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Latest revision of this document: 2025-05-07
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Versions history
SMO 40

Version:	v9715R5
Release date:	2025-05-06

ADDED

- F2040/F2050: Improved start up procedure in cooling mode to prevent stops due to low pressure, alarm 156 ″low LP cooling″

- F2040/F2050: Changed handling of high ambient temperature alarms, which reduces shutdowns due to solar impact

- Added functionality so that addition can be included in the energy log if the sizes of additions are specified and it is selected to be included

CHANGES

- Resolved issue with some units losing connection to myUlink

- Fixed issue with reset of alarm from myUplink

- Minor adjustment of menu and menu texts

- Added information about next time for periodic increase to myUplink

- Fixed issue where the counter for the energy meter could reset to zero

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Versions history
SMO 40

Version: 9707R4
Release date: 2024-12-13

ADDED

- New Nord Pool zones added: AT, GER, FR and PL

- It is now possible to activate "run fan during defrost" from menu 4.9.7 in the control module. Only active down to -10°C

- Silent Mode: Updated speeds for S2125-8/12

CHANGES

- Improved connection to myUplink

- Improved functionality against myUplink

- Fixed issue with menu 4.1 not visible on myUplink even when SPA is available

- Fixed issue with room setpoint and parallel offset not visible on tile at myUplink

- Added so TSS20 is available in accessory menu

- Fixed issue where F2120/S2125 lost their software during the update of the control module

- Fixed issue with alarm 418 low flow detection

- 4-pipe cooling: Fixed issue where outdoor units could become stuck and not restart

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Versions history
SMO 40

Version: v9696R6
Release date: 2024-07-02

CHANGES

- Fixed issue with the unit not connecting to myUplink after update

Version: 9696R5
Release date: 2024-06-10

ADDED

- Improved compressor preheat function for S2125

- Update so power limitations are available as AUX in all countries

- F135: Filter alarm is displayed on myUplink even if it is an information message

CHANGES

- Fixed issue with upgrading F2120/S2125 outdoor units

- Fixed issue on BT7 missing on myUplink

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Versions history
SMO 40

Version: 9696R3
Release date: 2024-04-22

ADDED

- Improved connection to myUplink

- Changed factory value DOT in menu 5.1.14 for Belgium and the Netherlands from -15 degrees to -10 degrees

- Added support for power limitation §14A EnWG

- Added Smart home tags for myUplink

- Added Portuguese language

- Added pump exercise on GP10 and GP12

- Added pump exercise on EP2x-GP10

- Update on SG ready handling of cooling. Free electricity 1K to 2K offset. Low price, no offset to 1K offset

- Added Hot water out (BT70) and Hot water circulation (BT82) sensors for Hot water circulation systems to AUX

- Improved control of periodic increase to maintain high temperature

- Possible to select up to 5 BT37 (Ext. Temp. sensors) on AUX in menu 5.4

- Changed min frequency to 12Hz in cooling for AMS 20-10

- Added power consumption of F135 to energy log

- Minor adjustments to the menu and menu texts

- Added pump exercise to EQ1-GP12

- New unique sensor alarms for each sensor, replacing alarm 227. BT84=740, BP9=742, BP8=744, BT28=746, BT17=748, BT3=750, BT16=752, BT15= 754, BT14=756, BT12=758

- Added possibility to set Time between starts for addition in menu 5.1.12

- Fixed alarm handling of BT5/BT7 sensor alarms when sensors are attached to AUX input

- Internal addition is now blocked if size is set to 0kW

CHANGES

- Improved alarm handling against myUplink

- Fixed issue with menu 2.2 (hot water setting) hidden when SPA was active even if hot water was not affected

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- Fixed problem with update from myUplink after changing language

- Fixed issue with incorrect serial number for outdoor unit shown on myUplink

- Fixed problem where option to change settings sometimes disappears on myUplink and error message that this menu can only be controlled on the device was displayed

- Fixed problem on myUplink in menu 2.2 that Smart control is missing as an option

- Added BT25 and BT63 on indoor climate tile

- Fixed issue with information message 580 "cold outdoor temperature in cooling"

- Fixed issue where alarms from slave units not visible on myUplink

- Fixed issue where S2125 sometimes says not updated in myUplink

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Versions history
SMO 40

Version: 9586R5
Release date: 2023-12-12

CHANGES

- F2040: Fixed a problem that caused the compressor not to rev up to max compressor speed.

