

The controller for central heating boilers with air blow

GH08NA



APPLICATION

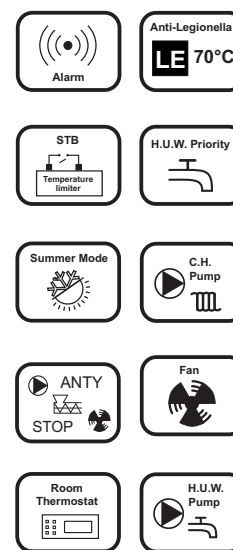
The GH08NA is a controller for central heating boilers with air blow.

The GH08NA supervises the process of preparing hot utility water (HUW cycle), and allows to operate main heating circuit (central heating - CH cycle). Possible communication with standard room panel.

The GH08NA has specially designed casing making it possible to install the controller in many different positions on the boiler.

PROPERTIES

- front panel covered with plexiglas, resistant to external factors and more durable
- modern and functional operation panel by touch sensors
- large readable graphic LCD display
- single-module construction enables comfortable installation on the boiler
- cooperation with the HUW pump (Hot Utility Water) include disinfection (Anti-Legionella)
- many language version
- HUW priority and Summer mode functions
- boiler operational parameters archiving function, among others alarm controller record
- possible to cooperate with any room thermostat
- controls fan rotation
- possible to use temperature limiter STB for safety reason
- output for external fuse
- sound signal for the alarms
- provides storage of all controller settings in case of power failure
- soft-start of the fan.



INSTALLATION ON THE BOILER



DIAGRAM OF CONNECTIONS

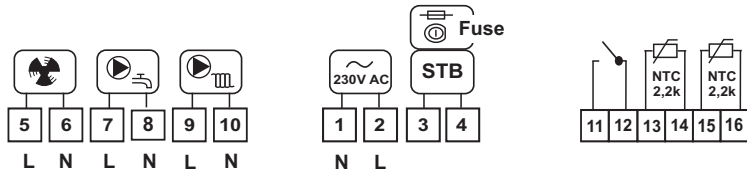
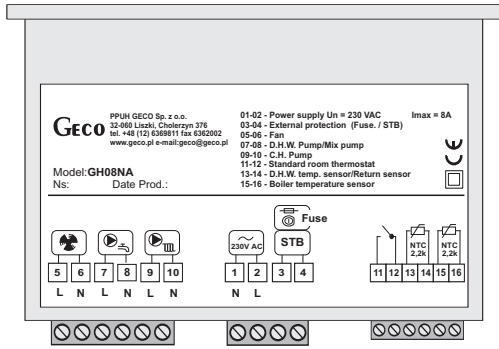
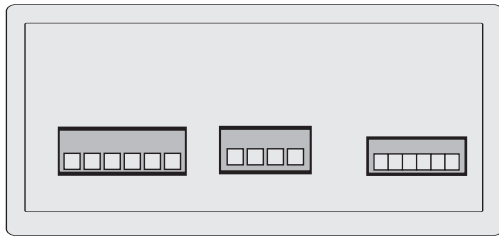
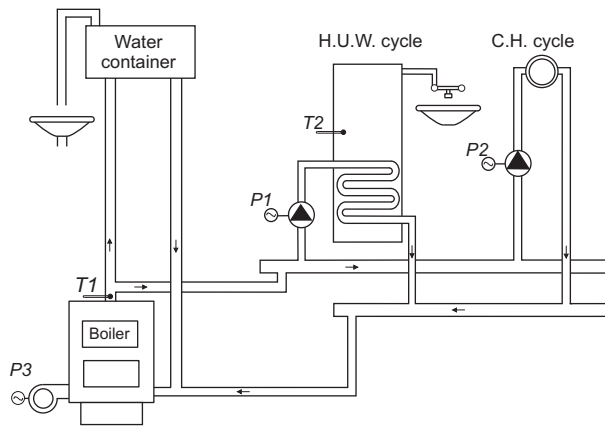


Diagram of electric connections

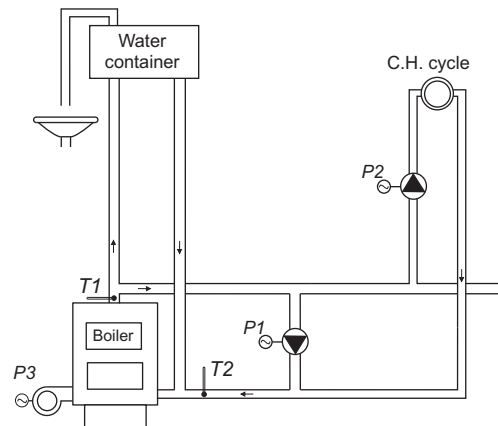
Outputs		Inputs	
7	N HUW pump	1	N Power 230V AC
8	L HUW pump	2	L Power 230V AC
9	N CH pump	15	— CH temperature sensor
10	L CH pump	16	— CH temperature sensor
3	— STB/ Fuse	13	— HUW temp. sensor
4	— STB/ Fuse	14	— HUW temp. sensor
5	L Fan	11	— Room thermostat
6	N Fan	12	— Room thermostat



THE CONTROL AND HEATING SYSTEM



Controls		Sensors	
P1	H.U.W. pump	T1	Boiler temperature
P2	C.H. pump	T2	H.U.W. temperature
P3	Fan		



Controls		Sensors	
P1	Mixing pump	T1	Boiler temperature
P2	C.H. pump	T2	Return temperature
P3	Fan		

TECHNICAL DATA

Power supply voltage	230V AC +10%/-15%
Fan protection	2 A
Working temperature	from +5°C to +40°C
Relative humidity	20% ÷ 80% RH
Sensors type	NTC - from 0°C to +100°C

Output	Constant load	
Fan	1A	250W
C.H. pump	1A	250W
H.U.W. pump	1A	250W

Temp. sensors (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

GH08NA equipment

Necessary equipment:
1) boiler temperature sensor
Optional equipment:
1) H.U.W. temperature sensor / return temperature sensor
2) thermostat
Controls:
1) Fan
2) C.H. pump
3) H.U.W. pump / mixing pump