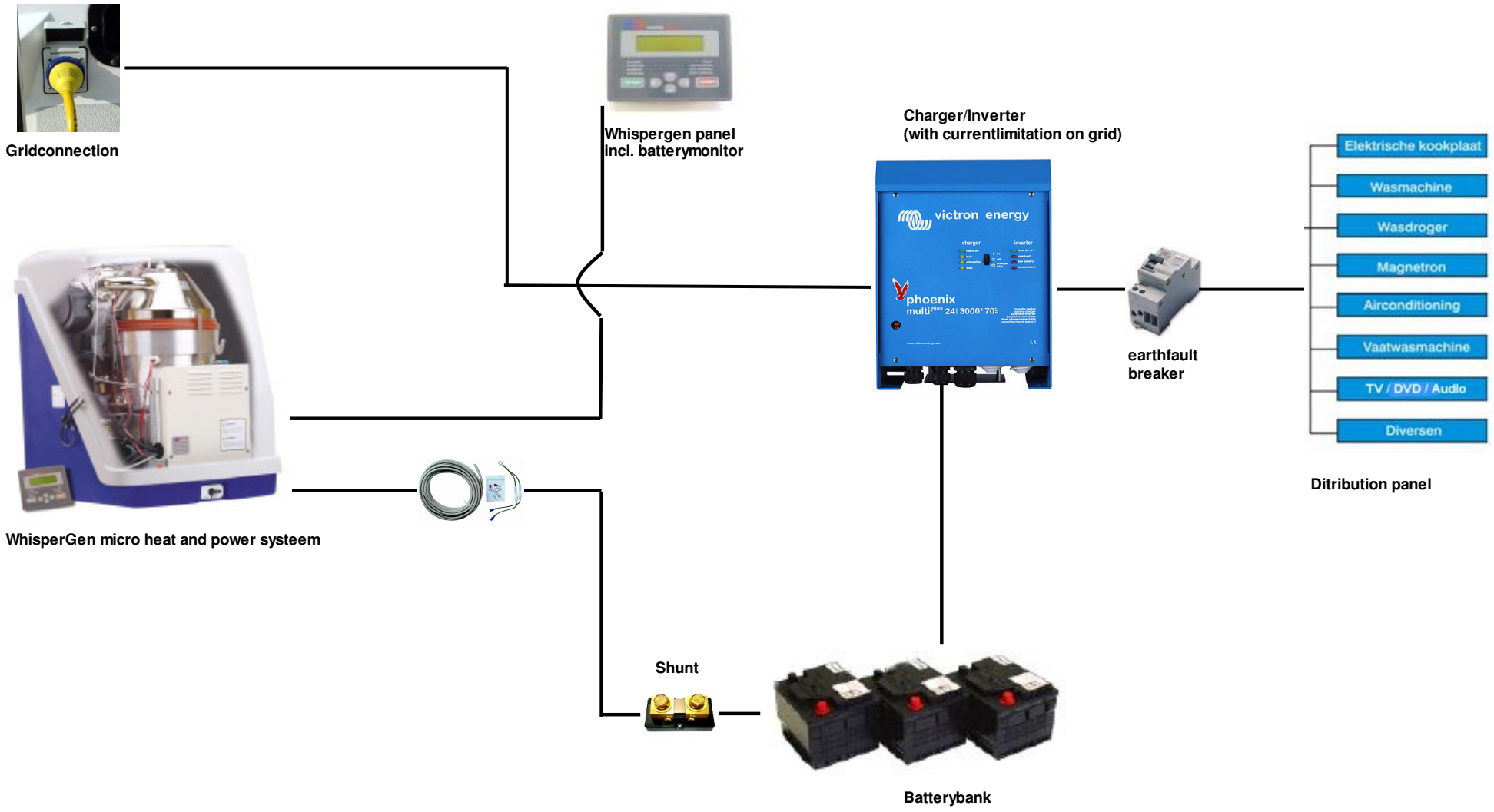


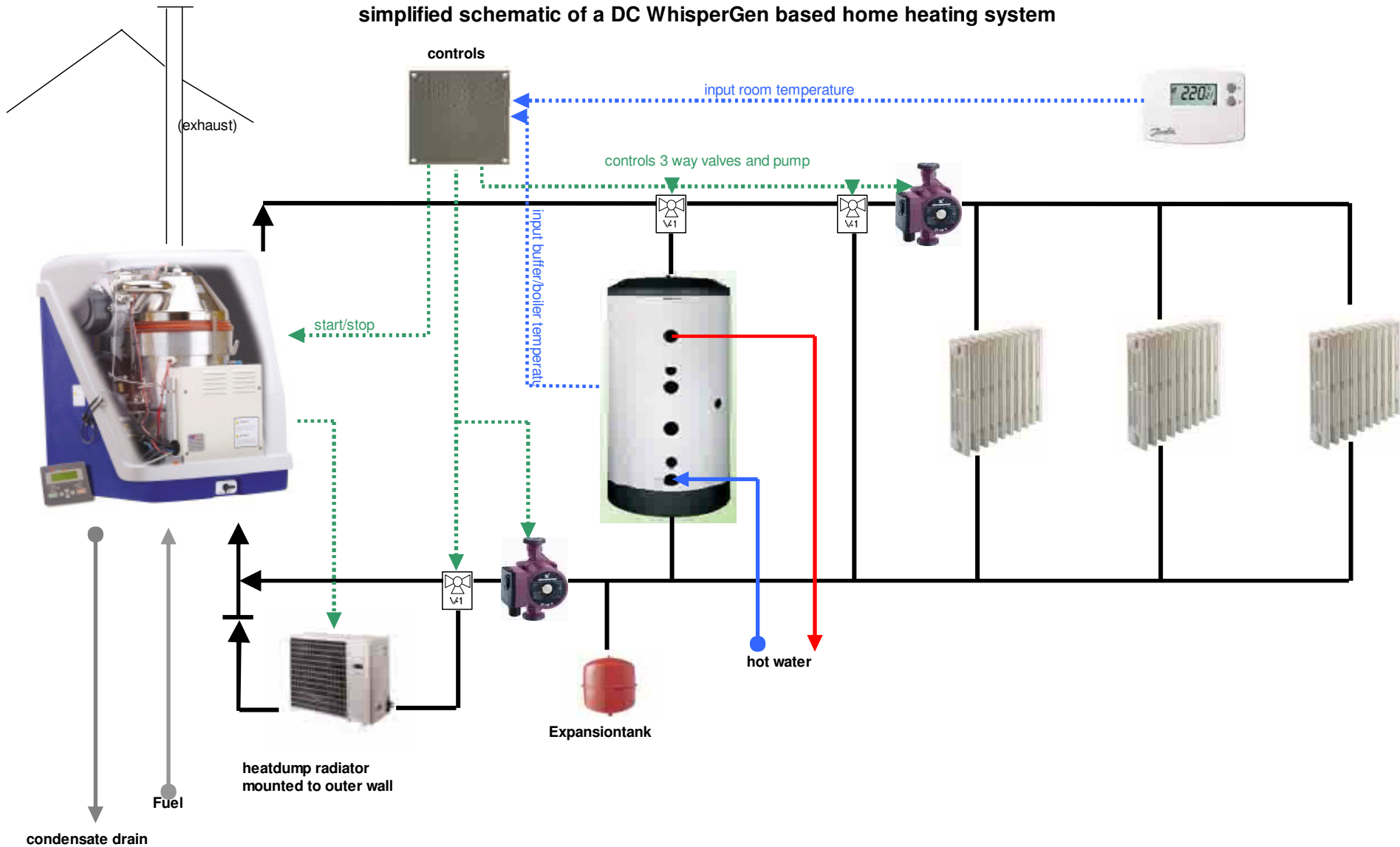
simplified schematic of a standard electrical home installation and/or ups system for an average house. (based on a DC WhisperGen)



Operation (electrical):

A combined batterycharger/inverter is the heart of the electrical system. This device can limit the gridcurrent to a minimum and has the ability to synchronise extra AC power from the batteries when needed. In this manner the electricity consumption from the grid will decrease significantly due to limited usage, while the WG keeps the batterybank in condition. Even when the grid fails there is still sufficient power from the batteries to power up the house (provided the batterybank is sized correctly / switchover in milliseconds, even a laptop computer will not notice it)

simplified schematic of a DC WhisperGen based home heating system



Operation (heating):

The system works briefly as follows, whispergen on heatmanage and autocharge. The WG heats up the buffertank with integrated boiler (380ltr buffer + 120 ltr boiler). The house is heated from the buffertank, as soon as the temp of the buffertank drops below the setpoint the WG will start to heat up the tank (and House) Hot water to be supplied from the integrated boiler.