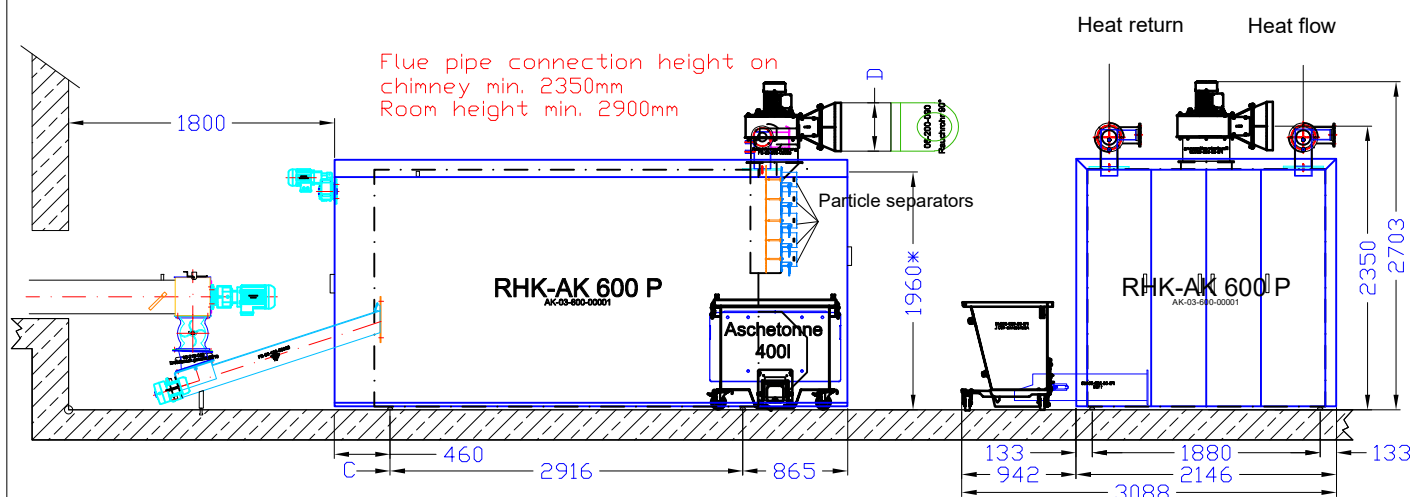


1 Installation dimensions RHK-AK 600-800 P/PZ



1.1 Space requirements and boiler dimensions

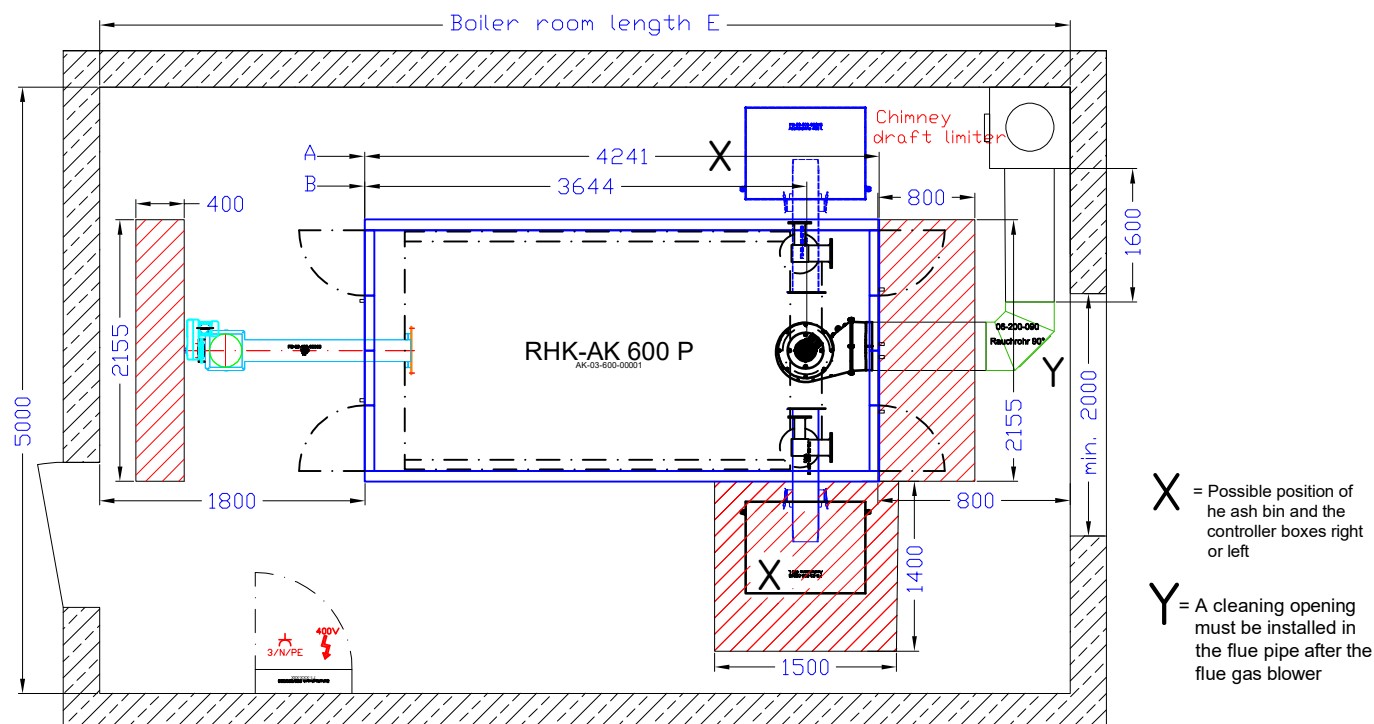


At the transport height a measure of min. 50mm for assembly tools must be taken into account

Flue gas blower RGG400
- H170mm

	A	B	C	D	E
RHK-AK 600 P/PZ	4241	3644	2916	400	7000
RHK-AK 800 P/PZ	4941	4344	3616	400	8000

The required straight measuring section is 1000mm up to 75 kW and from 100 kW 4x Flue pipe-Ø but min. 1000mm.
The required connections on the flue pipe side must be carried out on site.



Status 01.08.2024

Sheet 1 of 6

Heizomat - Gerätebau + Energiesysteme GmbH
Maicha 21 - 91710 Gunzenhausen - 09836/9797-0





1.2 Technical Data

RHK-AK 600-800 P/PZ

Designation	Unit	RHK-AK 600 P/PZ	RHK-AK 800 P/PZ
Transport width	mm	1960	1960
Transport length	mm	4000	4700
Transport height	mm	2060	2060
Water content	Liter	2680	3940
Weight	kg	8500	9900
Heat exchanger surface	m ²	56	74
Heat output range	kW	180-600	240-800
Nominal heat output	kW	600	800
Efficiency with wood chips FL/PL	%	93,6 / 94,2	93,4 / 93,9
Flue draft requirements chimney	Pa	5	
Flue draft mass flow FL / PL	g/s	424 / 83	540 / 157
Flue gas temperature FL/PL	°C	114 / 74	119 / 79
Necessary feed pressure FL / PL	Pa	23 / 21	15 / 14
Water pressure drop at 10K	mbar	254,20	296,80
