Instructions for Use

BRUNNER Pellet heating BPH 4/17

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1 Introduction

1.1 Purpose of this manual

This document contains information about the BRUNNER Pellet-heating BPH 4/17. Among others, you will find here information about:

- Safety and risks
- Assembly, installation and commissioning
- Product description and principles of operation
- · Operating instructions and control description
- Cleaning and maintenance
- Fault finding and troubleshooting
- Decommissioning and disposal
- Technical and commercial data

1.2 Target audience

This document contains also information for the User of the heating system.

1.3 Validity of these instructions

This technical documentation is valid for the BRUNNER pellet heating BPH 4/17 starting from October 2019.

Ulrich Brunner GmbH reserves the right to introduce technical changes, as far as they serve for technical progress, or if they are required by technical safety provisions.

1.4 Keeping of documents

IMPORTANT

READ CAREFULLY BEFORE USE

KEEP FOR FUTURE REFERENCE

The User is responsible for keeping of the BRUNNER pellet heating BPH 4/17 documentation, as well as all other important documents.

1.5 Symbols and text style rules

1.5.1 Specified symbols

In this documentation, a distinction is made between:

Operating personnel as the **User of the system**, i.e. the end user, which has received instructions from the Contractor and does not necessarily have additional qualifications.

Operating personnel as the **Contractor**, i.e. the qualified professionals, which are entitled to perform the indicated specialist works.

In this document, the following symbols are used:

DANGER



A danger of high risk persists, which leads to severe injury or death, if this endangering situation is not avoided.

WARNING

A danger of medium risk persists, which can lead to severe injury or death, if this endangering situation is not avoided.

CAUTION

A danger of low risk persists, which can lead to minor or moderate injury, if this endangering situation is not avoided.



ATTENTION

There is a certain risk, which can lead to a malfunction or damage of the related system and all devices connected with it, if the indicated notifications are not followed.



NOTE

Additional helpful information

1.5.2 Text style rules

In this document, the following text style rules are in use:

Handling or operating instructions with several steps

Descriptions of operations or actions with several steps, when these steps must be performed in chronological sequence.

- 1. First working step;
- 2. Second working step;
- 3. Third step.
- \rightarrow Final result

Appearance of on-screen display text in this manual

For descriptions of settings performed on the BRUNNER Touch Display, the displayed text is shown as bold letters.

1.6 For your safety

1.6.1 Dangers and safety measures

Assembly, installation and maintenance may only be carried out by a specialist company.

• Only carry out activities that are described in these instructions.



Electric shock

Work on the electrical installation may only be carried out by a qualified specialist company.

- The electrical connections are live. This can lead to an electric shock.
- Observe all applicable regulations.



Risk of injury due to scalding

High water temperatures can lead to scalding. Small children or elderly people can be at risk even at lower temperatures.

Do not set the hot water temperature of a connected hot water storage tank higher than 65°C.



Avoid damage to the appliance and resulting hazards

Sprays, solvents or cleaning agents containing chlorine, paints, adhesives etc. can cause damage to the appliance under unfavorable circumstances.

Under no circumstances should you make any changes to parts or equipment of the heating system if these changes could impair operational safety.



Risk of frost

If the BPH remains out of operation in an unheated room for an extended period of time (e.g. during the vacations), the water in the pipes may freeze. Freezing water can damage the pipes and cause consequential damage.

- Inform the operator about the frost protection of the heating system.
- Install the BRUNNER pellet heating system in rooms with an ambient temperature of 5 °C to 40 °C.



DANGER

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children must not play with the appliance. Cleaning and operator maintenance must not be carried out by children without supervision.

1.6.2 Warnings

Warnings in this document are emphasized by pictographs and signal words.

The pictograph and the signal word indicate the type, the source or causes of a certain action. The necessary measures or calls for action are indicated.

The result or purpose is shown as well. These warnings refer to possible misuse of the system, which seems likely based on our experience. The residual risks are indicated too.

The residual risks remain:

- despite the means for integration of safety during construction,
- despite the safety precautions,
- despite the additional protective measures.

For certain points, there are also given some recommendations and instructions on the application of protective measures, including personal protective equipment. Special safety instructions and recommendations are applied for transport, handling and storage. Instructions for safe setup and maintenance include separate protective measures too.

Structure of warnings

The warnings that precede each assembly step, are shown as follows:



Hazard for humans Type, source and causes of danger

Measures Calls for action

 \rightarrow Result or safe use



Hazard for the system Type, source and causes of danger

Measures Calls for action

 \rightarrow Result or safe use

1.6.3 Regulations

Among others, the following regulations and guidelines must be observed during installation, commissioning and maintenance of the BPH 4/17 :

Legal requirements:

- the legal regulations for accident prevention
- the legal regulations for environment protection
- the provisions of the industry associations
- the "Energy Saving in Buildings" law (Energieeinsparungsgesetz-EnEG)
- the Energy Saving Act (Energieeinsparverordnung)
- the Master Fireplace Act (MFeuVo) of the respective Federal Countries (FeuVo)
- the Country Building Code and the list of technical building regulations
- the governmental, regional building codes and boiler room equipment listings.

Standards and Guidelines:

- the relevant safety conditions included in DIN, EN, DVGW, TRI and VDE standards
- DIN EN 12828 Heating systems in buildings Hot-water heating systems
- BImSchV Federal Immission Control Ordinance
- EN 13384-1 Exhaust systems thermal and fluidic calculation methods
- DIN 18160-1 Exhaust systems Part 1: Planning and execution
- EN12831 Heating systems in buildings; Method for calculation of the design heat load
- EN14597 Temperature control devices and temperature limiters for heat generating systems
- DIN 4753 Water heating systems for drinking and process water
- DIN 4109 Sound insulation in buildings, supplementary sheets and permissions
- DIN 1988 Technical rules for drinking water installations (TRWI)
- DIN EN ISO 4126 or TRD 721- Safety devices for protection against excessive pressure Safety valves
- Details Norm: DIN VDE 0100-540 VDE 0100-540:2012-06 Setting up low voltage installations
- DIN VDE 0100 Teil 701 DIN VDE 0100-710 Low voltage installations
- DVGW worksheets W551 and W552 Technical measures to reduce the growth of Legionellae
- VDI 2035 Prevention of damage in hot-water heating systems
- VDI 4708 Heating equipment pressure maintenance, venting, degassing.

1.6.4 Conformity



Hereby we declare as the manufacturer that this product - BRUNNER pellet heating BPH 4/17 complies with the basic guidelines for sale in the EU.

1.6.5 Obligations of our Natural Power Partners

To ensure the proper functioning of the BRUNNER pellet heating system BPH 4/17, observe the following instructions:

- Perform works only if you have the necessary specialist knowledge.
- Perform only such activities, which are indicated or described in this manual.
- Perform all activities in compliance with applicable standards and regulations.

- Please ask an expert for instructions on the operation and maintenance of the system and potential hazards that may arise during operat

1.6.6 Surfaces with possible risk of burns



Risk of injury from burns

Contact with hot surfaces of the boiler can lead to burns (see illustration).

- Do not touch the boiler's flue gas pipe, especially if it is not insulated.
- Allow the boiler to cool down and wear protective gloves before removing the ash.

- Allow the boiler to cool down or wear protective gloves before carrying out cleaning and maintenance.

During operation

During operation, the surface of the boiler becomes hot: see figure "*Temperature measurements during operation*".

Contact with these surfaces can be dangerous for certain people. Handle with care.

No surface temperature exceeds values that could lead to burns.



Illustration 1: Temperature measurements during operation

2 Product description

2.1 Intended use

The BRUNNER pellet heating system BPH 4/17 has been designed and constructed in accordance with the generally recognized rules of technology and the recognized safety regulations.

The BRUNNER pellet heating system is intended for heating domestic hot water and drinking water in single or multi-family houses or commercial buildings.

Intended use also includes compliance with the operating instructions and operating manual associated with the boiler.



NOTE

The operator of a Brunner boiler is obliged to regularly service and maintain the system in accordance with the Ordinance on Energy Saving Thermal Insulation and Energy Saving Systems Technology in Buildings (Energy Saving Ordinance - EnEV) § 11. We recommend the conclusion of a maintenance agreement between the specialist tradesman and the operator of the heating system.

Improper use:

The BRUNNER pellet heating system BPH 4/17 is not intended to:

- directly heat drinking water;
- burn fuels other than those specified in the technical documentation.

Any other use of the boiler is not permitted. The manufacturer is not liable for any resulting damage to property or personal injury.

Non-compliant operation may result in danger to life and limb of the operator or third parties or damage to the boiler.

Any other use or modifications to the product, including during assembly and installation work, will invalidate all warranty claims.

2.2 Type plate

The rating plate is located on the ash door, clearly visible after opening the

cladding door.



Illustration 2: Nameplate position



The following important information can be found on it: CE mark; Recycling symbol; Manufacturer data; Type test number; Designation; Nominal heat output; Boiler class; Fuel class; Fuel class; Approved operating pressure; Approved operating temperature; Water content of the boiler; Operating mode; Required mains connection; Current manufacturing number of the existing boiler

2.3 Overview of the boiler



1	Boiler cladding		
2	Control panel (touch display)		
3	STB button (safety temperature limiter)		
4	Inspection hole		
5	Ash door		
6	Ash door opening lever		
7	Ash box		
8	Cladding door		
9	Cleaning tool		
10	Return air pellet feed		
11	Pellet feed		
12	Cold water for heat exchanger flushing, connection safety hose with solenoid valve included with the boiler		
13	Flow buffer loading, alternatively VL hot water storage tank loading in operation without buffer		
14	Flue gas connection 100 mm		
15	Return flow buffer loading, alter- natively RL hot water storage tank loading in operation without buffer		
16	Safety valve		
17	Flow heating circuit during opera- tion without buffer		
18	Return flow heating circuit for op- eration without buffer		
19	Recesses for maintenance pur- poses or alternatives for connec- tion		
20	Waste water connection with siphon		

2.4 Functional description

Low-emission and energy-efficient pellet boilers are characterized by the fact that the individual stages of wood combustion: wood gasification - wood gas combustion - burnout take place separately from each other in terms of space and time.



INFO The numbering of the components refers to the boiler description drawings from the previous chapter "Overview of components".

Depending on the time programming, the pellets are transported from the annual pellet hopper to the pellet storage hopper via the pellet feed connection. Feeding takes place via the dosing screw, the cell wheel, the feed screw by means of an infinitely variable drive, onto the sliding grate.

After the pellets are ignited, the combustion air supply is regulated by a differential pressure sensor as the combustion chamber temperature rises to ensure optimum degassing of the pellets and afterburning of the wood gas in the combustion chamber and in the insulated flame chamber. The hot flue gas is then fed through a single-pass high-performance heat exchanger, which enables particularly low flue gas temperatures and thus ensures optimum utilization of the calorific value through flue gas condensation. The heating water is heated particularly efficiently as a result. The fly ash is also separated here and transported into the waste water via motor-driven turbulators and an additional water flushing device.

The remaining wood ash remains on the sliding grate and falls automatically into the ash box (6) due to the linear movement of the grate

Combustion control

Combustion is controlled via the lambda probe and the differential pressure sensor. This allows the combustion air quantity and combustion quality to be optimally regulated. The combustion air volume is adjusted dynamically depending on the required boiler output and the fuel. A speed-controlled fan is used to convey the combustion air. Deviations in the fuel composition (calorific value, bulk density) can thus be almost completely compensated for in favor of low-emission and energy-efficient combustion.

2.5 Safety concept

Boiler control

The detailed safety concept of the boiler control system ensures continuous monitoring and control of all operating states and all connected sensors, fans and drives.

The primary aim is to control the combustion process and to comply with the safety requirements, including EN 303-5 ("Boilers - Part 5: Boilers for solid fuels, manually and automatically fired, nominal heat output up to 500 kW").

If required, the following functions are also controlled automatically:

- Heat removal (with boiler pump)
- Boiler cleaning (grate and heat exchanger cleaning)
- Filling the storage tank

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- Control of the pellet feed to the combustion chamber
- Automatic ignition
- Flue gas fan control
- Potential-free contact for external fault evaluation.

Control, communication and monitoring functions are automatically activated by appropriate configuration during installation/commissioning.

All operating states as well as the current operating parameters are shown on the touch display. If operating faults occur, the error messages appear on the display and warning signals sound.

All information and error messages are automatically saved in the archive and can be retrieved from there for error assessment.

Software can be updated at any time via the existing USB port.

Safety devices



NOTE

Necessary safety devices in accordance with EN 12828 ("Heating systems in buildings"), which are not part of the scope of delivery, must be provided by the customer. All safety devices must be professionally installed and checked for proper function at least once a year. Expansion vessels, expansion pipes, safety valves and blow-out pipes must be protected against freezing, e.g. by being installed in a frost-proof boiler room.

Safety temperature limiter (STB)

The safety temperature limiter (STB) is a component that interrupts the control operation of the boiler. This protects the boiler itself, or the system connected to it, from damage. Accordingly, the STB only becomes effective if the actual temperature controller should fail.

The boiler can only continue to operate if the safety temperature limiter is switched back on manually. The boiler safety group also protects the heating circuit.

Blow-out pipe

The blow-out line consists of the lines between the safety valve and the boiler.

The following applies to the blow-out line:

Nominal diameter [DN]	Max. Length [m]	Max. Number of bends [pieces]
20	2	4
25	2	4

Boiler safety group

The boiler safety group protects the boiler against overpressure. The boiler safety group consists of a safety valve, a pressure gauge and an automatic air vent.

The safety valve is installed in the boiler safety group. A safety valve in accordance with EN ISO 4126 is installed at the factory as a safety device against overpressure. The safety valve must be installed in the immediate vicinity of the boiler. The boiler safety group is part of the pellet boiler BPH 4/17.

Pressure expansion vessel

Closed heating systems must be equipped with a pressure expansion vessel. The volume of the pressure expansion vessel must be dimensioned so that the pressure at the highest and lowest temperature in the system is not impermissibly exceeded or fallen short of. Dimensioning should be carried out in accordance with EN 12828 ("Heating systems in buildings").

