



SelfChill®

**Solar cooling systems meet user needs
through advanced software**

Solar Cold Room DC

PV Panels



Water chiller
=Ice storage



Consumer



- PV system provides electrical energy

- Several SelfChill Cooling Units serve the water chiller
- They convert electrical energy into thermal energy
- Ice is produced as energy storage with surplus solar energy

- Cold water (~2°C) is pumped to the cooling appliance, e.g. Cold Room

Solar Cold Room DC

Assembly Kit (600531)

20 m³ | 10 °C | 250 kg/day | 35 °C



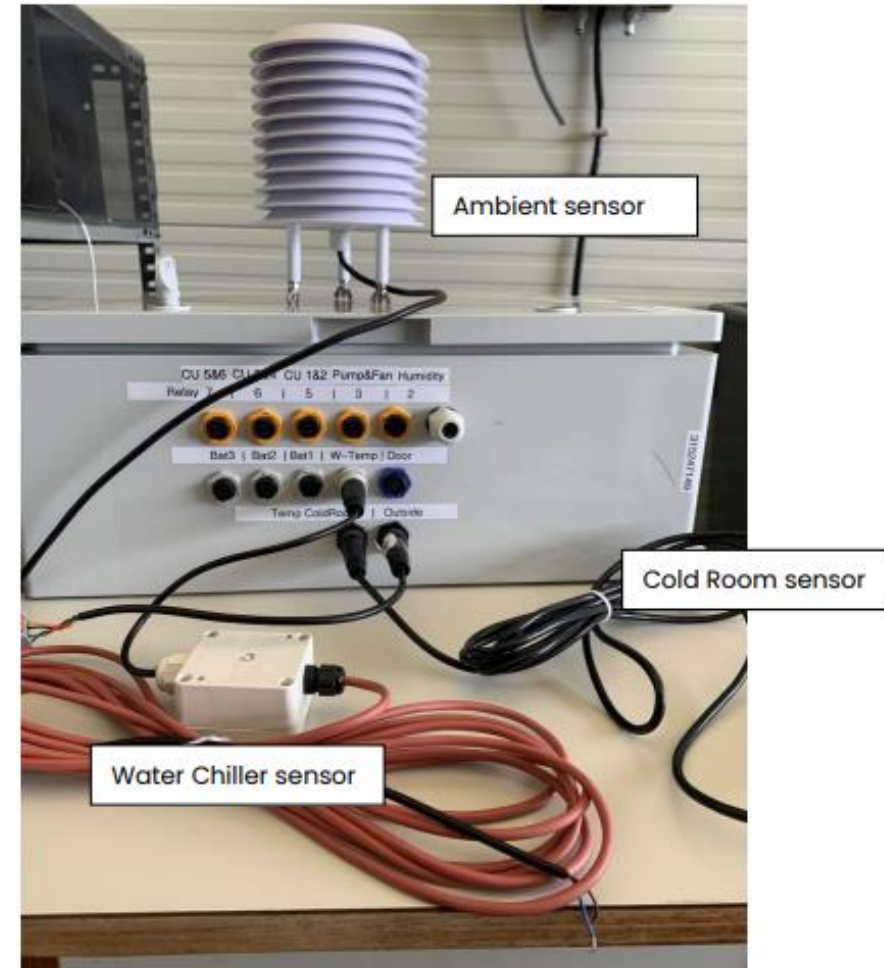
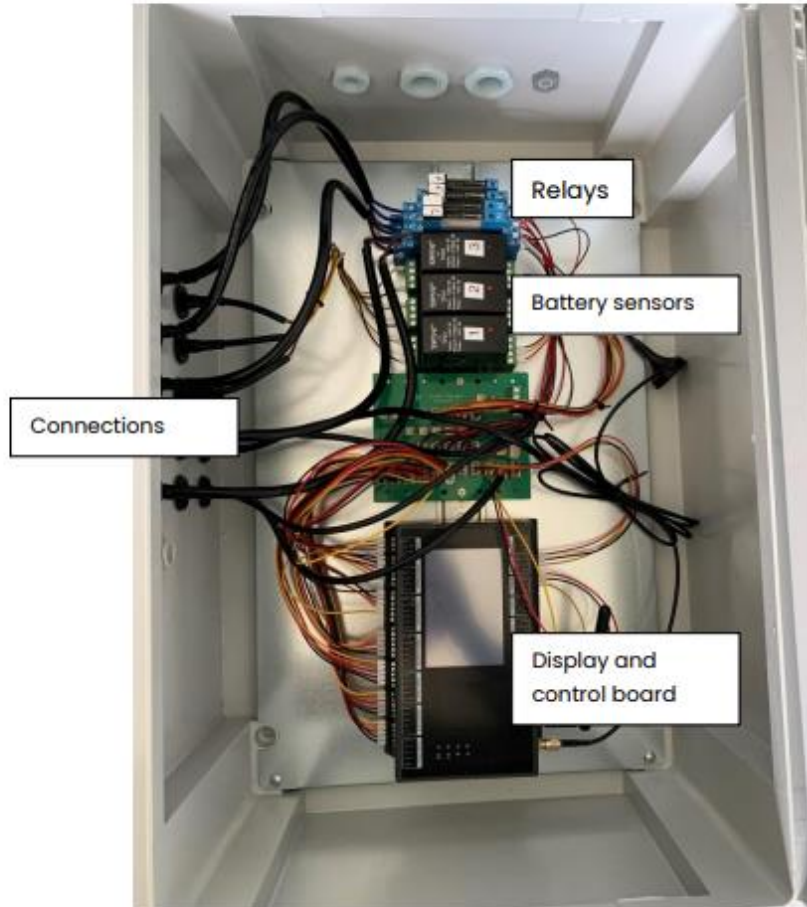
Field Example: Tamale/Ghana