Version: 9586R4
Release date: 2023-11-24

ADDED

- Updated calculations for Smart price adaptation, heat and hot water. This is to better manage negative electricity prices

- Improved functionality against myUplink

- Minor adjustments to the menu and menu texts

- S2125/F2120: Changed how software version is presented. Now the software version on e.g. S2125 is presented as v2.42.1 against previous v10881

CHANGES

- S2125: Fixed a problem with the preheating in connection with info message 580 "Cold outside air, cooling mode"

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Versions history
SMO 40

Version: v9586R2
Release date: 2023-03-30

ADDED

- Added support for Myuplink

- Added support for AMS20/F2050-10

- Improved energy log

- Added support for portuguese language

- Increased permitted maximum return temperature to 75 degrees for facilities with S2125 installed or in the absence of a heat pump

- Pump exercise added

- S2125: Improved handling of compressor preheating

- Delayed cooling indication added

- Fixed an issues with update of F2120/S2125 units

- F2040: Fixed an issue that you could get alarm 294 "Incompatible heat pump" at startup

- Fixed an issue that F2120 could stop during "silent mode"

- Improved handling of alarm "Cold outdoor air, cooling"(580)

CHANGES

- F2040/AMS: Improved frost protection in cooling operation

- Smaller adjustments to the menu and menu texts

- Fixed an problem with Charge pump GP12 during preheating of S2125. This could generate a TB alarm in the power supply

- BA-SVM: Fixed an issue with default settings on AA3-X7

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Versions history
SMO 40

Version: *v9542R4*
Release date: *2022-11-14*

ADDED

- F2040/AMS: Improved frost protection in cooling operation

Version: *v9542R3*
Release date: *2022-09-02*

CHANGES

- Fixed an issue with BlockFreq
- Fixed an issue that occurred in OEM products

Version:	9542R2
Release date:	2022-04-21

ADDED

- Compatible with S2125

- BA-SVM: Additional Heat is now handled as an internal addition in VVM 310 / VVM500

CHANGES

- Fixed an issue with the compressor control for Pool 2.

- F2040-6: Compressor is now stopped properly in case of alarm 343 (low supply temp, cooling)

- Default interval of periodic increase is now 7 days (previously 14 days)

- Improved alarm handling at low flow during defrosting

- When tank defrosting with several outdoor air heat pumps that use QN10 where multiple outdoor air heat pumps produce hot water, those that do not defrost are stopped

- Inputs for blocking VVC / VV comfort updated / added to accessory card

- Refined floor drying function, fixed an issue that caused the function not to end correctly

- Accessory card (AA5) "Connection of charge pumps for multiple heat pumps": Fixed an issue that caused the compressor blocking not to work

- Fixed an issue which caused DM not to be counted when stopping at low flow temperature in 4-pipe cooling

- Changed handling of high outdoor temperature in heating and cooling for F2120. The outdoor unit is now permitted to make a start attempt by running the fan before blocking the indoor unit

- Forced fan speed (menu 1.2) now also works for ERS 2-4

- Improved alarm handling in case of alarms 271 and 272 "cold/warm outdoor air" in heating operation

- Improved alarm handling at low flow during defrosting

- Changed the order of priority in the event of a periodic increase when, for example, "hot water economy"is selected via AUX input

- The default value "DOT" in menu 5.1.14 for country selection Denmark is now -12 degrees

- BA-SVM: Two-pipe cooling, it is now possible to deactivate the GP10 in menu 5.11.1.2

- Fixed an issue that could trigger alarm 229 "Short operation times for compressor" in connection with periodic increase

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Versions history
SMO 40

Version: 9350R6
Release date: 2021-07-05

ADDED

- Support for new display hardware. No other impact.

