

## **BOILERS MODRATHERM PYROGAS A PYROSTAR DUO**

### **Main facilities and parameters of the regulator AK5000**

#### **Regulation of the burning process**

- PID regulator with correction according to the temperature of flue gases hold optimal the temperature of water with continuous regulation of fan speed
- Correction on the temperature of flue gases decreases markedly the fading of the warmth from the boiler
- intelligent regulation of the pump of the boiler water
- optimization of the burning process with the regulation of the primary and secondary air supply according to the analyse of flue gases with the newest Lambda probe Bosch brings you  
:
- increasing of the effectivity of the utilization of energy in the fuel
- decreasing of the emissions
- fuel saving up to 20%





### Customer comfort

- graphic display
- simply and intuitive regulation and adjusting
- fast start-up of the boiler on its operating temperature
- minimalization of the fading of the flue gases by fuel loading by the identification of the door opening
- identification, when the boiler burns out
- minimalization of the electricity consumption
- possibility of later software upgrade



### Regulation possibilities of the main configuration

- regulation according to the room thermostat
- regulation of the sanitary warm water tank
- priority regulation of the sanitary warm water
- switch-on of an external boiler (gas/electro/pelets a.o.) after the fuel burns-out
- regulation of the pelets burner (by combi boilers PYROSTAR)

**Note . For the listed utilization of the regulation possibilities is necessary to add the relevant sensors / valves / servomotors**



### Remote regulation of the boiler

- option of connection of the boiler to the home network and regulation via webserver
- option of a converter USB + application into the PC/notebooku for monitoring of the boiler activity
- option SMS modul



### Technical parameters of the main configuration

- main supply 200 – 255 VAC, 50Hz
- graphic display
- consumption in Stand-by under 0,1W
- 4 thermometer inputs for different types of thermometers (semiconductor sensor KTY, Pt1000, thermistors 10k)
- 1 binary input (door opening of the feeding chamber)
- 1 input for connection of safety thermostat / STB
- 1 Relay output for the switching of the pump of heating water
- 1 output for exhaust fan

### The possibilities of the extension of the main configuration :

- Modul AK5000Re, 3 rele outputs for regulation of additional equipment
- Modul AK5000USB – boiler operating via USB converter / application in PC
- Modul AK5000ETH – remote boiler operating via ethernet / webserver
- Modul iGO3000 – remote boiler operating via SMS messages
- Modul AK5000L – regulating of primary / secondary air supply with the newest Lambda probe Bosch

