



# The Little Handbook

## Mini/Universal

# Potential errors and how to fix them

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## If fluid is missing in the expansion tank

- 1 Fill up the expansion tank, pull out approximately 0.5 meters of hose, and connect it to the return.
- 2 Test run to 90 degrees with the expansion tank cap closed.
- 3 In this way, a pressure builds up in the machine, which reveals any potential leaks.

## To bleed the system (e.g., after hose repair).

- 1 To bleed the hose, a hose nipple and approximately 1 meter of hose are needed.
- 2 Remove the cap from the expansion tank and fill the tank.
- 3 Connect the hose to the outgoing coupling and lead the open end of the hose to the expansion tank (If the machine has an air valve under the expansion tank, it needs to be opened to release any air before starting the pump.) The valve should always be closed when the pump is running.
- 4 Start the pump.
- 5 Now the fluid is pumped around, and the machine is filled and bled automatically. (If the circulation doesn't start, unroll the hose and bleed with the valve again.)

## Tips for startup in extreme cold

- 1 Hold down the start button for 30s at a time to force-heat the system, as very cold glycol becomes viscous and has difficulty circulating.
- 2 When more than one hose is to be used, it is recommended to heat up one hose at a time to allow the machine to circulate normally.

## The pump starts, but the heat indicator light does not turn on. (Black regulator)

- 1 Check that the quick coupling is securely in place.
- 2 Check the hose to ensure it doesn't have any kinks.
- 3 Check for dirt in the dirt filter.
- 4 If this doesn't solve the problem, adjust the flow switch (See instructions on the next page).

## The pump starts, but the heat indicator light does not turn on. (Older model with a red round display)

- 1 Check that the quick coupling is securely in place.
- 2 Check the hose to ensure it doesn't have any kinks.
- 3 Turn off the machine with the switch.
- 4 Remove the cap from the expansion tank.
- 5 Gently open the air valve under the expansion tank.
- 6 When fluid comes through, close the valve and start the pump (this may need to be done several times if there is a lot of air in the system).
- 7 If this doesn't solve the problem, adjust the flow switch (see instructions on the next page).

## The pump starts without you having to press start, or it does not stop after about 20 seconds when you disconnect the quick coupling.

- 1 Adjust the flow switch (See instructions on the next page).

# Annual inspection

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- 1 Perform a standard inspection and check the freezing point of the glycol; -25 to -30 °C is sufficient. Do not overdose the glycol.
- 2 Clean the filter and the expansion tank. Replace the glycol if necessary.

## if needed

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- 1 Loosen the two star screws slightly so that the brass pin still moves with a bit of resistance.
- 2 Disconnect the hose from the quick coupling.
- 3 Install the sensor so that the line is visible (Image 1).
- 4 Turn on the 2000 W power (The pump should not start).
- 5 Gently pull the brass pin until the pump starts and the heat indicator light turns on (Image 2).
- 6 Then gently push the pin back until the heat indicator light goes off. Push the pin back another 0.5-1 mm (Image 3).
- 7 Connect the hose to the quick coupling and press the start button. The heat indicator light should now turn on. Disconnect the quick coupling while the pump is running. The heat indicator light should turn off immediately, and after about 20 seconds, the pump should stop. Tighten the screws on the flow switch and try again.

Image 1



Image 2



Image 3