Water pressure drop at 20K	mbar	66,03	77,09
max. operating pressure	bar	3 respectively 5**	
Heat flow	mm	DN125	
Heat return	mm	DN125	
Reserve flow	mm	DN80	
Reserve return	mm	DN80	
Filling/Emptying	Inch	2	
Thermowell	Inch	1/2	
Flue pipe diameter	mm	400	400
min. supply/exhaust air	cm ²	1250	1650
Flow rate at 15K	m ³ /h	34,40	45,9
Boiler doors		2	
Boiler class		5	
Seasonal space heating energy efficiency	%	81	81
max. Flow temperature without SWT****	°C	85	
max. Flow temperature with SWT****	°C	95*****	
min. Return temperature	°C	55	
Fuel type		A1 / P16S - P31S / M30 acc. to DIN EN ISO 17225-4	
Recommended buffer volume	Liter	20 / kW Nominal heat output***	
Electrical power consumption P _N / P _{min} (P)	kW	2,107 / 0,526	2,748 / 0,638
Electrical power consumption P _N / P _{min} (PZ)	kW	2,143 / 0,526	2,825 / 0,638
Standby power consumption	kW	0,012	
Cold water temperature SWT****	°C	10	
max. operating pressure SWT****	bar	3	
Mode of operation		non-condensing	
Airborne noise emission LwA	dBA	64*	
Reduction measures airborne noise		Flue gas silencer**	
Electrostatic particle separator (P)		13x Heizoclean EF185 in FG-collector**	
Electrostatic particle separator (PZ)		13 Heizoclean EF185 in collector +3 in mounting piece of cyclon**	
Electrical connection		400V / 3N PE - CEE plug 32A	
Electrical protection		C 32A	
FI-circuit breaker		Typ A IΔN 30mA	

