

Heloc Pro Version 1.1.16

Release Notes

Thank you for your interest in BARTEC Benke's Heloc Pro heat tracing design software!

Technical Support

If you have any questions, issues, or suggestions related to Heloc Pro Software, please send an e-mail to heloc.support@bartec.com.

If you need assistance related to the electrical heat tracing systems or if you have questions about BARTEC Benke products please send an e-mail to eht.support@bartec.com.

Change history

Version 1.1.16 (July 7, 2025)

1. Bug Fixed: Pipe groups were incorrectly imported in "Rename" mode.
2. Bug Fixed: The maximal sheath temperature of self-regulating heaters was not exported.
3. Pt100 temperature sensors with rubber connection cables are discontinued.

Version 1.1.15 (May 20, 2025)

1. Export function for Pipes and Tanks has been expanded, and many additional values can now be exported.
2. New feature in export window: Under the menu item 'Columns,' a 'Show Importable Columns' button has been added. Clicking this button filters the table to display only importable columns. Exporting this view provides the full template for import. The imported headers will be automatically assigned.
3. The pipe import function has also been expanded: The drop-down menu above the columns now includes additional values to import, translated into the currently selected Heloc Pro language.
4. An import window for tanks has been created. The functions are the same as those in the pipe import window.
5. Data validation during import has been enhanced. Values that failed validation are marked with a red circle with a white cross. Hovering over the marker displays a description of the error.
6. In the 'Heating Circuit Settings' window, the heater voltage is now selected together with the heater wiring to avoid mismatches.
7. Bug fixed: Issues during project saving have been resolved.
8. The Circuit Report was optimized to display pipe groups with Child Type 'Power Parallel' properly.
9. A new column with an additional heater length was added to the Circuit Report.
10. The default file name for exported reports was adjusted.
11. Bug fixed: The tank width and total insulated has been displayed incorrectly.
12. The order and type numbers for TWISTO/L were updated.
13. Bug fixed: The self-regulation heater selection on tank failed with "Output is too high!".
14. The cold lead for the EKL light family was added.
15. Bug fixed: The quantity of the cold lead and connection kits in the BOM for series heaters was incorrect.
16. Updated type numbers to 07-3T* and added new catalogue names for power junction boxes.
17. Bug fixed: The column headers for maximal and operating current in Electrical Report were reversed.
18. Bug fixed: Global Copy feature for the fields "Hook Up", "Phase Balance" didn't work properly.
19. The total heater length on reports now includes the termination length.
20. Bug fixed: The termination length was not added to the Power Parallel Child Lines.
21. Bug fixed: Series heater resistance was not displayed in the Acceptance Report.
22. When reports are exported, the program now saves the last folder path.

Version 1.1.14.1 (November 15, 2024)

1. Rolled back the changes for point 4 from the previous release (1.1.14). The bug persists and will be fixed in a future update.

Version 1.1.14 (November 12, 2024)

1. Fixed bug: CB for each heating circuit was not set correctly by the In-Line heating circuit style.
2. Fixed bug: Drag and drop on the edge of the Main Grid is no longer possible.
3. Fixed bug: After changes in project settings, user column layout changes are now retained.
4. If the aluminum tape (AT) attachment is deactivated in project settings, the power output will no longer be adjusted.
5. Added data verification after version update.
6. Added a new field "Competent person" to the acceptance report window.
7. Supplemented acceptance report window with 7 additional fields, now with the "Apply for all reports" function.
8. The "Area" field no longer applies to the entire heating circuit.
9. Added calculated maximum heater length for series to the Detail Report and Circuit Report.
10. Introduced different default names for different report types.
11. Updated calculation for Nominal Heater Sheath Temperature of EMK heaters. Lower temperatures are now expected, and the Max. Workpiece Temperature at Control Method (Nominal) is also considered by the calculation.
12. Added the ability to adjust power (Power Control) for series heaters.
13. Added a new "Deselect/Select All Rows" button to the "Remove" menu.
14. The thermal conductivity is now displayed on the Insulation Settings window.
15. The pipe outside diameter is now displayed on the Pipe Settings window and Detail Report.

