Heizomat®

The biomass heating since 1982

30 Jahre Heizomat Qualität aus Bayern

Sun ► Biomass ► Heizomat ► Heat ► Life

Robert Bloos build the first automatic discharger system for woodchips in 1982. The idea behind it was to use wood from his own forests with the same comfort as he would fossil fuels. In the beginning the discharger system was only to supply the boiler with woodchips for his own agricultural business, yet more and more people showed their enthusiasm for the "Heizomat".

Today Heizomat has more than 200 employees incl. a large training workshop with 14 apprentices in the two Bavarian towns of Gunzenhausen / Maicha as well as Heidenheim in Central Franconia. The production area has developed from a garage to today's size of over 35,000 m².

Along with firing plants for woodchips and biomass, Heizomat has specialised itself in the construction of hand and crane operated chippers, filling technology for woodchip storage, woodchip transportation systems and gripper for trunk and treetop wood.

More than 30,000 installed heating systems and chippers worldwide stand for the quality and fully developed technology of Heizomat!

Our production sites

Maicha, Bavaria

Heidenheim, Bavaria

Real workmanship! Our products are all produced in Germany.

Energy in balance with nature

For 30 years, always one step ahead!

- 220 employees
- Over 30,000 customers
- Family business
- Made in Germany

"Energy in balance with nature! We have been building Made in Germany woodchip systems for 30 years under this motto. I am pleased that more than 30,000 customers worldwide use our systems to heat ecologically and yet as comfortably as with fossil fuels."
Robert Bloos sen.

A strong team

the HEIZOMAT staff

Pioneer! HEIZOMAT has been working with renewable resources for 30 years.

Image shows design package special equipment

Our bestseller continues to be the HSK-RA series. This boiler type with complete cladding is characterised by its high effectiveness, its robust processing, best emission values and simple use.

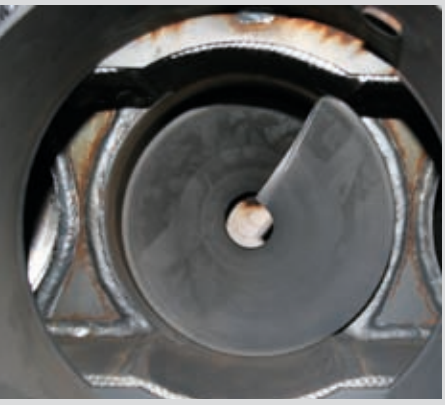
The incineration is regulated with a lambda sensor. Feeding in the fuel takes place using the renowned Heizomat discharger technology.

The range of use of the HSK-RA series is between 15-200 kW.

Woodchips, sawdust, wood shavings or even pellets are used as fuel.

For 30 years, always one step ahead!

- *Fully fireclay lining combustion chamber*
- *Emergency use possible with split logs*
- *Quick and simple maintenance*



De-ashing augers for cleaning the heat exchanger.