* Airborne noise emissions of the wood chip boiler system in the boiler room; no informative value for noise emissions at the chimney end or its surrounding areas ** Depending on equipment *** Deviating in case of funding **** Safety heat exchanger

***** Tolerances of the safety thermostat must be observed

The system shall only be operated under negative pressure!

Status 01.08.2024

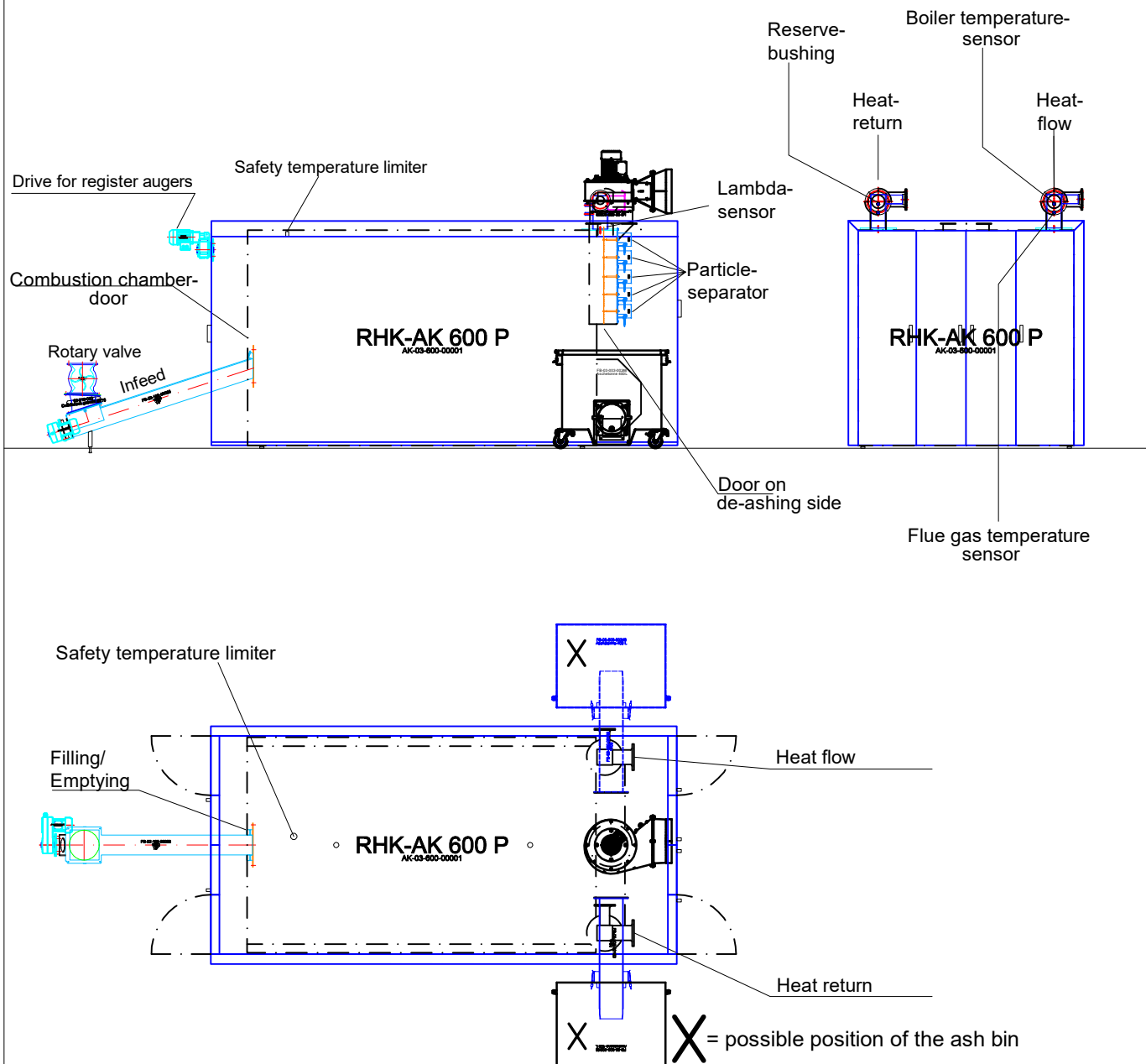
Sheet 2 of 6

Heizomat - Gerätebau + Energiesysteme GmbH
Maicha 21 - 91710 Gunzenhausen - 09836/9797-0





1.3 Connections - Attachments



The flue gas system must be resistant to condensation and may be operated in damp/wet mode. The boiler should be accessible from three sides.