Version 1.1.13 (September 2, 2024)

1. Replaced HSB heaters for Zone 2/22 with HSB heaters for Zone 1/21 in ATEX/IEC design regions.
2. Added totals for several fields.
3. Added "Show / Hide All Columns" buttons to the column selection menu.
4. Added columns "Power Ratio" and "Power on Pipe" to the Pipe Grid.
5. Checkbox "Show summary row" will now be saved. Previously, the check box was cleared when closing and reopening the project
6. Filters in the project will now be saved. Previously, filter settings were not saved, so they were lost when closing and reopening the project
7. Bug fixed: Saving problems after changing the "Child Type".
8. Bug fixed: Bill of Materials was empty after updating the project to the new Heloc Pro version.
9. Bug fixed: After opening a project, the item description was empty.
10. Bug fixed: Sensor location was reset while loading the project.

Version 1.1.12 (July 30, 2024)

1. Fixed the bug where the report language was not automatically adopted by Heloc Pro.
2. Fixed the program freezing during heater selection on pipes under forced conditions (forced heater, forced trace ratio etc.).
3. Fixed the bug where Database Access error occurred after saving.
4. Extensions for acceptance report. Acceptance report values will be reassigned/deleted if the heating circuit name or cable set tag were changed/deleted.
5. The feature which allows to change the values in the Main Grid by scrolling works now only if the mouse is over the selected cell.
6. The value in Column "Control Panel Tag" can now be copied with Global Copy.
7. Updated the function "Add" for pipe and tanks: Selected line in the Main Grid will be a source for a new one. The source name plus suffix "*Copy + sequential number*" will be a name for a new line. Copies from child lines are now allowed and will be added to the same pipe group as a child lines.
8. "In-Line" is now a default value for Circuit Style in "Heating Circuit Settings" window.
9. Circuit Style is now displayed in the link to "Heating Circuit Settings" window.
10. Added a validation for imported pipe length from Excel: Zero or negative pipe lengths can't be imported.
11. Adjusted Main Grid functionality to reduce "jumps" in in the view after project saving, adding new line or collapsing/expanding pipe groups.
12. Added EKL light 380 to Heloc Pro Database.
13. Updated heater maximal continuous length to 344 ft (105 m) for 3PSB1-C* in North America Design Region.

Version 1.1.11 (June 13, 2024)

1. Fixed the bug where Database access error came after saving.
2. Fixed the bug where Import Layout was storage only for first 30 columns.

3. Fixed the bug where program hung by series heater selection on pipes.

Version 1.1.10 (June 6, 2024)

1. Fixed the bug where the old version number 1.1.8 was appearing on the reports and in the "About" window.
2. Fixed the bug where the button "Help" didn't open the User Manual.

Version 1.1.9 (May 28, 2024)

1. Added an Acceptance Report. See more details in the updated User Manual.
2. Updated Circuit and Detailed reports.
3. Added a possibility to force a specific quantity of heating circuits along the pipeline.
4. Added a new button "Assign Headers" to the Import Window to automatically assign the Heloc Pro fields to imported columns using the first row with headers. The quantity of imported columns increased to 70.
5. The absolute maximal power output of the EKL light family is limited to 25 W/m.
6. The maximal current is considered by cold lead and connection kits selection for series heaters.
7. The EKL light family is now the first choice for ordinary areas.
8. Fixed the bug where the 300 series connection kits were not selected, if the 200 series connection kits were disabled in Project Settings.
9. Fixed the bug where the error message was missing if the circuit breaker current was exceeded.
10. Fixed the bug where the termination length in Project Settings wasn't converted properly.
11. Fixed the bug where the wrong cold leads quantity was added to the BOM if the user forced a heating circuit quantity on tanks.
12. Fixed the bug where tank heat sinks were not copied and displayed on the report and in the grid. This bug had an impact on max. and min. temperatures values if there was no controller. Recalculation is required.
13. Fixed the bug where after Global Copy feature the limiter set point was sometimes displayed for stabilized design.
14. Fixed the bug where CAK-SRG-B kit was not added to the 300 series connection kits.
15. Fixed the bug where the wrong quantity of insulation entry bushings was added to the BOM.
16. Fixed the bug where the CAK-M25 kit was added to the BOM by power tee connection.
17. Fixed the bug where the CAK-E5 kit was added to the BOM when PBS/PBM was selected.
18. Fixed the bug where the mounting brackets for ESTM were not added to the BOM.

