Settings and troubleshooting

AX, AD and AR gas heaters are equipped in series with a new control board :

- It informs on the unit's state : Stop, ventilation, burner ON,

maxi or mini power, error.

- It is possible to adjust some setting values such the

ventilation and the combustion, depending on the needs

(must be realized by qualified person trained to the product specifications.)



How works the 2-stages power modulation ?

If the blowing temperature exceeds the value of the maximum power temperature (65°C factory setup), the heater goes to low power.

The heater goes back to high power within two conditions :

- If the temperature of the fumes in low power is under 90°C the heater goes automatically to high power to avoid any condensation issues into the first heat exchanger.
- If the blowing temperature is lower than the maximum power temperature with a differential of 5°C (= 60°C factory setup)

For condensing gas heater, condensation is made only into the second heat exchanger (condensing heat exchanger).

Temperatures into the 1st heat exchanger change between 90-160°C, in the 2nd between 45-55°C. It is why the condensing heater is a full condensing unit, in low and high power.

How do I adjust the ventilation?

There are two ways to start the fan on new gas heater:

- Delay time: whatever the temperature, the fan starts X seconds after the ignition of the burner and will stop

when the burner stops. Factory setting : 60 seconds

- Blowing temperature : the fan starts depending on the setting value. Factory setting : 45°C

How do I adjust the combustion?

At startup, the exhaust fan goes to the value defined in the setup "Exhaust fan start speed". Once the burner is ignited, the exhaust fan adapts its speed depending on the depression read by the air sensor. If the air pressure is too high, the exhaust fan decrease its speed. If the air pressure is too low, the exhaust fan raise its speed. There are 2 setup values :

- High power value Factory setting : 160 Pa
- Low power value Factory setting : 60Pa

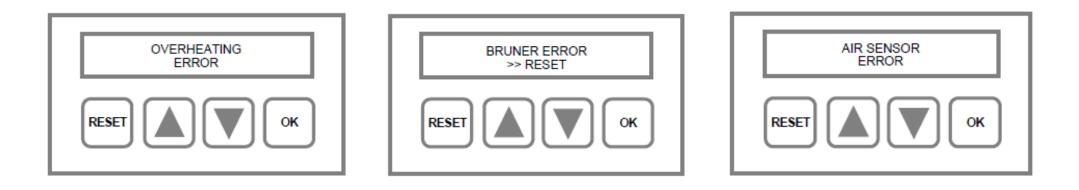
If the exhaust fan cannot reach the pressure in high power, the burner will switch automatically to low power. If the air pressure is lower than 15% of the pressure in low power, the burner will go into error for air lack. All along the operation, the exhaust fan will adapt its speed to the setting value depending on the power.

 \rightarrow Benefits: self adaptation of the unit whatever the losses of the chimney.