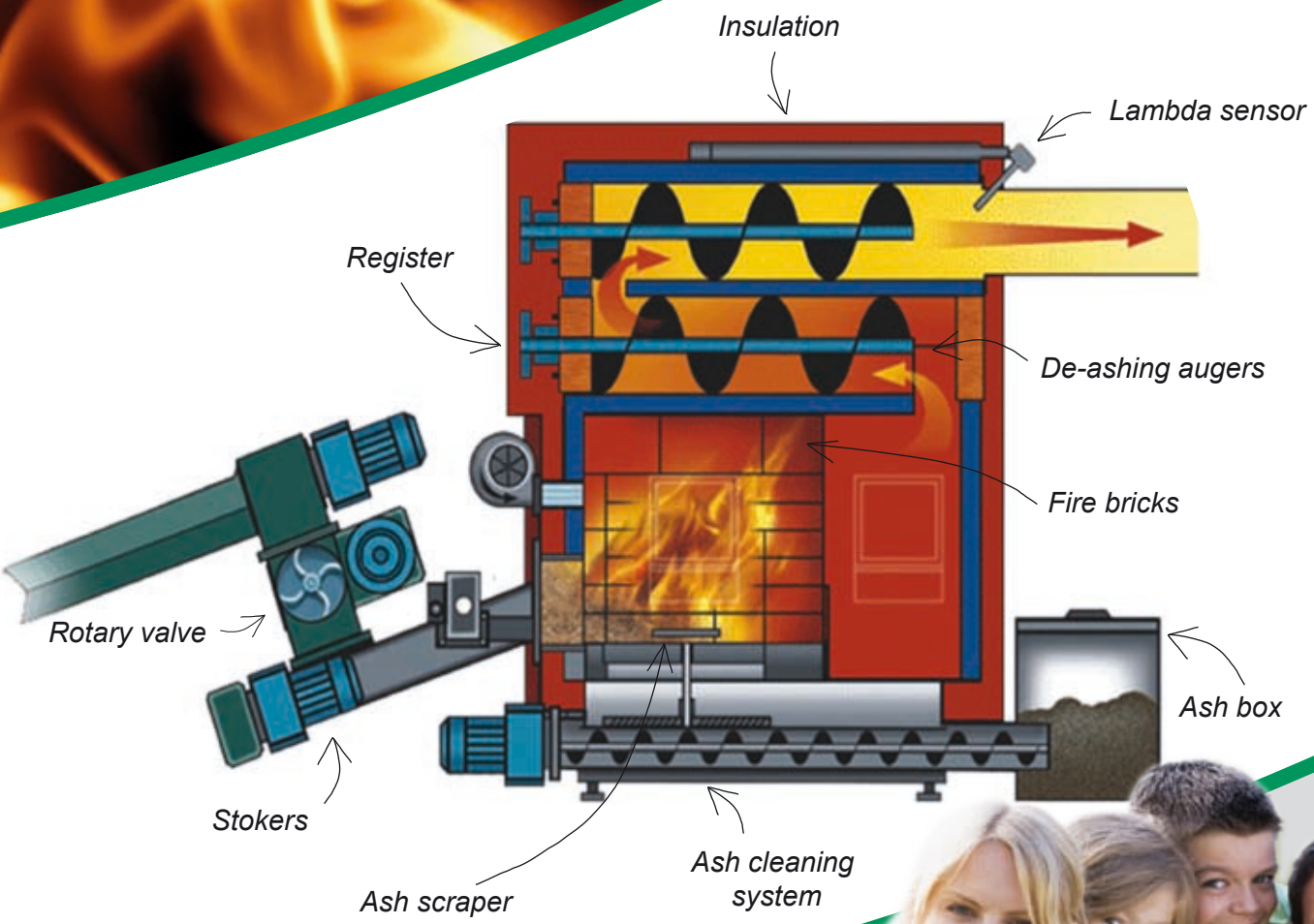
Our goal is a satisfied customer.

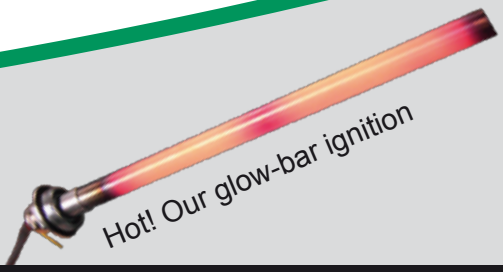
Stoker with primary air ducts.

We've got professionals! Our expert advisors will create the right solution for your heating together with you.

HSK-RA

15 - 200 kW





Fully fireclay lining combustion chamber.

Our HSK-RA boiler type is available with a output range of 15-200 kW.

Stable cast grate with ash scraper.

Fully automatic! So that you can keep your time for where it's needed!

The Agitator developed by HEIZOMAT in 1983, with a robust construction and perfect results that have not been matched to this day, allows fuel to be discharged from every room. Since 2011 our Agitator with the patented parallel extension can be equipped allowing the silo to be emptied circularly, with low noise and without rebounding.

Generous discharger head

The discharge auger with loosening geometry guarantees the trouble-free transportation of the heating material from the silo to the heating system. The high operational reliability is ensured by a 50/35 mm thick solid shaft.

The core of every HEIZOMAT discharger is the bevel helical gear developed by us with a conferrable torque of up to 5,000 Nm. This has a special seal that reliably prevents the intrusion of dust and dirt. It is powered by a drive motor which is flanged to the discharger channel outside of the silo. No undershelf is required!

For 30 years, always one step ahead!

- *Bevel helical gear with up to 5,000 Nm torque*
- *Robust agitator since 1983*
- *large volumed route channel for optimum fuel transportation*

4 chamber rotary valve with counter blade.