Version 1.1.8 (December 22, 2023)

1. Partially insulated and partially filled tanks could be configurated.
2. Up to 6 heat sinks such as nozzles, manholes and ladders could be added to tank.
3. A conical top for vertical tanks and a skirt as support are added.
4. Area and perimeter of cross-section for saddles will be automatically adjusted if tank diameter changes.
5. Star and Delta wiring are now available for tanks.
6. Materials selection for series heaters was revised.
7. EKL light 0360 was taken from the product database.
8. The program will bring a warning message if the nominal sheath temperature is greater than limiter offset.
9. PBM-200 and PBM-300 connection kits could be used to energize one or two cable sets and as Splice Kit.
10. Fixed issue where the connection kit list in Connection Settings didn't consider the selection in Project Settings, Allowed Products.
11. The size of the Heloc Pro project file was optimized and reduced.
12. Fixed bug where the wrong circuit breaker size was displayed on report. The list of default circuit breakers sizes was extended up to 125A.

Version 1.1.7 (June 26, 2023)

1. Fixed issue that would sometimes cause a newly created 'Child' type to be lost when saving the project.
2. Updated the heater selection logic for tanks when using the 'Cover available area' setting to prefer lower cost heaters when searching for the best fit applied power.
3. Fixed issue with an incorrect error message displayed for Tank designs when there was no heater found because of not enough surface area available.
4. Fixed issue that could result in custom thermal insulations not being available in new projects after upgrading to the latest program version.
5. When calculating the maximal operating current, the actual maximum ambient temperature is now used instead of the fixed 40°C or 55°C temperatures defined in the certification.
6. HSB for ATEX Zone 2/22 is added to the catalogue. Technical data for HSB in North America was updated.
7. Fixed issue with incorrect order number French warning label.
8. Fixed issue that resulted in a missing junction box when a KRM temperature controller was selected.
9. Fixed issue where heater output was not adjusted by using AT80-164 and AT150-164 on tanks.
10. Fixed issue where AT150-164 was selected for PSB even AT80-164 was suitable.
11. Updated the catalog number for insulation bushings.

12. Fixed issue where pipe straps were not selected for Pt100 junction box.

Version 1.1.6 (April 3, 2023)

1. The quantity of heat sinks are now shown in dedicated columns on the Main Pipe Grid and also the Export Grid.
2. Fixed bug that was allowing incorrect Splice Kit selection for series heaters.
3. Fixed bug that was causing Child lines to revert to "Continuation" any time a change was made to the Parent line.
4. Added a column for Heating Circuit Name to the Main Tank Grid.
5. Added columns for Control Panel Tag, Feeder No., P&ID No., Hook-Up No. to the Main Grid and the Export Grid.
6. Fixed bug that was causing odd trace ratio with series heaters for line-neutral, line-line voltage type.
7. Fixed bug that was setting the Area Classification to default after the heater type was changed.
8. Fixed bug that was preventing the non-Ex PT100 sensors from being selected for ESTM-(L) control unit.
9. Fixed bug that was displaying the heater length value in BOM in wrong format and not converting it into imperial units.
10. Fixed bug that was preventing recalculation of the pipe group when removing one member of the group.

