

Data sheet

BRUNNER Pelletheizung (BRUNNER pellet heating) BPH 7/25 and BPH 9/32



Product performance description

- Variable, adaptable power range from 7 kW to 25 kW or 9 to 32 kW for optimal adaptation to the required heat demand;
- automatic and quick ignition by high-performance heating element;
- runtime-dependent automatic heat exchanger cleaning;
- minimal power consumption and lowest standby losses;
- device design easy to operate and clean;
- large ash box (29 liter) with lid;

and much more

Highest operational safety

- detailed safety concept through the boiler control; continuous monitoring and control of all operating states, their notice on the display, as well as automatic archiving of both operating data and all messages;
- simple control with the modern touch display, which can be installed not only in the boiler room, but also in the living room;
- assured compliance with the required limit values of the 1st BlmSchV level 2;

and much more

Special product features

- simple control with the modern touch display, which can be installed not only in the boiler room, but also in the living roo;
- Automatic ignition: only occurs when there is an actual heat request;
- Simple execution of the exhaust gas test by the chimney sweep;
- in combination with the BRUNNER heating center: perfect coordination of all heat generators, heat consumers and storage, as well as mobile control via smartphone, tablet, PC at www.mybrunner.de;

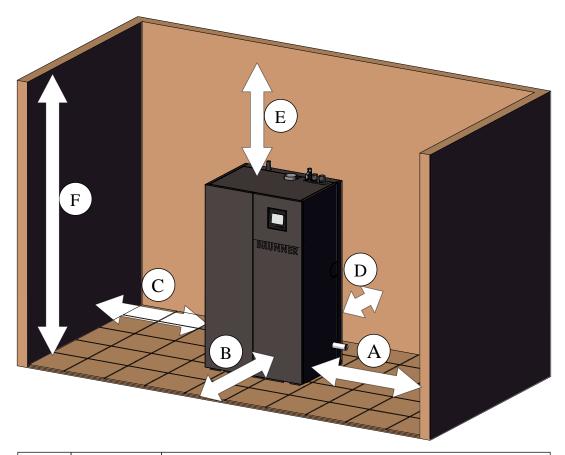
and much more



1 Minimum clearances

It is necessary to adhere to the minimum clearances when setting up the boiler in order to ensure accessibility for maintenance and service work on the boiler.

Exhaust systems must be easily accessible for the chimney sweep for measuring, checking and cleaning work. A suitable stand area should therefore be planned.



Α	500 mm	Maintenance side
В	600 mm	Operating side
С	50 mm	Wall clearance
D	50 mm	Wall clearance
E	367 mm	Maintenance (removal of heat exchanger-cleaning)
F	2000 mm	Resulting room height

Distances to fuel stores

The Model Firing Ordinance (MFeuV) is decisive for the minimum distances between fireplaces and flue systems to combustible components or fuel stores.

Distances to fuel stores conform §12 (3):

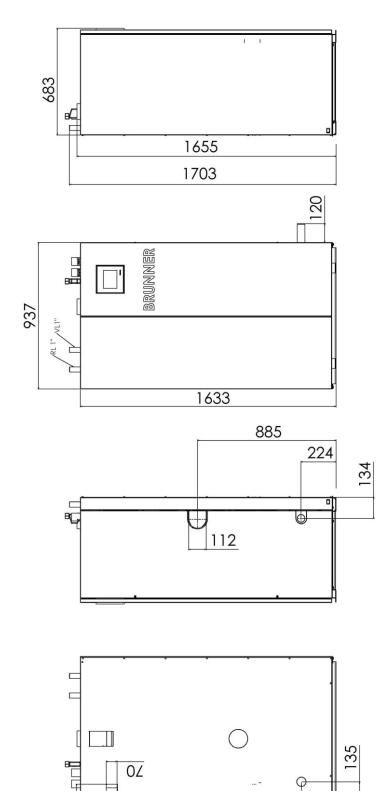
If fireplaces are set up in the rooms in accordance with Paragraph 2 No. 2 to 4, these must:

- be outside the required collecting areas for leaking fuel and
- have a distance of at least 1 m from containers for heating oil or diesel fuel.

