



Software release,
2023-04-13
Compilation new functions

Software release 2023-04-13

CTC EcoHeat 400	CTC EcoZenith i255	CTC EcoZenith i360	CTC GSi 600	CTC EcoZenith i555	CTC EcoLogic M/L	CTC EcoLogic S	
X	X	X	X	X	X		<h3>Electricity prices</h3> <p>Updated logic for downloading electricity prices via myUplink.</p>
		X	X		X		<h3>Improved logic</h3> <p>Improved s/w logic for heat pump operation and heating circuit degree minutes calculation.</p>
X	X	X	X	X	X		<h3>Settings Heating circuit/Program</h3> <p>In the heating circuit program menus (Economy/Comfort/Custom), "Off delay, min" can now be set to "No" (factory setting).</p>  <p>Installer/Settings/Heating circuit/Heating circuit 1/Program</p>  <p>Installer/Settings/Heating circuit/Heating circuit 1/Program/Economy: "Off delay, min"</p> <ul style="list-style-type: none"> Off delay, min No (No/10...600) "No" means that the selected program will be active until another heating program is activated. If a time is set, the selected program will be active during the set time.
X	X	X	X	X	X	X	General improvements.

CTC EcoHeat 400	X	X	X	X	X	X
CTC EcoZenith i255	X	X	X	X	X	X
CTC EcoZenith i360	X	X	X	X	X	X
CTC GSi 600	X	X	X	X	X	X
CTC EcoZenith i555	X	X	X	X	X	X
CTC EcoLogic M/L	X	X	X	X	X	X
CTC EcoLogic S	X	X	X	X	X	X

Display settings



Menu "Installer/Display/Display setup"

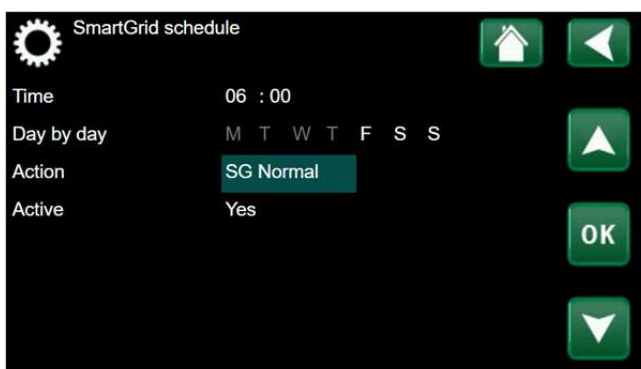
New in display menu:

- **Selection color**
Possible to change the selection background color for a better contrast to the screen background.

Ny bootloader 2.1

After this update, it is not possible to upload a software of an earlier date than 2023-03-01.

SmartGrid schedule

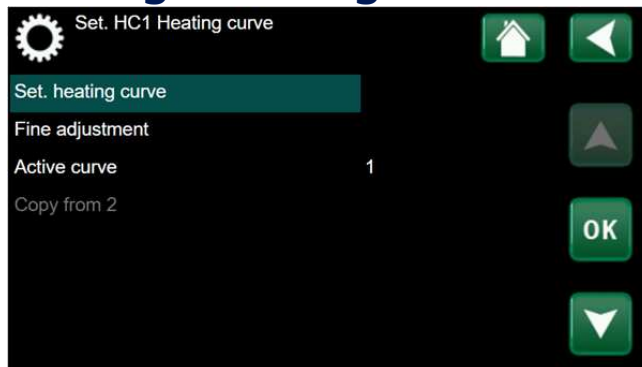


SmartGrid schedule (menu "Installer/Settings/ ") has an added setting:

- **SG Normal**
This mode makes it possible to schedule days/periods when you want to override the electricity price control and use the normal settings regardless of whether the electricity price is considered "high" or "low".

