

Factsheet Cowa COMPACT Cell 58

The compact solution for domestic hot water



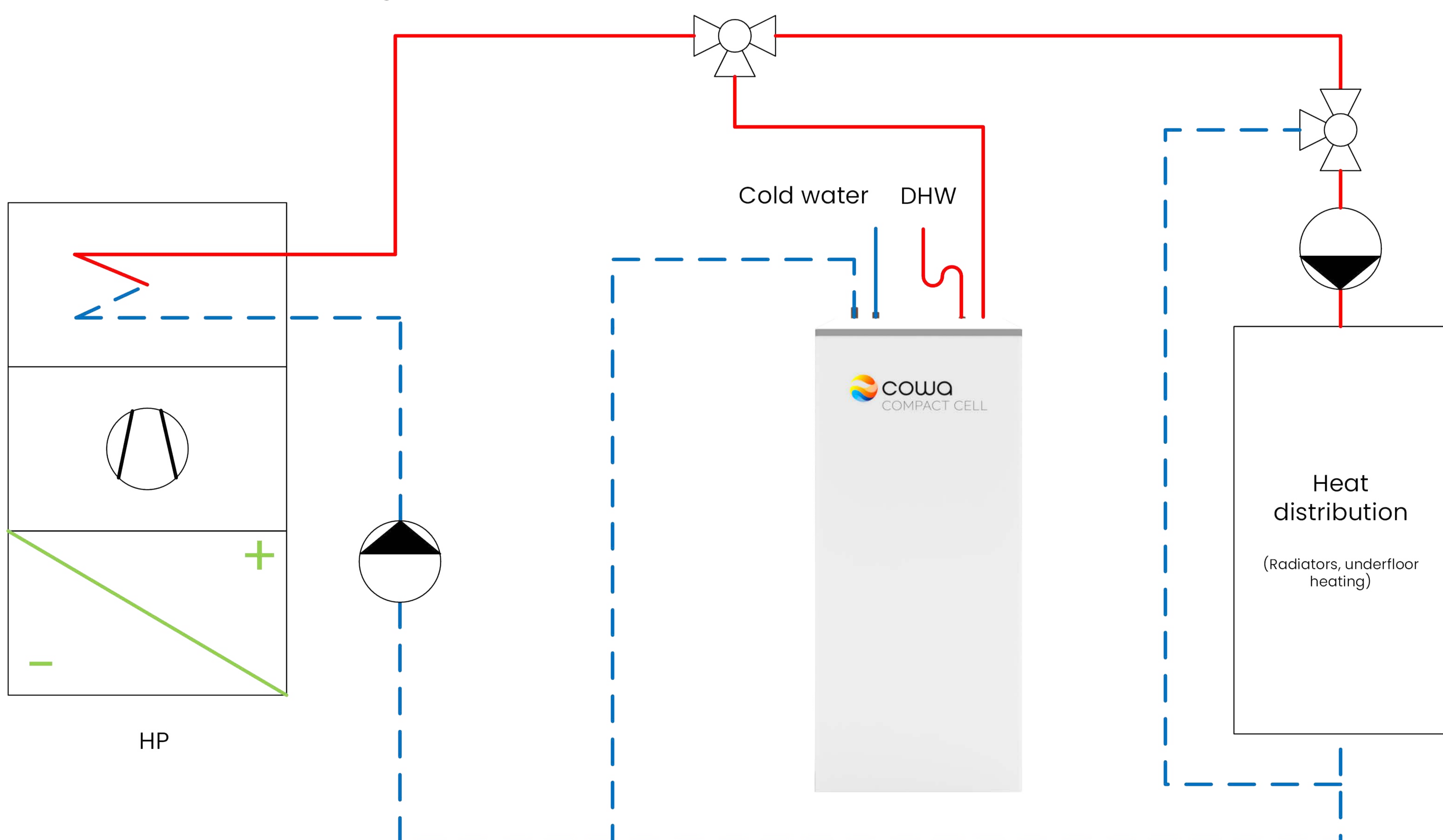
Cowa COMPACT Cell 58

Wide	600 mm
Deep	340 mm
Hight	1400 mm
Weight	260 kg
Storage capacity fully charged ¹	13 kWh
Dispensing volume V_{40}	400 L
Storage capacity per m ³	75 kWh/m ³
Preasure loss at max. volume flow	40 kPa
Possible water flow rate discharge circuit	20 L/min
Possible water flow rate charging circuit	30 L/min
Minimum operating pressure	1.5 Bar
Maximum operating pressure	8 Bar
Maximum operating temperature	75 °C

[1] Storage capacity calculated from state of charge > 65°C to temperature at outlet < 40°C.