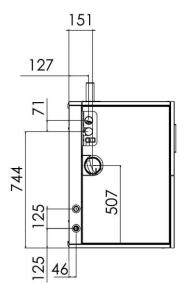
A distance of 0.1 m is sufficient if it has been proven that the surface temperature of the fireplace does not exceed 40° C.



2 Dimension sheets



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3 Technical data BPH 7/25 and BPH 9/32

Parameter	UM	BPH 7/25	BPH 9/32	
Operational mode		calorific value, condensing	calorific value, condensing	
Heat output range	kW	7 - 25	9 - 32	
Boiler efficiency Nominal heat output	%	105,4	105,4	
Boiler class (EN 303-5/2012)		5	5	
Operating pressure	bar	3	3	
Dimensions	,			
Dimension boiler with sheeting (w x d x h)	mm	937 x 673 x 1633	937 x 673 x 1633	
Mounting dimension boiler-body (w x d x h)	mm	927 x 660 x 1570	927 x 660 x 1570	
Mounting weight boiler-body, min.	kg	260	260	
Total weight	kg	380	380	
Pellet weight in the day container	kg	55	55	
Ash-tank drawdown	per year	3 - 4	3 - 4	
Duration of burning (at nominal load)	h	6,5	6	
Recomanded buffer storage volume, min.	liter	750	1000	
Data on water connections				
Boiler water content	liter	78	78	
Connecter flow/return Ø	DN (Zoll)	AG 25 (1")	AG 25 (1")	
Size MAG (expansion vessel)	liter	-	-	
Boiler flow temperature, max.	°C	75	75	
Boiler return temperature, min.	°C	25	25	
Height flow	mm	1703	1703	
Height return	mm	1703	1703	
Water-side resistance ∆T=20K	mbar	5,2	6,6	
Water-side resistance ∆T=10K	mbar	18,4	19,6	
Height floor drain / condensate drain	mm	223	223	
Connection of heat exchanger flushing	Zoll	IG 3/4"	IG 3/4"	
Line dimension up to BHZ / buffer tank	DN (Zoll)	25 (1") / 25 (1")	25 (1") / 25 (1")	
Data for chimney calculation (DIN EN 13884-1)				
Exit gas temperature nominal capacity	°C	53	53	
Exit gas temperature part load	°C	53	53	
Flue gas mass flow nominal capacity	kg/h (g/s)	41,1 (11,4)	50,4 (14,0)	



Parameter	UM	BPH 7/25	BPH 9/32
Flue gas mass flow part load	kg/h (g/s)	14,4 (4,0)	14,4 (4,0)
Height exhaust pipe connection	mm	1658	1658
Exhaust pipe connection Ø	mm	100	100
Necessary delivery pressure	Pa	-	-
Available delivery pressure	Pa	6	6
Combustion air connection set Ø	mm	110	110
Height of combustion air connection (break-through in cladding)	mm	885	885
Permitted type of installation with RLU mode of operation		FC _{42x} and FC _{52x}	FC _{42x} and FC _{52x}
Content CO ₂	%	15,8	16,1

Note on exhaust gas routing

In the case of room air-independent operation, the connection line must generally be at least 50 Pa over-pressure- tight. We recommend our connecting line system.

When renovating, we recommend our SET chimney renovation.

Note on combustion air routing for room air-independent installation

installationThe BPH has been tested for room air-independent operation in accordance with installation types FC_{42x} and FC_{52x} . The use of the "external supply air accessory pack", item no. PH033060 is required for this type of installation!