The pellet boiler BPH 4/17 is equipped with a pressure expansion vessel with a volume of 18 liters as standard. If a higher volume is required by calculation, the heating system must be equipped with an additional pressure expansion vessel.

Prerequisite for proper functioning of the pressure expansion vessel:

- the pressure expansion vessel must be located near the heat generator and - with some exceptions - near the lowest point of the heating system

- the pressure expansion vessel must always be connected to the return pipe

- the pressure expansion vessel and the associated connection pipe must not be thermally insulated.

2.6 Fuel and water quality requirements

2.6.1 Pellets

Wood pellets are a modern, environmentally friendly and standardized wood fuel. They are mainly pressed from the bark-free sawdust from sawn timber production. The strength of the wood pellets is ensured by the lignin contained in the wood, supported by the small addition of natural binding agents such as starch.

Quality classes of the pellets



The BRUNNER BPH pellet heating system may only be operated with wood pellets that comply with the DIN EN 14961-2/ A1 standard or the international DIN EN ISO 17225-2 standard and have a diameter of 6 mm.

Only purchase wood pellets from suppliers who can guarantee their high quality.

The following certificates stand for assured pellet quality (wood pellets for use in small fires):





ENplus A1 quality certificate with ID number of a certified German pellet dealer:



2.6.2 Heating water

Heating water

In modern heating systems, the quality of the heating water has a significant influence on the functionality and service life of the heating system due to the combination of different heat generators and components such as high-efficiency pumps or modern sensor technology. For this reason, there are corresponding national specifications such as VDI 2035 in Germany, ÖNORM H 5195-1 in Austria and similar regulations.

BRUNNER therefore recommends filling and refilling the heating system with appropriately treated water.

Drinking water analyses for the respective supply area can be requested from the responsible water supply companies.

3 Operation basics

The images shown in the installation and operating instructions (including display views) do not claim to be an exact representation of the displays on your system. These depend on the installed system components, their measurement functions, control variants and set parameters. In some cases, these system parts are not part of the standard versions, but are provided as optional accessories.

3.1 Licenses

For the visualization of our user interface we use an open source operating system, which is subject to different license models.



You can see the licenses used in the software under the menu: "Settings" \rightarrow "Display" \rightarrow "Licenses/Contact"

Written Offer (open source software)

Our product contains software and sourcecode whose rightholders license it under the terms of the GNU General Public License, version 2 (GPLv2), version 3 (GPLv3), the GNU Lesser General Public License, version 2.1 (LGPLv2.1), version 3 (LGPLv3) and other open source software licenses.

If you send us a request for oversending the licensed source code of the software, please use the following address:

Ulrich Brunner GmbH Zellhuber Ring 17-18 84307 Eggenfelden info@brunner.de

Upon request, we will send you a CD-ROM with the provided source codes. You have to pay the costs for material, packaging and delivery.

The offer is valid for at least three years from the date of delivery of the product on which the software is installed, and as long as we can offer spare parts and customer service for this product, or from the time of downloading the software from our homepage.

Please include the type of product for which you want to receive the source code in your request.

3.2 Touch-sensitive display

The BPH 4/17 is equipped with a touch-sensitive display to make operation simple and easy to understand. The touch-sensitive display is a combination of input and output device, which enables direct control of regulatory functions by touching the screen itself or certain parts of displayed screen.

The controls are activated directly by tapping or touching. You can do it with your finger, or using a special stylus.

To indicate the selected option, the corresponding softkey will shortly change its colour **to orange** when tapped (or touched) and then will turn **dark**.

Available softkeys are represented by: symbols (e.g. Home, Sensors, Menu, etc.), sliders, check boxes, text or number fields, or key pads.



The

Illustration 3: Display operation by tapping, touching or pressing

Illustration 4: Display operation with sliders

3.3 Display overview

3 1 2 0123 Π Hor 4 23 °C 5 *** 6 47°C 64 7 (Mittwoch, 31. März 2021) 🌐 🕨 BPH Heizung 9 8

Home view for BPH with connected hot water storage tank

Home view for BPH with connected DHW cylinder 3.0



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Pos.	Designation	Function	
1	Operating status	Display of the current operating status and service displays	
2	Exhaust gas temperature Current temperature of the exhaust gases in °C		
3	Boiler temperature = flow temperature	Temperature of the boiler in °C; is also displayed in color; (blue = cold; red = warm)	
4	Pellet suction turbine	Shows graphically whether the suction turbine is active (green) or switched off (gray)	
5	Combustion chamber	Status of the combustion chamber (off, ready, active; ignition phase, control mode) and combustion chamber temperature	
6Daily pellet container (pellet storage)The fill level of the daily container is displayed graphica7Pellet storageThe fill level of the pellet store is displayed schematical levels are displayed depending on the actual level.		The fill level of the daily container is displayed graphically	
		The fill level of the pellet store is displayed schematically; different fill levels are displayed depending on the actual level.	
8	Screw conveyor for feeding pellets into the combustion chamber	Graphic animation of the pellet screw conveyor and rotary valve. When the spiral of the screw and the 8-chamber rotary valve are moved, the pellets are fed into the combustion chamber from the side.	
9 Ash box Status of the ash box; the filling status of the ash box is show schematically; information texts appear when emptying is rec		Status of the ash box; the filling status of the ash box is shown schematically; information texts appear when emptying is required	
10 Pipes to the boiler The lines are displayed in color in the line section between and buffer, as well as for other connected devices			
11Buffer with temperature displayBuffer temperatures (temperature ser of the buffer tank (shown in color)		Buffer temperatures (temperature sensor) in °C in the relevant areas of the buffer tank (shown in color)	
12 Outdoor temperature Current display of the outside temperature		Current display of the outside temperature	
13	Heating circuit	Designation and temperature display in the heating circuit. Optionally, two heating circuits can be connected.	
14	Hot water tank	Hot water cylinder with current temperature display	
The measured values displayed may deviate slightly from the actual value.			

3.3.1 Combustion chamber - display views



Operating status: Standby

The combustion chamber is cold.



Operating status: Control operation



Operating status: *Ignition phase*



Operating status: Burnout

The combustion chamber is warm.

3.3.2 Ash box - display views

The fill level of the ash box is calculated. When the box is 80% full, a message appears on the display: Please empty soon.

If the ash box is full, the boiler start is blocked.

After emptying, the fill level must be reset: Tap on the representation of the ash box on the display (home view) and confirm with **"Yes**".



1. The ash box is empty.



2. There is ash in the ash box.



3. There is ash in the ash box.

Emptying is not necessary.



4. There is ash in the ash box. Emptying is necessary.



5. There is ash in the ash box. Emptying is absolutely necessary. If the ash box is not emptied, the start of a new firing will be blocked.

3.3.3 Buffer tank display views

In the graphic display of the buffer tank, the volume is shown in the bottom bar (here: 1500 l). This information is requested during commissioning or configuration.

73 °C	without central heating system: Top buffer = ST 36	with CHP or EWP basis: Top buffer = S3 / B-E 21
46 °C	Middle buffer = ST 33	Middle buffer = S4 / B-E 8
20 °C	Bottom buffer = ST 35	Buffer bottom = S5 / B-E 9
Puffer 1500l		

3.4 Buttons

You can access further information areas by tapping on the following marked fields:

- All sub-levels of the upper menu bar;

- Changeover to any connected heating system (BHZ) (lower menu bar **Heating**),

- Information on the daily pellet container for pellet storage,

- Information on the annual pellet container for pellet storage,

- and much more.



Illustration 5: Display with active buttons

The top menu bar consists of the following icons:



Sensoren

Home view

is the start page and the starting point for all applications;

This button displays a schematic view of the boiler system.

The fields with texts and values provide information about the current operating mode of the boiler (e.g. operating mode, temperature measurements at various measuring points)

Sensors

In the Sensors view, all sensor values (measured and calculated values) are listed with the associated numerical value, including their unit. A graphic preview is also displayed on the righthand side of the sensor field.

The following parameters can be read on this page: Boiler output, boiler temperature (°C), temperature in the combustion chamber (°C), temperature of the flue gases (°C); lambda probe (% residual oxygen content); return temperature (°C) and temperature in the top buffer tank (°C).

Proceed as follows to select a sensor value:

1. touch the name of the desired value (e.g. combustion chamber) in the left part of the touch display;

2. for a full view of the graph, touch the area of the graph;

The progression of the selected parameter over time is displayed graphically in the full view.

Note: The scaling automatically adapts to the value and time curve.



The measured values displayed may deviate slightly from the actual value.

Menu



This button enables direct access to the adjustable additional functions (boiler lock; ignition enable; start temperature - see details in the relevant chapters) and view of important parameters: the current value and its setpoint value: boiler (°C); return (°C); combustion chamber (°C); flue gas (°C); lambda probe (%); output control (%); top buffer temperature (°C); middle buffer temperature (°C) and many more. (are sometimes displayed differently - depending on the connected heating control)



Archive

All recorded graphics can be called up in the archive.

The respective sensor graphs are saved under year/month/day/time. By selecting the year and the corresponding month, you will receive a list of the entries saved in it (day - time).

Archive navigation: Click **Month** to return to the monthly overview and **Years** to return to the annual overview.

The individual burn-up is selected within the archive window (the selected entry is displayed in orange). Depending on the selected sensor value (orange button), the corresponding graphic is displayed in the preview (the default setting is always "Boiler output"). The saved error messages are always displayed in the message window for all sensor graphics.



The measured values displayed may deviate slightly from the actual value.

Status

0123 Status

This button provides you with an overview of all operating data (e.g. operating hours, amount of heat generated, number of burn-offs, etc.)



Flue gas test

You can use this button to set the boiler for a flue gas measurement or enter the date for this. You will be reminded 3 or 1 day in advance.

You will receive instructions on the necessary preparatory activities. The boiler is automatically started at the right time.

The color of this button shows the current status of the "Flue gas test" function: white = inactive; green = active.



Settings

This button enables settings and access to the boiler configuration.

The parameter levels are only accessible via a PIN.

For the operator: PIN code is 9999

By entering the assigned setup PIN number, the boiler control system recognizes the respective user. Only certain heating control setting options are enabled for the various users.

Enter the PIN number:

After pressing the **Settings** button, the following numeric keypad appears:

By tapping the white-marked numeric keypads, they become active and adopt the subsequently selected number;

Immediately afterwards, press the numbers of your PIN;

Please note the position of the thousands/hundreds/tens/ones of your PIN number. If you want to delete a number, press **Del**;

If you want to exit the program, press esc;

After entering the number, press O.K.

 \rightarrow Advanced settings are now enabled.



Illustration 6: Enter PIN button

Settings logout

You can exit the Settings function area immediately to log in again with a different PIN if required (setup PIN).

All settings made so far will be saved.

To exit the Settings function area immediately, proceed as follows:

1. Enter the path:

Settings / Control panel / Settings logout

- 2. Tap the Settings logout button;
- \rightarrow The touch display switches to the Home view.



Info

This button is a help function.

If there are error messages, the Info button is highlighted in orange. In the case of information texts, the button remains gray and the information messages can be acknowledged.

3.5 Display views Pellet storage

3.5.1 Daily pellet container

Filling the daily container

The graphic element of the daily container is an active button that can be used to activate or stop filling. If desired, you can also set a blocking time.

An active filling process in the daily pellet container is shown by a green suction turbine and simultaneously with incoming pellets in the upper area.



Illustration 7: Button for filling the daily container



Illustration 8: After tapping the button for the daily container

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Pellet filling (= Pellet Befüllung)	Manual filling (= Handbefüllung) = there is no automatic filling, the control system always assumes that there is a sufficient supply of pellets. Automatic filling (= Automatikbefüllung) = filling is carried out by the automatic pellet load-ing system to convey the pellets from the annual container into the daily container of the pellet boiler.	
	Befüllmethode des Tagesbehälter (G000) Tagesbehälter mit Pellet befüllt: Handbefüllung Automatikbefüllung Cancel O.K.	
Daily container (= Tagesbeh.)	The signal from the fill level sensor is displayed here.	
Conveying Allowed (= Fördern erlaubt)	Filling can be enabled (Yes = Ja) or stopped (No = Nein) at any time using the following button.	
Blocking time (= Sperrzeit)	Setting a blocking time; selection option: On / Off (= Ein / Aus) = during this period, the pellet transport from the annual container to the daily container of the pellet boiler is stopped due to noise pollution;*	
Blocking time start (= Sperrzeit Start)	Start of the blocking time; setting the time using the keypad*	
Blocking time end (= Sperrzeit Ende)	End of time; setting the time using the keypad*	
	*Selection options only when setting the pellet filling (= Pellet Befüllung) to automatic filling	

3.5.2 Annual pellet hopper/weekly hopper

Depending on the pellet extraction system installed in the annual pellet container, different graphics appear on the touch display of the pellet boiler (detailed information can be found in the relevant instructions for the pellet extraction system):

BRUNNER



Illustration 9: Display with pellet mole system installed (example with empty annual hopper)

1. annual container with built-in pellet mole system

2nd annual container Motorized hose diverter



Illustration 10: Brunner 8 motorized hose diverter

3rd annual container as square fabric silo with suction box and vibrating motor or rectangular fabric silo with screw conveyor and T-suction piece



Illustration 11: Brunner 4 motorized hose diverter



Illustration 12: Annual container fabric silo

4. annual container with externally controlled suction probes



The measured values displayed may deviate slightly from the actual value.

Graphic element	Explanations
***	The status of the suction turbine for filling the daily container (top left). Green = active; gray = inactive. Note: this button can also be used for manual start/ stop of the suction fan.
	The fill level of the daily container is displayed graphically. The current fill level is determined by calculating the difference to the amount of pellets consumed.
	The current fill level in the annual container is deter- mined by the difference between the last fill level specification and the pellet quantity consumed af- terwards.
	If the pellet quantity in the daily container is not cal- culated, this display appears in the daily container. The same display also appears for emergency fill- ing.