Room height and position of the multicyclone/particle separators after consultation with the Heizomat specialist advisor.

For connection points for the necessary potential equalization on the boiler, see the supplementary sheets for installing potential equalization and installing the particle separators.

We recommend a buffer storage volume of 20 L/kW of nominal heat output or the specifications of the respective country.

We reserve the right to make technical changes that serve the purpose of ongoing development.

The equipment of the system can vary depending on the legal requirements of the destination country.

Status 01.08.2024

Sheet 3 of 6

Heizomat - Gerätebau + Energiesysteme GmbH
Maicha 21 - 91710 Gunzenhausen - 09836/9797-0

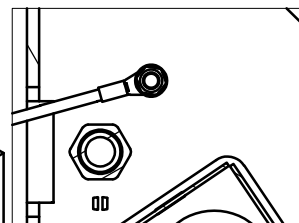
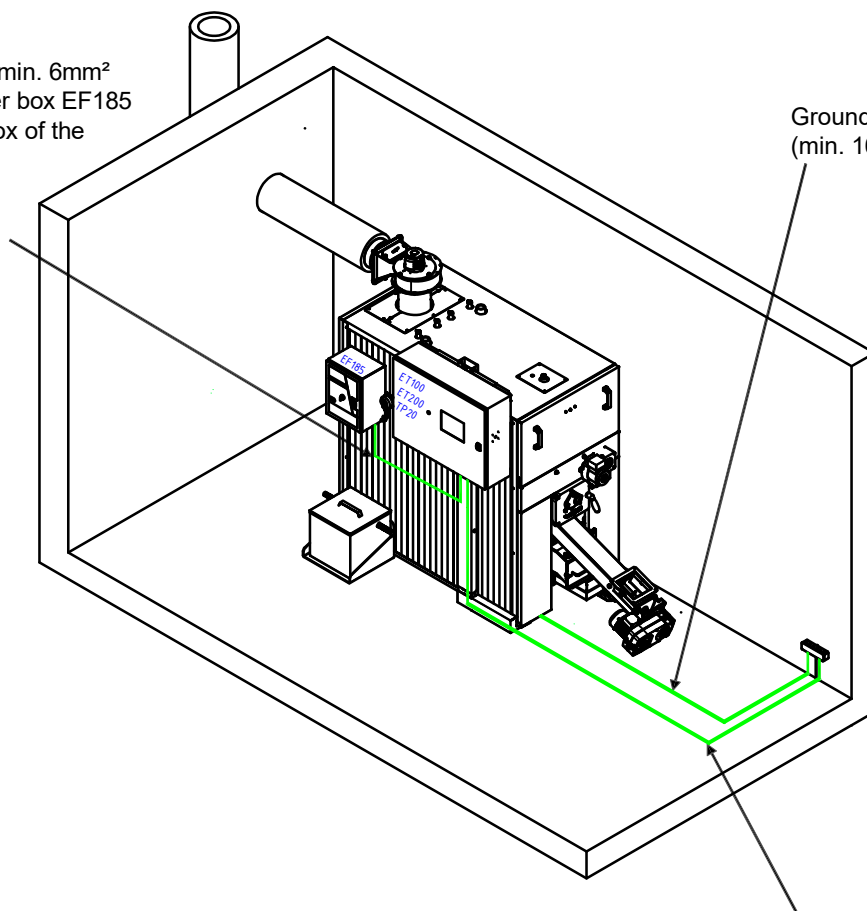


