



KAP FURNACES MOVING GRATE TECHNOLOGY



FERGY AS
Sustainable Energy Solutions

WHAT WE OFFER

- More then 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

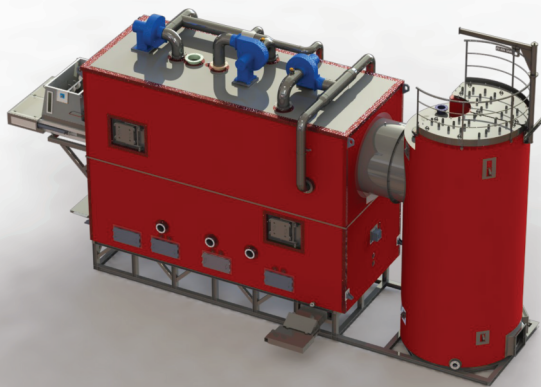
Maximal thermal power	1900	kW
Minimal thermal power	500	kW
Max allowed opearting pressure	16	bar
Max allowed operating temperature	150	oC
Efficiency rate	84-95	%

ALLOWABLE FUEL PARAMETERS

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



**CUSTOM
SPECIFICATION IS
AVAILABLE ON
REQUEST!**



General sizes for KAP + AK

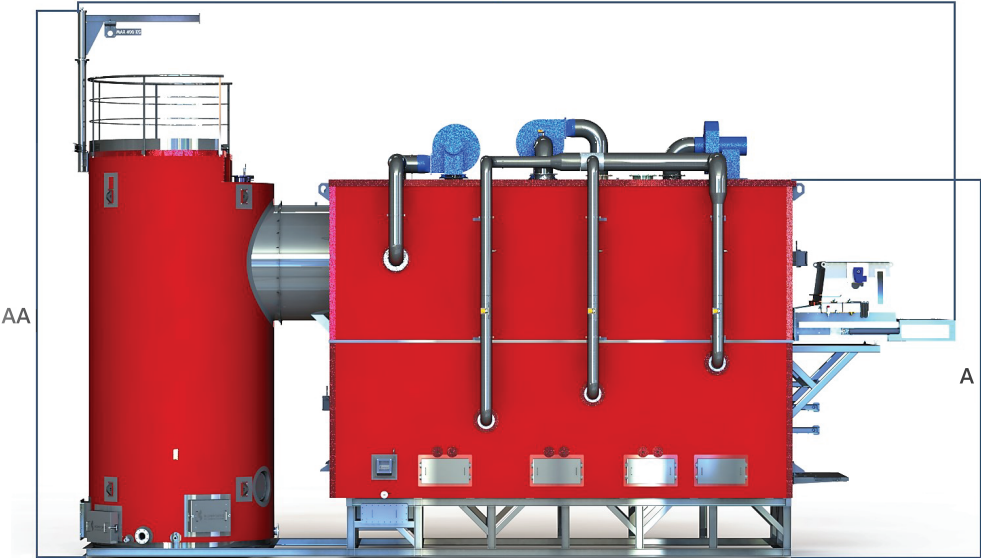
above 7MW capacity

KAP Furnance		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.



C



ABOUT IT

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 lifespan.

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 backfire 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, sharking
- forest residues chips
- chunk peat
- recycled wood



CONTACT US

Fergy AS

Vienibas gatve 87e,
Rīga, Latvia

+371 28018822

www.fergy.eu



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

www.tuv.com
ID 9105042913