Pellet store (annual container) and daily container are almost full:

3.6 Own settings

To make certain settings, you have access to the most important levels. The buttons with a white background and the subsequent dialog window with a help text will help you.

Your specialist company can advise you on menu navigation.

PIN code for the operator : 9999

3.6.1 Display customization

The operating display of the pellet heating BPH 4/17can be customized with various display options.

This chapter describes all the setting options for the display presentation.

Touch the **Settings** button and enter your PIN code.

Follow the path: Settings (PIN code 9999) / Control panel / Settings and the following window will appear:



Illustration 13: Display-> Example: Setting options

Your settings window for setting the time period for the screen saver to appear appears:

Screensaver appears automatically after minutes

1. follow the path in the display:

Settings / Bedienteil / Einstellungen / BS-Schoner nach

2. By pressing on the white highlighted area at **BS-Schoner nach** a new window appears:

Do-ochonel nach a new window appears.

3. set the desired time - in minutes: a) by tapping + or - or

b) by sliding the slider to the right or left

4. press O.K. to confirm;

 \rightarrow The setting is accepted.

This setting activates the screen saver after the desired time.

The brightness dof the display

You can adjust the brightness of the touch display to adapt it to the local conditions.



Illustration 14: Display customization - screen saver

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To set the brightness, proceed as follows:

1. Follow the path: Settings / Control panel / Settings / Brightness

2. A new window appears by pressing on the white highlighted area under **Brightness**. 3:

3. set the desired brightness:
a) by tapping + or - or
b) by sliding the slider to the right or left
4. press O.K. to confirm.

 \rightarrow The setting is accepted.



Illustration 15: Display customization - Brightness

You can set **the length of the long signal tone** that sounds in the event of a fault (error message) or information message.

To set the duration of the long tone,

1. Follow the path in the control structure:

Settings / Control panel / Settings / Long tone

2. a new window appears when you press the white area next to **Long tone**:

3. set the desired time - in seconds:

a) by tapping + or -

or

b) by sliding the slider to the right or left;

4. press **O.K.** to confirm.

 \rightarrow The setting is accepted.

You can set **the duration of the short signal tone** that sounds in the event of a fault (error message) or information message.

To set the duration of the short tone,

1. Follow the path in the control structure:

Settings / Control panel / Settings / Short tone

2. a new window appears when you press the white area next to Short tone:

3. set the desired time - in seconds:a) by tapping + or -orb) by sliding the slider to the right or left

4. press **O.K.** to confirm.

 \rightarrow The setting is accepted.



Illustration 16: Display customization - Long tone

You can set **the time interval for the repetition of the signal tone** that sounds in the event of a fault (error message) or information message.

To set the duration of the long tone,

1. Follow the path in the control structure:

Settings / Control panel / Settings / t Sound repetition

2. a new window opens by pressing on the white area next to"t Tone repetition":

3. set the desired time - in seconds:

a) by tapping + or -

or b) by sliding the slider to the right or left

4. press **O.K.** to confirm.

 \rightarrow The setting is accepted.

Log out after function

You can set the waiting time after which the touch display should automatically exit the Settings function area if no input is made (Settings log-out).

To set the waiting time, proceed as follows:

1. Follow the path:

Settings / Settings / Control panel / Log out to

2. a dialog window appears with the bar display; by tapping + or - you can navigate through the area

3. tap **O.K.** to confirm the selection.

 \rightarrow The setting is accepted.

Automatic changeover between summer and winter time

For an automatic changeover between summer and winter time, you can set the time zone in which the installation location of the boiler is located.

To set the time zone:

1. Follow the path:

Settings (with PIN code) / Control panel / Settings / Time zone

2. a window for selecting the desired time zone appears

3. select the time zone;

- 4. select **O.K.** to confirm;
- \rightarrow The setting is accepted.



Illustration 17: Display Individualizing time zones



Screensaver

You can change the appearance of the screensaver. You have several options.

To change the screensaver, proceed as follows:

1. Follow the path:

Settings / Control panel / Settings / Screensaver

2. a dialog window appears with the options listed. Touch the desired screen saver.

3. press **O.K.** to confirm;

 \rightarrow The setting is accepted and the desired screen appears.



Examples of screensavers:



Language

You can also change the desired boiler control language after the boiler has been configured. The languages that are not available are displayed darkened.

To change the language setting, proceed as follows:

1. Follow the path:

Settings / Control panel / Settings / Language

2. A dialog window appears with the flags of the respective countries;

- 3. Press the flag of the desired language;
- \rightarrow The language setting is applied

4. if the language setting has been changed, the control panel is automatically restarted;

5. press **O.K.** to confirm the restart of the control panel;

 \rightarrow The control panel is restarted and the language is adopted after the restart.



Illustration 18: Display Customization Language

Design

You can change the appearance of the touch display to adapt it to the local conditions. You can select the background color of the display: white / black.

This process takes approx. 1 minute.

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To change the appearance, proceed as follows: 1. Follow the path:

Settings / Control panel / Settings / Design

2. A selection window appears in which you can select the desired setting(white or black) by touching it.

3. Tap **O.K.** to confirm

4. please wait until the control unit switches off automatically and then switches on again (approx. 1 minute)

 \rightarrow The setting is accepted.



Illustration 20: Display with black design

	Desigr		
After Design setting is char	nged, the control minutes	panel will restart. This ca	n take a few
White		🦲 Black	
Cancel		0.K.	

Illustration 19: Display design selection



Illustration 21: Display with white design

3.6.2 Locking the boiler - to fill the pellet store



NOTE

Switch off the boiler approx. 1 hour before filling the pellet store. This is done on the user interface with the *"Lock boiler"* function.



1. In the kettle's home view, tap "Menu"



3. the display changes to "Yes" and turns orange; click "Home"



5. "Funding allowed" must be set to "No" and then turns orange



2. On the first menu page, tap "Blocked" from "No" to "Yes"



4. In the home view, tap the daily pellet container



6. In the home view the status appears: "Boiler locked"
If the pellet heating system is not in standby mode, it can still be blocked. All necessary processes are carried out automatically by the control unit. For the operator of the pellet heating system, the process remains the same as described above.

This blocking function means that pellet delivery is possible under safe conditions. Once the boiler has been locked, it can no longer be started.

Only after release (unlocking), if a heat request is pending, is it possible to start the boiler again. To unlock, carry out the above steps in reverse order.

3.6.3 Exhaust gas test



NOTES on preparatory activities:

Clean the boiler approx. 3 days before the flue gas measurement by the chimney sweep.

The boiler BPH 4/17 has a chimney sweep button in the menu view. The color indicates whether the chimney sweep function is active or not:



= Function Flue gas test is inactive



= Function Flue gas test is active

The flue gas test can only be carried out in the following operating states: in *standby, ignition* and *combustion*.

For a manual start

1. click on the chimney sweep button;

2. under Flue Emission test (= Abgastest), select: Immediately (= sofort);

3. under Start, select: On (= Ein);

The pellet boiler is automatically prepared for the flue gas test. If the boiler was in *standby*, the test can be carried out in approx. 60 minutes.

You can cancel a started flue gas test at any time by clicking on Start: Off



Do you have an appointment with your chimney sweep to carry out the flue gas measurement? This appointment is also managed by the boiler control unit: the control unit not only prepares the boiler for the specific date and time, but also reminds you 3 or 1 day in advance that the flue gas test appointment is approaching.

is indicated by the green color of the chimney sweep.

3 or 1 day before your appointment for the flue gas measurement, you will receive a reminder for the flue gas test appointment:

1. click on the chimney sweep button (is currently white)

starts the preparations automatically.

2. for Emission test (=Abgastest) : later (= später) and under on (= am) enter the date or under at (= um) enter the time

3. for Auto. start (= Autom.Start): On (= Ein) so that the boiler

4. To activate the settings for the flue gas test, click on Start:

The activation of the function for preparing for the flue gas test

The appointment for the flue gas measurement has been postponed? -> set the new appointment in exactly the same way as 1 - 4.

Is the chimney sweep late?

To do this:

On (= Ein)

-> extend runtime max (= Laufzeit max)

If the runtime has expired, the boiler is in normal burn-up mode. The flue gas test can then be started **im-mediately (= sofort)** as long as the burn-up lasts.

Note

Ensuring heat dissipation

In conjunction with the BRUNNER central heating system (BHZ) or with the BRUN-NER extension board Basic, if available also EWP heating circuits, all connected heating circuits are set to heat dissipation to ensure heat dissipation (regardless of whether they are enabled or not).



0123

Abgastest



Pelletkessel Noch 3 Tage bis zur Abgasmessung

o K



3.6.4 Communication of the system

The control can send you the information and messages of the system at the current time by e-mail. Therefore: **Settings** / Pin entry (9999) / System (**Anlage**) and switch by arrow to site 2 (Anlage 2). The E-Mail Notification (**E-Mail Benachrichtigung**) button is located here.



Illustration 22: System/Anlage site 1

Home	Sensoren	Menū		0123 Status	1	Settings	1 Info
	in/Aus	E-	Mail Ber	hachrich	ntigung		
Kunde		Be	treff		max@m	ustermann.de	
HW		Be	treff		max@m	ustermann.de	
					Test E-M	ail verschicker	
		-	Heizung	BWP	10:55 Uhr (Donnerst	ag, 7. September 2	1023) 🌐 🕨





Illustration 23: System/Anlage site 2

If you are the operator (end customer) of the BRUNNER system click on the gray button next to"Kunde".

The highlighted field turns orange. When clicked the Subject button or Max@mustermann. de a keyboard field appears, using where you can enter your email address.



3.6.5 Selecting or creating new heating programs





By tapping the Heating circuit button Heizkreis 1 button or the button from the top menu bar

access the Heating programs ry:

		Day n	Day mode 1		node 2	Day mode 3	
Program name	Day	Day On	Off	On	Off	On	Off
Family	Mon-Thu	5:30	22:00				
	Fri	5:30	23:00				
	Sat	6:30	23:00				
	Sun	7:00	22:00				
Single	Mon-Thu	6:00	8:00				
	Fri	6:00	8:00				
	Sat	7:00	23:30				
	Sun	8:00	22:30				
Seniors	Mon-Sun	5:30	23:00				
New 1							
New 2							
New 3							
Off	The selected heati	ng circuit is de	eactivated! Fro	ost protection	is activated.		

Individual program requests:

You can enter the desired times and names for each heating circuit and for each hot water program.

Defining a heating program

You can enter your own programs for the existing heating circuits on the display.

1. call up the **heating circuit** menu:

either by clicking on the graphic element of the relevant heating circuit from the home view or by clicking on the "Heating" icon in the top menu bar and then on the button for the relevant heating circuit;

2. tap on the Heating programs field;

Click on the white field



and select your suitable program from the preset programs. Selection options:

Programm (H	K-034)
Schreibgeschützte Standardprogramme si Individuelle Einstellungen können den rechts werder	ind auf der linken Seite angeordnet. angeordneten Programmen hinterlegt
Familie	Neu 1
Single	Neu 2
Senioren	Neu 3
Cancel	о.к.



3. to create a new program under **New 1**, **New 2** or **New 3**, tap on the box with the desired day of the week.

You can activate the desired times for each day of the week.

These can also be changed individually by selecting the days of the week. Several days of the week cannot be selected at the same time.

By tapping on the time periods 0-6, 6-12, 12-18 and 18-24, the entire line is highlighted in orange (= heating active) or gray (= heating inactive). Individual boxes can be marked orange or gray by tapping on them.

The factory programs cannot be overwritten.

m e	501	ar	Heizu	j ng	Wasser	E	∮ ∭ Iektro/P\	() / Se	ttings			l	5
Montag	L.	Dienstag		Mittwool	h D	onnerst	ag	Freitag		Samstag		Sonntag	
	0		_1_		_2		_3		_4		_5		6
0 - 6 Uhr	1	_ <mark>_</mark>	7		8		9		10		11		12
6 - 12 Uhr											15		
12 - 18 Ubr	12		13	_	14	_	15	-	16		17		18
	18	_	19		_20	_	21	-	22		23	_	24
18 - 24 Uhr													
Neu	1						Abbr	echen			berne	hmen	
•								15:48 Uhr	(Donnei	rstag, 13. ja	nuar 202	(2)	

Illustration 24: Example: Monday between 6 and 7 a.m. the heating is on If you want to change the name of the entered program, tap the button with the previous program name.

A new window with a keyboard appears

Enter the new program name using the keyboard that appears.

To confirm and accept the new program, tap **O.K.**

 \rightarrow The new program for heating circuit 1 has been saved under a new name.

	X	F	Ш	Γ	7	,	41	0	0			i	
Home	Sol	ar	Heizu	ng	Wasser	EI	lektro/PV	Se	ttings			Info	6
Montag	C	Dienstag		Mittwocl	ı D	onnersta	ig l	Freitag		Samstag		Sonntag	
0 - 6 Uhr	0	_	1		2	_	3	-	4	_	5		6
6 - 12 llbr	6		7	_	_8	_	9		10		11	_	12
0-12 011	12		13	-	_14		15	-	16		17		18
12 - 18 Uhr	18	-	19	-	20	-	21	-	22	-	23	-	24
18 - 24 Uhr													
Neu	1		>				Abbre	chen		Ü	berne	ehmen	
-							1	5:55 Uhr	(Donners	stag, 13. Jai	nuar 20	22)	



3.6.6 Setting the program for hot water



You can select an existing program or enter a new program (similar to "Selecting or creating heating programs")



3.6.7 Absence time

If you are not at home for a longer period of time, i.e. you will not have any heating or hot water consumption, you can select the settings for this period so that energy is saved.

During this time, the selected heating circuits or hot water storage tanks will only operate in frost protection mode. In this way, you can not only save a lot of energy, but also protect your system from frost.



The absence program can be interrupted, cancelled or resumed.

The vacation program is shown on the display. The vacation days are displayed and counted down at the same time.

Once the set absence time has elapsed, the system automatically switches back to your program.