1.4 Equipotential bonding and Shielding of the sensor lines



Grounding cable (min. 6mm² CU) from controller box EF185 to the controller box of the boiler.

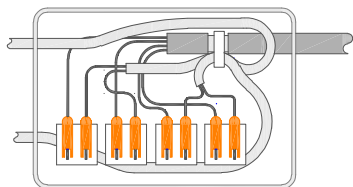
Grounding cable boiler (min. 16mm² CU)



Shielded sensors including shielded connection cables are to be used for **boiler temperature-, flue gas temperature-, return temperature- and return temp. mixer.**

Grounding cable (up to 100 kW min. 6mm², above 100 kW 10mm²) from the boiler controller box to the equipotential bonding bar

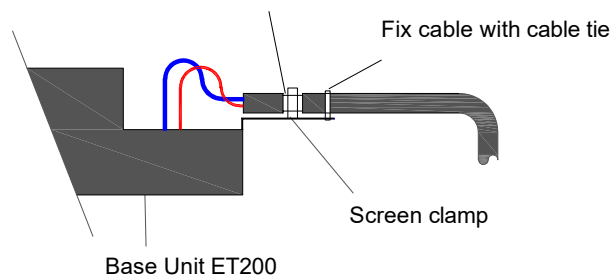
If the cables need to be extended, the shields in the clamping socket must be electrically conductive connected to each other.



Grounding of the sensor cables in the control box:

HeizoControl ET100/ET200:

Uncover cable shielding in the area of screen clamp and fix it with cable ties.





KWS -Cold water inlet for thermal safety discharge

in this sheet shut off devices, ventilation systems and safety devices are not marked. For dimensioning of the different valves and devices the relevant heating engineer is responsible. These have to be built in system- dependent due to standards and regulations.

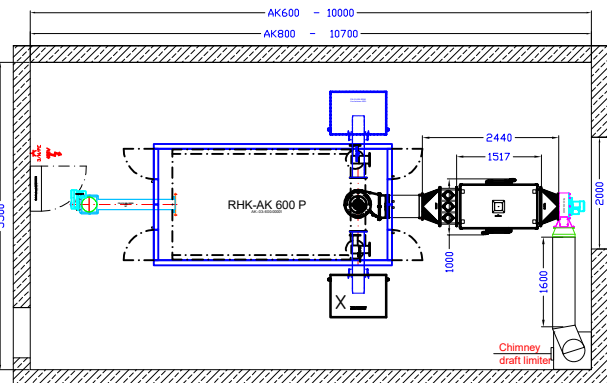
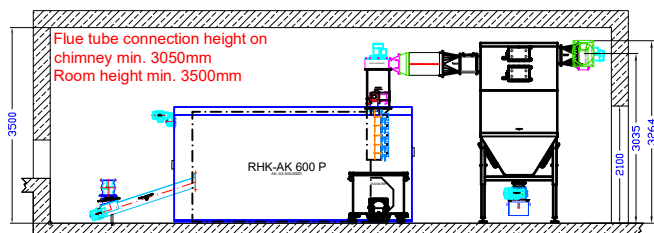


