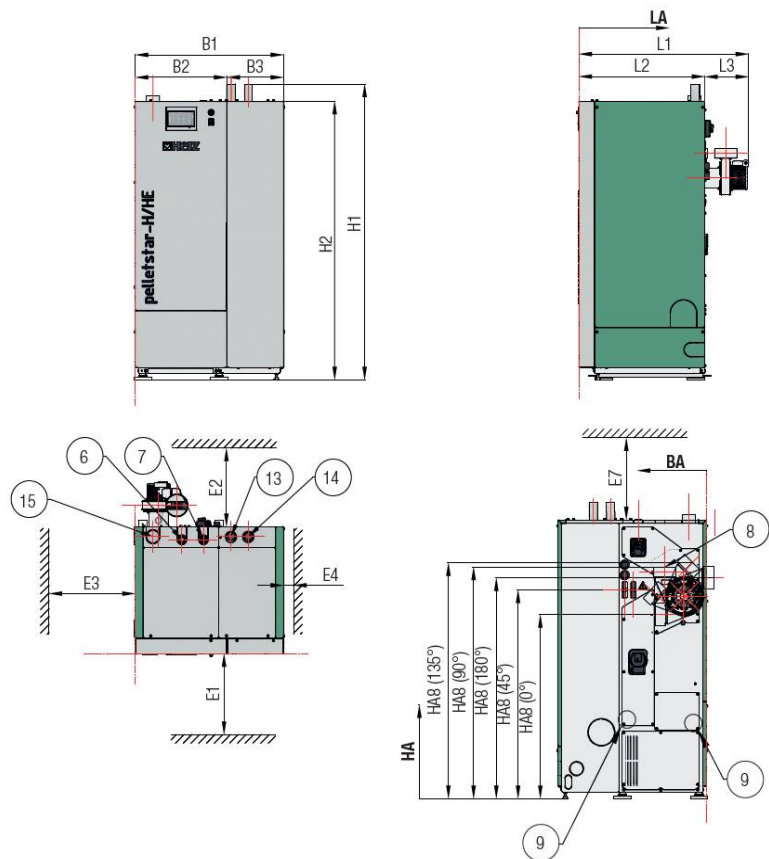


HEIM-Energie HP-H 10/20/30
with Suction Discharge System



Dimensions		10	20 - 30
L1	length	mm	985
L2	length	mm	730
L3	length	mm	240
B1	width	mm	860
B2	width	mm	530
B4	width	mm	330
H1	height	mm	1700
H2	height	mm	1600
Minimal gap		10	20 - 30
E1	minimal gap (front)	mm	750
E2	minimal gap (back)	mm	450
E3	minimal gap (left)	mm	50 / (500) ***
E4	minimal gap (right)	mm	500 / (50) ***
E7	minimal gap (over boiler)	mm	470

*** Acces to rear side of boiler required

Inserting Dimensions		10	20 - 30
length	mm	795	825
width	mm	490	640
height	mm	1590	

Connections		10	20 - 30
6	Flow	1" IG	
LA6	Flow (length)	mm	655
BA6	Flow (width)	mm	270
7	Backflow	1" IG	
LA7	Backflow (length)	mm	655
BA7	Backflow (width)	mm	395
8	Flue gas pipe connection	Ø 130 mm	
B8	Flue gas pipe (90°)	mm	240
HA8	Flue gas pipe (90°)	mm	1330
HA8	Flue gas pipe (0°)	mm	1050
HA8	Flue gas pipe (45°)	mm	1210
HA8	Flue gas pipe (135°)	mm	1255
HA8	Flue gas pipe (180°)	mm	1260
9	Filling / Depletion (behind casing)	1/2" AG	
13	Pellet Saugschlauchanschluss	Ø 50 mm	
LA13	Sauganschluss - Länge	mm	670
BA13	Sauganschluss - Breite	mm	560
14	Returnair connection	Ø 48.3 mm	
LA14	Returnair connection (length)	mm	670
BA14	Returnair connection (width)	mm	655
15	Rückluftschlauchanschluss	Ø 75 mm	

Changes in the sense of the technical progress reserved

HEIM-Energie HP-H 10/20/30 with Suction Discharge System

Power Data		10	20	30
		Pellets		
Power range - declaration at rating plate	kW	3 - 10	5,7 - 20	5,7 - 30
Fuel heat output	kW	10.4	21.2	32.1
Efficiency*	%	95.7	94.5	93.4
Boiler class EN 303-5		5		
Energy efficiency class		A+		