Version 1.1.5 (March 8, 2023)

1. Fixed bug that was introduced in version 1.1.4 that would allow non-Ex heaters to be selected for Ex areas.
2. Fixed bug that was preventing North American designs from issuing a warning message when the Max. Controlled Temp. exceeded the Max. Allowable Temp.
3. Fixed bug that caused the Min. and Max. Controlled Temperatures to be swapped when exporting to XLSX.
4. Fixed bug occurring when a new tank design was copied from an existing design and the new tank would show an error condition, even though no error existed.

Version 1.1.4 (February 20, 2023)

1. Added verification of operating current according to the new system and installation enclosure certificates for self-regulation heating cables.
2. When using "Import Pipes from XLSX", you can now type in the drop-down lists of Heloc Pro field names to incrementally search for the closest match.
3. Updates to the PBTC temperature controller to support EKL and EMK heaters.
4. DPC/DTL (electronic controller EHT cabinet) has been added.
5. Corrected missing mounting bracket/plate for the ESTM controller.
6. Corrected the number of Pt100M insulation entries for PBTC controllers.
7. The term "Max. Exposure Temperature" has been changed to "Design Temperature"
8. For controllers that include a temperature sensor, the sensor temperature range is now checked against the Min. Ambient and Design Temperatures.
9. When using MSB heater in a stabilized design, the Base Temperature that is used for sheath temperature calculations is now shown on the Detail Report.
10. Added Error message if the maximal current exceeds the circuit breaker rating for DELTA voltage type.
11. Added header in BOM report for Product Groups. Updated layout for BOM and Circuit reports.

Version 1.1.3 (October 14, 2022)

1. Corrected issue with no glass cloth tape found for stainless steel pipe due to the renaming of GT-164 in version 1.1.2.

Version 1.1.2 (September 16, 2022)

1. Double clicking on a Heloc Pro project file (.hpf) will now result in Heloc Pro startup opening of the file.
2. Corrected issue that would result in some valid series heater designs for tanks to be skipped during AUTO heater selection.
3. Maximum amperage for EMK and EKL connections kits reviewed and updated.
4. Corrected issue that was preventing certain projects from being saved after importing from Excel.
5. When exporting a report, the folder that holds the project file will be used as the default.
6. Corrected certifications and temperature settings for BRTD sensor (North America).
7. Created a new "Pipe Circuit Report" type that combines some features of the Detail and Summary reports.
8. The warning messages that are displayed when required BOM items cannot be found now provide more detail about the reason for the omission.
9. Corrected part numbers and descriptions for German and Russian warning labels.
10. For the glass cloth tape, order number 392328, the catalog number and max. withstand temperature were updated to GT-164 and 180°C.

11. Added enable/disable check boxes to the Project Settings>>Heatsinks window for the custom heatsinks (S5 thru S10). This allows the user to explicitly control whether those heatsinks are visible in the Pipe Heatsinks window and reports.
12. When assigning a pipe as a child of another pipe, a confirmation message is now displayed informing that certain settings for the child pipe may need to be changed to match the parent pipe.
13. Fixed issue that was causing the program hang after changing the temperature class or temperature settings for tanks.

Version 1.1.1 (March 26, 2022)

1. Corrected issue with sheath temperature calculation for MSB heaters (introduced in version 1.1.0).

Version 1.1.0 (March 25, 2022)

1. For Parallel-Constant Wattage and Series heaters, the Nominal Sheath Temperature is now calculated and displayed on the main grid and Detail Report.
2. For Series heaters, the operating resistance is now displayed on the Detail Report.
3. Fixed issue that was causing BPL sheath temperatures to display 1000°C when in non-Ex locations.
4. The main grid now displays the quantity of Warnings (if any) for each Pipe or Tank.
5. Fixed issue that was preventing the Limiter setpoint from properly resetting when switching from hazardous (Ex) to non-hazardous (non-Ex) locations.
6. Corrected nominal resistance values for several heaters in the EMKD-A825 series heater family.
7. Fixed issue that causing an error by Design Region change.
8. Updated the sheath temperature calculation for Mineral Insulated Heaters according to the certification.