1. for this setting, tap:

Heating (= Heizung) button / (= Heizkreis 1)Heating circuit 1 (or the relevant heating circuit) / Absence (= Abwesenheit)

2. tap on the **Absence (= Abwesenheit)** field and enter the number of days you will not be at home.

 \rightarrow The absence has been accepted and is automatically switched on at the set time and switched off later.







If you have installed a hot water cylinder for hot water preparation, you have the option of setting the absence time.

To do this, tap on the hot water tank graphic (button) in the Home view or click on the **water symbol** in the top menu bar / **Absence (= Abwesenheit)** button. A sliding bar appears, which you can use to enter the days of absence.

Logically, the status display **Off (= Aus)** appears in the header of the hot water tank during the absence time. The remaining active absence time is displayed in the **Water** menu in the **Absence (= Abwesenheit)** button (countdown).





3.6.8 Lowering type

Selection of lowering mode - Reduced mode/Night lowering

For each heating circuit you can choose individual lowering types for reduced mode or night lowering mode:

Cooldown protection	Selection of 'T_outdoor' limit for outdoor temperature, where the mode will change be- tween "Disabled" and "Reduced". This is some kind of Winter/Summer mode switching during night! If this limit is exceeded, the heating circuit will be disabled. Below this limit, the flow temperature is reduced to Night mode level.
Standard	Flow temperature is reduced for Night mode operation. Heating circuit pumps are still running. Parameter: Lowering
Frost protec- tion	The heating circuit is generally disabled at night. Heating circuit pumps are deactivated (Pump 3 (A9) or 4 (A12) off).
Off	No temperature lowering in Night mode

When in Home view, tap on the heating circuit graphic or select the softkey **Heating** and then select the softkey of the relevant heating circuit.

Lowering type is used to determine the behavior of heating circuits during defined "inactive" periods. *Stan-dard* lowering type is used to decrease the normal supply temperature of heating circuits during defined "inactive" periods by 'T_lowering' parameter value.

If *Frost protection* is selected, the heating circuit pumps are switched off during "inactive" periods. Just when **Frost protection from** value is exceeded, the pumps are activated again. Heating circuit flow temperature is now controlled without individual heating characteristics. If the temperature exceeds **Frost protection from + dT frost prot.** value, the pumps are switched off

Die Absenkart Auskühlschutz verhält sich eigentlich wie der Frostschutz, mit dem Unterschied, dass hier als Temperaturschwelle 5°C gilt und die Heizkreisvorlauftemperaturen entsprechend der Heizkennlinien geregelt werden.

Parameter	Value (min, max, default)	Description
Lowering mode	Cooldown protection, Frost pro- tection, Standard	Determines the type of flow temperature reduction.
Heating system		Determines the choice of heating curve.
T_lowering	0°C, 100°C, 5°C	FL temperature is reduced by this value during "inac- tive" periods.
T_outdoor	-20°C, 50°C, 5°C	Threshold value to change between "reduced" mode and "disabled" mode.

3.6.9 Summer/Winter switching

The user can adapt the settings for switching between the Winter and Summer operation modes. For this, tap the **Heating** button from the upper menu bar or the graphic of a specific heating circuit. Then tap the **Summer from** button. Using the sliding bar, set the desired switching temperature.

If the outdoor temperature exceeds the 'Summer from' switching threshold, the relevant heating circuit pumps (A9 or A12) are deactivated. For every heating circuit you can select an individual value for Summer/ Winter switching. There is also an option: to select permanent Summer or permanent Winter operation mode for heating circuits (Parameter, range: *permanent Summer*, 10, ...40, *permanent Winter*).

If the outdoor temperature is lower than selected by more than 1°C, Winter mode will be switched on again.

3.6.10 Permanent

If you want to switch the heating circuit to permanent operation for a desired time:

1. In Home view, tap on the graphic of a **Heating circuit (= Heizkreis)**;

2. A window with settings for **Permanent (= Dauerbetrieb)** operation will appear. Using the sliding bar, you can set the hours.

In this time the heating will be active.

After these hours will pass, the heating returns to the existing heating program.



3.6.11 Heating circuit frost protection

This function is set by the specialist company.

To set the frost protection function, follow the path: Settings (+ PIN entry) / relevant button for heating circuit and / or domestic water / parameter settings for frost protection (... frost ...)

The heating circuit frost protection has priority over all selected settings. As soon as the predefined outdoor temperature threshold in parameter *Frost protection from* (basic setting: 1°C) is reached, the inactive circulation pumps of heating circuits (e.g. HC pump off, because minimal or maximal flow temperatures are exceeded; heating circuit configuration is "OFF") will be automatically activated with a flow temperature value of Tmin Buffer. If the circulation pumps are already active, this function has no effect.

3.6.12 Disinfection

NOTE: Disinfection relates to the connected hot water cylinder.



Illustration 25: Setting in the configuration



To be able to carry out the actions for thermal disinfection automatically, make the following presettings: **T Disinfection (= T Desinfektion)** (temperature of disinfection); Execution time: **Day Disinfection (= Tag Desinfektion)**; **Time Disinfection (= Uhrzeit Desinf.)**; **Duration Disinfection (= Dauer Desinf.)**.

3.7 Remote access via myBRUNNER

3.7.1 Preconditions and instructions



Preconditions for on-line access to your BRUNNER heating

- 1. You have a BRUNNER heating system with Touch Display;
- 2. The Touch Display software update status must be Release 4.0 (from December 2013) or higher;
- 3. A connection between Touch Display and Internet access point (a router) in the building is required. A flat rate
- (broadband) Internet connection is recommended for reasonable operation.
- 4. PC/Tablet/Smartphone with access to your personal e-mail account.
- 5. PC/Tablet/Smartphone with Internet access via web browser to www.mybrunner.de



Instructions for registration

Each control panel (Touch Display) can be registered once. You can assign only one e-mail address for a control panel. If the user wants to use a different e-mail address, he/she must delete the registration entry and perform the complete registration process once again (for this, use the **Delete registration** button). The same process, as in the case of changing user.

If a user has many Touch Displays for a heating system, every Touch Display can be connected with myBRUNNER. Every control panel can have a different e-mail address assigned.

With mobile devices such as tablets or smartphones, the embedded browser cannot be used with older Android variants; therefore you should load a current browser like Firefox, Opera, Chrome.

If it is not possible to log in, please check:

1. if the control panel is in Setup mode (Login active)? Before you log in, perform Settings logout function. (Softkeys: **Settings / Control panel / Settings logout**).

if the system clock of the control panel is set? The setting must be exact as possible. The same applies to days of week, time zones and year (see: User Guide / sect. "Individual settings" / sect. "Display customization")
 if the system or control panel is now running an update sequence? Please wait until finished and try again.

Instructions for enabling Service access

The access to service functions can be enabled exclusively for heating contractors or BRUNNER service technicians. Mutual access for both categories of servicemen is not possible.

3.7.2 Registration

1. Start the first registration







1.3 Enter your contact details (Name, Address); the fields with * are mandatory fields;

1.4 When finished, click **next**;



1.5 Enter a valid e-mail address;



The e-mail address is at the same time your login name!!!

1.6 Optionally - for increased security - you can enter your mobile phone number.

1.7. Click **next** to complete your entries on this page.

	-	BRUNNER		Log-in Besuchen Sie uns auch auf www.brunner.de
		START REGISTRIEREN LOG	HN INFORMIEREN KONTAKT	FAQ
	1.8 Enter a password;	Registrieren Registrieren Sie sich hier für den Online-	-Zugriff auf Ihre Brunner-Anlage.	
		Adresse Kontakt Anmeldung		// Erweiterte Sicherheit
	\frown	Bitte wählen Sie ein Kennwort mit min, 8 Z	Zeichen Länge.	Wenn Sie die erweiterte Sicherheit benutzen und dafür hier Ihre Mobil-
		Kennwort		tereformummer angeben, dann werden alle sicherheitsrelavanten Aktionen wie Kennwortwieder- beschaftung Enderungen Ihrer
		Kennwortbestätigung		Anlagenparameter etc. über eine SMS PIN an Ihr Mobiltelefon
210		Bitte vergeben Sie eine Frage / Antwortkon	mbination an die sie sich erinnern können:	abgesichert. Wir empfehlen Ihnen dringend, diesen Mechanismus zu
		Sicherheitsfrage Bitte ausw	vahlen	benutzen (ihre Mobilelefonnummer wird ausschließlich dafür verwendet).
	The password must be at least 8 char-	Antwort auf Sicherheitsfrage		// Probleme?
	acters long!!	Zurück	Jetz	registrieren Bitte füllen Sie alle mit einem * markierten Felder aus.
	Please remember this password, as it			<u> </u>
	is used to access your system.	BRUNNER	// Adresse / Telefon	// Informieren Sie sich!
	All fields are mandatory!	Ulrich Brunner GmbH Ofen- und Heiztechnik	Zellhuber Ring 17-18 84307 Eggenfelden	Nutzen Sie unsere Infos über soziale Netzwerke um auf dem Laufenden zu bleiben.
			Telefon: (08721) 771-0 Hotline: (08721) 771-550 Fax: (08721) 771-100	f

1.9 Select a security question. You can choose between: Your favorite football team? Your favorite travel destination? Your Mother's maiden name? Your favorite movie? Your favorite book? Your favorite pet? Name of your first girlfriend (or boyfriend)? Name of your first pet? Your meaningful year number? Your favorite restaurant?

Please enter a valid answer, which will be used later for confirmation.

1.10 Click the button **Register now** when finished.



1.11 The details of your registration will be shown:

REINNER				Log-in
DRUMMEN			Besucher	1 Sie uns auch auf www.brunner.de
START REGISTRIEREN	LOG-IN INFORMIEREN	KONTAKT	FAQ	
Registrierungsbestä	itigung			
/ielen Dank für Ihre Benutzerreg	istrierung für den Online-Zugriff	auf Ihre Brunner-Ar	nlage.	
Vielen Dank!				// Login
Vielen Dank für Ihre Registrierun	ig. Bitte bestätigen Sie uns noch die K	Correktheit Ihrer E-Mail	Adresse indem	Bitte öffen Sie unsere
Sie auf den entsprechenden Lin	< in Ihrer Registrierungsbestatigungs-	 E-Mail klicken. 		Registrierungsbestätigungs-E-Mail, die wir an Sie versandt haben und
Danach können Sie sich umgeh	end an der Website anmelden.			klicken Sie auf den angegeben Link,
				um die Korrektneit Ihrer E-mail Adresse zu bestätigen. Danach
Anmelden				können Sie sich anmelden und mit
				Ofenanlage fortfahren.
BRUNNER	// Adresse / Te	elefon	// Inf	ormieren Sie sich!
	Zellhuber Ring 17-1		Nutzer	Sie unsere Infos über soziale Netzwerke
Ofen- und Heiztechnik	84307 Eggemeiden		umau	dem Laufenden zu bielden.
	Telefon: (08721) 77	1-0		
	Telefon: (08721) 77 Hotline: (08721) 77 Fax: (08721) 77	1-0 1-550 7-100		f
	Telefon: (08721) 77 Hotline: (08721) 77 Fax: (08721) 77 E-Mail: info@brunn	1-0 1-550 1-100 ler.de		f

2. E-mail box - Confirmation of registration



2.1 Open the e-mail from "**websystem**" and subject line: "**Brunner Zentrale Benutzerverwaltung: Registrierungsbestätigung**" (Brunner Central User Administration: Confirmation of registration)

2.2 Click on the link;



3. Login





w.brunner.de

Besuchen Sie uns auch auf v

	START REGISTRIEREN LO	G-IN INFORMIEREN KONTAKT	FAQ
	Log-In Melden Sie sich hier als registrierter Nut	tzer für den Online-Zugriff auf Ihre Brunner Anlag	je an.
	Ihre Anmeldedaten		// Anmeldeprobleme?
	Bitte geben Sie hier Ihre Anmeldedaten e	in, um sich bei mybrunner anzumelden.	Bitte klicken Sie auf "Noch keine Registrierung", um sich neu bei
			myBrunner zu registrieren.
3.2. At Login name enter your email	Anmeidename"		Wenn Sie Ihr Kennwort vergessen haben, können Sie mit der Antwort
address	Kennwort*		Erinnerungsfrage ein neues Kennwort erhalten. Bitte klicken Sie
	Angemeldet bleiben?1		dazu auf "Kennwort vergessen".
3.3 Enter your password (entered beforehand and repeat - see 1.8)	Anmelde	n Kennwort vergessen Jetzt registrieren	
belorenand and repeat - see 1.0)	Bitte füllen St ¹ Wenn Häkdt	ie alle mit einem " martierten Felder aus. ren gesetzt, dann direiter Zugang zur Online-Darstellung	
	DDUNNED	// Adresse / Telefon	// Informieren Sie sich!
	Ulrich Brunner GmbH	Zellhuber Ring 17-18	Nutzen Sie unsere Infos über soziale Netzwerke
	Ofen- und Heiztechnik	84307 Eggenieden Telefon: (08721) 771-0	um auf dem Laufenden zu bleiben.
	Misprechpariner, Albert Bonn	Hotline: (08721) 771-550 Fax: (08721) 771-100	f
		E-Mail: info@brunner.de	
_			
-			ada han a a handa
	BRUNNER		Hallo, XXXXXI.U@XXXXXXXXXI Abmelden Besuchen Sie uns auch auf www.brunner.de
	ÜBERSICHT BEDIENTEIL HINZUFÜG	EN MEIN PROFIL FAQ	
3.4 The control unit (touch display)	Übersicht Sie können Ihre BRUNNER Heizungsanlag	ge jetzt konfigurieren.	
of the Brunner system must be reg-			
istered. To do this, click the New	•	Sie haben noch keine BRUNN registriert. Bitte lesen Sie zuers Renistrierungscode von Ibrem	ER Anlage st den notwendigen Rediesteil ab und
Control Neues Bedienteil.		registrieren Sie dieses hier.	
	Neues Eedient	teil	
-			
	© 2015 - MYBRUNNER - ANWENDUNG - DESKTOP		IMPRESSUM

BRUNNER

NOTE:

If you had previously registered a different control unit, click the Add another control unit button **Weiteres Bedienteil hinzufügen**.