Version: 9350R5
Release date: 2021-04-23

CHANGES

- Switches to tank defrost at low flow during defrost towards F2120

- F2120: When F2120 alarms, there could be a translation error against the indoor unit that could incorrectly alarm for communication errors against the climate system in NIBE Uplink, this could lead to problems with loss of periodic increase

- The serial number of products manufactured on day 366 (leap year) is now accepted by the software

Version: 9350R3
Release date: 2020-09-30

CHANGES

- Uppdate of F2120 through USB now works as intended again

Version: 9350R2
Release date: 2020-09-01

ADDED

- New product: BA-SVM 10-200

CHANGES

- EME-alarm 504 (the PV-inverter has a message) changed from red light to information alarm and not shown in the alarm log

- When a demand for POOL 2 stops, a "Top up" of hotwater is performed

- F2040/AMSX0-6: (Cooling mode) If the information message 343 "Low temperature water out" occurs before the compressor has reached its minimum operation time, the compressor stops

- F2040/AMSX0-6: (Cooling mode) If the supply sensor runs below the set value in menu 1.9.3.2. "min supply line cooling" the compressor stops

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Versions history
SMO 40

Version: 9303R3
Release date: 2020-06-24

ADDED

• Smart Energy Source can now be activated even if several heatpumps are installed

CHANGES

• Solved incorrect names on climate system 2-8 in service info

• F2120: Tank defrosting works now as it should. The reversing valve QN10 could previously faulty turn during defrosting.

• Solves a problem with sensor error BT25 which could be shown even though the sensor never was connected. BT25 now needs to be connected at least five consecutive seconds to be considered to have been connected and able to give sensor error alarm.

• EMK: When updating from previous firmwares, EMK does no longer activate faulty as accessory

• F135: Changed regulations regarding the function night

• F2120: It is now possible to set the "fan de-icing" on repeat (the function is used each 10th defrost). Demands minimum version 607 in F2120

• Changed regulation in cooling mode with F2040, to prevent permanent alarm 156, "Low LP-cooling mode"

• Updated texts and translations

• If low flow is found during defrost, the charging pump runs to max speed during the rest of the defrost. If low flow remains after 30 sec. you will get the information message 523. Demands minimum version 607 in F2120

• F2120: New alarms added to separate high/low outdoor air for cooling (581, 580) and heating (272, 271)

• F2040: Solved a problem with reset of alarm 157 for multi docking

• Improved regulation in cooling mode, supply line (BT12) is allowed to go down to 10 degrees during 10 minutes at compressor start to prevent alarm 229 (short operation times) in 2-pipe cooling

• F2040: Alarm 343 "Low temperature water out" now stops the compressor even if the compressor has not been active its minimum operation time

• Improved functionality when outdoor unit F2120 is updated from the indoor

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Version: 9061R7
Release date: 2019-11-05

- Prevent updates of F2120 with v561

- ERS30 added

Version: 9061R4
Release date: 2019-01-14

CHANGES

- If the accessory card has firmware version 17 or 18 and all the dipswitches are set to 0, the communication is no longer disturbed which could give alarm 301 "Heatpump comm.error"

Version: 9061R3
Release date: 2018-12-12

ADDED

- Cooling: Three more DM-steps added, also protection in the compressor control toward low cool supply line

- Adjustable silent mode-limitations

- Alarm for pressure switch climate system added. Activates through AUX-input. Alarm number 165 "Low pressure climate system". The alarm is a redlight alarm without control action but lights the red diode and can give a notification through Uplink or SMS.

