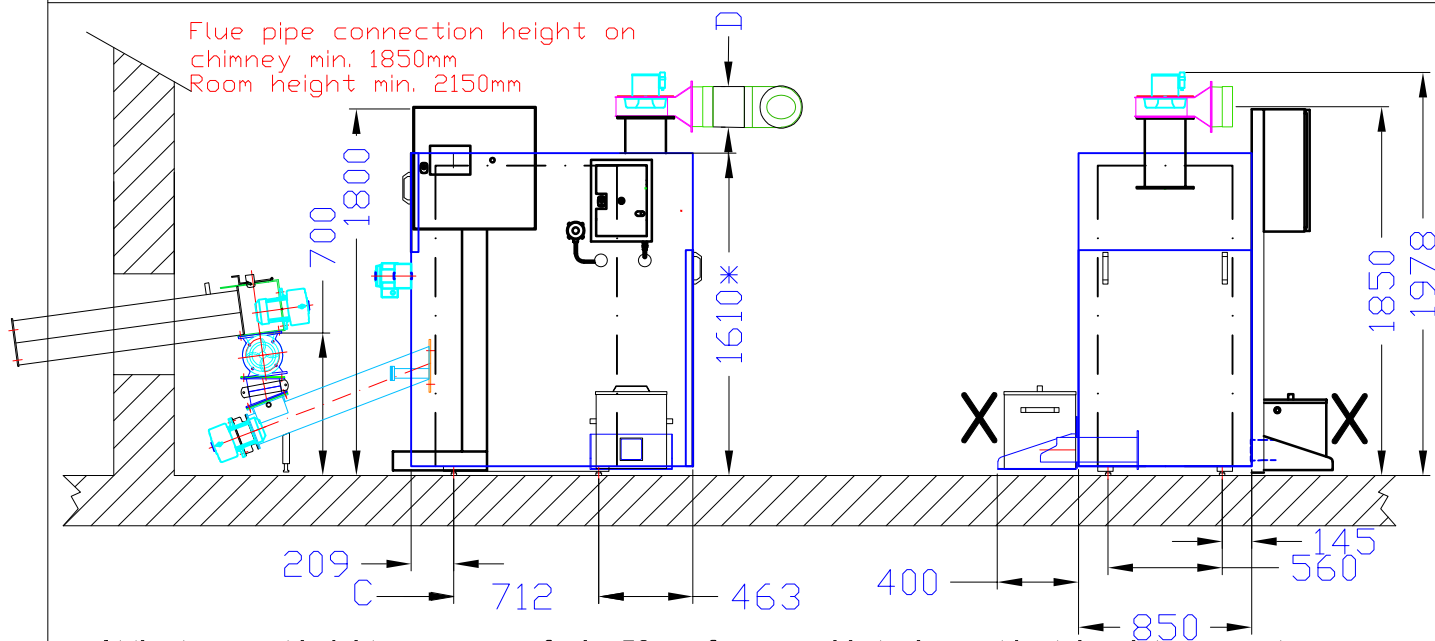


1 Installation dimensions

RHK-AK 30-60 P

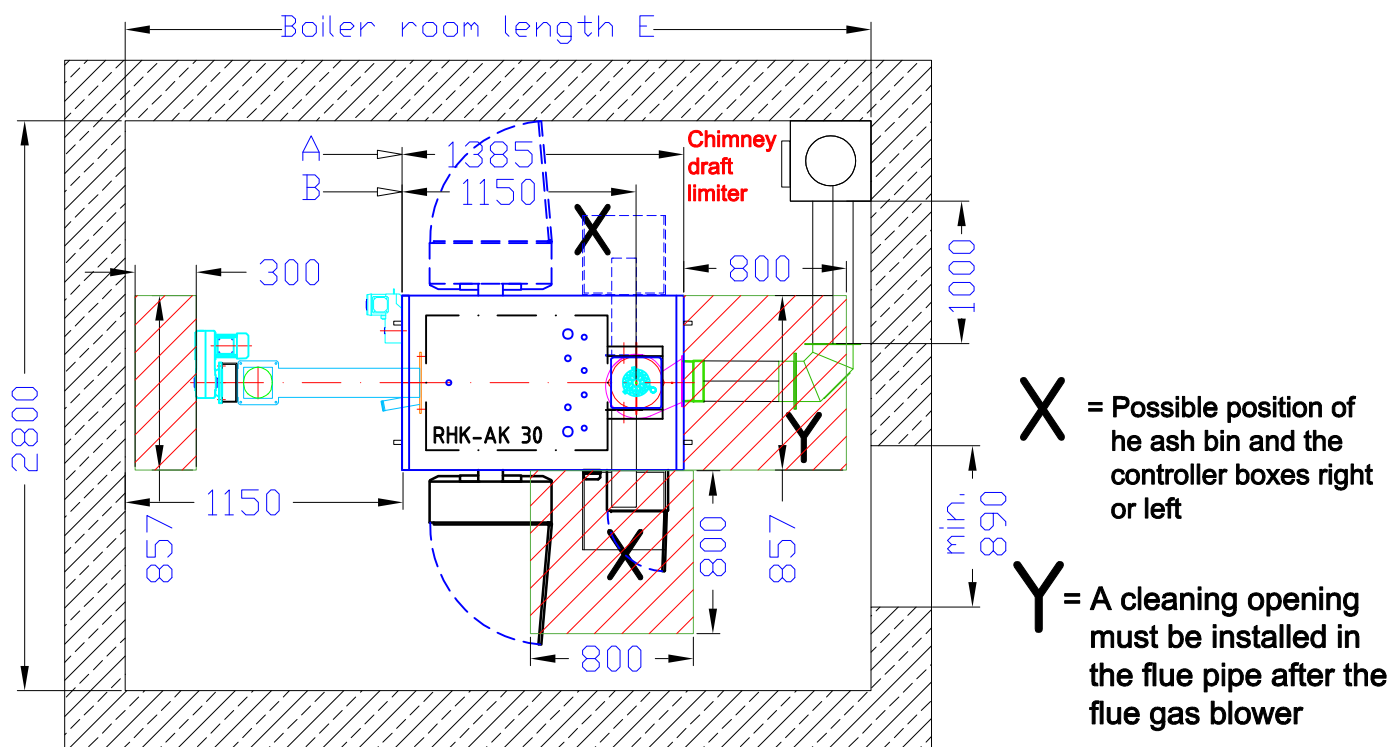
1.1 Space requirements and boiler dimensions



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

Flue gas blower RGG200 - H90mm		-Flue tube 200mm			
	A	B	C	D	E
RHK-AK 30 P	1385	1150	712	200	3200
RHK-AK 40 P	1585	1350	912	200	3400
RHK-AK 50 P	1585	1350	912	200	3400
RHK-AK 60 P	1785	1550	1112	200	3600

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.



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1.2 Technical Data

RHK-AK 30-60 P

Designation	Unit	RHK-AK 30 (P)	RHK-AK 40/50(P)	RHK-AK 60 (P)
Transport width	mm	680	680	680
Transport length	mm	1440	1640	1840
Transport height	mm	1610	1610	1610
Water content	Liter	165	205	250
Weight	kg	900	1000	1150
Heat exchanger surface	m ²	3,40	4,50	5,60
Heat output range	kW	9-30	12-40 / 15-50	18-60
Nominal heat output	kW	30	40-50	60
Efficiency with wood chips FL/PL	%	93,8 / 94,1	94,3/94,5 / 94,8/94,8	94,7/94,7
Flue draft requirements chimney	Pa	5		
Flue draft mass flow FL / PL	g/s	21 / 3	31 / 11	38 / 14