CTC EcoHeat 400	X
CTC EcoZenith i255	X
CTC EcoZenith i360	X
CTC GSi 600	X
CTC EcoZenith i555	X
CTC EcoLogic M/L	X
CTC EcoLogic S	X

Settings Heating curve



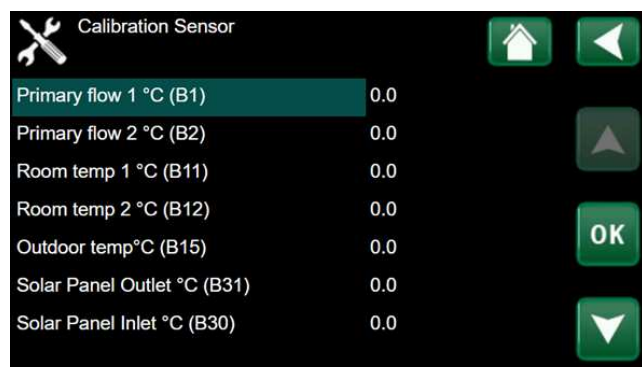
Menu "Installer/Settings/Heating system/Heating system 1/ Heating curve"

"Fine adjustment" has kept its name but has been moved below "Set heating curve" which was previously called "Reset".

Otherwise, the functions for each setting are unchanged. With "Set. heating curve", you set the house's curve inclination and curve adjustment. With "Fine adjustment", you can fine-tune your set heating curve.

X	X
X	X
X	X
X	

Calibration sensor

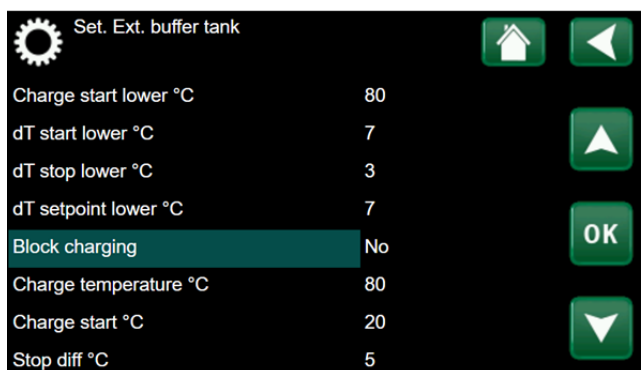


Menu "Installer/Service/Calibration sensor"

Calibration of sensors by setting an offset.

CTC EcoHeat 400	
CTC EcoZenith i255	
CTC EcoZenith i360	
CTC GSi 600	
CTC EcoZenith i555	X
CTC EcoLogic M/L	
CTC EcoLogic S	

Settings Ext. buffer tank



Menu "Installer/Settings/Ext. buffer tank"

New in display menu:

- **Block charging (No/Yes)**

Block charging = No -->

If the EcoZenith i555 lower tank:

- \geq temperature lower sensor external buffer (B42) + "dT lower ext °C" as well.
- \geq setpoint + "dT should be lower °C" starts charging to the external buffer tank without other triggers.

Charging stops when the EcoZenith i555 lower tank:

- \leq setpoint + "dT stop lower °C"
- \leq external buffer tank lower sensor + "dT start lower °C" - 3).

Block charging = Yes -->

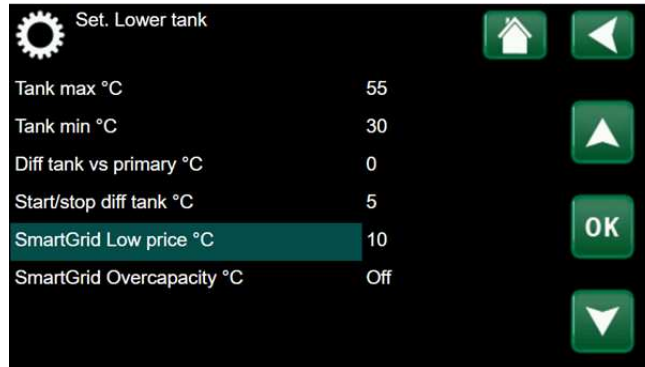
If the EcoZenith i555 lower tank:

$>$ setpoint + "dT stop lower °C" no charge to the buffer tank takes place unless "solar" or "wood" is active.

New for this software is that even SmartGrid "low price"/"overcapacity" can activate charging.

CTC EcoHeat 400	
CTC EcoZenith i255	
CTC EcoZenith i360	
CTC GSi 600	
CTC EcoZenith i555	X
CTC EcoLogic M/L	
CTC EcoLogic S	

Settings Lower tank



Menu "Installer/Settings/Lower tank"

New for this software release is that even SmartGrid "low price"/"overcapacity" can activate charging to an external buffer tank.