- Added a solution to problems scrolling in the menus. Prevents the display pointer from going back and forth. This eliminates the need to replace the display unit due to this problem.

- Alarm for long term inactive compressors added (211 och 212).

- Possibility to set the speed for ECS circulation pump GP10

- Possibility to set minimum speed in heating for charging pump (GP12) in menu 5.11.1.2

- Shunt signal 0->10V added for ECS shunt as possible output

- Accessory external energy meter is available

- ERS: Demand control ventilation added

- Additional max frequence is now available for "silent mode". Each max frequence that should apply for each time is set in the scheduling menu 4.9.6

- AXC30: EQ1-BT50 added as sensor

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CHANGES

- Alarm texts on inverter alarm changed

- F2120: When a permanent communication error toward inverter, alarm 264 is shown in the indoor unit

- If a compressor protection is activated and are going to limit the speed, the speed can no longer be reduced as before

- EME20: Various fixes

- EME20: Improved communication with the accessory

- Unit now says "not docked" as compressor status in menu 3.2 if the docking is not performed in menu 5.2.3

- Improved display of "my icons". Prevents that part of the outdoor temperature is hidden when the aluminum door is closed.

- Floor drying logging now continues to log after a power failure

- The possibility to use BT20 (temperature sensor exhaust air) as room sensor is removed

- F135 now prevents heating if heating is blocked

- EME10: In the automatic search of accessories, EME10 could incorrectly be activated even though it was not installed.

- OPT now produces hot water even if mode "only addition" is chosen and heat is inactivated

- Solved a problem that could make F2040 to run uncontrolled after a power failure and also result in alarm 294 "Uncompatible heat pump".

- F2120: Changed control during sensor calibration

- F2120: Manual charging pump speed for cooling can be set in menu 5.11.1.x.

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Versions history
SMO 40

Version:	8746R2
Release date:	2018-06-27

ADDED

- EME10 added as accessory

- In standard logging through USB, sensor BT20 - 23 for ERS 2 – 4 is now logged if the sensor is connected

- Now supports 4 units of the accessory HTS. Addresses for these are HTS1: 00001001 HTS2: 10001001, HTS3: 01001001, HTS4: 11001001.

- External adjustment cooling can now be set in menu 1.9.2

- Extra climate system 2 - 8: It is now possible to block the shunt on AA5-X2:13-14. When there is a connection the shunt closes.

- F2120: If serial number is missing both in the indoor and outdoor unit, there is now a possibility through USB menu to type a new serial number

- AXC30 och Accessory card (AA5): Extra cooling added, relay K4. Switches when DM has reach max in cooling

- Super cooling added

- F2040-6: Pump-down-function added in menu 5.11.x.1

- EME20: It is now possible to choose "priority household electricity" in menu 4.1.11 (Solar electricity) if external energy meter is connected.

- ERS: Possibility in accessory menu 5.3.12 to set level monitor as external blocking

- New function floor drying logging added in the USB menu. Logging several floor dry relevant variables with an interval for 10 min in one file

CHANGES

- EME10 is now regulated on power instead of current. New setting in menu 4.1.10 which indicates if EME10 is on single or three phase

- Solved a problem with displayed measured flow with the accessory EMK in Uplink. Previously measured value could be lost at low flows

- Removed a term for country selection Belgium: Max internal addition was 1kW

- EME20: If communication alarm toward PV-inverter occurs and is reset manually on the display, the alarm will not return

- EME20 now supports up to 12 PV-inverters

- Sensor calibration runs the pump on max set speed instead of 100

- Corrected a fault that could cause the fuse size setting under some circumstances to be reset to default value (16A)

- F2120: Reversing valve QN10 is no longer in incorrect mode toward hotwater, when the heatpump is in

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cooling mode

- In standard logging on the USB memory, external heating medium return sensor BT71 is now logged.

- Night cooling: The function stopped working in v8228. Corrected.