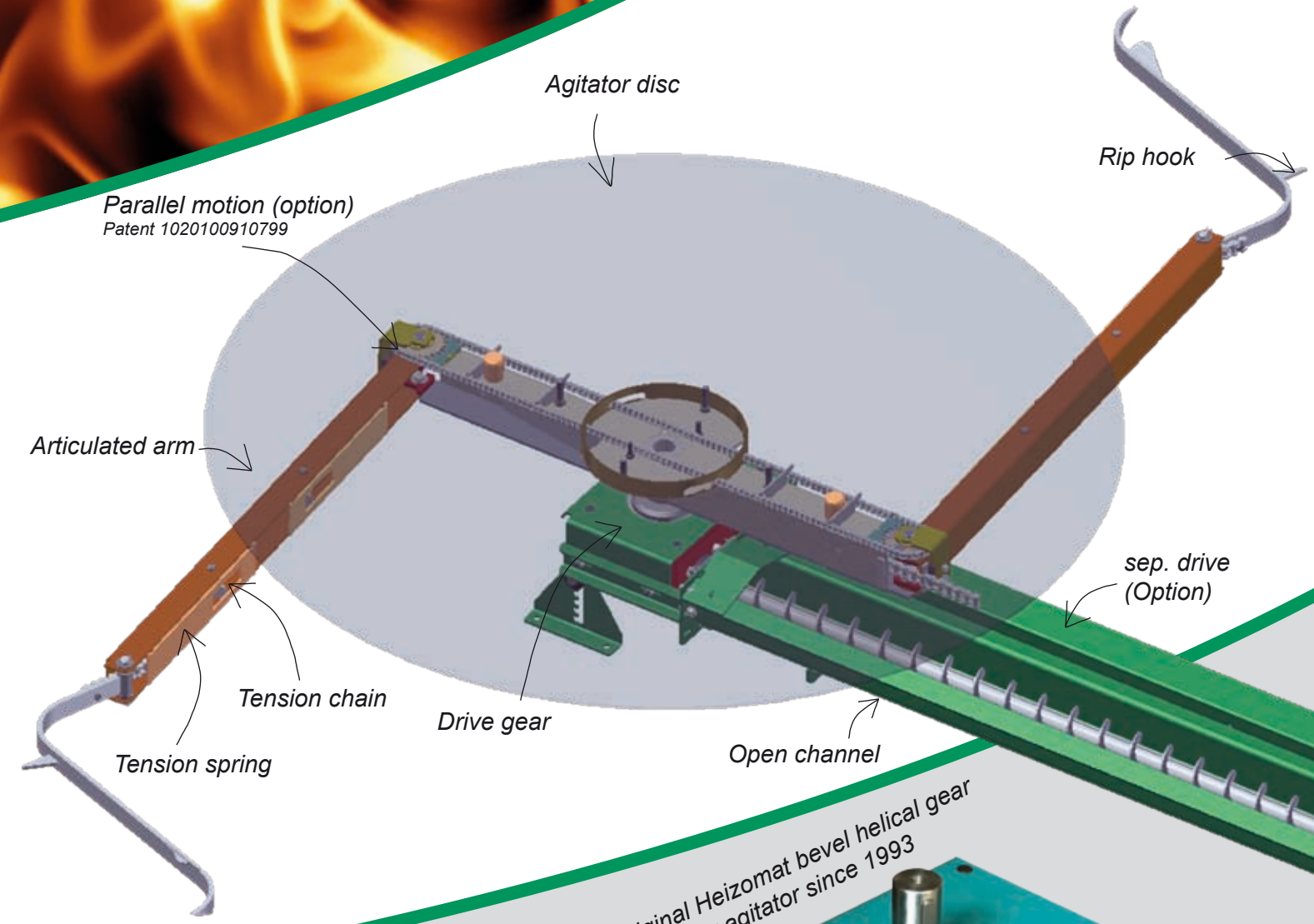
Robust agitator from 1-7 m, for the reliable transportation of fuel.

Discharger head with rip hook.

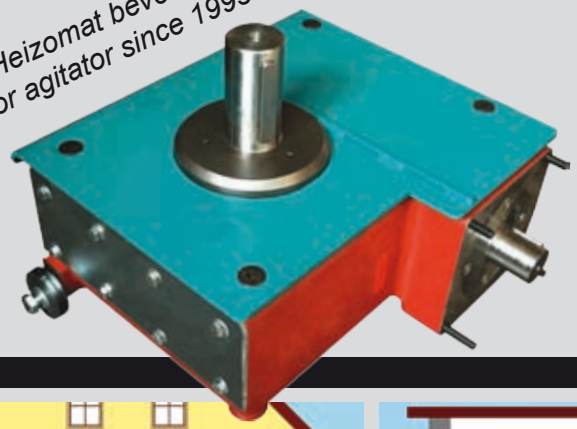
Robust! Using our route channel, fuel up to G50 is securely transported and reliably led to the fire via the 4 chamber rotary valve!