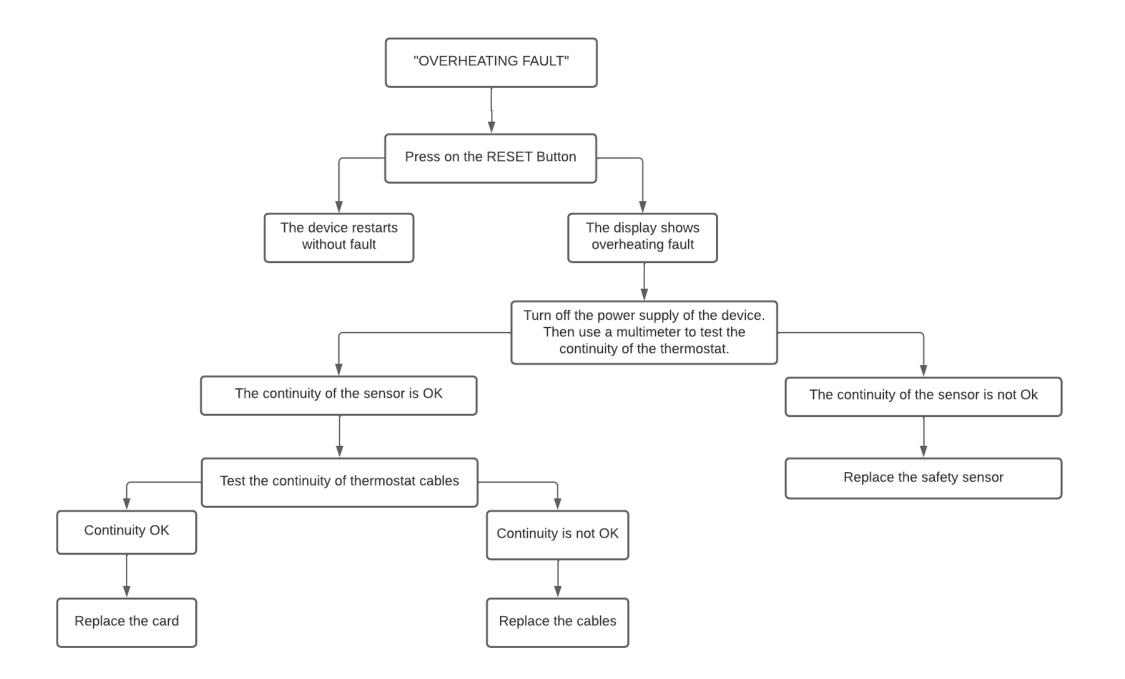
The control board detects automatically the errors of the systems. It helps the technical service to identify quickly why

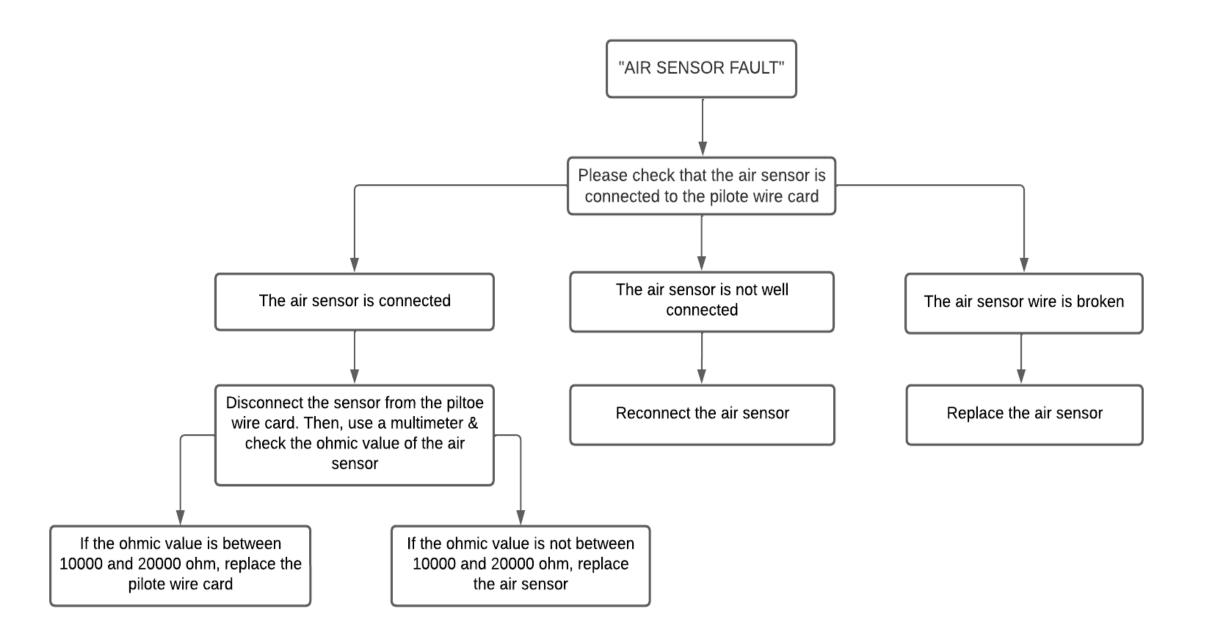
the unit is not working. Here is the list of the different errors given by the control board: Phase/Neutral inversion /