- Solves a problem that could cause the product to restart if the activated vacation period was longer than 127 days

- Improved control of accessory ERS

- Improved control of the accessory HTS

- Mindre justeringar av menyer och menytexter. Minor adjustments of menues and texts

- The setting "Defrost fan" from menu 5.11.x.1 is moved to a new menu "TOOLS 4.9.7"

- Multi dockning: Only the machine that gets the alarm 228 "failed defrosting" stops

- Factory setting of the outdoor unit now resets all variables in menu 5.11.x.1

- Charging pump could earlier stop at sensor fault on BT1

- F2040: Max condensor in for limitation of addition is raised from 60 to 63 degrees at periodic increase

- F2040-6: The min operation time is now 10 minuters. Reversing valves are locked (if not in HW operation) if demand is over before the time has elapsed

- If power failure on F2040-6 the alarm "low outdoor air" could wrongly be shown.

- F2120: If communciation fault occur, the indoor unit/control unit's outdoor sensor BT1 is used for anti-freeze protection

- BT23 on ERS3 collected its value from ERS1

- Addition in tank through AXC30 and accessory card (AA5): When blocking hot water, the addition in tank i stopped as it should

- Addition after QN10: When needed, QN10 switches to hot water as it should even when DM is lower than "start addition"

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Versions history
SMO 40

Version:	8350R2
Release date:	2017-10-24

ADDED

- Now supports the accessory EME20

- F2040-6 added as compatible outdoor unit

- F2040: Alarm 228 "Failed defrost" added

- "Activate economy" can now be selected in AUX-in (Menu 5.4)

- F2040: New information message 343 "Low temp water out" in cooling

- F2040: New information message 418 "Low temp water out"

- F2040: New information message 419 "Freeze prot. exch. defr"

- Smart control can now be selected in menu 2.2

- Smart Price Adaption is now supported if country selection Norway

- When exceeding max temperatur in the heatpump, information message 333 "high temp.out" and 334 "high temp in" is shown

- Now supports 4 units of the accessory ERS. Addresses for these are ERS2: 0x3A, ERS3: 0x3B, ERS4: 0x3C

- Country selection Australia and New Zeeland added

- F2120: New information message 270 "Compr. preheat in progress"

- Stove guard function added for ERS

- Improved integration with Smart Price Adaption toward NIBE Uplink API

- Possibility to combine F2120 and F2040 at multi docking

- Possibility to combine one step and inverter controlled outdoor units at multi docking

- F135 can now be blocked through soft input

CHANGES

- "Target temp" in menu 5.1.1 is now selectable if only one module is selected for hot water load

- F2040: Heat exchanger antifreeze protection defrosting: Different sizes have now different time- and frequency terms

- Control through Smart Price Adaption in Estonia and Finland could stop working after 24h running because of incorrect managing of time zones

- Improved control of Smart home function

- F2040: When multi docking, only the heatpump with antifreeze protection for heat exhanger stops, previously all heatpumps were stopped

- F2040: Forced stop if the compressor is blocked through tariff

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- Max flow temperature can now be set up to 80 °C if exteral flow temperature sensor BT25 is connected

- QR-code is updated with information regarding the outdoor unit if serial number is available (F2120)

- At startup / restart of VVM without rebooting the F2040, you could get information message 271 "Low outdoor air". Now a value of BT28 is required for at least 30 seconds before it gives the information message.

- Time zone Istanbul is now corrected and is always delayed with 3h compared to UTC

- Changed terms for summer bypass for ERS 10-500 that makes the damper open earlier

- AXC30 and Accessory card (AA5): Now possible to control shunt control addition with 0-10V signal.