Weiteres Bedienteil hinzufügen

4. Activate the network

4.A. Connected via network cable (Touchdisplay 2.0 and/or Touchdisplay 3.0)

To see if the Internet connection is available on the Touch Display, look at the icon (globe) in the lower right corner of the Touch Display. If the Internet connection is available (network active), the globe color is gray.



Illustration 27: Internet connection available (gray globe)

4.1 Click in the upper menu bar on **Settings**



4.2 Enter the PIN Code 9999

4.3 Click on the control display button **Bedienteil**

4.4 Click on the **myBrunner** button



4.5 Navigate down with the arrow key:



4.B. Connected via WLAN (Touchdisplay 3.0)

To see whether you have an internet connection on the touch display, look at the graphic (globe) at the bottom right of the touch display. If there is an internet connection (network active) the globe is gray.



Illustration 28: Internet connection (gray earth globe)

4.1 Click in the upper menu bar on **Settings**



4.2 Enter the PIN-Code 9999

4.3 Click on the display button **Bedi**enteil

4.4 Click on the display button **my-Brunner**



4.5 Navigate down with the arrow key:

Н	nome	Kach	Nelofen E		Wasser	Setting	ps			l
				Einstellur	ngen			Settings	logout	
	teil		ļ	Anwendu	ngen			Neus	tart	
	lien			Updat	e			Lizenzen/	Kontakt	
	Bed			myBRUN	NER			Daten lö	schen	
								Service-E	Backup	
•			Heizung	BWP	_		16:06 Uhr (Di	enstag, 8. Se	ptember 2020	
		Home	Kachelofe				ettings			i Info
				824 - S1075		myBrunn	er			
		5	Fi	ür den Fer	n-Zugriff auf www.myi	das Displa brunner.de	y muss vorab angelegt we	ein Nutzer rden!	konto auf	
		neı			my	yBrunner e	einrichten			
		III mvBrum	Für	den Zugr	iff im Heimne nyBrunnerLo	etz muss ei	ne Netzwerk • o <mark>nline</mark>	Verbindung) bestehen.	
				FOR	Haimuna	0.00	11 00 11			

RRUNNE





if the name you are looking for is not available for the WLAN name, click on search Suche



00

XH.H.XKX.KX

MyBRUNNER

IP-Adresse

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Suche

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WLAN aktiv signal: -76 dBm (instabil)

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Info

Netzwerk - Details

myBRUNNER löschen

Netzwerk rücksetzen

0 +

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9 0

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4.7 Enter WLAN-Password and click O.K.

> . • $\widehat{}$ MyBRUNNER xx.x.xxx.xx IP-Adresse **mVBRUNNER** WLAN aktiv, Signal: -77 dBm (instabil) Wireless Netzwerk - Details Ŧ myBRUNNER löschen Suche