Field Example: Tamale/Ghana



Remote Monitoring and Control



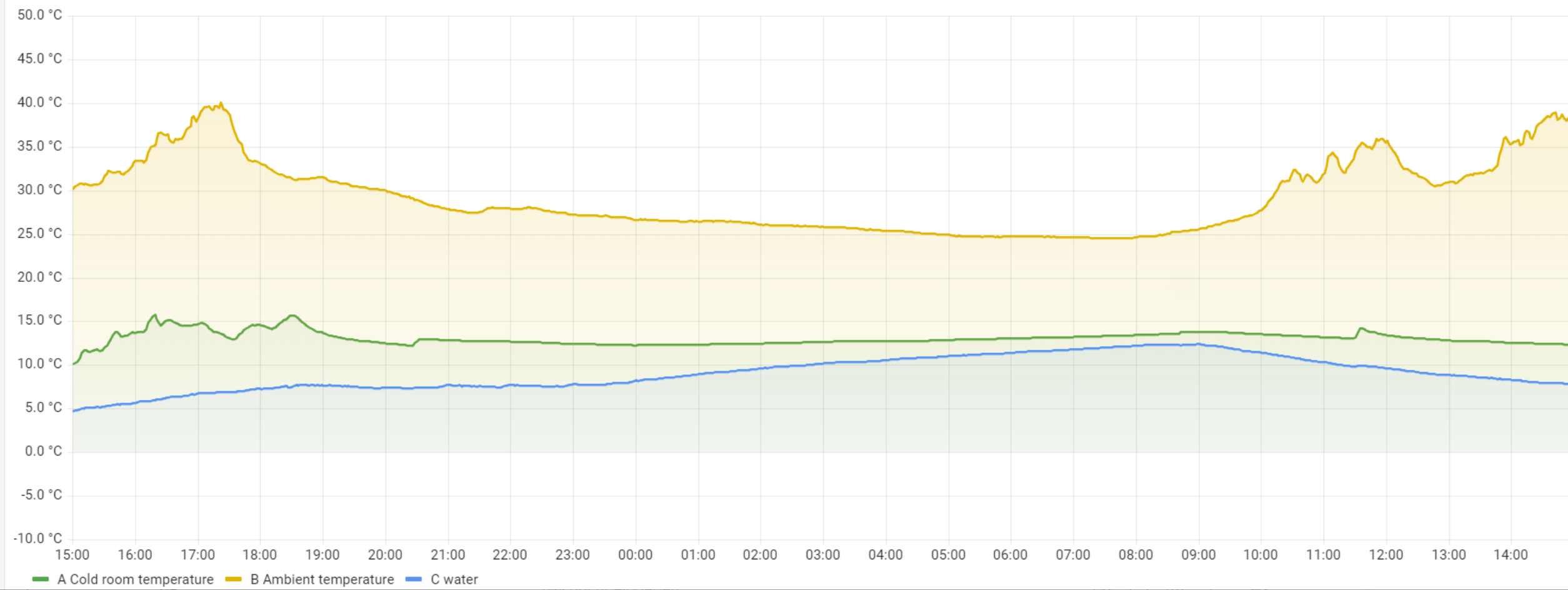
Remote Monitoring and Control



Installation Date:	
Comments:	
EcoPhi Device ID:	m315247211



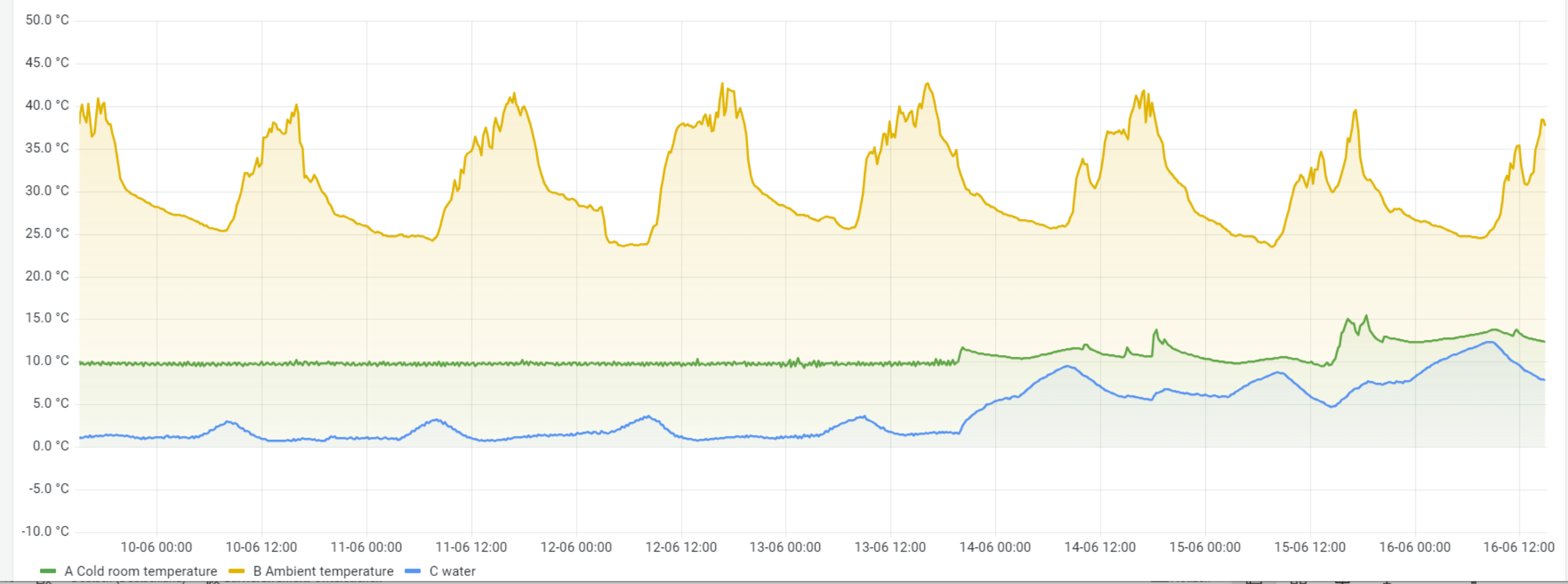
Temperature Overview



Installation Date:	
Comments:	
EcoPhi Device ID:	m315247211



Temperature Overview



Time range zoom out CTRL+Z

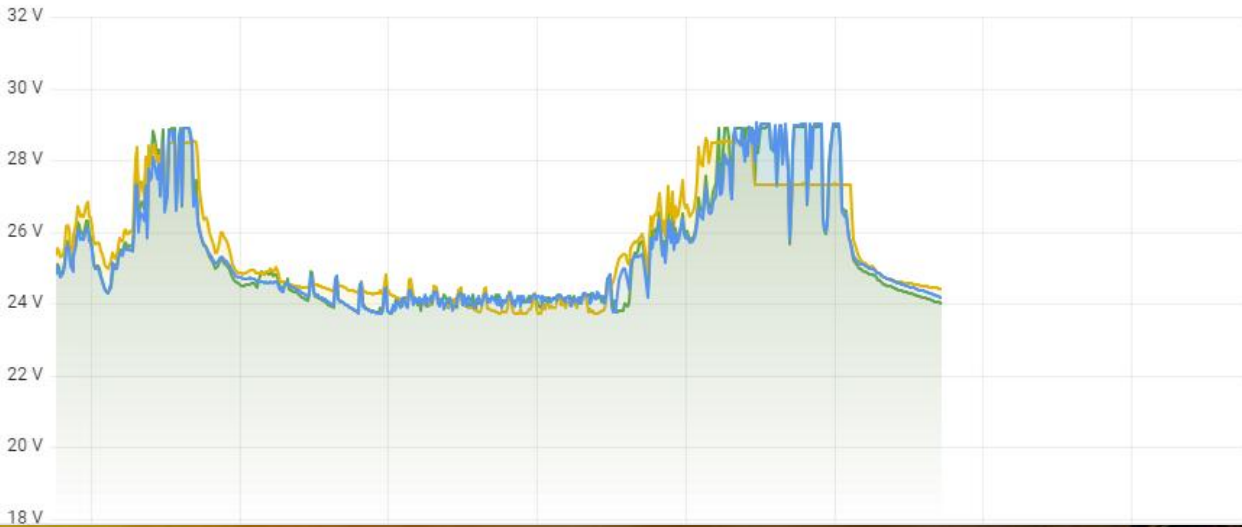
Ambient Temperature



Ambient Humidity



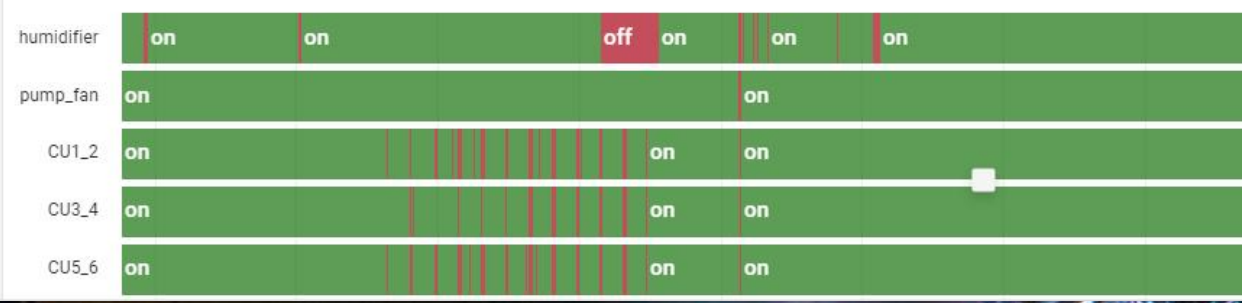
Battery Voltages



Door Status



Relays



Control

Cold Room