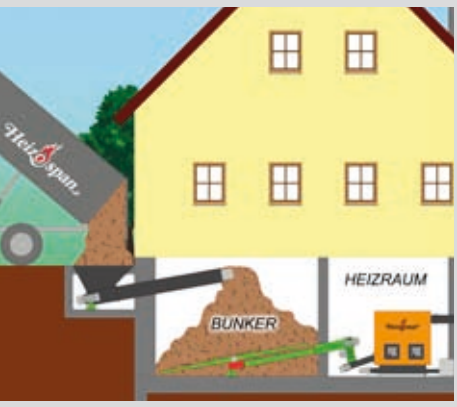
Discharger System

1000 - 7000 mm

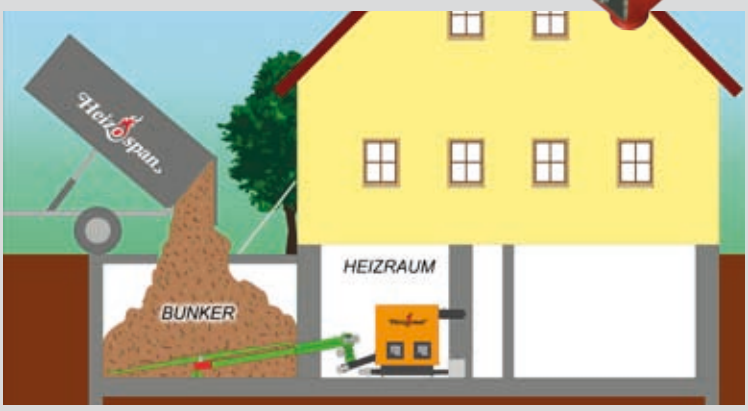


Original Heizomat bevel helical gear for agitator since 1993

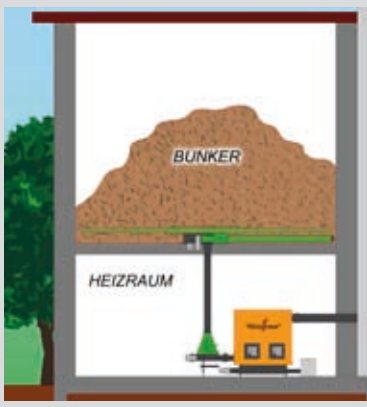




Inclined storage auger for internal fuel storage.



Underground storage for simple filling with agricultural equipment.



Overhead discharger for woodchip storage.

Energy saving champions! Our systems are all equipped with the most efficient drive motors.

The versatility of organic fuels knows no limits. The task of the RHK-AK series is to use this multiplicity as a heating material.

A round cyclone combustion chamber at the heart of the boiler is the guarantee for the optimum transfer of heat to the boiler water. The counter-rotating air supply ensures very good combustion of the fuel.

Through high-temperature cast blocks primary air is added to the combustion. Through the full fireclay lining of the combustion chamber, secondary air is specifically mixed into the combustion process and an optimum heat yield is achieved.

Everything which inertly turns to gas or burns is slowly moved towards the de-ash system with the chain catches and thereby optimally burned out.

For 30 years, always one step ahead!

- *Combustion chamber made from refractory concrete*
- *Material thickness of all boilers min. 6 mm*
- *Does not need to be switched off during boiler cleaning*

Generous heat exchanger with cleaning auger.