Hydraulic integration

The Cowa COMPACT Cell 58 is connected hydraulically in the same way as a conventional hot water storage with register. The diagram corresponds to the HP system module diagram 1.2 (without buffer storage) and 1.6 (with additional buffer storage).



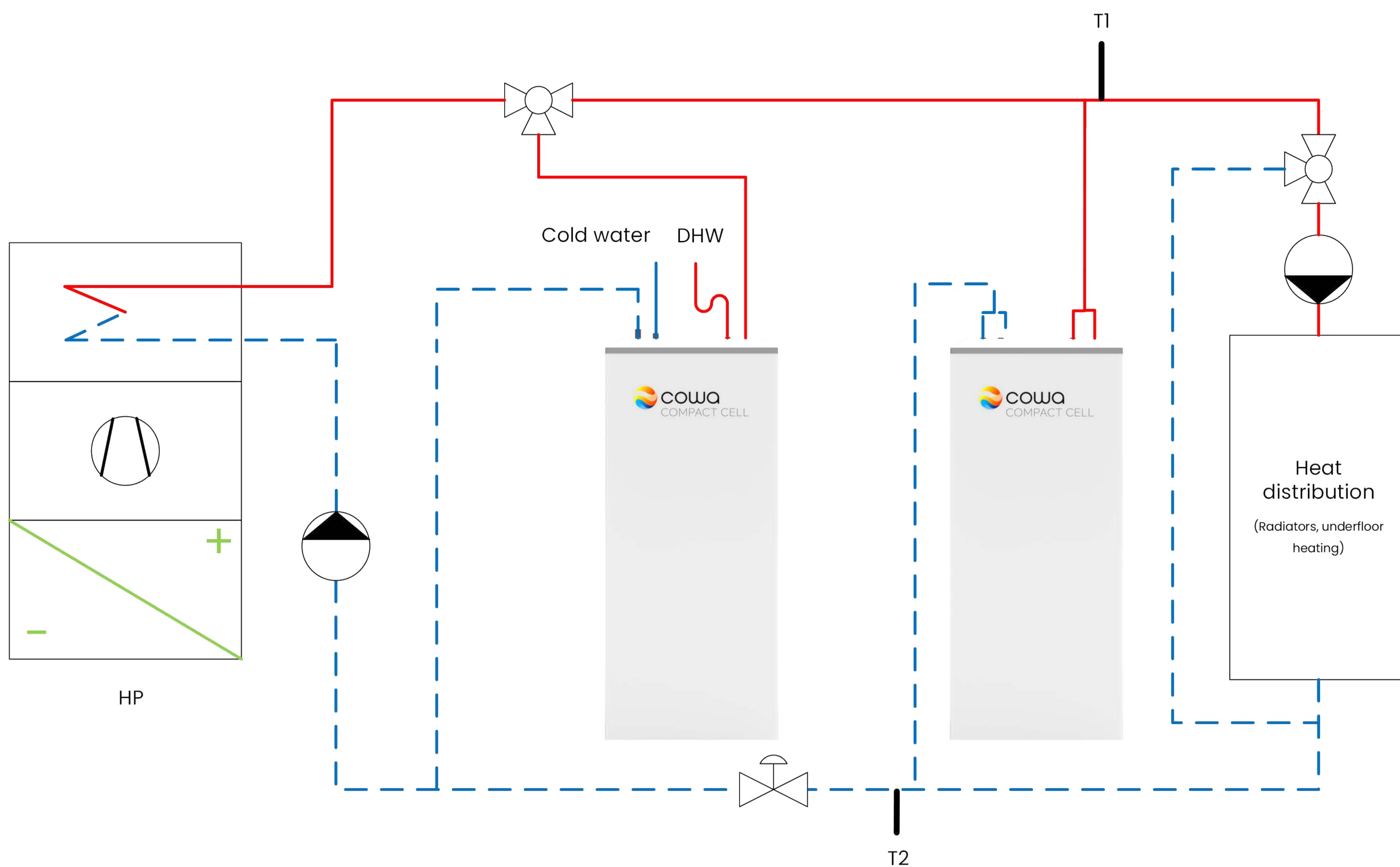


Figure 2: Hydraulic diagram of the Cowa COMPACT Cell 45 with COMPACT Cell 58 as a DHW storage (WPSM 1.6)

To monitor the charge status of the Cowa COMPACT Cell 58, a thermowell is pre-mounted at position E (see Figure 3) in which a temperature sensor of the heat pump can be positioned. The position and the respective heat pump settings for the threshold values are listed in Table 1.

In control mode, the Cowa COMPACT Cell 58 is charged through to the upper setpoint value by a domestic hot water charge. If the measured temperature falls below the lower value, the heat pump switches on to perform a new domestic hot water charge.