Flue gas temperature FL/PL	°C	104 / 60	106/63 / 107/65	105 / 65
Necessary feed pressure FL / PL	Pa	10 / 10	10 / 10	11 / 11
Water pressure drop at 10K	mbar	13,40	13,80	14,10
Water pressure drop at 20K	mbar	3,48	3,58	3,66
max. operating pressure	bar	3 respectively 4**		
Heat flow	Inch	1 1/2		
Heat return	Inch	1 1/2		
Filling/Emptying	Inch	1/2		
Thermowell	Inch	1/2		
Flue pipe diameter	mm	200		
min. supply/exhaust air	cm ²	150	150	170
Flow rate at 15K	m ³ /h	1,89	2,87	3,44
Boiler doors		2	2	2
Boiler class		5		
Seasonal space heating energy efficiency	%	81	82	82
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	0,097 / 0,055	0,104/0,050 / 0,110/0,045	0,136 / 0,050
Standby power consumption	kW	0,01		
Cold water temperature SWT****	°C	10		
max. operating pressure SWT****	bar	3		
Mode of operation		non-condensing		
Airborne noise emission LWA	dBA	57*		
Reduction measures airborne noise		Flue gas silencer**		
Electrostatic particle separator		2x Heizoclean EF185 in FG-collector**		
Electrical connection		400V / 3N PE - CEE plug 16A		
Electrical protection		C 16A		
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