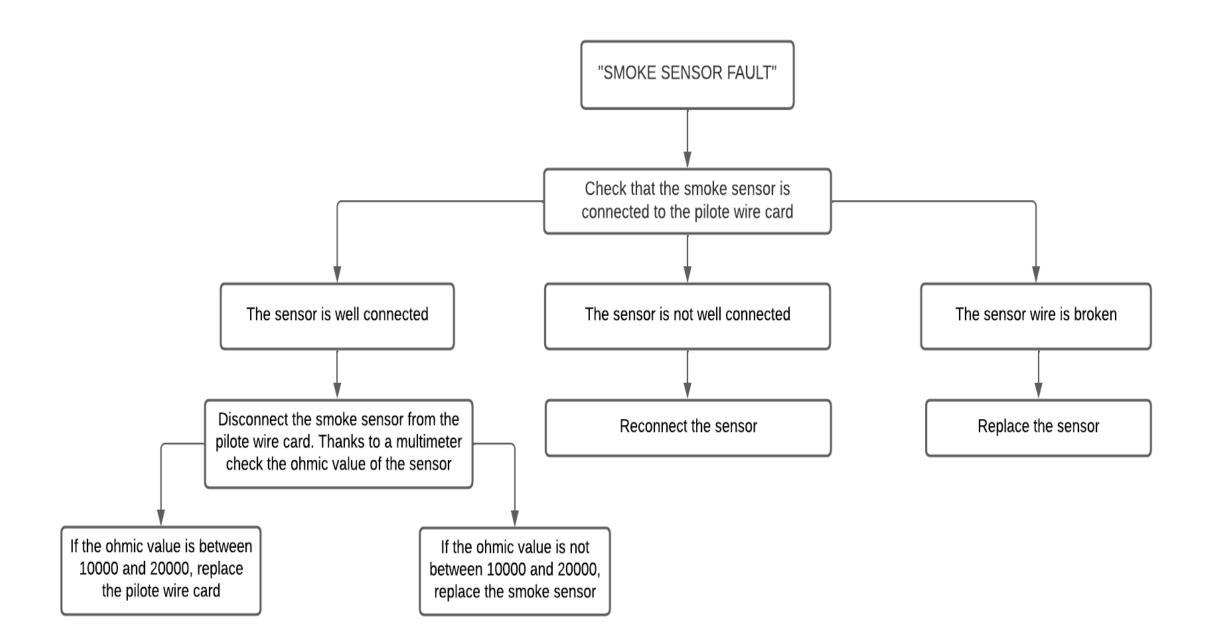
Overheating / Air pressure sensor error / Fume sensor error / Condensate error / Exhaust fan error / System error.

