

**The controller for central heating blow boilers**

**GH09NA**



**APPLICATION**

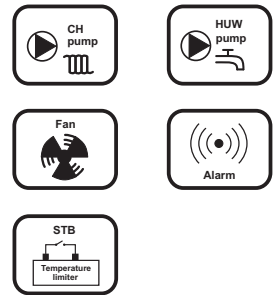
The GH09NB is a controller for central heating blow boilers.

This controller supervises the process of preparing hot utility water (HUW cycle), and allows to operate main heating circuit (central heating - CH cycle).

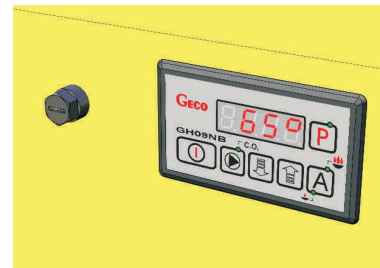
The GH09NB has specially designed casing making it possible to install the controller in many different positions on the boiler.

**PROPERTIES**

- modern and functional visualisation of casing
- four-section display of the LED type
- single-module construction enables comfortable installation on the boiler
- smooth control over fan rotations
- possibility for connection of the temperature limiter STB (connected into fan circuit)
- sound signal of the alarms
- possibility for power supply by using of computer connectors IEC type



**INSTALLATION ON THE BOILER**



# DIAGRAM OF ELECTRIC CONNECTIONS

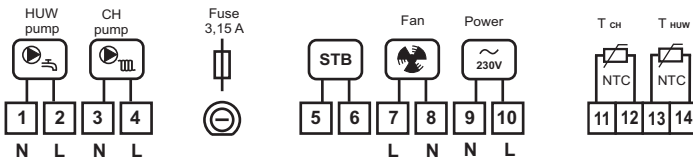
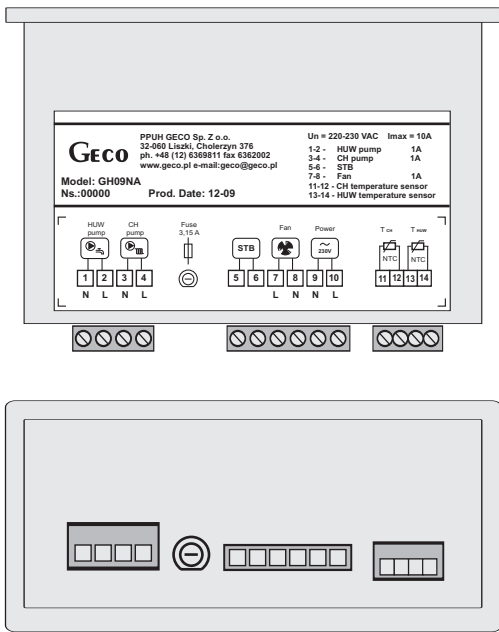
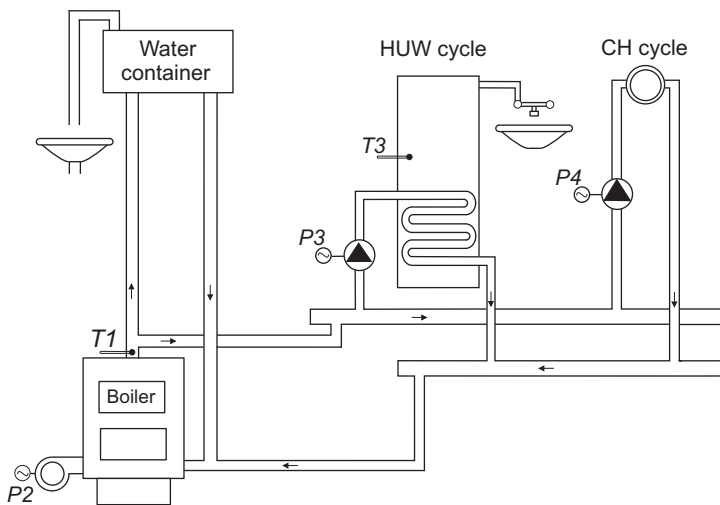


Diagram of electric connections

Outputs			Inputs		
1	N	HUW pump	9	N	Power 230V AC
2	L	HUW pump	10	L	Power 230V AC
3	N	CH pump	11	—	CH temperature sensor
4	L	CH pump	12	—	CH temperature sensor
5	—	STB	11	—	HUW temp. sensor
6	—	STB	12	—	HUW temp. sensor
7	L	Fan			
8	N	Fan			

# THE CONTROL AND HEATING SYSTEM



### Controls

P2	Fan
P3	HUW pump
P4	CH pump
<b>Sensors</b>	
T1	CH temp. sensor
T3	HUW temp. sensor

# TECHNICAL DATA

Power supply voltage	230V +10%/ -15%
Power supply frequency	50...60 Hz
Fan protection	3,15A
Working temperature	od +5°C do + 40°C
Relative humidity	20% + 80% RH
Sensors type	NTC - range: 0°C do +100°C

Temp. sensor (NTC) 2,2 kΩ	
°C	Ω
0	7174,89
10	4374,83
20	2747,10
30	1774,91
40	1172,09
50	795,08
60	547,95
70	384,62
80	275,86
90	202,37
100	149,16

Output	Constant load	
CH pump	1A	200W
HUW pump	1A	200W
Fan	1A	200W

### GH09NA equipment

#### Standard equipment:

- 1) CH temperature sensor
- 2) HUW temperature sensor

#### Controls:

- 1) CH pump
- 2) HUW pump
- 3) fan