Version 1.0.13 (February 17, 2022)

1. Fixed issue where the custom heat sink name was not being saved.
2. Maximal heater length for BPL was updated according to the BPL data sheet.
3. Maximal workpiece/pipe temperature for 20BPL*-AL heater is updated. The higher temperatures are now permitted. The old designs should not be impacted.
4. Fixed issue where the HTSB and HSB+ heaters were selected at ambient temperatures below -40°C.
5. The Child Type attribute now could be imported. See section "Pipe Groups and Line Types" in the User Manual for more details.
6. The import feature is updated. See section "Importing Pipe Data from Excel or CSV" for more details.

Version 1.0.12. (September 17, 2021)

1. Fixed issue that would prevent a Parent line from being recalculated when the Child in the Pipe Group was converted to a Parent.
2. Fixed issue that would allow choice of Control Limited Design when Ordinary Location was selected.
3. Fixed issue that would allow "Heater output is too high" error to be displayed when it was not warranted.
4. Fixed issue that was allowing heater temperature checks to be skipped when one of the "Advanced Heater Selection Rules" were chosen in Project Settings
5. Power output voltage adjustment factors for HSB+ and HTSB heaters have been updated.
6. Part numbers for HTSB heaters have been updated.
7. Area classification certifications for the PBTC power connection/temperature controller kit have been updated.
8. Fixed an incorrect tank series heater selection error message that would be displayed if no suitable resistance cable could be found.
9. Nominal power per heating circuit on the Pipe Detail Report has been corrected. Only affects cases that have multiple circuits per pipe.
10. Fixed issue that would result in no heater selected for a tank when a Sheath Temperature Too High condition was detected and the Circuit Qty mode was set to AUTO.

Version 1.0.11. (April 30, 2021)

1. Fixed issue that could cause infinite calculation loop for very short length series heaters.
2. Fixed issue with EKL sheath temp calculations when using AL tape.
3. Fixed issue with 20HTSB2-CT uncontrolled temperature calculation sometimes being too high.
4. Fixed issue with some temperature controllers omitting mounting brackets when separate power connection kits were used.
5. Fixed issue in the Tank Configuration window that would sometimes prevent values for support legs from being saved.
6. Added additional validation of Connection Kits, Temperature Controllers and Sensors to ensure they are suitable for the pipe/tank environment. Warnings are provided if conditions are not met.
7. Added new Electrical Report for piping.
8. Added extensive new content to the online Help User Guide

9. Added new options in Project Settings for Advanced Heater Selection rules.
10. Added new validation checks for Power Splice/Tee and standard Splice/Tee Child configurations.

Version 1.0.10. (February 26, 2021)

1. Fixed issue that would cause Tank Summary and Detail reports to be empty.
2. Fixed issue that was preventing Excel from opening files created by the Tank Export to XLSX operation.
3. Fixed issue that prevented BPL heaters from being selected at elevated temperatures.
4. Reports now use the XLSX format instead of XLS when exporting to Excel

Version 1.0.9. (February 2, 2021)

1. Added the ability to specify Allowed Products for each project. See Project Settings.
2. Fixed issue that would prevent the application from starting if the "Office Dark Gray" color theme had been selected.
3. Fixed issue where a forced trace ratio on a Child would be reset when any change was made to the Parent.
4. Fixed issue where heatsink descriptions were not translated properly.
5. Updated Maximal Circuit Length data for HTSB heaters.
6. Fixed issue where some BOM report descriptions were being translated properly.

