

Sit back and relax – your heating system is doing the work for you



The Lambda-Touchtronic has a userfriendly touch screen. The system controls the complete combustion process, the back end protection and the loading of the accumulator. Furthermore, all heating circuits and hot water circuits may be regulated. The control works according to external conditions, recognising the changes in conditions as soon as they occur and adjusting the boiler output accordingly. Maximum comfort guaranteed!

Hot water tank

It is only necessary to set the desired hot water tank temperature and charging time. Your control unit will take care of the remaining steps automatically.

Hargassner guarantees 24 hours hot-domestic-water. Beside of regular loading schedules of the Hot Water Tank, a „**minimum-boiler-loading**“ ensures the supply of your hot domestic water needs.



Further advantage is the HWT priority control. Means, if a HWT is being loaded, it is ensured that heating-circuits are not reduced permanently and room temperature would cool down.

Lay back and enjoy your warm home.

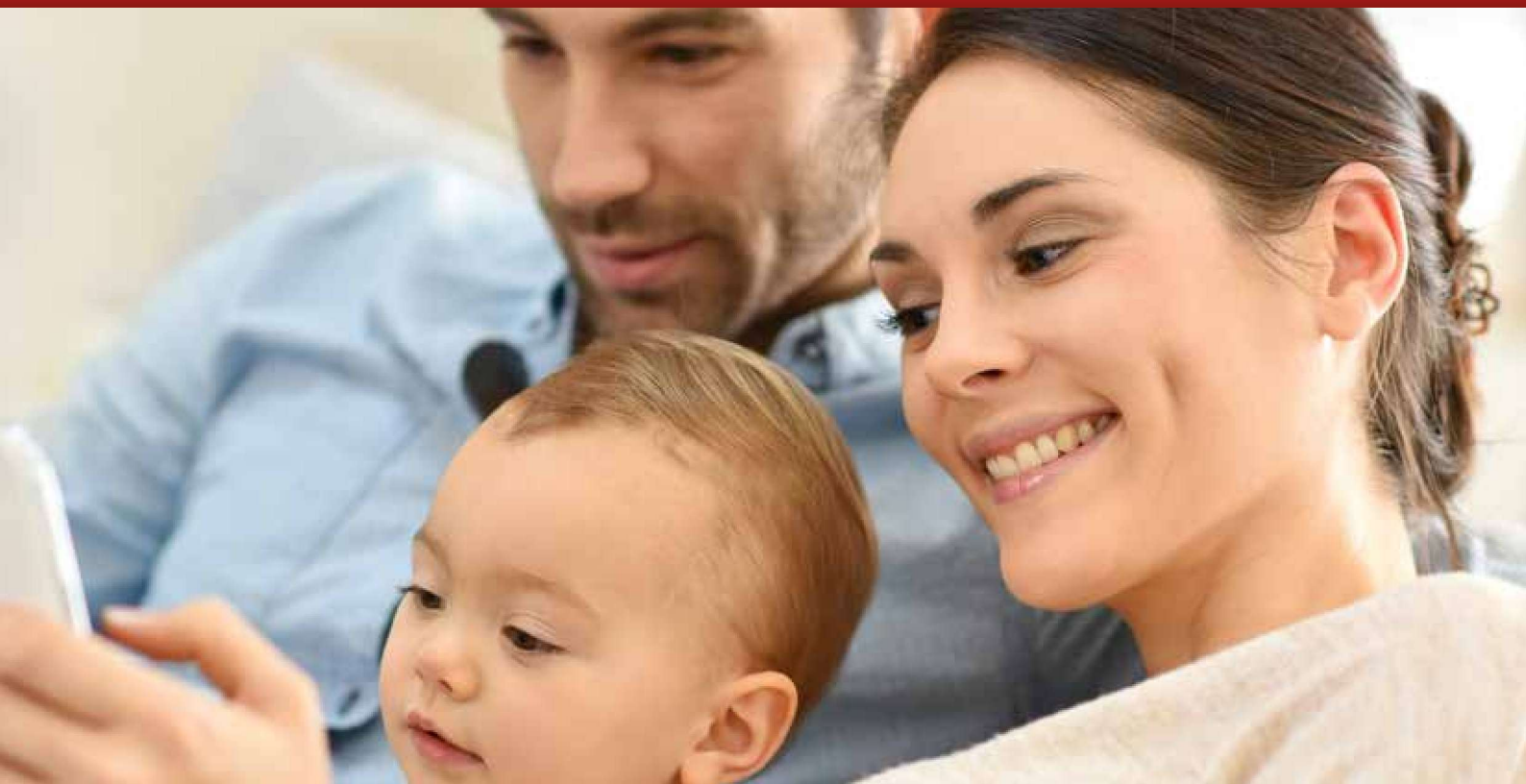
Control of the heating circuits

The Lambda-Touchtronic may control several independent heating circuits. The client is able to define different settings in detail; e.g. indoor room temperature on all heating circuits, depending on time of day and outside temperature.



Hargassner's 3G day/night reduction mode enables the client to set 3 thresholds. One mode for 'Heating during the day', one for 'Reduction during the day' and one for 'Reduction during the night'. As a result, the heating system only operates if necessary. This saves energy without sacrificing comfort.

Through the ingenious residual heat use programme, the remaining energy in the boiler is used efficiently after the shutdown of the boiler.



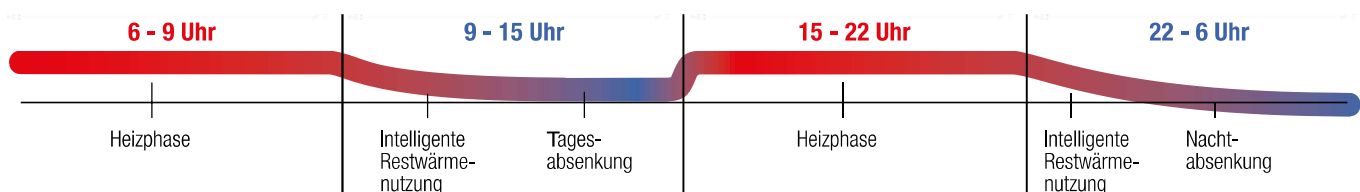
Boiler before starting: Display of Lambda Touchtronic shows a not-heated boiler. HWT and Accumulator are cold - not loaded



Boiler in Full-Load: Display shows a working boiler. HWT and Accumulator are being loaded already. Heating Circuits ensure required temperature in each living-area.



Boiler in Part-Load: Boiler is only working with half-power. Boiler and Accumulator are loaded already. Heating Circuits ensure required temperature in each living-area.



**Heating time 1:
6 a.m. – 9 a.m.**

