



# EUROHEATER

## User manual

for air heater

Euroheater AIR-4D 1a2V  
with control panel PU-5

CE approved



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## **Introduction**

This user manual is part of the documentation for Euroheater air heaters.

This contains an overview for the user about safe maintenance and operation of the product.

If you have any concerns, we strongly recommend that you contact the authorized service centers, the addresses and telephone numbers of which can be obtained from the seller or on the website [www.Euroheater.no](http://www.Euroheater.no)

**Before using the product, read this user manual and the heater user manual.**

## **Warranty and liability**

The manufacturer is not responsible for errors and damages caused by non-observance of the use and maintenance instructions for the heater.

- The control panel is only allowed to be used for heating control.
- Do not connect and disconnect the control panel connector while the heater is operating.
- After the heater has been switched off, it should not be switched on again until at least 5-10 seconds have passed.
- For safe operation of the heater, after two consecutive failed starts, contact the service department for troubleshooting information.

See the warranty certificate for product warranty period and warranty service terms.

## **Safety**

**Use and operation of the heater in places where flammable vapors or gases or large amounts of dust can form and accumulate (for example petrol stations, petroleum, fuel, coal, timber or grain storage facilities) is PROHIBITED. Danger of explosion.**

**Do not switch on and use the heater in closed, unventilated rooms (garages, etc.).**

**Risk of poisoning and suffocation due to exhaust fumes.**

**Do not switch on and use the heater if there are flammable particles or liquids inside the exhaust outlet.**

**Do not use a defective Euroheater. Risk of damage when using a defective device.**

### First start-up

- Place the heater on a stable, level surface.
- Fill the tank with fuel; Diesel, kerosene, lamp oil and F34 can be used. It is not recommended to use biofuel.
- Connect the trachea.
- Take all loose cables out of the case.
- Connect to control box.
- Select the desired power supply on the internal toggle switch 230v or 12v.
- Connect to the desired power supply.
- Select the desired operating mode on the control panel; 1 for ventilation mode, 2 for heating mode-
- Select the desired effect with the 5 potentiometer button.
- Never switch off the power supply to the Euroheater before the cooling process has been completed after the appliance has been switched off.

### PU-5 control panel

The following is located on the front of the panel:

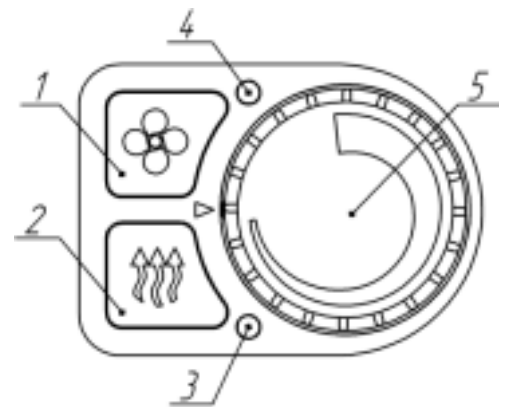
1. Ventilation mode on/off button.
2. Heater on/off button;
3. Operation LED display;
4. Ventilation mode LED display;
5. Potentiometer button.

The LED in Pos. 3 indicates the status of the heater:

- yellow light - heating mode;
- fast flashing yellow - during cleaning;
- slow flashing red - in case of error;
- off - the heater is not in operation.

The LED in Pos. 4 indicates ventilation mode status:

- green light - internal sensor is not connected and the heater works in ventilation mode;
- green flash - ventilation mode off;
- yellow light - the internal sensor is connected and the heater goes into heating mode with ventilation function;
- off - the heater is not in operation, with ventilation mode off.



### Using the control panel

- When the heater is connected to the selected power supply, pos. 4 quick green flashes to show the connection process.
- Button pos. 1 is designed to:
  - turn ventilation mode on and off;
- Button pos. 2 is designed to turn on the heater in heating mode (for an unlimited time) and turn off the heater.
- The regulator pos.5 is intended for:
  - regulation of the rotation speed of the fan in ventilation mode
  - regulation of the heat output from the heater from "min" to "max" of kW in heating mode.

### Functions os operating mode

With the "Heat" control mode selected, the heater operates continuously at the selected heat output. When a comfortable temperature is reached, we recommend reducing the effect, ventilating the room or turning off the heater.

**Do not turn off power to the heater until the cleaning cycle is complete.**

### Error messages

Errors that occur during operation of the Euroheater are coded and displayed automatically on the control panel by flashing the red LED in pos. 4 (with pause). To reset error message, press any key.

### **NOTE THE FOLLOWING!**

**Maintenance and repair must only be carried out by trained, qualified personnel!**

The user can correct the following errors (Table 1).

For all other malfunctions (table 2) or if the user cannot correct the fault, contact a service center.

Table 1

**Tabell 1**

<b>Number of flashes</b>	<b>Error message</b>	<b>Comments Troubleshooting</b>
1	Heat exchanger overheating	Check the heater's inlet and outlet pipes for free inflow and outflow of heated air.
2	Alle forsøk på å starte mislyktes	Check the fuel supply (check the fuel hose). Check the combustion air supply system and the gas exhaust pipe.
3	The burner stops during operation	Check the fuel supply (check the fuel hose). Check the combustion air supply system and the gas exhaust pipe.
8	No communication between control panel and control unit	Check connection wires and connectors. Control panel does not receive data from control unit.
9	Shutdown due to overvoltage	Check the battery, voltage regulator and power supply wiring. The voltage on the power connector should not be higher than 16 V.
	Shutdown due to undervoltage	Check the battery, voltage regulator and power supply wiring. The voltage on the power connector should not be lower than 10 V.
10	The ventilation time has been exceeded	Check the air intake and exhaust pipe. Remove foreign objects if it is clogged.
12	Overheating in the control unit area. Overheating via flame detector	Check the heater's inlet and outlet pipes for free inflow and outflow of air. Check the combustion air supply system and the gas exhaust pipe. Repeat the start procedure for heater cooling.

**\* Note the following!\*** If the "Overheating" error appears three consecutive times during start-up or operation of the heater, it will be locked. The lockout is activated due to overheating, regardless of which sensor detected the errors. When locking, the control panel's LED will flash 16 times. Contact a service center to unlock the heater.

**Table 2**

<b>Number of flashes</b>	<b>Description of malfunctions</b>
4	Glow plug fault
5	Flame detector failure
6	Error on the control unit's integrated temperature sensor
7	Fuel pump fault
11	Faulty air blower. The fan speed is lower than specified.
	The motor does not rotate.
	The motor rotates uncontrollably.
17	Internal Temperature sensor circuit broken on the heat exchanger