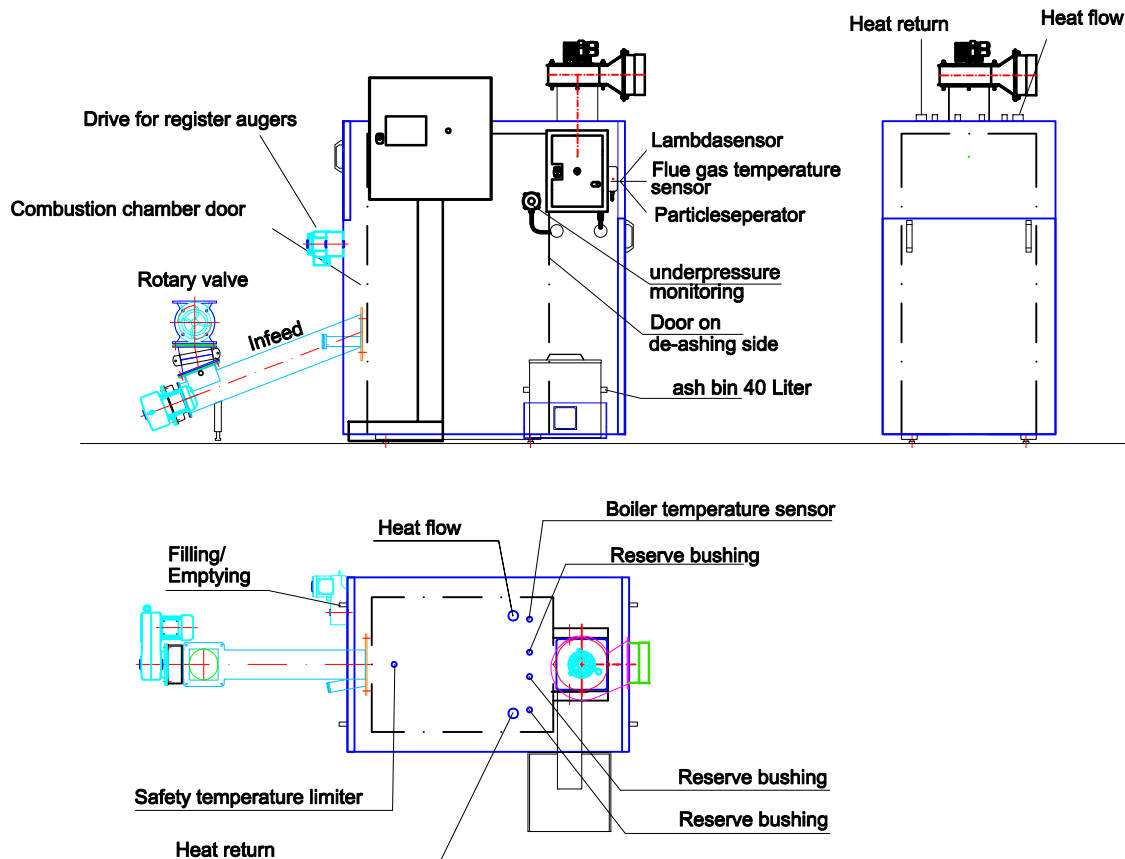
The system shall only be operated under negative pressure!

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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.

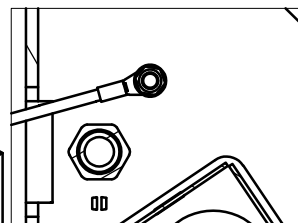
The equipment of the system can vary depending on the legal requirements of the destination country.

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.

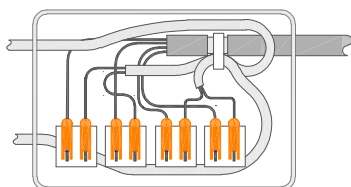
Grounding cable boiler (min. 16mm² CU)



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

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

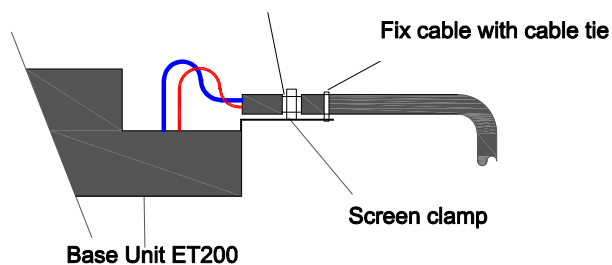
Grounding cable (up to 100 kW min. 6mm², above 100 kW 10mm²) from the boiler controller box to the equipotential bonding bar



Grounding of the sensor cables in the control box:

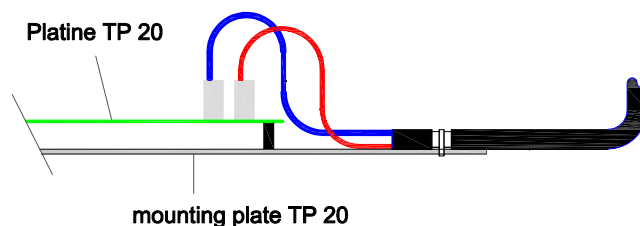
HeizoControl ET100/ET200:

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

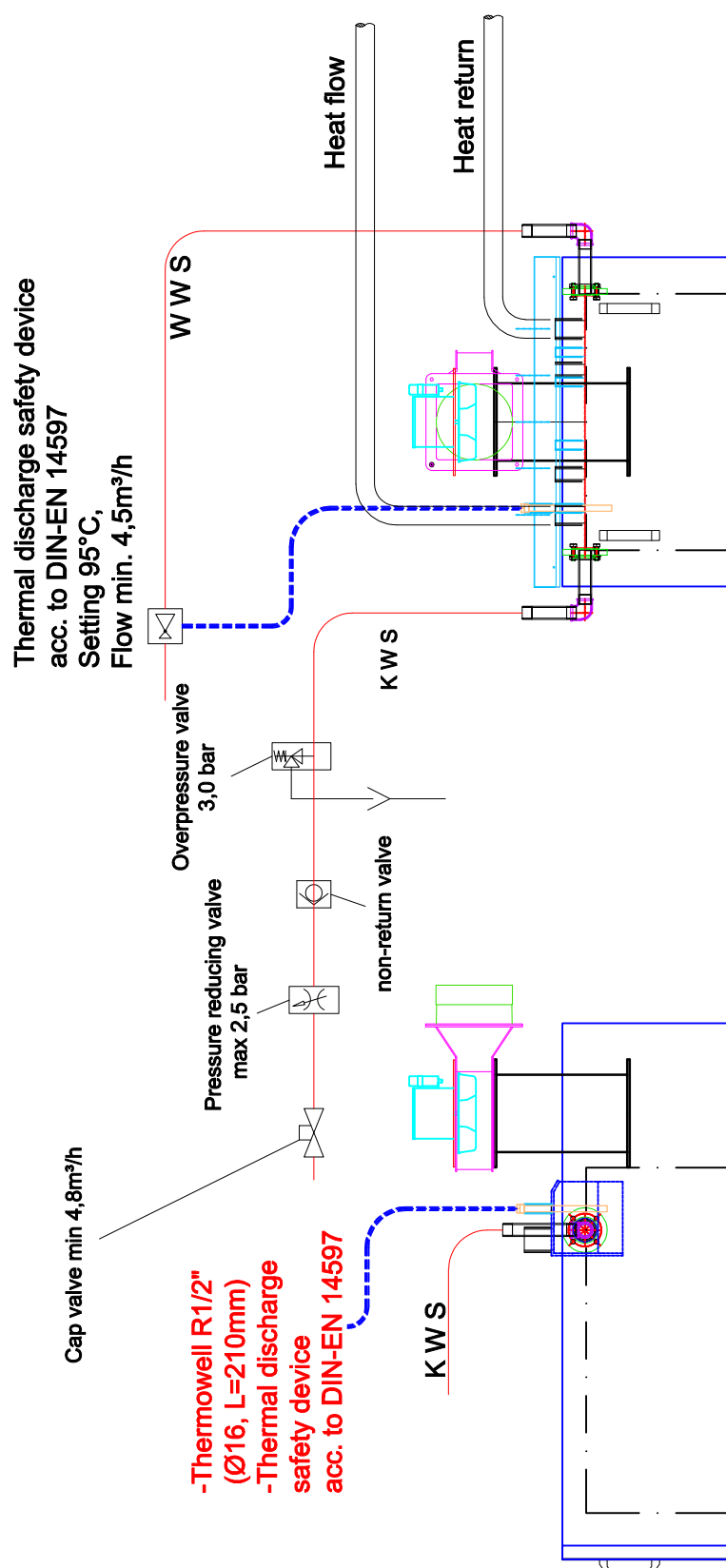


HeizoControl TP 20:

Uncover cable shielding in the area of screen clamp. Fix the cable with cable ties ensure the connections between the contacts.



1.5 Safety heat exchanger with thermal discharge safety device*



* Special equipment

** Tolerances of the safety thermostat must be observed

Important note:

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- dependend due to standards and regulations.

- Installation of safety temperature limiter (STB) always on heat flow side
- max. flow temperature 95°C**

Thermowell for thermal safety discharge:

R₂ 1", D=16mm, L=210mm
Type 3065, DIN TH79703

WWS -Hot water outlet for thermal safety discharge
mount valve on outlet

KWS -Cold water inlet for thermal safety discharge

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