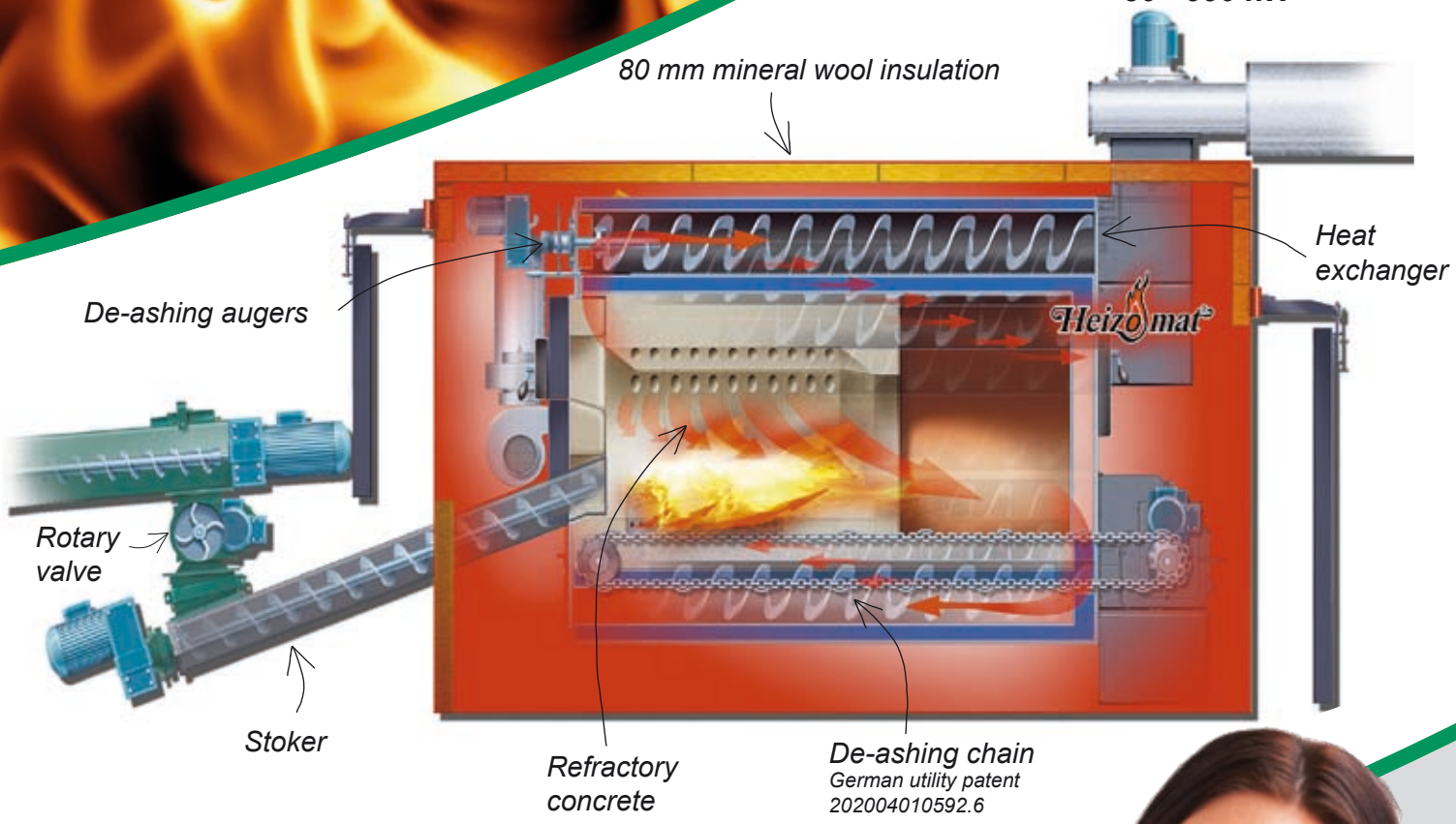
Major systems for local heat networks.

Combustion chamber with de-ashing chain.

Naturally! With our horizontal boiler construction the combustion takes place completely naturally at the highest efficiency.

RHK-AK

30 - 990 kW



Safe!
Our 4 chamber rotary valve

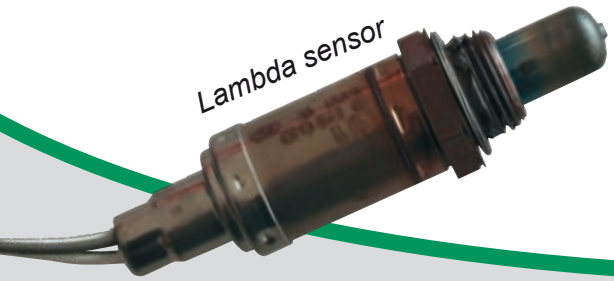
Clean combustion thanks to optimum ventilation.

Our RHK-AK boiler type is available with a output range of 30-990 kW.

Flexible extension systems for ash disposal.