Electric connection	UM	BPH 7/25	BPH 9/32
Power supply	VAC, A, Hz	230, 16, 50	230, 16, 50
Power input at nominal load	W	102	115
Standby	W	12	12

Emission parameters

	UM	BPH 7/25	BPH 9/32		
Emissions according to the requirements for Germany-1.BlmSchV; at 13%O ₂					
CO at nominal heat output	mg/m³	16	15		
CO at part load	mg/m³	27	27		
Dust at nominal heat output	mg/m³	7	7		
Dust at part load	mg/m³	5	5		
OGC at nominal heat output	mg/m³	1	1		
OGC at part load	mg/m³	1	1		
NOx at nominal heat output	mg/m³	74	82		



	UM	BPH 7/25	BPH 9/32		
NOx at part load	mg/m³	78	78		
Emissions according to the requirements for S	Emissions according to the requirements for Switzerland -LRV; at 13%O ₂				
CO at nominal heat output	mg/m³	16	15		
CO at part load	mg/m³	13	27		
Dust at nominal heat output	mg/m³	7	7		
Dust at part load	mg/m³	5	5		
OGC at nominal heat output	mg/m³	1	1		
OGC at part load	mg/m³	1	1		
NOx at nominal heat output	mg/m³	74	82		
NOx at part load	mg/m³	78	78		
Emissions according to the requirements for A	ustria-Art.15a;	at 13%O ₂			
CO at nominal heat output	mg/MJ	11	10		
CO at part load	mg/MJ	18	18		
Dust at nominal heat output	mg/MJ	5	5		
Dust at part load	mg/MJ	3	3		
OGC at nominal heat output	mg/MJ	0	0		
OGC at part load	mg/MJ	1	1		
NOx at nominal heat output	mg/MJ	48	53		
NOx at part load	mg/MJ	50	50		

Specific parameters

	UM	BPH 7/25	BPH 9/32	
For calculating the generator expenditure figures according to EnEV or DIN V 4701-10				
Efficiency in static operation		1,05	1,05	
Efficiency in the basic cycle GZ		0,96	0,96	
Useful heat given off by the heat generator during a basic cycle	kWh	15,25	19,52	
Power share heating circuit		1	1	
Max. usage performance in operation Qnmax	kW	25	32	
Average usage performance in operation QNm	kW	22,5	28,8	
Temperature hysteresis	K	20	20	
Auxiliary energy demand basic cycle QHE, GZ	kWh	0,062	0,070	
Mean electrical power consumption in stat. operation	W	102	115	
To calculate the generator expenditure figures according to EnEV or DIN 18599				



	им	BPH 7/25	BPH 9/32
Standby loss at at an average boiler temperature of 70 °C		0,003	0,003
Load on which the heat generator test is based (= part load)		0,28	0,28
Boiler temperature in the test case at nominal load	°C	50,0	50,0
Boiler temperature in the test case at part load	°C	50,0	50,0

Information according to the Delegated Regulation (EU) 2015/1187		BPH 7/25	BPH 9/32
Energy efficiency class		A+	A++
Rated heat output kW		25	32
Energy efficiency index EEI		135	137
Annual use efficiency of space heater %		93	93
Special precautions		-	-

Information according to (EU) 2015/1189		BPH 7/25	BPH 9/32
Heating mode		automatically	automatically
Recommended buffer volume	liter	750	1000
Calorific value boiler		yes	yes
Solid fuel boiler with cogeneration		no	no
Combination heater		no	no
Exclusive fuel		Pure wood pellets according to EN 17225-2, class A1	Pure wood pellets according to EN 17225-2, class A1
Other suitable fuels		no	no
Emitted useful heat at nominal heat output (P _n)	kW	25,0	32,0
Emitted useful heat at 30% of the nominal heat output (P _p)	kW	7,5	9,6
Fuel efficiency at nominal heat output (η_n)	%	97,6	97,6
BFuel efficiency at 30% of nominal heat output (η_p)	%	98,0	98,0
Auxiliary power consumption at nominal heat output (el_{max})	kW	0,102	0,115
Auxiliary power consumption at 30% of the nominal heat output (el _{min})	kW	0,060	0,069
Auxiliary power consumption in standby mode (P _{SB})	kW	0,012	0,012



Annual space heating emissions (related to 10% O2, dry flue gas, 0°C, 1013 mbar)				
РМ	mg/m³	7	8	
OGC	mg/m³	1	1	
СО	mg/m³	36	35	
NOx	mg/m³	106	108	

Testing and approval by testing institutes

Our products have been adequately tested and approved by recognized testing institutes. We will be happy to send you the respective reports if required.

Ulrich Brunner GmbH

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