If the EcoZenith i555 lower tank:

- \geq previous setpoint* + "dT lower ext °C" as well.
- \geq setpoint + "dT should lower °C" starts charging to the external buffer tank.

Charging stops when the EcoZenith i555 lower tank:

- \leq setpoint + "dT stop lower °C".
- \leq external buffer tank lower sensor + "dT start lower °C" - 3).

*previous setpoint = The setpoint that was before SmartGrid "low price"/"overcapacity" was activated.

Example with factory-set values:

Lower tank 40(40) "Actual Value (Set Value)"

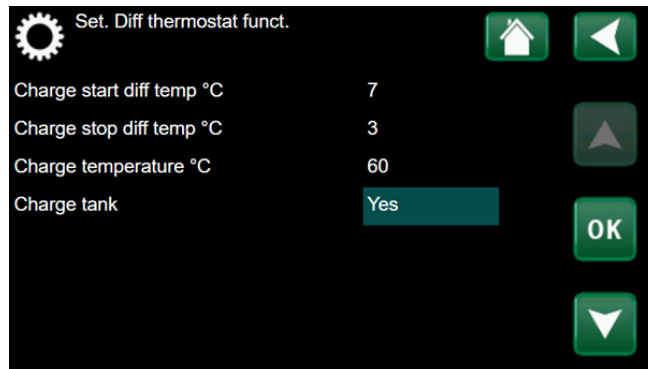
"low price" is set to '10' and when "low price" is activated, the new setpoint in the Lower tank becomes '40 + 10' (previous setpoint + increase at "low price")

When EcoZenith lower tank reaches 47(50) charging starts (previous setpoint +7 degrees).

When EcoZenith lower tank reaches 43(50) the charging stops (previous setpoint +3 degrees).

CTC EcoHeat 400	X
CTC EcoZenith i255	X
CTC EcoZenith i360	
CTC GSi 600	
CTC EcoZenith i555	
CTC EcoLogic M/L	
CTC EcoLogic S	

Settings Diff thermostat funct.



Menu "Installer/Settings/Diff thermostat funct."

New in display menu:

- **Charge tank (No/Yes)**

The charging starts when:

Charge tank = Yes

- "low price" or "overcapacity" = active
- Heat pump charges lower tank and lower tank is 5 degrees warmer than previous setpoint* and external tank is 5 degrees colder than previous setpoint*.

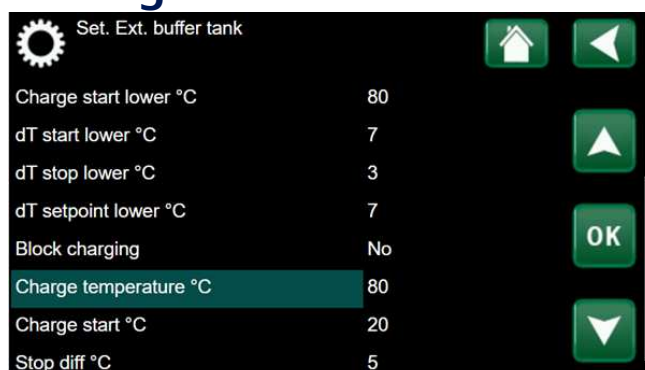
Charging continues until:

- Heat pump stops charging lower tank (the need to charge has disappeared).
- The temperature in the lower tank has dropped to the setpoint.
- "low price"/"overcapacity" has been turned off.

*previous setpoint = setpoint before "low price" or "overcapacity" was activated.

CTC EcoHeat 400							
CTC EcoZenith i255							
CTC EcoZenith i360							
CTC GSi 600							
CTC EcoZenith i555		X					
CTC EcoLogic M/L							
CTC EcoLogic S							
X	X						

Settings Ext. buffer tank



Menu "Installer/Settings/Ext. buffer tank"

New in display menu:

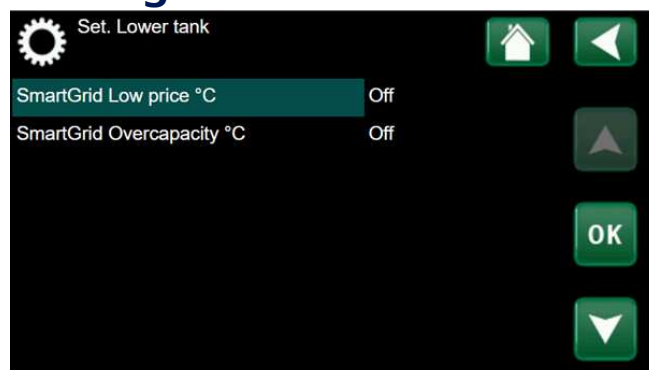
- **Charge temperature °C** 80 (10...80)
- **Charge start °C** 20 (20...90)
- **Stop diff °C** 5 (1...15)

Charge temperature °C = EcoZenith i555's highest temperature when recharging from buffer tank. If this temperature is exceeded in the EcoZenith upper or lower tank, recharging is interrupted.

Charge start °C = Starting conditions for the temperature in the buffer tank before recharging to the EZi555 can take place.

Stop diff °C = Number of degrees the temperature in the buffer tank is allowed to drop during "Charge start °C" before recharging is interrupted.

Settings Lower tank



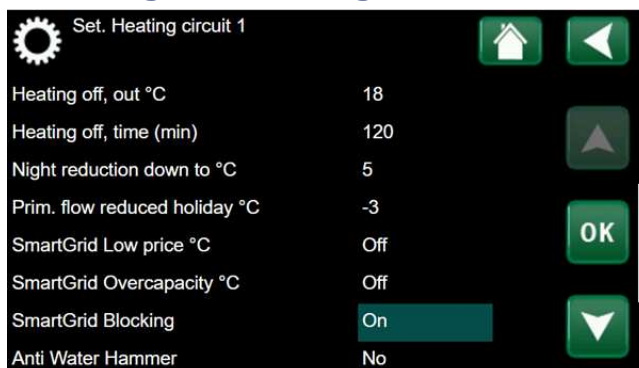
Menu "Installer/Settings/Lower tank"

Possibility to raise the lower tank temperature in case of "low price" and "overcapacity".

- **SmartGrid "low price" °C** Off(1...30)
- **Smartgrid "overcapacity" °C** Off(1...30)

CTC EcoHeat 400	X
CTC EcoZenith i255	X
CTC EcoZenith i360	X
CTC GSi 600	X
CTC EcoZenith i555	X
CTC EcoLogic M/L	X
CTC EcoLogic S	

Settings Heating circuit



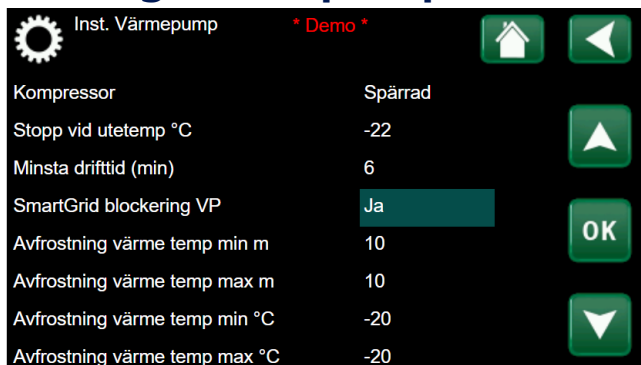
Menu "Installer/Settings/Heating circuit/Heating circuit x"

New in display menu:

- SmartGrid Blocking** **Off(Off/On)**
 If electricity is expensive, each heating system can be deactivated. If the outside temperature falls below "Night reduction down to °C", the function is not activated. This can be set for each heating circuit.

CTC EcoHeat 400						
CTC EcoZenith i255	X					
CTC EcoZenith i360	X					
CTC GSi 600						
CTC EcoZenith i555	X					
CTC EcoLogic M/L					X	
CTC EcoLogic S					X	

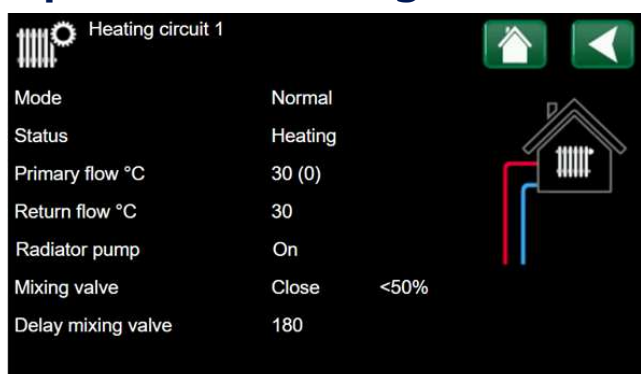
Settings Heat pump



Menu "Installer/Settings/Heat pump"

- SmartGrid Block HP** **Off(Off/On)**
 Addition to function: If the tank's temperature falls below the set "min temp", the function is not activated.