Select device:

BE Cool Ghana (m315247211) [dropdown]

Value1: coldroomtemp high
10.00

Value2: coldroomtemp low
10.00

Value3: humidity high
85.00

Value4: humidity low
80.00

Value5: watertemp high
-10.00

Value6: watertemp low
-10.00

Setting	New value
Cold Room temp high <i>i</i>	<input type="text"/>
Cold Room temp low <i>i</i>	<input type="text"/>
Humidity high <i>i</i>	<input type="text"/>
Humidity low <i>i</i>	<input type="text" value="info@selfchill.c"/>
Water temp high <i>i</i>	<input type="text"/>
Water temp low <i>i</i>	<input type="text"/>

Use "." instead of "," for decimal values!

PIN:

Submit

Water Chiller

Select device:

BE Cool Ghana (m315247211) [dropdown]

Setting	New value
U bat high <i>i</i>	<input type="text"/>
U bat low <i>i</i>	<input type="text"/>
U bat mid minutes <i>i</i>	<input type="text" value="info@selfchill.c"/>
Water temp min <i>i</i>	<input type="text"/>

Use "." instead of "," for decimal values!

PIN:

Submit

Value1: U batt high
23.70

Value2: U bat low
24.50

Value3: U bat mid minutes
50.00

Value4: water temp min
-3.00

Export data as CSV

Export the data for the selected time range in CSV format.