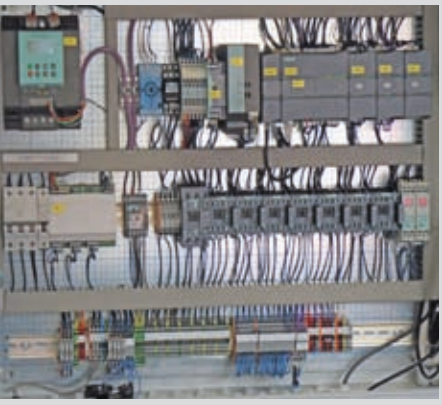
Good thinking! Thanks to the ash chain of the RHK-AK even cinder-carrying fuels are optimally utilised.

*The HEIZOMAT **TouchControl** control the combustion and load operation by registering the return temperature difference, the residual oxygen and the set boiler temperature.*
The fuel quantity regulation takes place, depending on the temperature, via the load control which adjusts the boiler output and the feed rate of the fuel energy content.



Operation of the control unit takes place via a touch screen. You are intuitively led through the menu.
Possibilities of visualisation on your PC or smartphone go without saying. Would you like to use your building control to retrieve our values? No problem, with our MOD-BUS.

Everything under contr



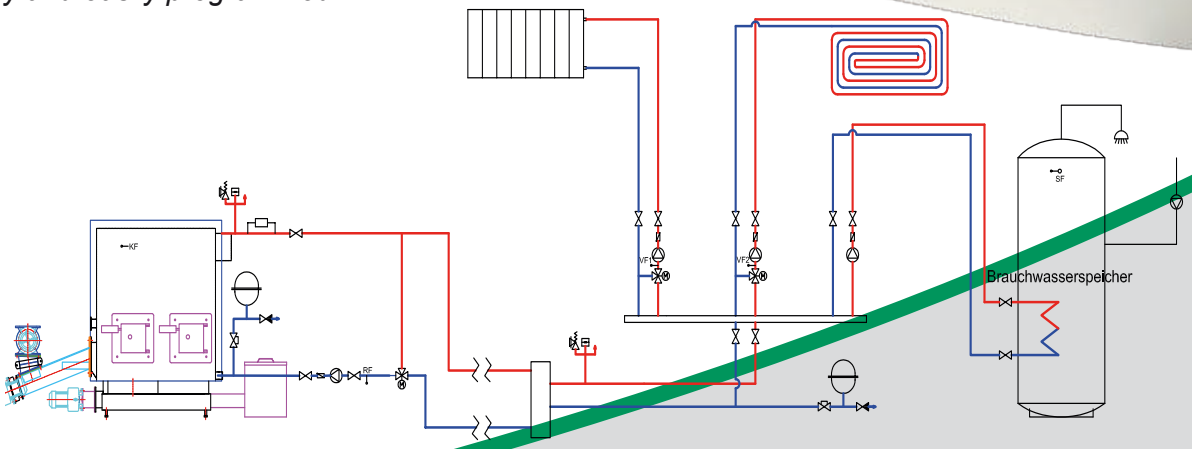
Controller box from 5 motors.

We produce and programme our control units ourselves.

Controller box up to 5 motors.

Flexible! Using the glow-bar ignition you can operate our systems in continuous, ignition or e-boiler modes.

*The control of your heater loops is controlled by our system controller **HEIZOCONTROL MX**. The controller has over 14 relay outputs and four pulse with modulation (PWM) – outputs for the speed control of energy-saving high-efficiency pumps that can be optionally switched to the discharge of a 0-10V signal.*
Furthermore, the controller is equipped with a frequency input, three impulse inputs as well as a variety of different sensor inputs. Thanks to the integrated SD card slot the controller can be quickly and easily programmed.



For 30 years, always one step ahead!

- *Control unit with lambda sensor since 1996*
- *Modulating operation through load stage control*
- *Storage of numerous fuels*
- *Ignition or continuous mode possible*
- *Speed-regulated control of the pumps*
- *Extendable to up to 7 heating circuits*
- *Freely programmable*
- *Simple updating/programming via SD card*

ol with our control units

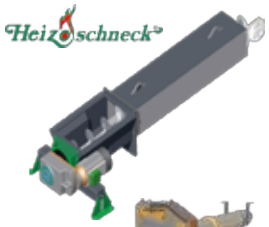
Triac - 3-button operation with 3 buttons.

Our TouchControl is child's play.

Built by professionals for you.

