup>) (EW-model 29 m<sup>3</sup>)

Stoker: Spring unloader with a rotary feeder

Equipment: Electrics and plumbing installed, hydraulically ascending silo roof (also boiler room roof in the 300 kW or in a bigger model), acid-resistant pipe



# MEGACONT

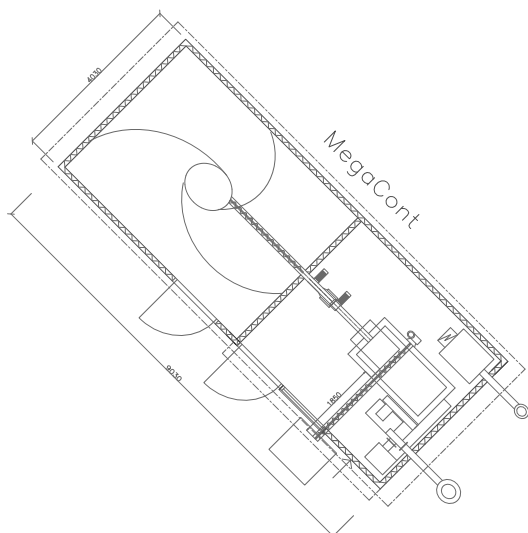
## **Packaged Systems for High Heating Loads!**

MegaCont heating station is a biomass heat production solution for heating loads between 300 – 500kW. The MegaCont stations are ideally suited for heating very large premises and district heating for multiple premises.

Quick and effortless implementation, diverse fuel selection, short repayment period and excellent trade-in value make it an excellent choice. The Veto boilers above 300kW provided including a flue gas fan with combustion chamber vacuum control and cyclonic flue gas cleaning system.

The MegaCont heating station is always fully equipped, all you need is fuel!

All MegaKone Oy heating stations have various colour options as well as a timber-clad alternative. It has never been easier to fit a heating station to the appearance of the existing buildings.



## MEGACONT

Output range: 300, 400, 500 kW

Overall dimensions: 4.0 x 9.0 m, height 3.5 m

Weight: ca. 15 to 17 t

Silo: 39 m<sup>3</sup>

Stoker: Spring unloader with a rotary feeder

Equipment: Electrics and plumbing completed, hydraulically opening fuel silo roof and boiler room roof, acid-resistant pipe



## **W-model**

- 0.5 m wider than the basic model (MaxiCont EW 1.0 m wider)
- Higher silo volume, an advantage especially if boiler size >120 kW



## **Timber cladding**

- Timber cladding to fit the existing buildings
- Can be installed to all models also as retrofitting



## **Burner head (80 to 120 kW) with a moving grate**

- Avoids clinker build up by automatically cleaning ash off the burning grate



## **Water coil (1-2) with safety and control devices**

- One water spiral is sufficient for normal domestic water demand
- Two water coils are mounted if the demand for warm water is especially high



## **Additional export circuit outputs**

- Enable separate heating pipe connections for multiple circuits, valve independently



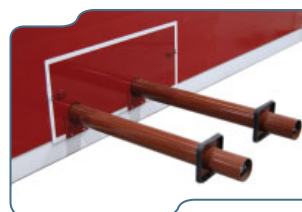
## **Mixing valve**

- The export heating circuit temperature can be controlled at the heating station
- The mixture valves can be added to several heating circuits



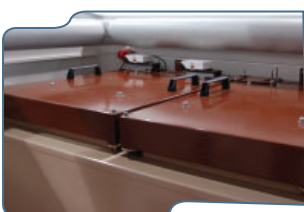
## **Heating Circuit compensating control system**

- Controls the temperature of outgoing water according to season, time and weather
- The actuator unit is connected in place of the mixing valve's manual control



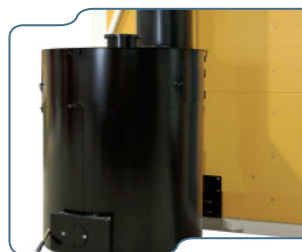
## **Ash augers under circulation**

- Recommends with automatic cleaning
- Decreases cleaning work



## **Automatic cleaning for flue gas 300-500 kW**

- Keeps the boiler clean and lifts the efficiency
- Spirals decreases flue gas temperature