CSV column separator:

;
 ,

Decimal separator:

.
 ,

PIN:

(for demo: 0000)

Export

Take Picture

Select device:

BE Cool Ghana (m315247211) [dropdown]

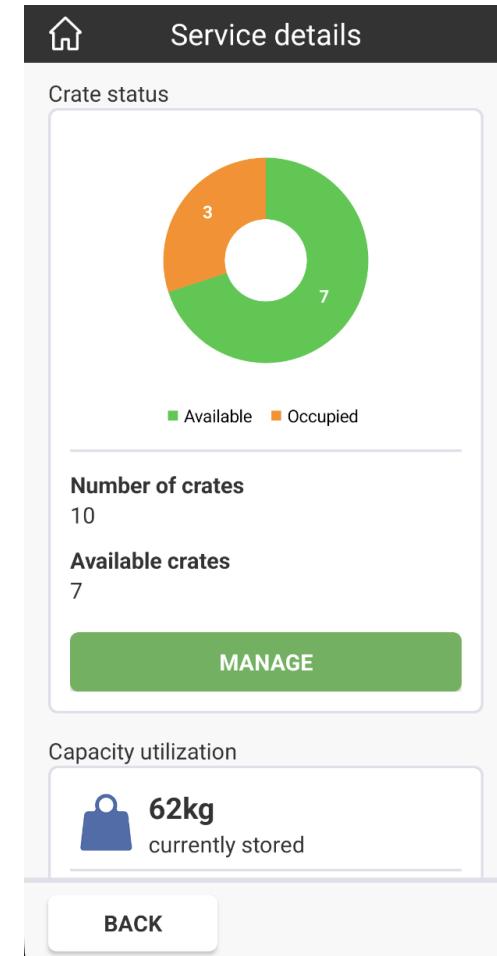
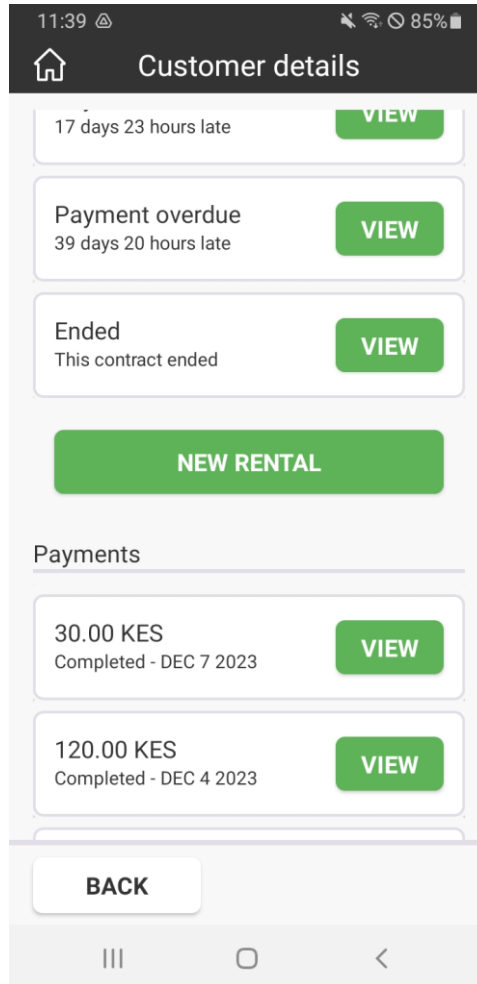
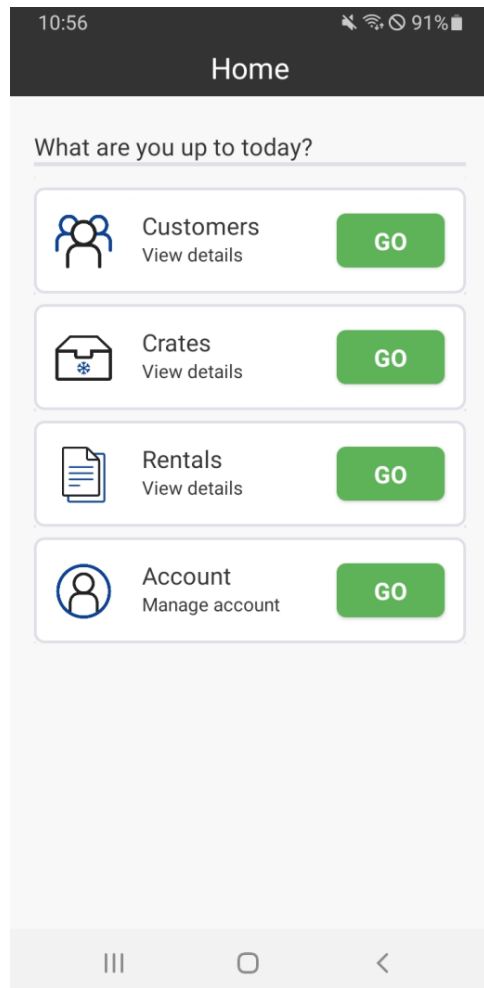
PIN:

Picture

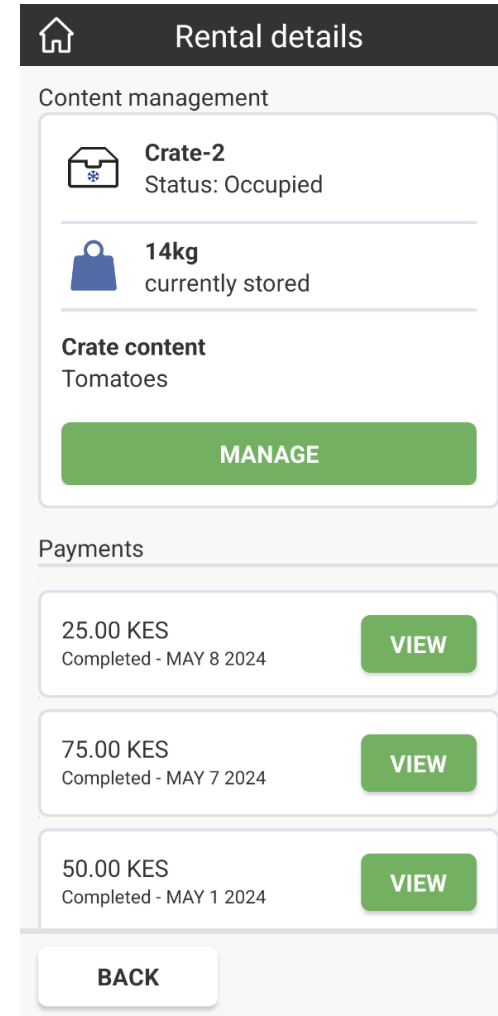
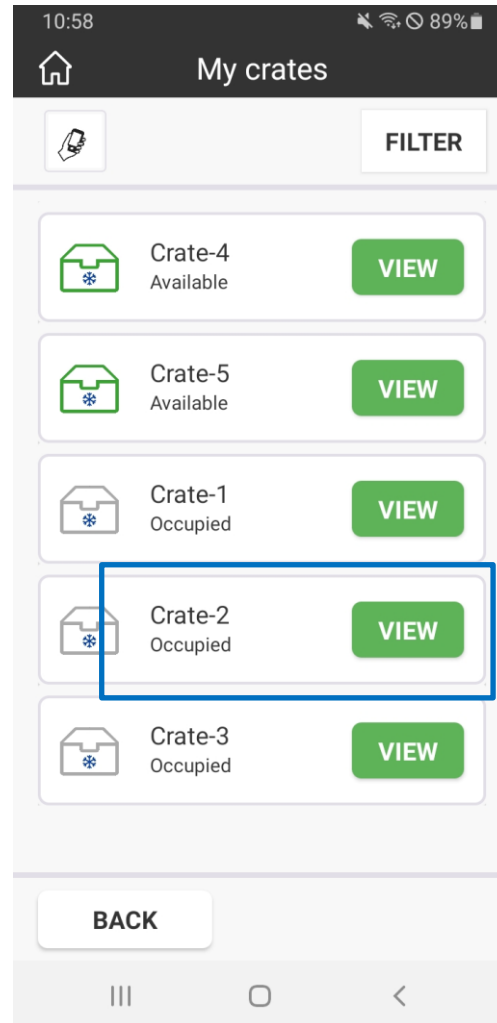
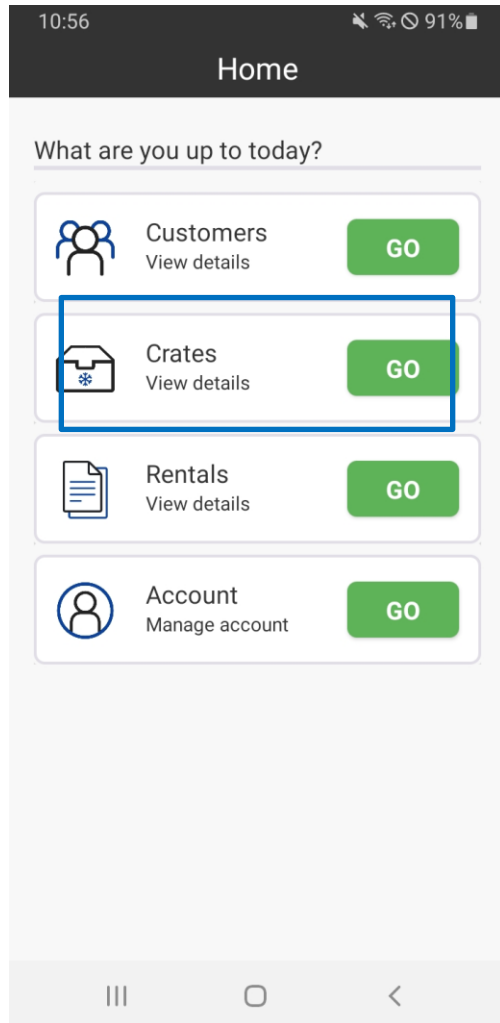
Field Example: Mbita, Kenya



