

About

FERGY AS produces moving grates front furnaces for solid fuel in a standard model range named KAP with nominal output from 500 kW up to 19 MW (in a single unit). All KAP units in the standard range can be fully prefabricated at the workshop, including refractory, insulation and cladding and delivered on site in one, two or several pieces.

Refractory type depends on the fuel type and specification and is adjusted according to the best performance and longest life-span.

Moving grates front furnaces are designed to work in combination with hot water or steam boilers.

Grates cooling system depends on the fuel type and specification and can be arranged by air, water or combination.

In-house developed controlled system provides fully automated combustion process of the furnace.

Moving grates front furnaces are equipped with fuel feeder with back-fire system (hydraulic or screw), fuel shutter with guillotines, hydraulic system, air supply ventilators, air pipes, hydraulic ash discharge system and all required electrical and automation instruments.

FERGY AS furnaces are designed to burn crushed biomass and biomass mixtures with moisture 30 - 65%.

STANDARD FUEL TYPES:

- bark
- wood chips, shavings
- forest residues chips
- chunk peat
- recycled wood

KAP FURNACES MOVING GRATE TECHNOLOGY



FERGY AS

Sustainable Energy Solutions

Contact Us

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ISO 9001:2008
ISO 14001:2004
QC 080000:2012

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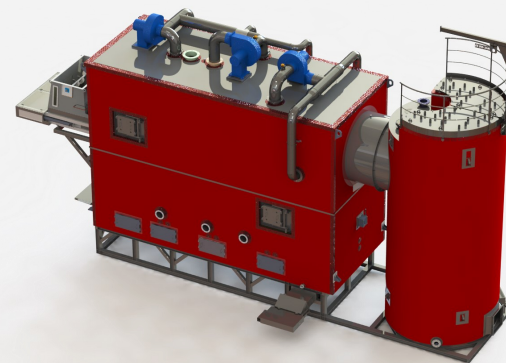
General sizes for KAP + AK above 7MW capacity

| KAP Furnace | | KAP8000 | KAP9000 | KAP10000 | KAP12000 | KAP14000 | KAP16000 | KAP19000 |
|------------------------|----|---------|---------|----------|----------|----------|----------|----------|
| AK HW Boiler | | AK7000 | AK8000 | AK9000 | AK10000 | AK12000 | AK14000 | AK17000 |
| Max thermal power | kW | 7000 | 8000 | 9000 | 10000 | 12000 | 14000 | 17000 |
| Min thermal power | kW | 2100 | 2400 | 2700 | 3000 | 3600 | 4200 | 5100 |
| Height (Size A) | mm | 6460 | 7220 | 7735 | 8320 | 8840 | 9425 | 9990 |
| Extra height (Size AA) | mm | 9290 | 9995 | 10510 | 11095 | 11615 | 12200 | 12765 |
| Width (Size B) | mm | 3660 | 3860 | 3860 | 3995 | 4130 | 4330 | 4330 |
| Extra width (Size B1) | mm | 5225 | 5425 | 5425 | 5425 | 5560 | 5560 | 5560 |
| Length (Size C) | mm | 16270 | 16775 | 17630 | 18750 | 19235 | 20090 | 20905 |

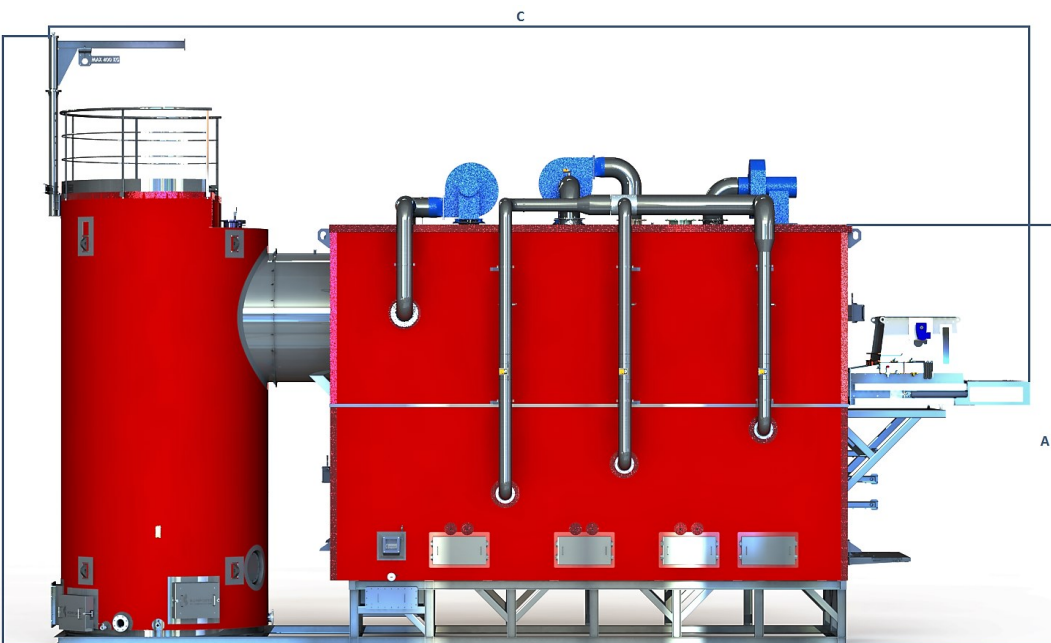
* Standard dimensions for the KAP+AK setup for the range from 500kW to 7MW provided upon separate request.



What We Offer



- More than 30 years of specific experience
- Clients orientated approach
- Fully automated technology
- High efficiency, flexibility and availability of the equipment
- Robust design
- Allowable wide range of solid fuel types and specification
- Standard range of combustions from 500kW up to 19MW with possibility of customisation for specific needs
- Inhouse engineering and automation



System parameters

| | | |
|-----------------------------------|-------|-----|
| Maximal thermal power | 19000 | kW |
| Minimal thermal power | 500 | kW |
| Max allowed operating pressure | 16 | bar |
| Max allowed operating temperature | 150 | oC |
| Efficiency rate | 84-95 | % |

Allowable fuel parameters

| | | |
|-----------------------------------|-------|---------------------|
| Lower Heating Value | 5-17 | MJ/kg |
| Moisture content | 30-60 | %(H ₂ O) |
| Ash content (wet basis) | 6 | % |
| Melting point of the ash | >1000 | oC |
| Min standard fraction of the fuel | G10 | |
| Max standard fraction of the fuel | G150 | |



Custom specification is available on request