Outside it is -7°C , so considerably less than the threshold value of $+16^{\circ}\text{C}$ - the heating switches on.

**Day-reduced temperature:
9 a.m. – 3 p.m.**

Outside temperature increases to -1°C considerably less than the day time reduced temperature threshold of $+8^{\circ}\text{C}$. Heating day-reduced temperature operation.

**Heating time 2:
3 p.m. – 10 p.m.**

The outside temperature climbs to $+1^{\circ}\text{C}$; so considerably less than the threshold value of $+16^{\circ}\text{C}$. The heating remains switched on.

**Night-reduced temperature:
10 p.m. – 6 a.m.**

The temperature cools to -2°C , so above the threshold value for the night-reduced temperature of -5°C . The heating switches off.

CONTROL ACCESSORIES

The mobile remote control for your heating system!

You want to change a setting on your boiler or see the current status - without going to your boiler room? No problem! The all new remote controls. Easy, self-explaining and perfectly visualised!



LCD FR35 Backlight: With this LCD-remote control you can see all important temperatures on a digital screen. You can set the room temperature and/or day-reduced or heating operation. The FR35 can be connected with or without room-temperature dependence. A warning light is integrated to inform the client about the status of the heating system.



Wireless version for LCD FR35: Same function as described above - but radio version with transmitter and receiver.



FR 40 Touch remote control: All functions of the boiler are controllable through the living room. You can set the room temperature and the heating statuses, you can change all heating temperatures and times.



Analog FR25: you can use the temperature controller to adjust the room temperature up or down. With or without room-temperature dependence. A warning light is integrated to inform the client about the status of the heating system.

Touch accessories

Hargassner offer a wide range of Touch accessories. This contains the extension of heat circuits and furthermore remote controls to increase customer convenience.



NEW:
Control board B

Control board A/B: This control board is to extend the control by 1 heat circuit and 1 HWT. The board may be integrated in the boiler or the extension module HKM. Also in the HKR - additional control boards can be installed. (Sensors must be ordered separately.)