Operation Heating circuit



Operation info for Heating system 1 shows whether the shunt is in mode <50% or >=50%

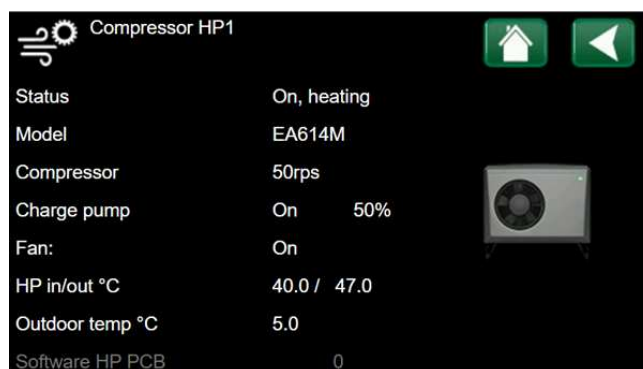
For EcoLogic M/L this applies in System 6.

CTC EcoHeat 400	X					
CTC EcoZenith i255	X					
CTC EcoZenith i360	X					
CTC GSi 600	X					
CTC EcoZenith i555						
CTC EcoLogic M/L						X
CTC EcoLogic S						X

Operation Heat pump

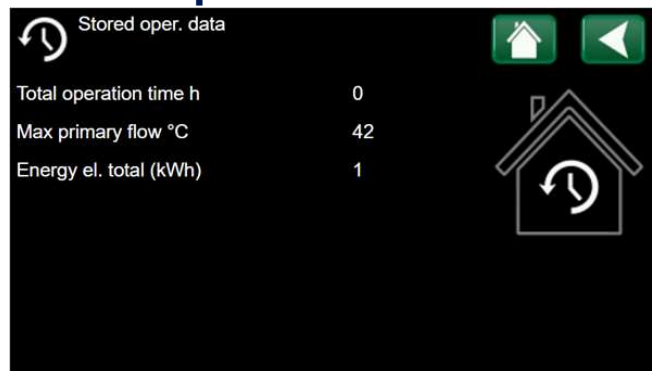


Status does not just indicate "On" or "Off".
Now it displays "On, Heating, DHW or Cooling"



The model designation shows which heat pump is installed.

Stored operation data



CTC EcoPart i6xxM shows "Energy el. total (kWh)" for the factory-mounted electric heater.

CTC EcoHeat 400	X
CTC EcoZenith i255	X
CTC EcoZenith i360	
CTC GSi 600	
CTC EcoZenith i555	
CTC EcoLogic M/L	
CTC EcoLogic S	

Settings Upper tank



Menu "Settings/Upper tank/Program DHW"

Possibility to make own settings for the "Economy", "Normal" and "Comfort" programs.

- **Stop temp HP °C** 59(40...59)
- **Boiler upper °C** 50(30...60)
- **Reset program** Return to factory-set values

Critical alarms



CTC EcoHeat 400	CTC EcoZenith i255	CTC EcoZenith i360	CTC GSi 600	CTC EcoZenith i555	CTC EcoLogic M/L	CTC EcoLogic S	
X	X	X	X	X	X	X	Added critical "freeze alarms" [E135], [E211], [E216] and [E217] can only be cleared with code '4005' (menu "Installer/Service/Coded settings/Code")
	X	X					Added critical "freeze alarm counters" will be cleared when 1 year without a critical alarm.
				X	X	X	Changed so that manual alarm reset is needed for alarm E135 (freeze risk temp) and E211 (freeze risk low flow) (same as for CTC EcoHeat 400, CTC EcoZenith i255/i360 and CTC GSi 600).
X	X	X	X	X	X	X	General improvements.