- Immersion heater for HW-comfort is now activated during periodic increase

- Multi docking: Ramp-up of compressor frequence in cooling mode is improved

- F135: The compressor is stopped if there is a sensor fault on BT6

- F2040: If BT12 is below 5 degrees, the defrost is interrupted

- F135: The fan no longer stops if there is an alarm

- F135: The fan did not speed up to full capacity

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Versions history
SMO 40

Version: 8061R5
Release date: 2017-09-08

ADDED

- 4-pipe cooling: GP12 delta settings in menu 1.9.5 is now shown

CHANGES

- The setting "cooling/heating sensor" in menu 1.9.5 disappeared in case of a restart if F2120 was installed

- Multi docking with 2-pipe cooling: All compressors that are allowed to start, starts when needed. Earlier a compressor could run with min frequence even though DM allowed several to be activated.

- 2-pipe cooling: Adjusted so the correct compressor speed is used in relation to DM

- Cooling mode: The compressor speed is now correct regulated even if you have chosen your own compressor curve

- The last compressor now stops at the correct DM value even if you have made changes in "step difference" (menu 1.9.5).

- F2040: Previously the compressor could remain blocked if it stopped while kept from speeding up due to a BP4 maximum limit. Now compressor will restart at minimum speed until the limit on BP4 is released.

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Versions history
SMO 40

Version: 8061R4
Release date: 2017-06-07

ADDED

- ERS 10-500: ERS: It is now possible to choose bypass function without BT50 and blocked heat. New settings in the accessory menu 5.3.12.

- Soft output (AUX) status is now shown in the service info 3.1, only its function was shown before

- SMS40 now also sends SMS when a filter alarm occurs

- F2040: Alarm156 "Low LP cool" added

- Pool sensor for POOL2 is now shown in the start guide for external sensors

- It is now possible to choose the amount of pulses/kWh or energy/puls for external energy meter in menu 5.3

- Scheduling for ventilation added in service info if ERS10-500 or F135 are installed

- Possible to regulate step control addition with 0-10V signal

- Improved function for accessory EMK. Energy measure did not always occur in case of low flows

- Electricity price region AWAT1 (Austria) added in the function Smart Price Adaption. Electricity price is now collected after 5PM the day before, instead of 2PM.

- F2120: Page in the service info (XTRA_SERVICE_I.KEY is required)

- HTS 40 (damp sensor) added as accessory

- Safety function that prevents the charging pump not running when the compressor is activated

- OEM version of F2120

CHANGES

- Periodical increase: If the compressor stops at high condensor it can restart if BT6 is below start hot water

- If a demand on hot water and 2-pipe cooling occur, the compressor is no longer stopped in hot water mode each 30th minute, to restart again. This resulted in unneccessary stop during longer hot water loads.

- F2120: Defrost starts direct if "de-icing fan" is selected

- USB-logging: Pressure sensors BP8 and BP9 in F2120 have now correct names

- 4-pipe cooling: QN12 can now be docked after QN10. It is also possible to dock cooling directly on EB10x.

- Addition in tank is stepped out when temperature is below start temp for comfort mode Normal since the blocking of the compressor is released at that point, even when periodic increase is active

- Smaller adjustments of menues and menu texts

- 4-pipe cooling : QN12 is controlled in a similar way in F2040, which helps to decrease the number of switches

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- F135 could make the display unit to restart, which set DM to 0

- F135: Uplink now shows relevant variables

- MODBUS 40: Possible to read 32-bites register as two separate 16-bites register and the two following 16-bites register in the same time

- F2120: The setting "defrost more often" in menu 5.11.x.1 was not saved if restarted, now corrected

- Operation statistics for the heatpump in menu 3.2 got zeroed if the heatpump was deactivated in menu

Version: 7839R3
Release date: 2017-02-24

CHANGES

- F2120 compressor is no longer stopped without apparent reason during ongoing defrost. This could lead to frozen evaporators which could cause the alarm 228 "failed defrost".

- In the multi docking the QN10 no longer is affected when the slaves that are not connected to QN10 are in defrost. Previously QN10 switched whether the slaves were docked to QN10 or not.