Heizomat®

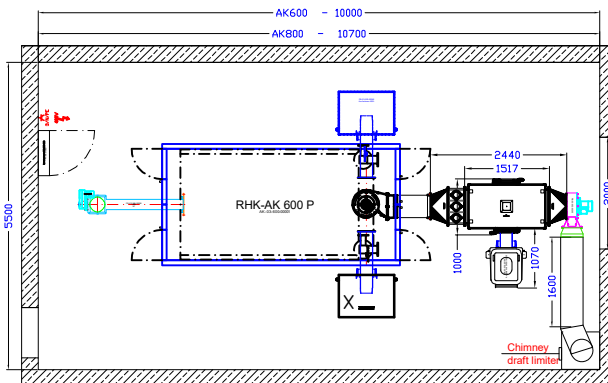
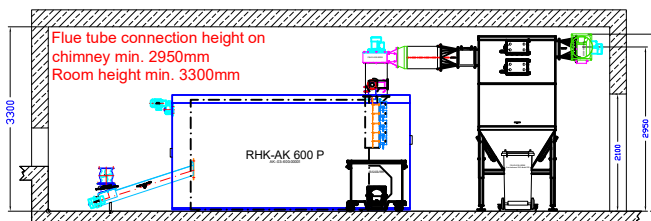
1.6 Space requirements with multicyclone RHK AK 600-800 P/PZ



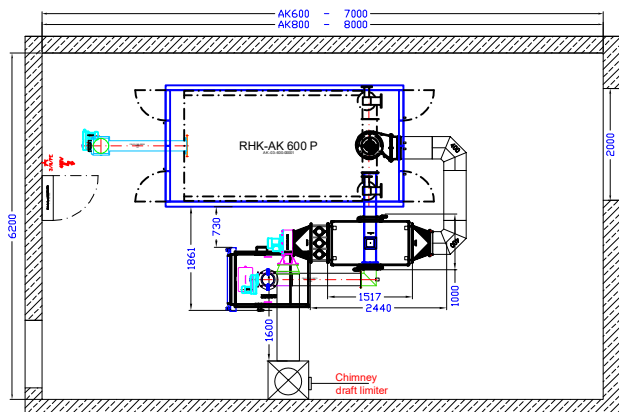
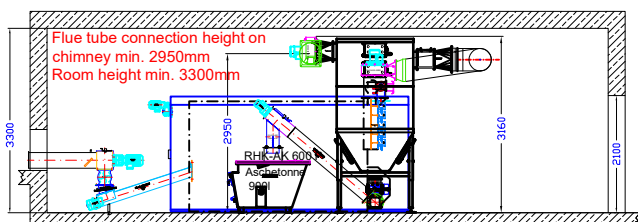
Multicyclone with ash bin 40 Liter
Ash bin 400 Liter direct



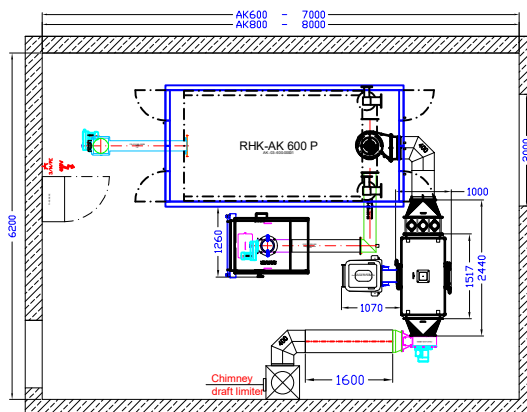
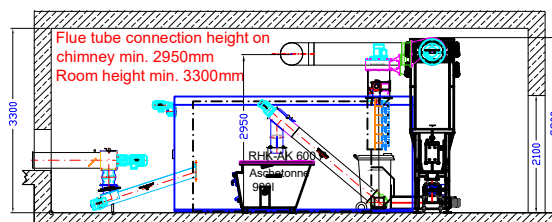
Multicyclone with ash bin 240 Liter
Ash bin 400 Liter direct



Multicyclone with de-ashing 900 Liter



Multicyclone with separate de-ashing 240 Liter
Boiler ash bin 900 Liter



De-ashing also mirrored possible

The required straight measuring section is 1000mm up to 75Kw and from 1000KW 4x Flue pipe diameter but min. 1000mm.

The required flue pipe-side connections must be carried out on site

Technical Data Multicyclone MC 204

Transport width (mm)	1025
Transport length (mm)	1512
Transport height (mm)	2580
weight (kg)	1050

Status 01.08.2024

Sheet 6 of 6

Heizomat - Gerätebau + Energiesysteme GmbH
Maicha 21 - 91710 Gunzenhausen - 09836/9797-0