Boiler Data		10	20	30
Boiler weight	kg	~ 370	~ 460	
Operation temperature [max]	°C	90		
Setting Safety Temperature Limiter [max]- STL	°C	95		
Grate area	m²	0.008	0.012	
Volume integrated suction hopper	ltr.	56		
Volume ash drawer combustion chamber	ltr.	7.9		
Volume ash drawer	ltr.	17.9		
Volume combustion chamber	m³	0.021		
Chimney draft (underpressure) [min-max]	Pa	5 - 10		
Operating pressure [min-max]	bar	1,5 - 3		
Heat exchanger [Nr. conduits / Nr. tubes]		1 / 1 - 2 / 4	1 / 1 - 2 / 9	
Surface heat exchanger	m²	1.09	1.77	

Hydraulic Data		10	20	30
		Pellets		
Water capacity	ltr.	53	58	
Water flow rate (ΔT=15K) [min]	ltr./h	172	344	
Water flow rate (ΔT=10K)	ltr./h	860	1720	2580
Water flow rate (ΔT=20K)	ltr./h	430	860	1290
Flow resistance (ΔT=10K)	mBar	16		30
Flow resistance (ΔT=20K)	mBar	4		8.5
Recommended buffer volume [min]	ltr.	500		

Electrical Data		10	20	30
Power consumption	kW	2		
Electrical connection	V/Hz/A	230 / 50 / 16		
Electrical power consumption (nominal)*	kW	0.054	0.082	0.102
Electrical power consumption (partial)*	kW	0.044	0.057	
Electrical power consumption (Stand By)*	kW	0.012		

Test Report Data	10	20	30
Test report reference number	31-10838/T	32-10880/1/T	
Test institute	SZU		

Changes in the sense of the technical progress reserved

HEIM-Energie HP-H 10/20/30 with Suction Discharge System

Emission Data (Nominal Load) ($\Delta T=20K$)		10	20	30
		Pellets		
Flue gas temperature	°C	~ 120	~ 130	~ 140
Flue gas mass flow**	kg/h	23.6	45.9	67.1
Flue gas flow rate**	Sm ³ /h	18.2	35.3	51.6
Flue gas flow rate**	Bm ³ /h	22.8	47	74.8
CO ₂ -Content*	Vol. %	13.51	11.92	13.19
Efficiency*	%	95.7	94.5	93.4

Emission Data (Partial Load) ($\Delta T=20K$)		10	20	30
		Pellets		
Flue gas temperature	°C	~ 70		
Flue gas mass flow**	kg/h	9.8	14.7	
Flue gas flow rate**	Nm ³ /h	7.6	11.3	
Flue gas flow rate**	Bm ³ /h	9.1	13.7	
CO ₂ -Content*	Vol. %	11.27	11.00	
Efficiency*	%	94.0	94.6	

Note:

* measured value according to test report

** calculated with fuel values from test report

The specified volume flows are not suitable for design for an electrostatic filter or downstream flue gas cleaning. They are used exclusively for chimney calculation according to EN 13384.

Sm³/h = Standard cubic meters / hour

Om³/h = Operating cubic meters / hour

Door hinge on the right of the boiler standard --> door hinge on the left optionally possible

Fuel:

permissible fuel:

Wood pellets for non-industrial use according to Enplus, Swisspellet, DINplus or pellets according to EN 17225-2 according to the following specification:

.) property class A1

.) the maximum permissible fines content in the fuel store must not exceed 8% of the stored fuel volume (determined with perforated screen hole diameter 5mm)!

.) fine fraction at the time of loading: < 1.0 m-%

.) heating value in delivery condition > 4.6 kWh/kg

.) bulk density BD in delivery condition > 600 kg/m³

.) mechanical strength DU, EN 15210-1 in delivery condition, m-%: DU97.5 ≥ 97.5

.) diameter 6mm

Heating water:

Please observe ÖNORM H 5195 (current edition), EN 12828 Part 1 with regard to the condition of the heating water and VDI 2035 für germany.

Irrespective of the respective standards or directives, the following values apply as minimum requirements for filling and supplementary water:

conductivity:

.)<150µS

.)pH: 8,2 - 10

.)total hardness: <0,1mmol/l

If a standard or guideline requires a lower value, this must be used. The heating water must be checked at regular intervals in accordance with the applicable regulations. The results must be documented and stored.

Chimney:

The chimney system must be moisture-resistant and approved for solid fuels. The diameter of the chimney system must be calculated according to EN 13384-1, but the diameter must be at least equal to the diameter of the flue pipe connection (connection 8). The chimney system must achieve tightness class N1 or P1 according to the calculation.

The connecting pipe must be installed so that it rises steadily (min. 5%). In addition, all regional regulations must be observed.

Buffer tank:

A buffer tank is not required if guaranteed:

permanent minimum heat decline: 100% of the nominal power for min. 0,75 hours or 30% of the nominal power for mind. hour.

The size of the buffer depends on the system. This must be calculated by a planner in accordance with the present heating system!

Maintenance/service:

The specified free areas must be strictly adhered to when carrying out maintenance and service work.

Changes in the sense of the technical progress reserved