Clever! Thanks to our TouchControl we can steplessly adjust the power of our boilers.

HEIZOTRANS *Woodchip blower with filling funnel. With our ejection tube you can fill silos that are up to 10 m tall. Our blower is powered by a 11 kW electric motor.*
If the Heizotrans is equipped with load control a flow rate of up to 50 m³/h is possible. The filling funnel is available with 3,000 mm x 1,100 mm or 2,500 mm x 1,100 mm outer dimensions.



HEIZOSCHNECK *Inclined storage conveyor for the filling of internal storage. The filling auger can be installed with up to 6 m length and with a maximum incline of 45 °.*
Depending on version, the transportation speed is max. 35 m³/h.

WOODCHIP ELEVATOR *Using our Elevator you can fill silos up to 10 m tall with minimal dust. The system is powered by just one motor. It moves up to woodchip at up to 30 m³/h via the 3,000 mm x 1,100 mm or 2,500 mm x 1,100 mm filling funnel to the elevator conveyor. From there the material is moved upwards and transferred to a second auger.*

For 30 years, always one step ahead!

- *Woodchip Machines with “Tested Safety” mark*
- *Woodchip Machines for 30-80 cm trunk diameters*
- *Filling technology for woodchips*

Heizogreif for logs and treetop wood.

Heizohack hand-feed chipper for 30-40 cm diameter trunk.

Heizotrans woodchip blower.

Consistent! At Heizomat it's all about the use of renewable resources.

Heizohack

HEIZOHACK hand-feed machines *Our hand-feed chippers are the only products on the market that have been awarded the "German Equipment and Product Safety Act (GPSG)" mark for tested safety. The machines are powered by a PTO shaft or an electric or diesel engine (certain types only).*

Heizohack

HEIZOHACK crane-feed machines *The chipper for the professional, for a trunk diameter of 50 or 80 cm. Our chippers with crane constructions are very powerful when used on treetop and round logs.*

Heizogreif

HEIZOGREIF *You can transport logs and treetop with our forestry gripper. Even larger quantities of brush no problem for the Heizogreif with an opening width of up to 1.25 m.*

Heizoschaufel

HEIZOSCHAUFEL
Light goods bucket for woodchips with 1 m³ / 2 m³ / 3 m³.

HeizoCont returnable container with moving floor.

Heizohack crane-feed chipper for 50-80 cm diameter trunk.

Heizoschaufel Bucket for woodchips.

Rounded! Quick and clean filling of your silo is possible with our filling systems!

	RHK-AK 30	RHK-AK 50	RHK-AK 60	RHK-AK 75	RHK-AK 100	RHK-AK 154	RHK-AK 155
Heat capacity (kW)	0 - 36	0 - 50	0 - 60	0 - 75	0 - 101	0 - 149	0 -149
Heat exchange surface (m²)	3,40	4,50	5,60	7,20	8,90	14,10	13,90
Weight (kg)	900	1000	1150	1400	1500	2570	2320
Water capacity (l)	165	205	250	385	475	712	510
Length (mm)	1700	1900	2100	1950	2200	2790	2865
Width (mm)	860	860	860	1085	1085	1565	1150
Height (mm)	1585	1585	1585	1645	1645	1895	2065
Operating pressure max (bar)	3,0	3,0	3,0	3,0	3,0	3,0	3,0
Boiler temperature max (°C)	95	95	95	95	95	95	95
Return temperature min (°C)	>55	>55	>55	>55	>55	>55	>55
Heat flow	1 1/2“	1 1/2“	1 1/2“	1 1/2“	1 1/2“	DN 80	DN 80
Heat return	1 1/2“	1 1/2“	1 1/2“	1 1/2“	1 1/2“	DN 80	DN 80
Safety heat flow	1“	1“	1“	1 1/2“	1 1/2“	1 1/2“	1 1/2“
Safety heat return	1“	1“	1“	1 1/2“	1 1/2“	1 1/2“	1 1/2“