## **Flue gas cyclone cleaner 300-500 kW**

- Cyclonic grit arrestor for flue gas emissions

# ACCESSORIES



## **Automatic 1-piece ash auger**

- Automatic de-ashing system for convenient and clean ash removal
- Automatically controlled by system control panel



## **Automatic 2-piece ash auger**

- Used in heating stations with a power class of 150 kW or bigger
- Elevated ash auger enables disposal to top of ash container



## **GSM alarm center**

- Sends an SMS to three different phone numbers if the motor protection relay of the feeding auger, ash auger or grate goes off, the fire dies out, the overheating protector of the boiler goes off, the dry-boil protection device switches the machine off, or the temperatures of the auger tube or silo rise over the set value
- The temperatures of the auger tube and silo can be queried by SMS



## **Measuring the silo fuel level with GSM**

- Sends an SMS once the silo level empties under the permitted limit
- The filling level can be queried by SMS



## **Lambda logic control**

- Measures the residual oxygen of exit gases, and modulates controls combustion air and fuel feeding accordingly to ensure efficient combustion
- Enables a clean and complete burning process leaving only clean ash
- Saves fuel up to 30 %



## **Remote monitoring system**

- The boiler control panel settings can be changed with a browser over the Internet
- No separate software needed
- The software of logic and display easily updated directly from the factory



## **Heat Meter**

- Measures the energy output from the boiler
- Necessary when selling energy



## **Ash tray ca. 800 l**

- The easily emptied ash tray can be handled by front end loader
- The large volume guarantees long emptying intervals

# WHY CHOOSE A *CONT* HEATING STATION?



## **SAFETY**



The heating stations manufactured by MegaKone Oy are fireproof and they are placed apart from other buildings. The stations are equipped with safety, control and alarm systems. The robust construction of the unit is also an important part of their safety safety feature.

The units also feature two separate sprinkling systems independent from electrical supply, as well as the constant temperature measurement of the auger and fuel silo.

## **AFFORDABILITY**

Several testimonials from customers confirm that a heating station fully completed at the factory is more economical than constructing a wood heating installation, including boiler room building and fuel store on site. An additional advantage is the tax benefit from depreciation of machinery. The Cont heating stations have a good resale and trade-in value which bring savings on a long-term basis, not to mention the opportunity to choose the most suitable and economical fuel.

## **ENVIRONMENTALLY-FRIENDLY**

Cont systems enable client to use a renewable heating source instead of fossil fuels. The efficiency and combustion of the heating systems manufactured by Veljekset Ala-Talkkari Oy have been tested in several leading European test laboratories with excellent results.

## **LONG-TERM INVESTMENT**

The heat station can be easily relocated because of renovation or changed for a bigger unit as the demand for power increases.

## **EASE OF USE**



The building of a heating station could not be any easier – site building has been minimised! Before you know it, the station is installed and operational. The silo can easily be filled with a front loader or by tipping trailer or blower lorry depending on the individual requirements!

## **VERSATILITY**

With a wide range of system outputs, layout and additional equipment, the product can be adapted according to the needs of the customer. With the several different color options and materials finish, the heating station can blend in with the appearance of existing buildings.

## **RELIABILITY**

Over 500 heating stations manufactured in co-operation by MegaKone Oy and Veljekset Ala-Talkkari Oy have been delivered all over Europe. That says something about the quality of the products! Veljekset Ala-Talkkari Oy has manufactured solid fuel boilers since 1955. MegaKone Oy and Veljekset Ala-Talkkari Oy were the first to introduce removable factory-made packaged heating stations to the market. The know-how of the manufacturers, product development and skillful personnel guarantee the functionality and reliability of the products..



Co-production of MegaKone Oy and Veljekset Ala-Talkkari Oy

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