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V

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7 8

4.8 Navigate up with the arrow key





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            14
                                                                                         ĭ
                      Kache
                                                                                         Info
Hom
                                       MyBRUNNER
                 Für den Fern-Zugriff auf das Display muss vorab ein Nutzerkonto auf 
www.mybrunner.de angelegt werden!
  myBRUNNER
                                     myBRUNNER einrichten
                Für den Zugriff im Heimnetz muss eine Netzwerk-Verbindung bestehen.
                         myBRUNNERLocal
                                                  ► a
                          Heizung BWP
                                                11:06 Uhr (Dienstag, 8. September 2020) 🌐 🕨
                   EOS
```

5. Set up mybrunner on Touch Display



5.1 Click:



Ablehnen



5.2 Terms and conditions appear.

5.3 Read the terms and conditions. Please keep the arrow pressed to scroll. When the arrow is pressed, it turns orange.

5.4 Accept the terms and conditions at the end of the text by accepting **Akzep-**tieren. (To do this, scroll the entire text to the end. Only then is the Accept button active).

© 2025 Brunner GmbH

Akzeptieren

6. Establish registration code



6. The following screen will appear automatically to establish the registration code of the Touch Display (control panel). This number is displayed for 2 hours.

You should use this registration code for your control unit to continue the registration on the PC.

Bitte di	e Anlage auf der jeweiligen Web-Seite mit dem angezeigten Code registrieren.
	Ofentechnik (EOS, BHZ,): www.mybrunner.de Heiztechnik (Naturkraftkessel, HZB,): www.mybrunner.com
	Registrierungscode: 24009
	Restliche Zeit für Registrierung: 9594 Sekunden
	Abbrechen

7. Registration of your Brunner system



7.1 The control unit (touch display) of the Brunner system must be registered. To do this, click the New Control Unit button **Neues Bedienteil**.



Weiteres Bedienteil hinzufügen

NOTE:

If you had previously registered a different control unit, click the Add another control unit button here. **Weiteres Bedienteil hinzufügen**.



7.2 Im Feld *Registrierungscode* die Registrierungsnummer vom Touchdisplay eingeben

7.3 In the system name field **Anlagenname**, enter your preferred designation for the system.

7.4 Finally click on registration**Reg**-istrieren.

BRUN	NER			Hallo, helga.u@gmail.com/ Abmelden Besuchen Sie uns auch auf www.brunner.de
ÜBERSICHT	BEDIENTEIL HINZUFÜGEN	MEIN PROFIL	FAQ	
Bedienteil Sie können sich h Anlage anfordern	registrieren nier eine neue Brunner Anlage können.	e registrieren. Sie be	nötigen dazu ei	nen Registrierungscode, den Sie am Bedienteil Ihrer
Notwendige Anga	ben für die Registrierung			
Eine ausführliche Ar Registrierungso Anlagenn	nleitung zur Registrierung finden S code* 0 ame	Sie hier.	-	
	Registrieren Bitte fu	en [°] markierten Felder aus.		
	_			

8. Complete registration on Touch Display



8.1 Confirm the message about successful registration with **O.K.**





8.2 Exit settings (with OK)



9. On-line access to the control panel from your PC, tablet or smartphone



On your mobile device (notebook, tablet, smartphone etc.) you will see the system overview:

Now you can control all the functions of your system from your mobile device via mybrunner.de. The Parameter sections under Settings are excluded.





During remote access you will see the following identical screen on the Touch Display:



 \rightarrow The registration process is complete.

3.7.3 Logging in

On your PC, tablet or smartphone:



1.1 Open **www.mybrunner.de** in your browser

1.2 Enter your valid login name (= your e-mail address entered during registration)

1.3 Enter your password/**Kennwort** (as entered during registration)

BRUNNE	R			Describe	Log-In
START REGISTRIERE	N LOG-IN	INFORMIEREN	KONTAKT	FAQ	n sie uns auch auf www.brunner.de
Log-In Melden Sie sich hier als reg	jistrierter Nutzer für	den Online-Zugriff auf	Ihre Brunner An	age an.	
Ihre Anmeldedat Bitte geben Sie hier Ihre Ar Anmeldename*	en mmeldedaten ein, um s	sich bei mybrunner anzum	elden.		// Anmeldeprobleme? Bitte klicken Sie auf "Noch keine Registrierung", um sich neu bei myßrunner zu registrieren.
Kennwort* Angemeldet bleiben?1		4			venn de in kennwohreigesen haben, könne Sie mit der Anbord auf die von Ihnen vorgegebene Erinnerungsfrage ein neues Kennwort erhalten. Bitte klicken Sie dazu auf "Kennwort vergessen".
	Anmelden	Kennwort vergessen	Jetzt registriere	n	
	Bitte fühen Sie alle mi ¹ Wenn Häkchen geset	it einem * markierten Felder a zt, dann direkter Zugang zur C	us. inline-Darstellung		
BRUNNER		// Adresse / Telefe	on	<i>II</i> In	formieren Sie sich!



If you have forgotten your password, you can use the **Kennwort vergessen** (forgotten password) button. Here you will be asked to enter your e-mail address and the answer to your selected security question (as displayed above the answer field); Click on **Kennwort anfordern (**request new password) and you will receive an e-mail with a new password, which must be entered on the Login page at mybrunner.de, in the "Kennwort" field.



If you want to change your password again, or change your contact data, or apply extended security settings, please go to **Mein Profil (**My Profile).

BRU			
ÜBERSICHT	BEDIENTEIL HINZUFÜGEN	MEIN PROFIL	FAQ
Ihr Profil Sie können dies	es Formular verwenden, um per	rsönlichen Angaben	zu änderr



The current overview of your system will appear on the screen of your PC, notebook, tablet or smartphone.



On the Touch Display of your BRUNNER system



To see the myBRUNNER status click: **Settings** + PIN-Code (9999) / **Bedienteil**(=control panel)/ **my-BRUNNER**





When the control panel is in remote control mode, the following will be shown on the Touch Display of your system: orange bar with text **Fernzugriff** (*Remote access*).







NOTE

The heating system can be controlled only from one device! You can use alternatively: the Touch Display on the system or the overview on your mobile device.

NOTE:

Setting or modification of parameters under **Settings** is not possible via remote access. Exception from this rule is the enabled access for the heating contractor or BRUNNER technicians.

3.7.4 Enabling for Service access

To enable Service access for BRUNNER technicians or a heating contractor, the owner of the system must approve it first. This is done using a fixed Service PIN Code, which is defined in the User account.

.



1. Log in at www.mybrunner.de
(see Logging in section above)

brunnei	ĸ			Besucher	Sie uns auch auf www.brunner.
START REGISTRIERE	LOG-IN	INFORMIEREN	KONTAKT	FAQ	
Log-In Melden Sie sich hier als regi	strierter Nutzer fü	r den Online-Zugriff auf	Thre Brunner An	age an.	
Ihre Anmeldedate	en				// Anmeldeprobleme?
Bitte geben Sie hier Ihre An	meldedaten ein, um	sich bei mybrunner anzum	elden.		Registrierung", um sich neu bei myBrunner zu registrieren.
Anmeldename*		<			Wenn Sie Ihr Kennwort vergessen haben, können Sie mit der Antwort auf die von Ihnen vorgegebene
Kennwort*		<			Erinnerungsfrage ein neues Kennwort erhalten. Bitte klicken Sie dazu auf "Kennwort vergessen"
Augemeider Dieben /					
	Anmelden	Kennwort vergessen	Jetzt registriere	n	
	Bitte fühen Sie alle i ¹ Wenn Häkchen ges	nit einem * markierten Felder au etzt, dann direkter Zugang zur C	us. Inline-Darstellung		

BRUNNER	// Adresse / Telefon	// Informieren Sie sich!
Ulrich Brunner GmbH	Zellhuber Ring 17-18	Nutzen Sie unsere Infos über soziale Netzwerke





2. Click onto Grant access to control panel









3. You can enter the BRUNNER service code or the code of your tradesman. The BRUNNER service code = 293068.

Enter this 6-digit numeric PIN code in the first field (PIN) and in the second field (purpose of release) please write your family name and location of the system.

BRUN	NER			Hallo, max.muster @yahoo.del Abmelden Besuchen Sie uns auch auf www.brunner.de
ÜBERSICHT	BEDIENTEIL HINZUFÜGEN	MEIN PROFIL	FAQ	
Zugriff auf Sie können sich h	Anlage freigeben ler den externen Zugriff auf Ihr	e Anlage für einen	Service-Techn	iker freigeben.
Notwendige Angal	oen für die Freigabe			
Der Zugriff auf Ihre A Diese PIN erhalter vom Service-Tech (6stellig numer 100000999	nlage ist für den angegebenen Sen 1 Sie nilker 999).	ice-Techniker vom 17.	12.2015 bis zum	16.12.2020 möglich.
Sie können hier Zweck der Frei eintra	r den gabe igen.			
	Zugriff freigeben			

The system operator can revoke the tradesman or BRUNNER service's access to the system at any time.

UNNE



When access is granted, the following message is displayed:

DNUI	NNER			Hallo, max.mus Besuchen Sie uns	ter @yahoo.de! Ab auch auf www.bru	unner.de
ÚBERSICHT	BEDIENTEIL HINZUFÜ	GEN MEIN PROFIL	FAQ			
Zugriff au	ıf Anlage erfolg	reich freigegeben	I.			
Sie haben dem S 21.12.2015 bis 20	ervice-Techniker ' max.must 0.12.2016	ter @yahoo.del [*] (PIN: 478520) er	folgreich einen Zugriff a	uf Ihre Anlage in folgender	n Zeitraum eingeräum	t
Sie können den Z	lugriff jederzeit über die Liste	Ihrer Bedienteile (Funktion "Beer	nden") beenden.			
Wester						
						MPRESSUM
~~	¥ F			т		•
	*	6		Ţ	•0	i
Home	Solar Pe	llets Gas	Heizung	Wasser	Settings	l Info
Home	Solar Pe	llets Gas	Heizung	Wasser	Settings	Î Info
Home	Solar Pe	liets Gas	Heizung	Wasser Familie	Settings	Info Info
Home 13	Solar Pe	Rilets Gas	Heizung 2 °C	Wasser Familie 39 °C Heizkreis 1	Settings	I Info
Home 13 Sc	Solar Pe	Gas Get	Heizung 2 °C	Wasser Familie 39 °C Heizkreis 1	Settings Famil 41 ° Heizkre	Info Info C



When a contractor has access to your system via myBRUNNER link, you'll see the following on the Touch Display:



3.7.5 Connect keypads to the Internet

Operating principle myBRUNNER:

For remote access to the personal heating system via the internet (myBRUNNER), the BRUNNER touch display must be connected to the internet access of the building. There are different options and a wide range of peripheral devices for this purpose.



The easiest and most safe solution. A connection between the touch display and internet access in the building (router) via a network cable (terms: patch cable, Ethernet, LAN).

3.7.5.1 Activate WLAN

- 1. Click in the upper menu bar on **Settings**
- 2. Enter the PIN-Code 9999
- 3. Click on the display button **Bedienteil**
- 4. Click on the display button **myBRUNNER**

5. A dialog window/box appears:







6. Set up WLAN :

6.1. Choose WLAN-Name *

Attention:

- Ein/Aus On/Off must be orange
- Check display indication "WLAN aktiv"
- Earth globe: gray

*if the name you are looking for is not available for the WLAN name, click on search **Suche**

6.2. Enter WLAN-pasword



3.7.6 Brunner App

The myBRUNNER App makes it easier to access the heating system with smartphones or tablets.

Operation is very easy and self-explanatory. The orientation on the home screen is vertical. The presentation does not go along - but that is set intentionally.

The user can choose from three buttons

-"Login" for login and logout,

- a brief introduction to the functionality of the application software and a contact,

- support- interface for all questions and suggestions about the app.

The fourth button is initially gray when you start the software. Only after entering the user name and the password, it is activated and allows access to the heating control. The customer selects the registered operating unit and makes the desired settings. To leave the view, just click on the "back" button on the mobile device or on the "operating control unit " on the top left.



Account settings or registration of control panels can not be done with the app. Account settings or registration of control panels can not be done with the app. Both activities are only possible via a browser via mybrunner.de.

3.7.7 Network adverts



Display with a myBRUNNER connection



Display for an existing network connection, whether WLAN or LAN.



Display with a myBRUNNER-local connection

No globe

3.7.8 Synchronisation with network

No network

Wenn myBRUNNER eingerichtet ist, wird die Uhrzeit mit dem Netzwerk automatisch abgeglichen.

If you do not want to have the time synchronization with the network, deactivation is possible. For this:

1. Click on the time in the lower bar

2. A dialog box appears where you click **Network time- synchronization**;

- 3. the network time synchronization is deactivated;
- 4. You can now enter the desired time;
- 5. then click on Time / Date;

 \rightarrow the time and date are displayed in the lower bar according to your setting or on the clock (digital or analog clock) selected as the screen saver.

The disabled time alignment is displayed with a gray box.



The adjustment of the time or date with the BRUNNER network can be activated at any time.

3.8 Data protection declaration of Ulrich Brunner GmbH

Notes on protecting your personal data

Ulrich Brunner GmbH always endeavors to save and process only the personal data that are necessary and indispensable or that are required to be stored and processed by law.

We strictly adhere to the requirements of the General Data Protection Regulation (GDPR) and the Federal Data Protection Act (BDSG and BDSG new).

We do not pass on personal data to third parties; unless we are required to do so by law or by court order.

Persons under the age of 18 should only transfer personal data to us with the consent of their legal guardians. If there is reason for a complaint, it can be addressed to the responsible state authority.

The required contact details can be found on the website: https://www.lda.bayern.de. If other sources of information or services (websites, apps, etc.) from Ulrich Brunner GmbH are used, the data protection declarations listed also apply.

Purpose of data processing

We only collect, store and process personal data for the express or implicitly agreed purpose. These are e.g. Address data for processing an information request, or for making offers, invoicing etc. or bank data for processing payment transactions. Without an independent declaration of consent, this data is not e.g. used to send as newsletter or similar purpose.

Saving and deleting

We only store personal data for as long as is necessary to fulfill the agreed purpose or as required by law. If the agreed purpose is fulfilled or there is no longer a legal basis for storage, this data will be deleted as far as possible. If deletion is not technically possible, the data will be marked in such a way that further processing is impossible.

Deletion requests, requests for information, requests for changes or revocation of a declaration of consent can be directed at any time to the data protection officer of Ulrich Brunner GmbH.

Responsible for data processing

Ulrich Brunner GmbH Zellhuber Ring 17-18 D-84307Eggenfelden E-Mail: info@brunner.de Tel.: 08721/771-0 You can contact the data protection officer under: datenschutzbeauftragter@brunner.de.

4 Information and error messages

4.1 List of error codes and rectification

Error code	Short text on the display	Description, causes	Note to the operator
PF002	External heat opera- tion (= Fremdwärmebe- trieb)	ST50 Block heat request. The heat request is blocked. The ST50 input is closed.	Unblock the external heat request.
PF011	lgnition error (= Zündfehler)	Ignition failed The ignition has failed; the time period for successful ignition has been exceeded.	Check whether sufficient pellets are available. Contact a specialist compa-ny.
PF014	O2 too high (= O2 zu hoch)	Lambda alarm The lambda value or oxygen content in the flue gases is too high. Combustion is not op- timally controlled.	Calibrate the lambda sensor manually (path: Settings / System / Relay test / Cal. lambda / Manual calib.)
PF016	Exhaust gas temp. too high (= Abgastemp. zu hoch)	Exhaust gas temperature is too high: The temperature of the exhaust gas is too high;	Please clean the boiler. Contact a spe- cialist company if necessary.
PF017	Flue gas temp. too high (= Abgastemp. zu hoch)	Flue gas temperature too high (output throt- tling) The flue gas temperature is too high. The boiler output must be throttled.	Please clean the boiler. Contact a spe- cialist company if necessary.
PF021	Heat dissipation! (= Wärmeabfuhr!)	Heat dissipation because the boiler temper- ature is too high.	If this message occurs frequently, con- tact a specialist company.
PF101	STB has tripped! (= STB hat ange- sprochen !)	The safety temperature limiter (STB) has been triggered because the boiler tempera- ture is too high.	Wait until the boiler temperature has fallen below 90°C; reset the STB button (STB button position, see "Overview of components"); If the message repeats, contact a spe- cialist company.
PF102	EMERGENCY OFF (= NOT AUS)	ST3 Emergency stop Emergency stop was actuated externally.	Check why the emergency stop button was pressed and rectify the cause. Ac- knowledge the emergency stop.
PF121	Lambda sensor fault! (= Störung Lambda- sonde!)	Lambda fault There is a fault in the functioning of the lambda sensor. Emergency program inter- venes.	Contact a specialist garage.
PF122	Calibration not pos- sible (= Kalibrierung nicht möglich)	Lambda calibration not possible Calibration of the lambda sensor is not pos- sible because the exhaust gas temperature is too high.	Wait until the exhaust gas temperature has dropped and repeat the process. Contact a specialist company if neces- sary.
PF123	Lambda cal. error (= Lambda Kal. Fehler)	Lambda calibration was interrupted Automatic calibration was interrupted. Cali- bration of the lambda sensor is not possible because the oxygen content is fluctuating too much.	If necessary, clean the lambda sensor and repeat the calibration. (see service manual). If the error message appears again, contact a specialist garage.

Error code	Short text on the display	Description, causes	Note to the operator
PF124	Lambda cal. error (= Lambda Kal. Fehler)	Lambda calibration was interrupted The manual calibration of the lambda sen- sor was interrupted. There are excessive oxygen fluctuations in the exhaust gases.	If necessary, clean the lambda sensor and repeat the calibration (see service manual). If the error message appears again, contact a specialist garage.
PF125	Lambda cal. value incorrect (= Lambda Kal. Wert falsch)	Calibration value outside tolerance The calibration value of the lambda sensor is outside the tolerance.	If necessary, clean the lambda sen- sor and repeat calibration (see service manual). If the error message appears again, contact a specialist garage
PF126	Lambda stop (= Lambdastopp)	Lambda stop has occurred several times during normal operation A lambda stop has occurred several times (at least 3 times) during normal operation.	Contact the specialist company.
PF131	Boiler sensor defec- tive! (= Kessel Fühler de- fekt!)	ST 34 Boiler sensor short circuit The sensor on the boiler (ST34) or its ca- bles have a short circuit.	Contact a specialist company.
PF132	Boiler sensor defec- tive! (= Kessel Fühler de- fekt!)	ST34 boiler sensor break The boiler temperature is no longer mea- sured. The ST34 sensor on the boiler or lines are interrupted.	Contact a specialist company.
PF141	Flue gas sensor de- fective! (= Rauchgas Fühler defekt!)	ST31 Flue gas sensor polarity reversal The flue gas temperature can no longer be measured. The connection cable of the flue gas sensor ST31 has reversed polarity.	Contact a specialist company.
PF142	Flue gas sensor de- fective! (= Rauchgas Fühler defekt!)	ST31 flue gas sensor broken The temperature of the flue gases is not measured. The ST31 flue gas sensor or its cables have broken. The sensor is defec- tive.	Contact a specialist company.
PF171	Buffer sensor bottom defective! (= Puffer Fühl. unten defekt!)	Buffer sensor short circuit The bottom buffer sensor ST35 or lines have a short circuit.	Contact a specialist company.
PF172	Buffer sensor bottom defective! (= Puffer Fühl. unten defekt!)	Buffer sensor break The bottom buffer sensor ST35 or lines are interrupted.	Contact a specialist company.
PF173	Buffer sensor top defective! (= Puffer Fühl. oben defekt!)	Buffer sensor short circuit The top buffer sensor ST 36 or its cables have a short circuit.	Contact a specialist company.
PF 174	Buffer sensor top defective! (= Puffer Fühl. oben defekt!)	Buffer sensor break The upper buffer sensor ST36 or lines are interrupted.	Contact a specialist company.
PF 175	Boiler sensor defec- tive! (= Boiler Fühler de- fekt!)	Boiler sensor short circuit The boiler sensor ST37 or pipes have a short circuit.	Contact a specialist company.



Error code	Short text on the display	Description, causes	Note to the operator
PF 176	Boiler sensor defec- tive! (= Boiler Fühler de- fekt!)	Boiler sensor break The boiler sensor ST37 or lines are inter- rupted.	Contact a specialist company.
PF177	Buffer sens. center defective! (= Puffer Fühl. Mitte defekt!)	Buffer sensor short circuit The buffer center sensor ST33 or the cables have a short circuit.	Contact a specialist company.
PF178	Buffer sensor. center defective! (= Puffer Fühl. Mitte defekt!)	Buffer sensor break The buffer center sensor ST33 or its lines are interrupted.	Contact a specialist company.
PF181	HK1 sensor defec- tive! (= HK1 Fühler de- fekt!)	Heating circuit sensor short circuit Heating circuit sensor ST30 or the cables have a short circuit.	Contact a specialist company.
PF182	HK1 sensor defec- tive! (= HK1 Fühler de- fekt!)	Heating circuit sensor break The HK1 ST30 sensor or its cables are in- terrupted.	Contact a specialist company.
PF185	Combustion cham- ber sensor defec- tive! (= Brennraum Fühler defekt!)	ST38 combustion chamber sensor Polarity reversal In the combustion chamber: The connection cables of the ST38 sensor are reversed.	Contact a specialist company.