Version: 7839R2
Release date: 2016-10-25

ADDED

- Sensor alarm (alarm 350) added to room sensor BT50. The alarm occurs if BT50 will be activated for control when it is not connected

- Function that enables to save the F2120 serial number and copy it to a new Spare part card in case of a replacement

- Åland added to the country selection menu

- Manual defrost in F2120 can now be started from the heat pump menu 5.11.x.x

- F2120: Added support for two Norwegian variants, 2x230V

- Alarm "Low LP cooling" added for F2040 and F2120

- AXC30 4-pipe cooling: Added function on relay K4. It is active when GP13 is active and inactive when GP13 stops, K4 was previously unused.

- F135 added as accessory

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SMO 40

- New function: Compressor is allowed to produce both heat and hot water event though addition in tank is selected. Menu 5.1.12 "activation of immersion heater in heat".
  – Not activated: Periodic increase will occur even though addition in is selected after QN10. Addition in tank is then used only for Lux and periodic increase.
  – Activated (default): Todays function is retained

CHANGES

- Minor adjustements regarding logging

- Smart home: Updated functions

- Improved control of hot water production if "activating of immersion heater " in menu 5.3.8 "Hot water comfort" is selected

- Indoor unit with single phase supply: If the outdoor unit is connected after the installation of the indoor unit, the compressor phase will be automatically set to L1 unless the compressor phase was chosen previously

- The indoor unit makes an extra check which product is connected after a start-up, to avoid getting in to a "bootloader-mode"

- New management of information messages for "high/low outdoor temperature", for instance not to block cooling if "high outdoor temperature"

- Failed sensor calibration: If no flow sensor is connected and the pump speed is set to manual for all docked demands, the sensor calibration will no longer occur. A problem used to occur if a charging pump was connected to the outdoor unit.

- Periodic increase, addition after QN10 and alarm high condensor : QN10 could incorrectly go towards hot water

Version: 7635R9
Release date: 2016-09-12

ADDED

- Supports new type of memory circuits for the display unit

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Versions history
SMO 40

Version: 7635R8
Release date: 2016-08-18

CHANGES

- 4-pipe cooling: Possibility to choose QN12 in docking menu 5.2.3 with NIBE F2120 as slave

- Anti freeze protection for heat exchanger (condensor) in NIBE F2040 now stops the compressor in cooling mode

Version: 7635R6
Release date: 2016-07-08

CHANGES

- After upgrade of NIBE F2120 the display will restart

- F2120-20: The limitation in silent mode was too high

- Solved DM-calculation in 2-pipe cooling. If the start value was set to a higher value than 100 (default 30) no cooling demand was set

Version: 7635R5
Release date: 2016-06-03

ADDED

- Supports the accessory OPT-10

- External energy meter added as accessory. Requires version 35 or higher on the input card (AA3). Input selection is made in the search menu of accessories. This acceessory measures pulses from external unit. Is connected on X22/X23.

- It is now possible to choose "one time increase" in menu meny 2.1 (Temporary lux). When activating a temporary increase will start and stops when the demand is met. It is not shown in RMU.

- Alarm sensor fault BT3 climate system 2-8 added

- Alarm sensor fault BT2 climate system 5-8 added

- SOLAR-icon is now shown in the Service info if it is shown in the main menu

- New AUX out function; Holiday. Activates AUX-relay in Holiday mode

- Icelandic language added

- Alarm 372: com error toward pool2. Pool 1 and 2 use to share alarm.

Latest revision of this document: 2025-05-07
Listed below changes are official firmware versions.

Versions history
SMO 40

- Smart home functionality

- F2120 added as compatible outdoor unit

- myUpway activated for OEM products

- Supports the accessory ERS-10

- Alarm 87: "Permanent com error step controlled addition"

CHANGES

- The desired compressor frequence is shown in the service info even during force control, it used to be 0

- Smaller adjustements for viewing and managing menus

- QN10 now changes toward demand even in Auto mode without. Previoulsy it was always positioned towards heating.

