

HPK-RA 25-160

GILLES GILLES **High Quality** Design

Ease of Use

TÜV certified **HPK-RA 25-160** Efficiency of all boilers on full and part load operation more than 90%. 6 **WOOD CHIP BOILER HPK-RA** The high-performance boiler is produced as a stress-free welded construction. The heat insulated front door opens outwards. The

DESCRIPTION

- (1) Cell wheel
- 2 Wood chip burner in high-quality heat-resistant ceramic
- Ash removal via ash agitator with special drive technology ash compression resulting in long emptying intervals
- (4) Combustion chamber door for log wood operation (no changeover required)
- 5 Horizontal pipe heat exchanger with automatic cleaning
- 6 Ceramic-lined afterburning chamber with individually offset heat-resistant fire bricks
- 7 Flue gas fan for optimal ignition process and permanent negative pressure in the boiler
- 8 Lambda probe for fuel detection and optimised, clean combustion process
- Overheat protection
- Welded multiple-draught boiler in 6 mm boiler plate
- (1) Shunt circuit with pump and mixing valve available
- Primary air modulating variable
- (13) Secondary air modulating variable

cleaning of the boiler is performed fully automatically by means of a special drive via 6 mm strong auger flights. The gasification combustion chamber built on a direct pass principle is fitted with a variable, ceramic (replaceable) radiator roof cladding. High combustion temperatures and a long furnace duration of the gases is the guarantee for a clean burning process. Welded multiple-draught boiler in thick-walled boiler plate St. 360 (6 mm width). Horizontal heat exchanger in seamless drawn thick-walled boiler pipes, 70 mm width external insulation, operational pressure max. 3 bar, incl. heat exchanger. Automatic ash discharge integrated in boiler base and ash container. Suitable for the automated burning of wood chips up to G50 / P45, W30 Ö-NORM M7133, pellets Ö-NORM M7135 / DIN plus, EN14961-2 / ENplus A1.

HPK-RA 25-85 rolling ash container 43 I, HPK-RA 100-160 ash container 80 I.

WOOD CHIP HEATING



- 1 Helical gear motor (high efficiency, low power consumption)
- 2 Connection point sprinkler valve
- (3) Ripping hook
- 4 Start-up cushioning and vibration reduction

- **5** Auger channel
- 6 Transport auger (continuously welded auger flights, robust auger)
- 7 Cell wheel (100% burn back protection)
- 8 Proximity sensor



WOOD CHIP HEATING

WOOD CHIP TRANSPORT SYSTEMS



WOOD CHIP HEATING

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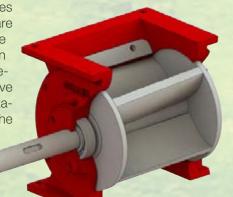


GILLES special features

Gilles Cell wheel

The multi-tested full-metal cell wheel reliably interrupts the boiler from the fuel store and thus provides 100% protection against burn back. The blades are attached to the running wheel at an offset angle to the rotary axis to enhance the cutting action. In addition, the blades are slightly curved, which prevents noise generation and reduces compressive forces. A fixed cutting edge is integrated in the stable and noise-damping cast enclosure to reduce the size of longer pieces of material.

100% protection against burn back Proven on thousands installations





IBS proved.

Energy-saving 4-chamber system with low running surface

HEATING CONTROL SYSTEM

Intelligent control



- ✓ Higher efficiency
- Energy saving
 (Energy efficient control of the electrical components)
- Smooth control of the drives
 (Components: Ignition fan, 3 way diverting valve, transport system)





Programming and updates possible via USB stick

Benefits:

- ► Settings for different fuels
- Modulation of the boiler
- Convenient setting and alteration of all heating functions via smart phone, tablet or PC/Mac
- Automatic error message notification via e-mail
- Remote monitoring of the boiler via internet
- Graph record of all heating parameters on the internal memory
- Modular design (expandable)
- Robust design of switch cabinet
- Cascade control
- Password protected
- Modbus and/or BAC-Net compatible
- Enabling of external heat source
- Recording of all operation parameters via USB stick

Optional:

• Automatic error message notification via SMS



- Boiler & stoker status displayed
 Status display => which components
 are currently active
- All important settings can be seen on the main screen, such as temperatures, O, value, fans, etc.



- Display of the actual values and the set
- points

 All fans performances visible



- Trend logging over 6 months with USB Stick
 Trend log exportable to USB stick
- All values displayed on the controller can be recorded and saved





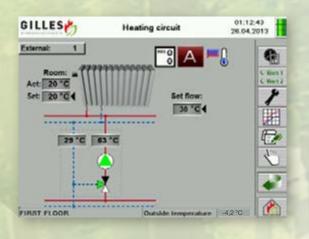
HEATING CONTROL SYSTEM

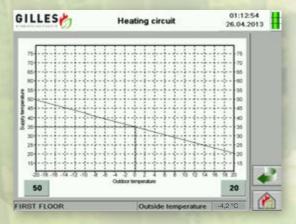
GILLE

with integrated heating circuit control

Previously it was only possible to regulate the heating circuits with the room control unit. Now it's possible to control it with the Gilles touch control panel. You can regulate the heating times, room temperatures and all important parameters easily with the Gilles touch control panel. In addition you are able to change your settings with your smart phone and tablet computer.

The result of these innovations is optimal comfort with absolute control and lower heating costs.

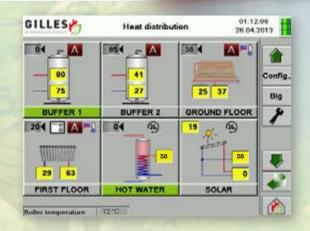


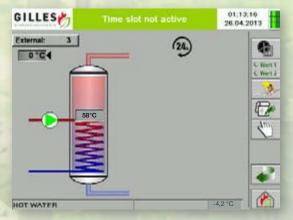


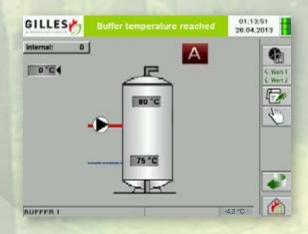




Communication via smart phone app







Visualisation link / GSM-Visualisation