PF186	Combustion cham- ber sensor defec- tive! (= Brennraum Fühler defekt!)	ST38 combustion chamber sensor break The sensor or the cables on SR38 are inter- rupted.	Contact a specialist company.
PF191	Board temperature! (= Platinentemper- atur!)	Board temperature too high The temperature on the control board is too high.	Contact the specialist company.
PF192	T-sensor circuit board defective! (= T-Sensor Platine defekt!)	Board temperature measurement defec- tive. The sensor for measuring the board temper- ature is defective. The temperature is out- side the measuring range (-20 /+100 °C).	Contact the specialist company.
PF201	Heat dissipation! (= Wärmeabfuhr!)	Heat dissipation because the boiler temper- ature is too high.	Contact the specialist company.
PF211	Outdoor sensor de- fective! (= Fühler Außen de- fekt!)	Outdoor sensor short circuit The outdoor sensor STP6 or its cables have a short circuit.	Contact a specialist company.
PF212	External sensor de- fective! (= Fühler Außen de- fekt!)	Outdoor sensor break The outdoor sensor STP6 or lines are inter- rupted.	Contact a specialist company.

Error code	Short text on the display	Description, causes	Note to the operator
PF215	HK2 sensor defec- tive! (= HK2 Fühler de- fekt!)	Heating circuit 2 sensor short circuit The HK2 sensor on STP7 or its cables have a short circuit.	Contact a specialist company.
PF216	HK2 sensor defec- tive! (= HK2 Fühler de- fekt!)	Heating circuit 2 sensor break The HK2 sensor on STP7 or lines are inter- rupted.	Contact the specialist company.
PF221	Level error! (= Fehler Füllstand!)	The fill level sensor may be covered. It reports that the container is full, although the container level indicates the message Refill container.	Clean the fill level sensor (see service manual). If the message appears again, contact a specialist company.
PF222	Lack of fuel! (= Brennstoffman- gel!)	There are too few pellets in the combus- tion chamber . The combustion chamber temperature is too low or the oxygen con- tent in the flue gases is too high for combus- tion.	Check whether the pellet container is empty. If so, provide new fuel. If not, contact a specialist company.
PF253	Empty the ash box! (= Aschebox leeren!)	The ash box is getting full and must be emptied soon . (information message).	Empty the ash box. After emptying, tap the ash box on the Home view display to reset the fill level.
PF254	Empty the ash box! (= Aschebox leeren!)	The ash box is full and must be emptied immediately . (An error message is dis- played and the boiler is blocked).	Empty the ash box, otherwise it will not be possible to start the boiler. After emptying, tap the ash box on the Home view display to reset the fill level.
PF262	Grate motor running time (= Laufzeit Rostmo- tor)	Maximum running time of the grate motor exceeded	Contact the specialist company.
PF331	Suction fan speed error (= Drehzahl Saugzug Fehler)	ST55 Suction fan speed The deviation of the values for the ST55 suction fan speed is too high.	Contact the specialist company.
PF371	Filling incomplete (= Befüllung unvoll- ständig)	The maximum suction time has been ex- ceeded, the daily container is not full within this time.	Check the pellet store and suction sys- tem; contact a specialist company if necessary.
PF411	Valve defective! (= Ventil defekt!)	Heat exchanger flush valves defective or not connected	Contact the specialist company.
PF413	Lifting system fault! (= Störung Hebean- lage!)	Fault contact of the waste water lifting unit open (STP 8)	Clean lifting system, contact specialist company if necessary.
PF451	Slide-in unit error! (= Fehler Einschub!)	There is a blockage in the slide-in unit or the motor is defective or not plugged in!	Contact a specialist company.
PF601	Fuse Si3 defective (= Sicherung Si3 de- fekt)	Fuse Si3 (boiler pump ST10, DHW pump ST11, DHW cleaning ST12, room discharge ST20, HK2 pump STP4, mixer STP2) defec- tive.	Contact the specialist company.



Error code	Short text on the display	Description, causes	Note to the operator
PF611	Fuse Si6 defective (= Sicherung Si6 de- fekt)	Fuse Si6 (suction draught ST18) has tripped.	Contact the specialist company.
PF621	Fuse Si5 defective (= Sicherung Si5 de- fekt)	Fuse Si5 (ignition ST17, PV power regulator ST14 and ash auger ST16) defective.	Contact the specialist company.
PF631	Fuse Si2 defective (= Sicherung Si2 de- fekt)	Fuse Si2 (suction turbine ST13) defective.	Contact the specialist company.
PF651	Fuse Si1 defective (= Sicherung Si1 de- fekt)	Fuse Si1 (230V mains) defective.	Contact the specialist company.
PF671	Fuse Si4 defective (= Sicherung Si4 de- fekt)	Fuse Si4 (water flush STP3, HK1 pump and mixer STP5) defective.	Contact a specialist company.
PF672	Hose diverter fuse (= Sicherung Sch- lauchweiche)	The fuse of the second pellet expansion board PEP2 (hose switch) has tripped.	Contact the specialist company.
PF801	Differential pressure low (= Differenzdruck niedrig)	Differential pressure sensor defective or not plugged in.	Contact the specialist company.
PF802	Differential pressure high (= Differenzdruck hoch)	Vacuum too high or differential pressure sensor defective.	Contact the specialist company.
PF803	Supply air flow low (= Zuluftstrom niedrig)	Combustion air flow low. Supply air duct blocked or boiler body not properly sealed (ash door, burner unit, cleaning cover).	Check supply air path, check ash door, contact specialist company
PF804	Supply air flow too low (= Zuluftstrom zu niedrig)	Air flow of combustion air too low. Supply air duct blocked, boiler body not properly sealed (ash door, burner unit, cleaning cover) or air hoses incorrectly or not connected.	Check supply air path, check ash door, contact specialist company
PF805	Air supply disrupted! (= Luftzufuhr gestört!)	Air supply disrupted during combustion. Air supply pipe blocked, ash door open or air hoses not connected correctly.	Close the ash door; contact a specialist company if necessary.

4.2 Acknowledging error messages

To acknowledge an **error message**, proceed as follows:

- 1. tap the **Info** button;
- 2. in the lower half of the display, press Reset
- \rightarrow The error message has been acknowledged.
If the error is still present, the error message appears again.

Error messages can only be acknowledged in the top menu bar of the Home view in the Info submenu.

5 Cleaning and maintenance

Regular maintenance of the boiler BPH 4/17 ensures environmentally friendly operation of the system and extends its service life. Regular maintenance enables potential or emerging damage to be detected at an early stage and rectified. This increases the operational reliability of the heating system. At the same time, possible energy wastage is prevented.

According to the regulation on energy-saving thermal insulation and energy-saving system technology in buildings (Energy Saving Ordinance - EnEV §11), the operator of a heating system is obliged to regularly maintain and service the heating system.



CAUTION

Observe all instructions on work safety. Follow the instructions in the chapter "For your safety".

The operator is recommended to **clean the casing** of the pellet boiler. Proceed as follows:

wipe and, if necessary, rub the cladding with a damp cloth.
Do not use any harsh or corrosive cleaning agents.
Caution! Excessive moisture can damage the electronics of the appliance.

5.1 Cleaning and maintenance intervals

Automatic cleaning

The most important points at which automatic cleaning takes place are Sliding grate, ash discharge and heat exchanger.

Recommendations

Regular cleaning leads to efficient and low-emission use of the energy used. This protects the environment and saves heating costs - while maintaining a high level of heating and hot water comfort.

	When?	Who?	What?
1	After each burn-off	takes place automatically	- Slide grate cleaning - Heat exchanger cleaning - Ash discharge
2	3 - 4 times a year	Operator	Empty ash box
3	annually	Specialist company	Maintenance work in accordance with the maintenance agreement and the service manual





We recommend annual monitoring of the system on the basis of a maintenance contract.

This results in:

- higher efficiency and a longer service life of the heating system combined with greater operational reliability;

- savings in heating costs and conservation of resources through efficient use of the energy used;

- a consistently high level of heating comfort.

Display messages on the need for maintenance work

To check the need for maintenance, proceed as follows

1. tap on **Status** and look at the coloring of the boxes next to the **Service** indication;

The coloring of the individual boxes results from the operating hours that have elapsed.



Illustration 29: Display: Maintenance required

The figures shown for the need for maintenance indicate **the percentage of the set** operating hours. E.g. green boxes = from 0 to 60% of the operating hours scheduled for service have elapsed. 40% of the operating hours remain until you should contact a specialist company for service work.



Illustration 30: Display: Maintenance intervals

As soon as the display is set to "red", a pop-up window appears with the corresponding information about cleaning or the need for service.

The specialist company will carry out the service work.

After each maintenance or service, you must confirm this process on the display. This is done by tapping the **O.K.** field . This resets the operating hours or the interval until maintenance is required.

5.2 Cleaning tool

After opening the maintenance door, you will see the cleaning brush.

Only use the brush supplied to clean the pellet boiler BPH 4/17.



Warning Damage to the appliance (pitting corrosion!) Another brush, e.g. a steel brush, will damage the interior of the boiler.

Only use plastic brushes.



5.3 Emptying the ash box

When the ash box is full, the following messages appear on the display - depending on how full the ash box is:

1. message " *Empty ash box* = Aschebox entleeren" = please empty the ash box soon

2. error message " *Ash box is full! Boiler is blocked until the ash box is emptied*" = "Aschebox ist voll! Kessel ist gesperrt bis die Aschebox geleert wird" = Empty the ash box immediately.

Only empty the ash box when the boiler is in standby mode!

Use protective gloves!







5.4 Ash disposal

Recommendations from the German Pellet Institute (DEPI information sheet Feb. 2016)

One of the advantages of heating with pellets is the low ash content, which requires only a few ash emptying operations per year and therefore contributes to the convenient operation of the system. The average ash content of ENplus A1 quality class pellets is 0.3 percent, with a maximum of 0.7 percent permitted. For the ENplus A2 quality class, which can be used in larger boiler systems, the limit value is 1.2 percent ash. Ashes must be recycled or disposed of in accordance with the Closed Substance Cycle Waste Management Act (KrWG). Due to the effective combustion in pellet boilers, the ash is almost completely carbon-free (burnt out) and therefore suitable for landfill. Whether wood ash (especially bottom ash) can be processed into a fertilizer or otherwise recycled instead of landfilled depends on the quality of the ash and is the responsibility of the waste disposal company. It should be noted that ashes should not be used directly and without processing as fertilizer in your own garden and may not be placed on the market



Ash analyses and pollutant load

When disposing of ash, the waste disposal company may request an ash analysis.

The type of analysis depends on the intended recycling or disposal method (fertilizer, landfill).

If ash is used as a fertilizer, the analysis should be carried out in accor-

dance with the Fertilizer Sampling and Analysis Ordinance (DüngMProbV).

Critical parameters are the chromium (VI) limit value for grate ashes and the cadmium limit value for filter ashes. For disposal in landfills, the requirements of the Landfill Ordinance (DepV) apply. A critical parameter is the dissolved organic carbon (DOC) in the eluate, which can exceed the limit values for landfill class 3 in individual cases.

The ash from continuous operation should be used for the analysis and not from the commissioning of the plant, as the composition of the latter ash is not representative.

In the Waste Catalogue Ordinance (AVV), wood ash is listed under various waste code numbers. Firing with wood pellets mainly produces **bottom ash**, which is assigned the waste code number **10 01 01**. For smaller boiler systems with only one ash container, all of the ash produced is classified as bottom ash. As a rule, there are no special requirements for disposal and landfilling.



In general, the formation of dust clouds should be avoided when handling wood ash. Ash dust can irritate the skin and damage the respiratory tract. As a precautionary measure, it is recommended that face masks, gloves and safety goggles are worn to prevent the ingestion of dusty ash via the respiratory tract or mucous membranes.

Recommendations for the disposal of bottom ash

When handling bottom ash, disposal should be differentiated according to the system output or the annual ash production.

Heat output	Pellet consumption	Ash production	Disposal		
< 100 kW	2-20 t/a	10-100 kg/a*	Disposal via household waste		
100 - 300 kW	15-100 t/a	100-500 kg/a*	Collection in big bags		
> 300 kW	> 100 t/a	> 500 kg/a*	Collection in big bags or skips		
* The calculation is based on pellets of quality class ENplus A1					

Disposal recommendations for bottom ash according to system output:

Recommendations for pellet furnaces up to 100 kW output (single and multi-family homes):

- the ash pan should be emptied regularly by the heating system operator. The **completely cooled grate ash** can be added to the household waste.

- The untreated ash should **not be used as fertilizer** on your own land, as this can lead to overfertilization and problems due to the strongly alkaline character of the ash and the accumulation of heavy metals.

5.5 Notes on the update

With the Software Update function it is possible to update the control unit.



INFO

During an update, the parameter settings from configuration and the later modified values are not getting lost.



ATTENTION

- Only carry out the update when the fireplace is cold (stand by)!
- Only carry out the update when the boiler and heat pump are switched off and locked!



Updates must be carried out on every control display on the system!

Check the type of operating display: (sticker "Bediendisplay Touch 2.0" or "Bediendisplay Touch 3.0" on the back). A release is already installed on both control displays. Updating to a newer software version only takes a few minutes.

The update is made available as a zip file (* bin files).

During an update, both the values set during configuration and subsequently are adopted.



NOTE

The entire update process takes a few minutes (but can take up to 20 minutes for a single display with older display versions, so allow sufficient time. Depending on the system situation, the update may take longer)

The update process (total duration 1-20 minutes) should not be interrupted. **DO NOT** touch the touch panel during the entire update process.

If the USB stick is faulty or does not contain the latest updates, the application starts as usual.



NOTE

When updating operating displays 2.0 and operating displays 3.0, the **USB stick** must **be formatted FAT32**.

5.5.1 Software from PC on the USB-Stick

1 From https://mybrunner.de you have access to download the current software package (SOFTWARE UPDATE). To access and download the software package, you must log in with your myBRUNNER access data



2. A dialog window opens in		Öffnen von BRUNNER	SOFTWARE [Version] [M	lonat) (Jahr).zip		×
which you click		Cia më chtan falana	la Datai äffnan			
Save file (=Datei speichern)		Sie mochten folgend	le Datei offnen:			
3. Confirm with OK		BRUNNER_SOFTWARE_[Version]_[Monat]_[Jahr].zip Vom Typ: WinRAR-ZIP-Archiv (xxxMB) Von: https://api_dateiaustausch.brunner.de				
		Wie soll Firefox mit	dieser Datei verfah	ren?		
		⊖ Öffnen mit	WinRAR archiver (Sta	undard)	~	
	_	Datei speicher	n		1	
		<u>E</u> ür Dateien di	eses Typs immer dies	e Aktion ausfül	nren	
				ОК	Abbrechen	
		1				
4. The zip file is saved in the down-	↓ → Dotei → Downloa Datei → Start Freig	ds Jeben Ansicht				
load area. Another storage location	$\leftarrow \rightarrow \uparrow \uparrow \downarrow \uparrow$	Dieser PC > Downloads >	Name		Tre	Größe
can possibly also be specified.	Schnellzugriff	~	Heute (1)		YP	GIODE
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	\leftarrow \rightarrow \checkmark \uparrow \blacksquare \rightarrow	Dieser PC > Ordner				
	📌 Schnellzugriff		Name Name	^	Тур	Größe
	Desktop	A 4	BRUNNER_SOFTWARE_[Ver	sion]_[Monat]_[Jahr].zip	WinRAR-ZIP-Archiv	214.574 KB
5. Now select the zip file with a	🕳 🖸 🧧 = Datei Start Freig	Extrahien geben Ansicht Tools für komprimi	USB-Laufwerk (D:)			
right click and click on Hier ent-	\leftarrow \rightarrow \land \uparrow \blacksquare \diamond	Dieser PC >				
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6. The unpacked files for updating the control unit are displayed:	➡ 🛃 🚽 = Datei Start F	Verwal	USB-Laufwerk (D:)			
1 5	$\leftarrow \rightarrow \uparrow \uparrow =$	> Dieser PC > mein Ordner			1-m 9	
	→ Sc BR	: 2UNNER_SOFTWARE_[Version]_[Mona	t]_[Jahr].zip	Anderungsdatum 16.01.2024 09:57	Typ WinRAR-ZIP-Archiv	Größe 214.574 KB
	U An	ritten_Offer.pdf nleitung_Softwareupdate_BRUNNER_[Version] [Monat] [Jahr].pdf	19.03.2019 18:06 19.09.2023 09:50	Adobe Acrobat-D Adobe Acrobat-D	340 KB 129 KB
	E Bri	unner_rel_Anlage_2_6_[Version].bin		12.09.2023 12:59	BIN-Datei	85.033 KB
	🔜 F 📃 Bru	unner_rel_Anlage_2_6_[Version]_and_ unner_rel_Anlage_3_6_[Version].bin	3_6_[Version]_licenses.txt	19.03.2019 18:05 12.09.2023 13:09	Textdokument BIN-Datei	1.146 KB 91.733 KB
	, Bri	unner_rel_BSH_3_[Version].bin		13.12.2022 17:06	BIN-Datei	43.585 KB
	□ 🛃 📑 = Datei Start	Freigeben Ansicht	Verwalten USB-Lau Laufwerktools	ufwerk (D:)		
	6 - × A	→ Dieser PC → LISR-Laufe	verk (D:)			
7 Copy the bin file or files to an	,h	- Dieser PC / OSD-LAUN	^	II.		- 0 -
empty LISB stick (>500 MP)	🖈 Sc 🗌 Na	ame			ур G	roße
	🛄 l 🗌] Brunner_rel_Anlage_2_6_[Versi	on].bin		BIN-Datei	85.033 KB
	📲 t 📃 🗋	Brunner_rel_Anlage_3_6_[Versi	on].bin		BIN-Datei	91.733 KB
	E E	Brunner_rel_BSH_3_[Version].b	in		BIN-Datei	43.585 KB

INFO: Only the .bin files are transferred to the USB stick. Save the documents enclosed for your information (in PDF or text format) on your PC.

INFO: For operating displays 2.0 and operating displays 3.0, the **USB stick must be formatted as FAT32.**

8. After right-clicking on the USB stick in File Explorer, click Eject (=Auswerfen). Now you can remove the USB stick from the PC.

-> The USB-Stick is ready for Update

5.5.2 Transfer the software from the USB stick to the control panel

Check again:

- Is the fireplace cold?
- Is the pellet, log boiler, BPH, BSV in"Standby" status and the boiler is locked? (Boiler > Menu > Locked)
- Is BWP in "Standby" status and operating mode"OFF" = AUS ? (BWP > Menu > Operating mode)

The main steps of update process are following:

- 1. remove the display from its holder
- 2. disconnect the power supply to the display (2-pin plug)
- 3. insert the USB stick correctly into the control unit (so that it
- is also recognized as a data carrier.
- 4. restore the power supply (2-pin plug);



5. a current update is recognized and loaded when the control panel is started. The system performs an automatic restart and starts the loading process (display "red wave"; then "loading bars" appear) of the update. The successful installation of the update is indicated by the message "remove USB stick and reboot".

6. remove the USB stick from the control panel

7. control board and control panel (display "red wave") automatically start with a reboot. After the restart, the control unit is updated. After the system update has finished, the update process is automatically completed with the data synchronization.

Restarting the system

- 1. disconnect the complete system from the mains supply for approx. 3 seconds
- 2. restore the mains supply to the complete system, after the restart the system is ready for operation.
- 3. reactivate the boiler and heat pump
- 4. check that the system is functioning correctly.

5.5.3 What to do if the update does not start? - Display

Chek your USB-Stick

· Check that the USB stick has been correctly inserted into the display

The zip file must be unpacked after downloading. The software file with the extension $Brunner_rel_Anlage_x_x_xxx$.bin contained in the package must be on the top level of the data carrier.

You may already have the latest software version installed.

To find out which software version is running on your control panel: To do this, please press the **Info button** on the top right of the screen display.

If it still does not work, please check whether it is a "Display Touch 2.0" resp. 3.0 "acts. If you have an older version, please contact our customer service. Please indicate the item number of the display and the currently installed software version (see picture). The article number can be found on the back of the display printed on the sticker (article no.Exxxxx).

Home	Wärmep.	Heizung	Wasser	Settings			i Info
		Version B	runner_re	Information I_Anlage-2.6.2	30 9294 Key:	16835	
oft							
II							
-	EC	95 Heizung	BWP	,	15:50 Uhr (Monta)	g, 25. März 2019)	

Illustration 31: z.B. bei einer neueren Software-Version*

*To determine the latest version, if you do not get this information by pressing the **Info button**, proceed as follows:

a) Path: Settings > System (=Anlage) and Version button or:

```
b) Settings > System (=Anlage) and Version button
```

6 Decommissioning

6.1 Temporarily take the boiler out of operation



CAUTION

Possible damage to property due to frost

If the boiler BPH 4/17 is temporarily taken out of operation, there is a risk of frost damage.

Ensure that the boiler is not damaged by frost.

You can take the boiler out of operation temporarily, e.g. during long periods of absence.

To take the boiler out of operation temporarily, proceed as follows:

- 1. burn out the boiler and allow it to cool down.
- 2. disconnect the boiler from the power supply = press the emergency heating switch.
- \rightarrow The boiler is out of operation.

To put the boiler back into operation, press the emergency heating switch.



If the boiler BPH 4/17 is operated in conjunction with the BRUNNER central heating system (BHZ), the boiler must not be disconnected from the power supply for temporary decommissioning.

An interruption of the mains voltage leads to error messages on the existing operating displays of other heating devices within the BRUNNER network environment (e.g. BRUNNER central heating system (BHZ), EOS tiled stove control unit).

6.2 Decommissioning the boiler

To decommission the boiler permanently (e.g. preparation for dismantling and disposal), proceed as follows:

- 1. burn out the boiler and allow it to cool down;
- 2. press the emergency heating switch \rightarrow to disconnect the boiler from the power supply.
- 3. drain the boiler completely;
- \rightarrow The boiler BPH 4/17 is put out of operation.

7 Waste disposal



Danger

Possible personal injury due to improper dismantling Dismantling the boiler BPH 4/17 requires extensive specialist knowledge.

Dismantling may only be carried out by an authorized specialist company.



DANGER

Danger to life due to electric shock

The electrical connections of the boiler are live. This can lead to an electric shock.

- Only a qualified tradesman may dismantle the electrical installation.
- Switch off the power supply.
- Secure the power supply against being switched on again.

7.1 Disposing of packaging

The specialist company that installed the boiler is responsible for disposing of the transport packaging.

7.2 Disposing of boilers

The boiler BPH 4/17 and its accessories are largely made of recyclable materials.

The body of a boiler is made of metal. Boilers also contain valves, seals with plastic and rubber parts and electronic components (e.g. boiler controls, drives, fans, power cables).

Summary of recycled products: Steel (including stainless steel), metal, plastic, plastics, rubber, circuit boards (may contain platinum and beryllium), copper.

Neither boilers nor accessories may be disposed of with household waste.



Observe the applicable national legal regulations for disposal.

Ulrich Brunner GmbH is listed in the EAR Foundation under WEEE no. DE75509764.



8 Technical and commercial data

8.1 Declaration of Conformity BPH

	(CE III			
	EG-Konfori	mitätserklärung			
Hersteller:	Ulrich Brunner GmbH Zellhuber Ring 17-18 D-84307 Eggenfelden				
Produkt:	Holzpellet-Heizkess	el			
Typen:	BPH 4/15, BPH 4/17, BPH 4/16 green BPH 7/24, BPH 7/25 BPH 9/30, BPH 9/32				
EU-Richtlinien:	2006/42/EG 2014/30/EU 2014/35/EU 2011/65/EU 2015/1189/EU	(Maschinenrichtlinie) (EMV-Richtlinie) (Niederspannungsrichtlinie) (RoHS-Richtlinie) (Richtlinie über Ökodesign-Anforderungen an Heizkessel für feste Brennstoffe)			
Angewandte Norme	en:				
Angewandte Normen: EN-303-5: 2012 EN ISO 12100: 2011 EN 60335-2-102: 2016-09 EN 61000-6-1: 2007 EN 61000-6-3: 2007/A1: 2011 EN 61000-3-2: 2014 EN 61000-3-3: 2013					
Wir erklären, dass das Produkt in den hier angegebenen Standardausführungen den oben genannten Bestimmungen entspricht.					
Eggenfelden, den 01	.07.2024				
Eggenfelden, den 01.07.2024 Hubertus Brunner Geschäftsführer					

8.2 Dimension sheet BPH



8.3 Technical data

Parameter	UM	BPH 4/15	BPH 4/17
Operational mode		heat value, noncondensing	heating value, condensing
Heat output range	kW	4 - 15	4 - 17
Boiler efficiency (Nominal heat output)	%	91,9	105,5
Boiler class (EN 303-5/2012)		5	5
Operating pressure	bar	3	3
Dimensions			
Dimension boiler with sheeting (w x d x h)	mm	900 x 589 x 1594	900 x 589 x 1594
Mounting dimension boiler-body (w x d x h)	mm	890 x 580 x 1420	890 x 580 x 1420
Mounting weight boiler-body	kg	195	195
Total weight	kg	285	285
Pellet weight in the day container	kg	32	32
Ash-tank drawdown	per year	3 - 4	3 - 4
Duration of burning (at nominal load)	h	6,5	6,5
Recomanded buffer storage volume, min.	liter	750	750
Data on water connections			
Boiler water content	liter	38	38
Connecter flow/return Ø	DN (Zoll)	IG 25 (1")	IG 25 (1")
Size MAG (expansion vessel)	liter	18	18
Boiler flow temperature, max.	°C	75	75
Boiler return temperature, min.	°C	35	25
Height flow	mm	1560	1560
Height return	mm	1560	1560
Water-side resistance ∆T=10K	mbar	16,6	16,6
Height floor drain / condensate drain	mm	254	254
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	125	53
Exit gas temperature part load	°C	120	53
Flue gas mass flow nominal capacity	kg/h (g/s)	36,0 (10)	28,8 (8,0)
Flue gas mass flow part load	kg/h (g/s)	10,8 (3,0)	14,4 (4,0)

Parameter	UM	BPH 4/15	BPH 4/17
Height exhaust pipe connection	mm	1462	1462
Exhaust pipe connection Ø	mm	100	100
Necessary delivery pressure	Pa	3	-
Available delivery pressure	Pa	-	6
Combustion air connection set Ø	mm	110	110
Height of combustion air connection (break- through in cladding)	mm	807	807
Content CO ₂	%	11,3	14,5

Note on exhaust gas routing

At BPH 4/17, the connection line must be at least 50 Pa overpressure-tight.

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

Chimney design: suitable for calorific value - solid fuels - moisture-resistant - N1 or P1 (depending on the chimney calculation).

When renovating, we recommend our SET chimney renovation or a chimney design according to W3G N1 or P1.

Note on combustion air routing for room air-independent installation

The 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. PH003060 is required for this type of installation!

Electric connection	UM	BPH 4/15	BPH 4/17
Power supply	VAC, A, Hz	230, 16, 50	230, 16, 50
Power input at nominal load	w	60	60
Standby	W	12	12

Emission parameters

	U.M.	BPH 4/15	BPH 4/17			
Emissions according to the requirements for Germany-1.BlmSchV; at 13%O ₂						
CO at nominal heat output	mg/m ³	2	16			
CO at part load	mg/m ³	8	16			
Dust at nominal heat output	mg/m ³	10	6			
Dust at part load	mg/m ³	2	4			
OGC at nominal heat output	mg/m ³	0	0			
OGC at part load	mg/m ³	1	0			
NOx at nominal heat output	mg/m ³	73	64			
NOx at part load	mg/m ³	52	50			

	U.M.	BPH 4/15	BPH 4/17			
Emissions according to the requirements for Switzerland -LRV; at 13%O ₂						
CO at nominal heat output	mg/m ³	2	16			
CO at part load	mg/m ³	8	16			
Dust at nominal heat output	mg/m ³	10	6			
Dust at part load	mg/m ³	2	4			
OGC at nominal heat output	mg/m ³	0	0			
OGC at part load	mg/m ³	1	0			
NOx at nominal heat output	mg/m ³	73	64			
NOx at part load	mg/m ³	52	50			
Emissions according to the requirements for A	Austria-Art.15a;	at 13%O ₂				
CO at nominal heat output	mg/MJ	1	11			
CO at part load	mg/MJ	5	11			
Dust at nominal heat output	mg/MJ	6	4			
Dust at part load	mg/MJ	2	3			
OGC at nominal heat output	mg/MJ	0	0			
OGC at part load	mg/MJ	0	0			
NOx at nominal heat output	mg/MJ	48	42			
NOx at part load	mg/MJ	34	33			

Specific parameters

	U.M.	BPH 4/15	BPH 4/17			
For calculating the generator expenditure figures according to EnEV or DIN V 4701-10						
Efficiency in static operation		0,92	1,06			
Efficiency in the basic cycle GZ		0,84	0,96			
Useful heat given off by the heat generator during a basic cycle	kWh	9,21	10,49			
Power share heating circuit		1	1			
Max. usage performance in operation Qnmax	kW	15	17			
Average usage performance in operation QNm	kW	13,5	15,3			
Temperature hysteresis	к	20	20			
Auxiliary energy demand basic cycle QHE, GZ	kWh	0,037	0,037			
Mean electrical power consumption in stat. opera- tion	W	60	60			

	U.M.	BPH 4/15	BPH 4/17			
To calculate the generator expenditure figures according to EnEV or DIN 18599						
Standby loss at at an average boiler temperature of	70 ° C	0,017	0,009			
Load on which the heat generator test is based (= p	art load)	0,27	0,24			
Boiler temperature in the test case at nominal load	°C	75,0	50,0			
Boiler temperature in the test case at part load	°C	75,0	50,0			
Electrical power consumption when the boiler is in operation	kW	0,06	0,060			
Electrical power consumption of the boiler at part load	kW	0,012	0,012			
Boiler efficiency at nominal output (calorific value related)		0,851	0,977			
Boiler efficiency at partial load (calorific value related)		0,880	0,938			
Information according to the Delegated Regulation (EU) 2015/1187		BPH 4/15	BPH 4/17			
Energy efficiency class		A+	A++			
Annual use efficiency of space heater	%	81,3	88,3			
со	mg/m³	10	23			
Dust	mg/m ³	5	8			
OGC	mg/m ³	1	0			
NOx	mg/m ³	75	88			

Information according to (EU) 2015/1189		BPH 4/15	BPH 4/17
Heating mode		automatically	automatically
Recommended buffer volume	liter	750	750
Calorific value boiler		no	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
Usable heat output at nominal heat output (P _n)	kW	15,0	17,0
Useful heat output at 30 % of nominal heat output (P_p)	kW	4,5	5,1
Fuel efficiency at nominal heat output (η_n)	%	85,1	97,7
Fuel efficiency at 30% of nominal heat output (η_p)	%	88,0	93,8

Information according to (EU) 2015/1189		BPH 4/15	BPH 4/17	
Auxiliary power consumption at nominal heat output (el _{max})	kW	0,060	0,060	
Auxiliary power consumption at 30% of nominal heat output (el _{min})	kW	0,038	0,038	
Auxiliary power consumption in standby mode (P_{SB})	kW	0,012	0,012	
Annual space heating emissions (based on 10% O2, dry flue gas, 0°C, 1013 mbar)				
РМ	mg/m ³	5	6	
OGC	mg/m ³	1	0	
со	mg/m ³	10	22	
NOx	mg/m ³	75	69	

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