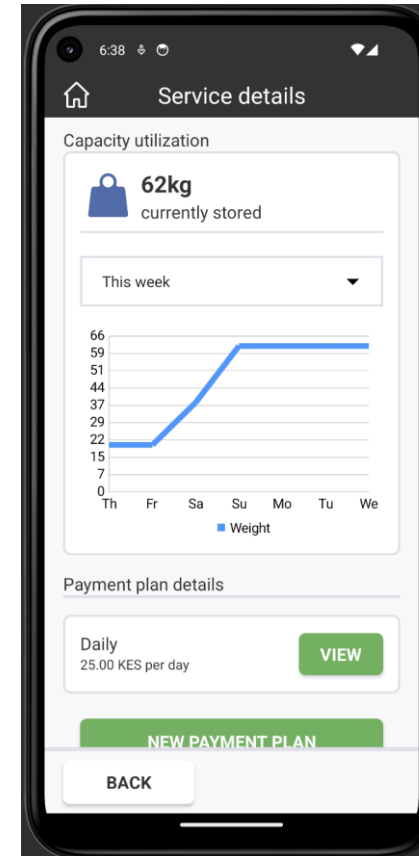
Cooling-as-a-Service App



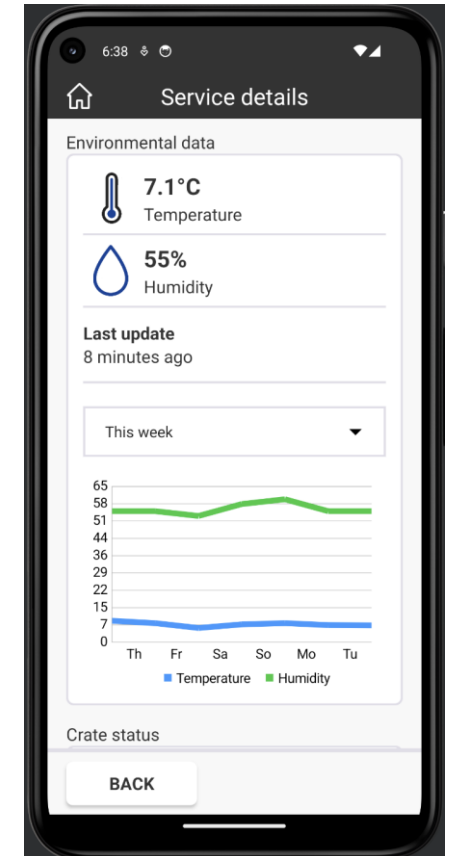
Cooling-as-a-Service App



Field Example: Mbita, Kenya



Cold room utilization



Cold room performance



Thank you!