Table 1: Position and threshold value of the temperature sensors

Variation	Position (measured from the top edge of the Cowa COMPACT Cell \pm 5%)	Lower value	Upper value
a	500mm	50 °C	62 °C

Connecting the cold and hot water supply lines

The Cowa COMPACT Cell has four connections. A&D are used for charging the Cowa COMPACT Cell, B is connected to the hot water and C to the cold water. A thermowell is pre-assembled at position E so that temperature sensors can be used.

- A: Charging circuit inlet
- B: Hot water connection
- C: Cold water connection
- D: Charging circuit outlet
- E: Position for temperature sensor

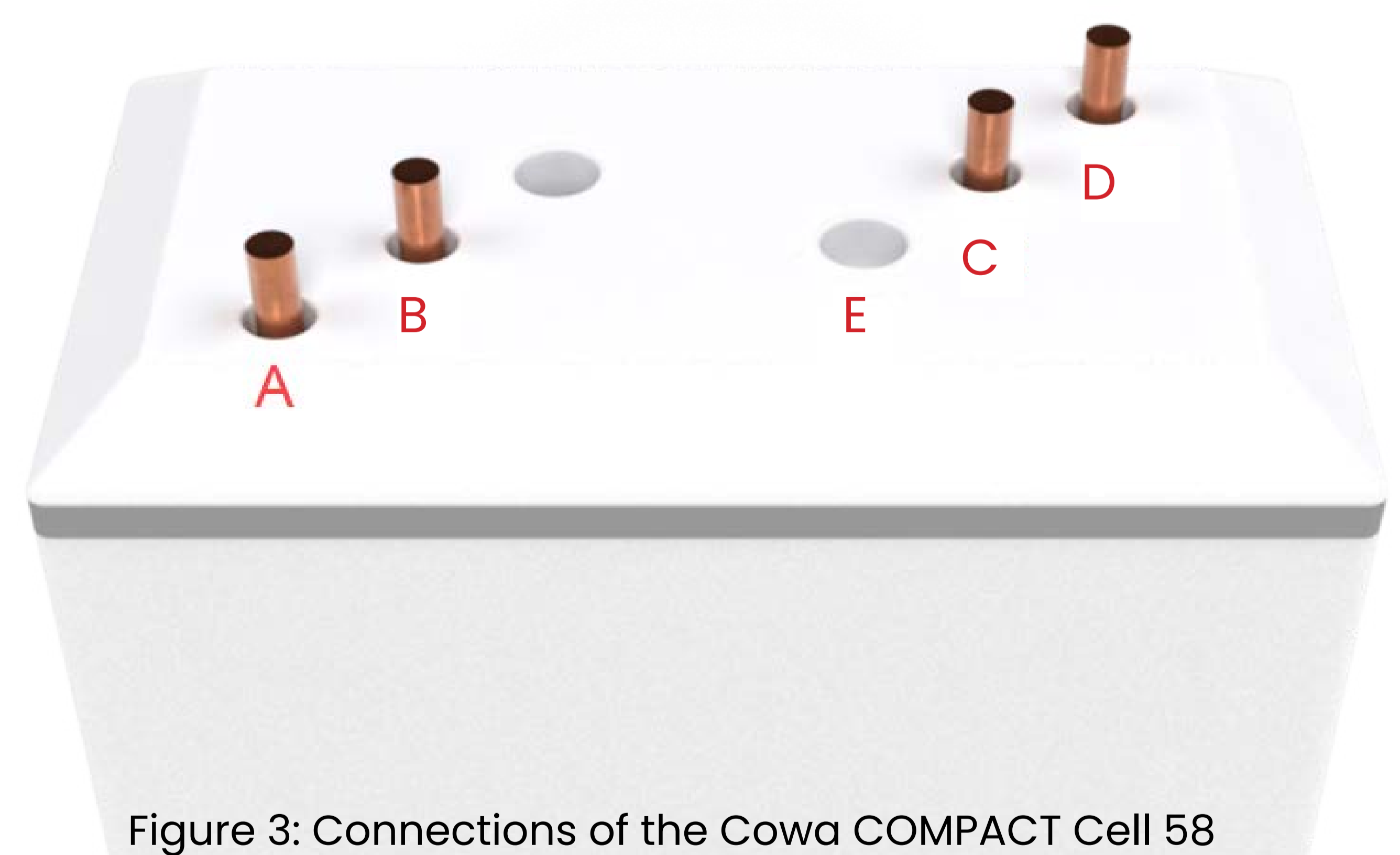


Figure 3: Connections of the Cowa COMPACT Cell 58

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