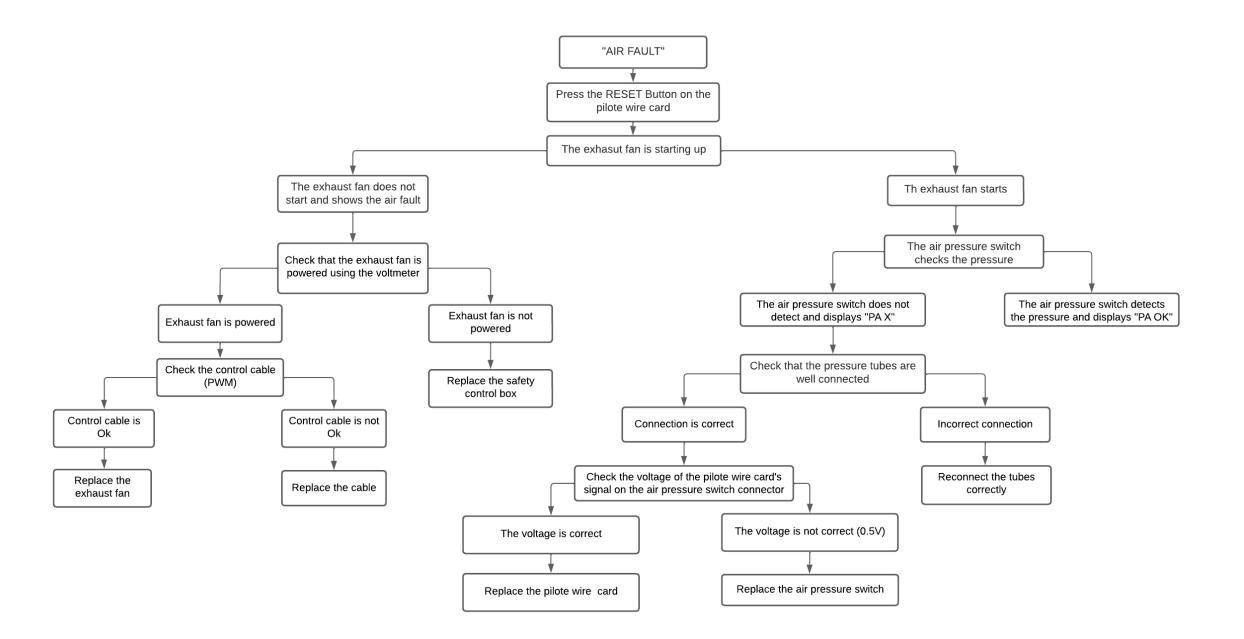


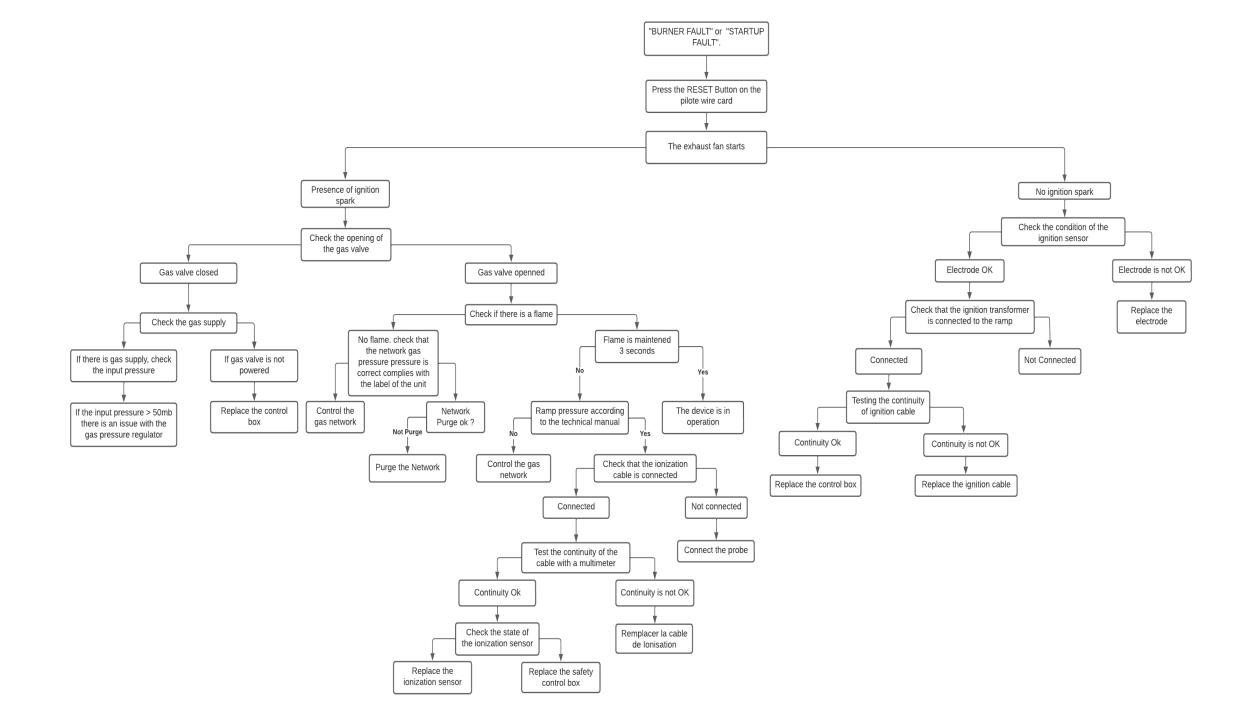
The power supply and gas supply must be cut before any intervention on the heater.











Thank you for your attention