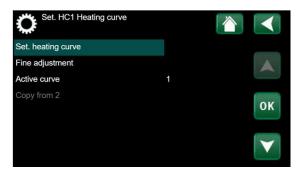
CR 00083 / 00689







Software release, 2023-04-13

Compilation new functions

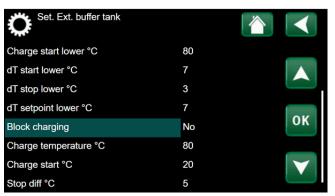
CTC EcoHeat 400	CTC EcoZenith i255	CTC EcoZenith i360	CTC GSi 600	CTC EcoZenith i555	CTC EcoLogic M/L	CTC EcoLogic S	Software release 2023-04-13
×	×	×	×	×	×		Electricity prices Updated logic for downloading electricity prices via myUplink.
		X	X		X		Improved logic Improved s/w logic for heat pump operation and heating circuit degree minutes calculation.
X	×	×	X	X	X		Settings Heating circuit/Program In the heating circuit program menus (Economy/Comfort/Custom), "Off delay, min" can now be set to "No" (factory setting). Installer/Settings/Heating circuit/Heating circuit 1/Program Set. HC1 Program economy Room temp change 'C Off delay, min SmartGrid Blocking Reset program OK Installer/Settings/Heating circuit/Heating circuit 1/Program/Economy: "Off delay, min" Off delay, min No (No/10600) "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.
×	×	×	×	×	×	×	General improvements.

Software release 2023-03-01 CTC EcoZenith i555 CTC EcoZenith i360 CTC EcoLogic M/L CTC EcoHeat 400 CTC EcoLogic CTC GSi 600 **Display settings** Sleep delay 120 Backlight 80% Click sound Yes Alarm sound Time zone, GMT +/-Lock code Font size Standard Selection color 0 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 Time 06:00 MTWTFSS Day by day SG Normal Action Active Yes 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	CTC EcoZenith i255	CTC EcoZenith i360	CTC GSi 600	CTC EcoZenith i555	CTC EcoLogic M/L	CTC EcoLogic S	
X	X	X	×	×	X	X	Set HC1 Heating curve Set. HC1 Heating curve Fine adjustment Active curve Copy from 2 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	×	×	×				Calibration sensor Calibration Sensor Primary flow 1 °C (B1) Primary flow 2 °C (B2) Room temp 1 °C (B11) Room temp 2 °C (B12) Outdoor temp °C (B15) Solar Panel Outlet °C (B30) Menu "Installer/Service/Calibration sensor" Calibration of sensors by setting an offset.

CTC EcoHeat 400
CTC EcoZenith i255
CTC EcoZenith i360
CTC GSi 600
X CTC EcoZenith i555
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:

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

Charging stops when the EcoZenith i555 lower tank:

- <= setpoint + "dT stop lower °C"</p>
- <= external buffer tank lower sensor + "dT start lower °C" - 3).

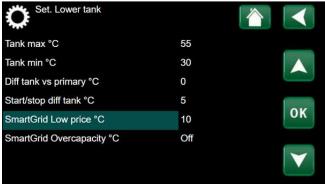
Block charging = Yes -->

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 EcoZenith i555 CTC EcoZenith i360 CTC EcoLogic M/L CTC EcoHeat 400 CTC EcoLogic S CTC EcoZenith **CTC GSi 600 Settings Lower tank** Set. Lower tank Tank max °C 55 Tank min °C 30 Diff tank vs primary °C 0 Start/stop diff tank °C 5 SmartGrid Low price °C 10 SmartGrid Overcapacity °C Off Menu "Installer/Settings/Lower tank" tank. If the EcoZenith i555 lower tank: external buffer tank. <= setpoint + "dT stop lower °C". 3). price"/"overcapacity" was activated. Example with factory-set values: Lower tank 40(40) "Actual Value (Set Value)" increase at "low price") setpoint +7 degrees). (previous setpoint +3 degrees).



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

- >= previous setpoint* + "dT lower ext °C" as well.
- >= setpoint + "dT should lower °C" starts charging to the

Charging stops when the EcoZenith i555 lower tank:

- <= external buffer tank lower sensor + "dT start lower °C" -

*previous setpoint = The setpoint that was before SmartGrid "low

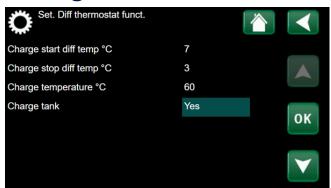
"low price" is set to '10' and when "low price" is activated, the new setpoint in the Lower tank becomes '40 + 10' (previous setpoint +

When EcoZenith lower tank reaches 47(50) charging starts (previous

When EcoZenith lower tank reaches 43(50) the charging stops

\times	X CTC EcoHeat 400
X	X CTC EcoZenith i255
	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:

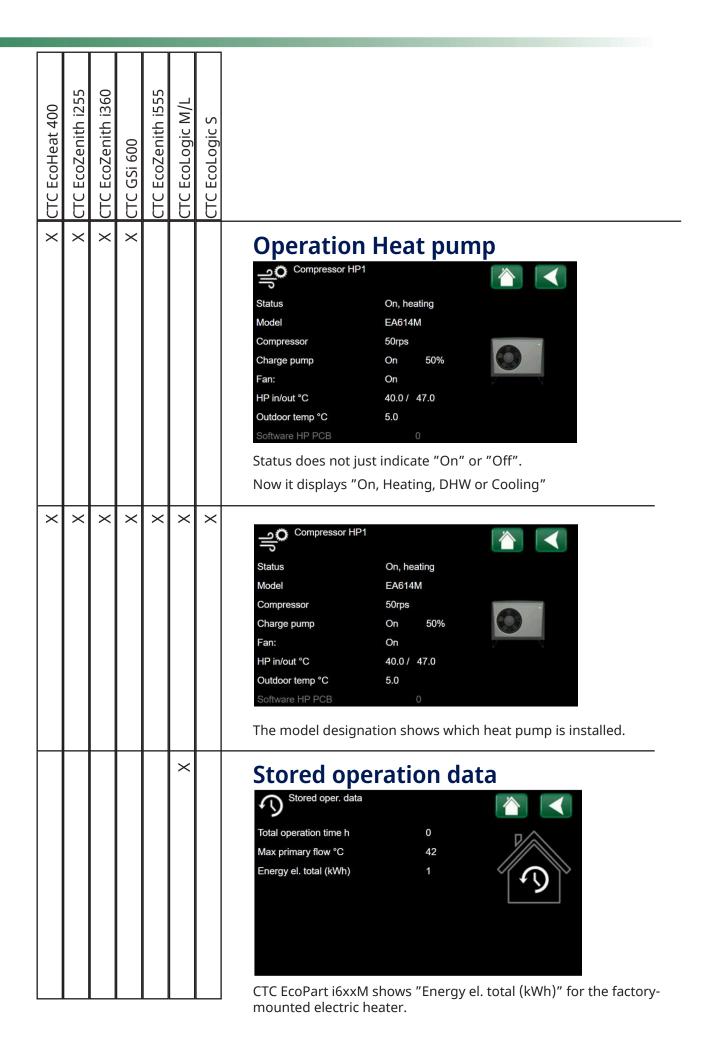
- Heat pump stops charging lower tank (the need to charge has disappeared).
- The temperature in the lower tank has dropped to the setpoint.
- "low price"/"overcapacity" has been turned off.

^{*}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	CTC EcoLogic M/L	CTC EcoLogic S		
				X			Settings Ext. buffer to Charge start lower °C 80 dT start lower °C 7 dT stop lower °C 7 Block charging No Charge temperature °C 80 Charge start °C 20 Stop diff °C 5 Menu "Installer/Settings/Ext. buffer to Charge temperature °C • Charge temperature °C • Charge temperature °C • Charge start °C • Stop diff °C Charge temperature °C • Charge temperature °C • Charge start °C • Stop diff °C Charge temperature °C = EcoZenith when recharging from buffer tank. If in the EcoZenith upper or lower tank, Charge start °C = Starting conditions buffer tank before recharging to the lower tank is allowed to drop during "Charge is interrupted.	80 (1080) 20 (2090) 5 (115) i555's highest temperature this temperature is exceeded recharging is interrupted. s for the temperature in the EZi555 can take place.
×	×						Settings Lower tank Set. Lower tank SmartGrid Low price °C Off SmartGrid Overcapacity °C Off Menu "Installer/Settings/Lower tank' Possibility to raise the lower tank temprice" and "overcapacity". SmartGrid "low price" °C Smartgrid "overcapacity" °C	operature in case of "low Off(130)

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		Settings Heating circuit Set. Heating circuit 1 Heating off, out °C Heating off, time (min) Night reduction down to °C Prim. flow reduced holiday °C SmartGrid Low price °C SmartGrid Blocking Anti Water Hammer No 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	CTC EcoZenith i360	CTC GSi 600	CTC EcoZenith i555	CTC EcoLogic M/L	CTC EcoLogic S	
	×	×		×			Settings Heat pump Inst. Värmepump Demo Kompressor Spärrad Stopp vid utetemp °C -22 Minsta drifttid (min) SmartGrid blockering VP Avfrostning värme temp min m Avfrostning värme temp max m Avfrostning värme temp max °C Avfrostning värme temp max °C -20 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 Mode Normal Status Heating Primary flow °C 30 (0) Return flow °C 30 Radiator pump On Mixing valve Close <50% Delay mixing valve 180 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.



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

Settings Upper tank



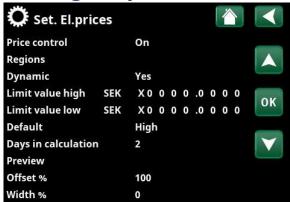
Menu "Settings/Upper tank/Program DHW"

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

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

Settings El.prices



Menu "Installer/Settings/Communication/El.prices"

By entering code '4003' in the menu "Installer/Service/Coded settings/Code" the menu lines "Offset %" and "Width %" appear in the display menu.

New in display menu:

- Offset % 0 (0...100)

 Offset is the border between "expensive" electricity and "medium" electricity. This limit is set according to the average price for the number of days you have chosen to use in the calculation.
- Width % 50 (0...200)
 The width is the area below the average price limit where the electricity price is judged to be "medium".
 To decrease or increase this range, the width can be changed from the factory setting of '50' to a value between '0-200'.
- Days in calculation 10 (1...10)
 It is possible to set the number of days in the calculation to 1-10 days instead of the previous 2-10 days.

X 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	Critical alarms Alarm[E211] Risk of freezing low flow Reset alarm 21.0°C 18.0°C 58°C -7°C Added critical "freeze alarms" [E135], [E211], [E216] and [E217] can only be cleared with code '4005' (menu "Installer/Service/Coded settings/Code")
	×	X					Added critical "freeze alarm counters" will be cleared when 1 year without a critical alarm.
				×	×	×	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	General improvements.