	RHK-AK 204	RHK-AK 205	RHK-AK 300	RHK-AK 400	RHK-AK 500	RHK-AK 650	RHK-AK 850	RHK-AK 990
Heat capacity (kW)	0 - 200	0 - 200	0 - 300	0 - 400	0 -500	0 - 600	0 - 800	0 - 990
Heat exchange surface (m²)	18,00	18,00	29,70	33,75	37,10	56,00	74,00	85,00
Weight (kg)	3108	2860	5400	6200	6800	8500	9900	14000
Water capacity (l)	985	660	1258	1580	1805	2680	3940	5600
Length (mm)	3290	3365	3490	3990	4290	4385	5086	5900
Width (mm)	1565	1150	1880	1880	1880	2146	2146	2650
Height (mm)	1895	2065	2035	2035	2035	2066	2066	3050
Operating pressure max (bar)	3,0	3,0	3,0	3,0	3,0	3,0	3,0	3,0
Boiler temperature max (°C)	95	95	95	95	95	95	95	95
Return temperature min (°C)	>55	>55	>55	>55	>55	>55	>55	>55
Heat flow	DN 80	DN 80	DN 80	DN 80	DN 80	DN 125	DN 125	DN 150
Heat return	DN 80	DN 80	DN 80	DN 80	DN 80	DN 125	DN 125	DN 150
Safety heat flow	1 1/2“	1 1/2“	1 1/2“	1 1/2“	1 1/2“	DN 80	DN 80	DN 100
Safety heat return	1 1/2“	1 1/2“	1 1/2“	1 1/2“	1 1/2“	DN 80	DN 80	DN 100

Technical data / fuel

BIOMASS with its approx. 3.0 kWh/kg is the energy source of the future. Grass, straw, reeds, shells and pips will become more important in the future.

WOODCHIP, the optimum fuel for our HSK-RA and RHK-AK boiler. Woodchip are usually attained during maintenance measures from forest residues and is a continuously renewable fuel.

PELLETS are pressed sawdust and can be used in all of our boilers. The advantage of pellets over woodchip is in the smaller required space. However, the annual fuel costs are relatively high.

SAWDUST / WOOD SHAVINGS from wood-processing operations are optimally used in our heating systems. Optimal combustion is possible thanks to our sophisticated ventilation.

	HSK-RA 15	HSK-RA 30	HSK-RA 50	HSK-RA 60	HSK-RA 75	HSK-RA 100	HSK-RA 150	HSK-RA 200
Heat capacity (kW)	0 - 14,5	0 - 33	0 - 44,5	0 - 60	0 -75	0 - 96	0 - 150	0 - 200
Heat exchange surface (m²)	2,60	3,80	4,90	5,90	8,10	10,50	15,70	20,90
Weight (kg)	575	770	860	950	1300	1470	2140	2660
Water capacity (l)	170	188	210	255	280	360	625	810
Length (mm)	800	935	1135	1335	1335	1635	1695	2660
Width (mm)	740	740	740	740	890	890	930	930
Height (mm)	1442	1442	1442	1442	1550	1550	1980	1980
Operating pressure max (bar)	3,0	3,0	3,0	3,0	3,0	3,0	3,0	3,0
Boiler temperature max (°C)	95	95	95	95	95	95	95	95
Return temperature min (°C)	>55	>55	>55	>55	>55	>55	>55	>55
Heat flow	1“	1 1/2“	1 1/2“	1 1/2“	1 1/2“	1 1/2“	2“	2“
Heat return	1“	1 1/2“	1 1/2“	1 1/2“	1 1/2“	1 1/2“	2“	2“
Safety heat flow	1“	1“	1“	1“	1“	1“	1 1/4“	1 1/4“
Safety heat return	1“	1“	1“	1“	1“	1“	1 1/4“	1 1/4“

Systems for your residential building

Systems for your farm

Systems for your business

Systems for your heating network

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1982 Founded by Robert Bloos

1982 The first Heizomat is installed

1984 Rotary valve as back-burning protection

1986 HSK-A with horizontal heat exchanger

1987 Automatic de-ashing

1989 First chipper is constructed

1990 Boiler type up to 800 kW

1992 Chippers up to 40 cm

1993 Development of the agitator drive gear

1996 Automatic heat exchange cleaning

1997 Automatic ignition

1998 Installation of lambda sensor

2000 RHK-AK prototype

2003 Channel in route form

2004 First Heizotrans is installed

2005 Boiler control via TouchControl

2005 Installation of the glow-bar

2005 HM14-800 KL is constructed

2006 Rotary valves with their own drive

2006 Discharger with separate drive

2008 Construction of boilers up to 990 kW

2009 Visualisation of the TouchControl

2010 Discharger with moveing floor

2010 Suction system for woodchip

2011 TouchControl with Mod-Bus

2012 Heizomat turns 30

and when would you like us to install your Heizomat?

Heizomat®

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