Version 1.0.8. (December 4, 2020)

1. Fixed issue that would prevent the correct heater length calculation for some Power-Parallel children.
2. Fixed issue that would prevent the Voltage Type list from refreshing properly after the Heater Type was changed.
3. Added the ability to specify a Minimum Trace Ratio as a function of Pipe Diameter and Maintain Temp. See Project Settings.
4. Added the ability to force the Trace Ratio on Child lines.
5. Added the ability to force numerous Heater Design Settings for Power-Parallel children
6. Added the ability to force the Circuit Quantity for Tank designs instead of forcing the Circuit Length.

Version 1.0.7. (October 16, 2020)

1. Fixed issue that would sometimes cause the program to hang with certain Tank Area Classification settings.
2. Fixed issue that would prevent the Warning Label list shown in the Project Settings to not refresh properly after the Product Region was changed.
3. A dedicated <Close> button has been added to the About window to make closing more explicit.
4. Cladding Emissivity has been added to the Detail report.
5. Control Limited Design is no longer an allowed choice for self-regulating heaters. This aligns with current certifications.

Version 1.0.6. (September 4, 2020)

1. Added dual core MI cable and TW-05 tie wire to North American catalog.
2. Numerous updates to North American connection kits.
3. When using Imperial units, calculated heater lengths are now rounded to the nearest foot.
4. Added Power-Splice and Power-Tee Child Types
5. Heater length details for heat sinks have been added to the Pipe Detail Report.
6. Added Stainless Steel pipe schedules for both IPS and DN. PT-164 tape is no longer allowed to be used on stainless steel pipe.
7. CB Size is now visible on the main grid and can be used with Global Copy.

Version 1.0.5. (June 5, 2020)

1. Right click on each row in the main grid will now display a popup menu with additional choices for Detail and Bill of Material reports.
2. Corrections to quantity of EMK cable sets when using three phases. This issue was introduced in 1.0.4.
3. Renamed IEB-EKL/PtM to IEB-M (multi use IEB).
4. Several corrections to bill of material entries for ESTM controllers.

Version 1.0.4. (May 29, 2020)

1. Three phase (star and delta) heater design is now supported for EKL and EMK series heaters.
2. For Parent/Child Pipe Groups using Line Sensing, you can now specify the segment location of the temperature sensor and the Min and Max Controlled Temperature calculation will reflect the imposed duty cycle.
3. You can now specify separate Splice and Tee kits.
4. Several bug fixes to the connection kit bill of material for EKL heaters.

Version 1.0.3. (April 3, 2020)

For North America, expected CSA approvals for MSB heaters have been temporarily delayed, so those heaters have been removed.

Version 1.0.2. (March 6, 2020)

1. Part numbers for new heaters MSB were updated.
2. Order numbers for new heaters PSB, new MSB, HSB+ and BPL were added.
3. In the Tank Detail Report, the tank total heat losses were subdivided into heat loss through tank body, supports/slab, and safety factor.
4. Heater selection algorithm for tanks was adjusted.
5. Fixed bug for zero sheath temperature of self-regulating heaters.
6. Fixed bug when the window with BOM and calculated values was in the background and not selectable.
7. Adjusted the algorithm for calculating additional heater length for heat sinks when more than 1 run of heater was used. In these cases, slightly less heater will be now required.
8. BARTEC standard adders for heat sinks are now read-only.
9. Fixed bug when custom heat sink adders were not saved when saving a project.
10. Fixed bug when changes to Additional Heater Length settings were not recognized.
11. Added new warning if Max Controlled Temp is greater than Max Allowed Temp.

Version 1.0.1. (December 24, 2019)

1. Fixed bug that was preventing tank designs when using PI series heaters.
2. Updated data for several heaters to correct Min/Max Controlled Temperatures calculations.
3. Fixed bug that was preventing some Area Classification settings from being copied when a Child Line was assigned to a Parent Line.

Version 1.0.0. (December 13, 2019, initial release)