Control board F: mixed district line, Control of the district line pump and the distr. line mixer incl. sensor



Control board PF: for 2 additional sensor inputs. All together you can connect 5 sensors on the buffer now. (Sensors must be ordered separately.)



Control board D: for differential control of a separate heat source and one accumulator or hot water tank. This differential controller can be used for an external boiler (Log, Oil, Gas, etc.) as well as for a solar system in single circuit or double circuit operation. The control of the pumps is constant (no speed control with PWM). Incl. 1 HWT-sensor and 1 Solar sensor (temp. resistant)



Control board E: for controlling a substation flushing valve (no sensors required).



Extension module HKM (with or without Touch Display): This module is used for the extension of additional heating- or hot water tank circuits. A maximum of 2 mixer-controlled heat circuits & 1 HWT with DHW-circulation pump can be connected to the boiler. Additionally an external heat circuit or an accumulator and other HKM's can be connected.



Heat circuit controller HKR with Touch Display: Control unit based on atmospheric conditions for 2 mixing valve controlled heating- and 1 hot water tank circuits with DHW-circulation pump; 1 accumulator or external boiler, 1 external HC, 1 long-distance heating or accumulator pump, extension to a max. of 16 HKR's. An extension with a max. of 2 HKM's, ZSP-A allows additional 8 HC and 5 HWT circuits.



Overvoltage protection:

If the CAN-Bus modules are in two different buildings - the overvoltage protection guarantees a potential equalisation.



Housing with/without main switch:

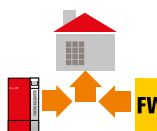
If no space is available in the boiler control cabinet when using several additional boards, then a universal expansion module can be used. Housings are available either with and without main switch or with a housing + main switch + three-phase current board.

Additional functions



Accumulator- & Solar logic(standard):

The PSP-Logic with 3 SENSORS and part load control revolutionizes the current accumulator control. This guarantees long boiler run times, less start-up cycles and maximum boiler efficiency. For peak loads a forced loading cycle can be activated. Solar buffer logic: First the hot water stored in the tank from solar-energy is used, before the biomass boiler fires up using automatic ignition.



External heat control:

If desired, an additional external boiler, e.g. Pellet, oil or gas boiler, may be integrated. Changeover between the two boilers occurs fully automatically.



Cascade control:

The cascade controller for 2-6 boilers enables a parallel operation of several boilers. This controller automatically switch on or change over control of boilers, based on outside temperature. Priority mode, equality of operation hours possible, auto change-over mode after error. New: control of an external peak-load or back-up boiler.

Remote control via Phone or Tablet



Internet-Gateway: required for App and Web-Service. The internet gateway establishes a save TLS-encrypted connection between the Hargassner boiler control to the Internet router. Only with that a save access to your heating system is possible.



App: With the all new Hargassner APP you may easily change heating times, temperatures and operation modes and receive information regarding the current boiler status. Important information can be sent via email or push notification to your mobile. You know at any time the status of your boiler. (Requirements: Internet - Gateway; Smart phone with Android or IOS)



Web solution: With the Hargassner Web-Service the installer may set the heating system ONLINE - via Login. (Requirement: Internet gateway)

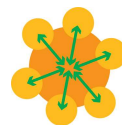


SmartHome Solutions

Hargassner offers interfaces for all main smart home solutions. Efficient energy control and heat distribution in your house is now at a new level. SmartHome compatibility is the perfect opportunity for an even more efficient energy control. Save energy and costs. Enjoy convenience and safety. Electrical devices, heating and lights are connected to one central control unit. Via internet you are able to look at your home - also if you are on the way!



LOXONE: Integrate your Hargassner boiler to your Loxone SmartHome. Appropriate boiler control based on Loxone single room control. Loxone enables the configuration and control of each single room - according to your demand.



Mod Bus: With the MOD-BUS interface /TCP the boiler can be integrated into a building management system or can be connected to a visualisation software.



KNX: Connection to a KNX-house automation. Interface between boiler (LAN) and KNX-Bus -> Bus coupler.



Heat meter: with M-Bus interface. Connection of heat meter 403 from Kamstrup to the Hargassner Touch-Tronic. This allows you to read out your heat data conveniently on the boiler or via WEB.