- If the alu.door is closed and no status icons to show, the product name will be shown instead

- Min difference is changed between hotwater compressors to 0 degrees to make it possible to get all the hot water compressors to start at the same time.

- Multi docking where one heat pump only produces HW: QN10 now changes toward the demand it has instead to be locked toward HW all the time

- 4-pipe cooling: Min value in the setting range of "start of cooling" in menu 4.9.2 changes from 15 to 0. This means that GP13 can run all the way down to 0 degrees. The outdoor units will stop at 15 degrees as before.

- Improved USB stability

- Name changed in menu 5.3.20 from HUBA15,20, 25 to EMK150, 300, 500

- F2040 is changed to " F2040/AMS10" in the Service info menu

- Compressor frequence control is changed in cooling. Previoulsy always 25Hz, now same DM control as heating.

- If start and stop temperatures on hot water was changed, the HW-start did not always reset to factory settings.

- Adjustments for russian time zones

- Sensor fault on BT52 (boiler sensor) shunt controlled addition, now means that the burner turns off and the shunt closes

- Solved a problem when a sensor fault sometimes occured during startup/restart even though the sensor existed

- Solved a problem with the compressor that did not stop if alarm 294 occured (incompatible outdoor unit)

- -28 and -24 is no longer shown as positive temperatures in menu "my icons" if the alu.door is closed

- When reversing valve QN10 switches from heat to hot water it is supposed to wait until the current compressor speed is the same or lower than calculated speed for hot water. This has not been done since version 6086

- Solved a problem with restarting display if the SMO got a calculated effect 0 from the outdoor unit even if the compressor was activated

- Solved a problem with setting for own compressor curve that could reset to default settings if a restart

- Logging of network status through USB ID number 31310 is a error code from NIBE Uplink and error code 31312 is an internal error code on the network

- Improved stability on the network connection

- If you closed the alu.door during an update, the display did not restart when the update was done until the alu.door was open again

- SOLAR40/42: Solved a problem that could cause the emergency cooling to lock

- The load monitor alarms 274 and 275: Text and function changed so it works again

- The setting "compressor phase" is no longer hidden in menu 5.11.1.1

- SMO start-up without single-phase outdoor unit: If no compressor phase is chosen, it is automatically set to L1 when the outdoor unit is connected afterwards

Version: 6901R5
Release date: 2016-01-26

CHANGES

- A bug fix from version 6901R4. Heat pump that are switching between hot water and heat could get stuck in status "starting" in the service info but the heat pump did not start. After a restart of the outdoor unit it worked for some time.

Latest revision of this document: 2025-05-07
Listed below changes are official firmware versions.

Versions history
SMO 40

Version: 6901R4
Release date: 2015-11-17

ADDED

- Menu setting for current transformer ratio in menu 5.1.12

- A red flag in the display if the firmware is a test version

- Menu for country selection, menu 5.12

- If logging is active, this is shown on the USB-icon in the main menu (does not apply to OEM)

- Possibility to choose word swap as byte order in modbus menu 5.3.11. Requires Modbus40 version 10.

- R-version of the firmware is now shown in the default logging

- If the compressor stops due to "High condensor out" during periodic increase, the compressor will be blocked from doing hot water as long as the periodic increase is active. If several compressors are connected toward HW, these will also be blocked, no matter if they started or not.

- Improved temperature measuring in the RMU with program version 256 or higher. Takes in consideration if the display is light up or not.

- Supports connection of volume flow sensor with menu 5.3.20. The accessory will automatically be detected when a value is sent.

- Sensor BT74 is now selectable in soft inputs, menu 5.4.

CHANGES

- Periodic increase will be terminated with alarm 181 if installed electric power is set to 0.0kW and the BT6 is higher than hot water stop temperature

- Lowest setting for start active cooling is changed from 30 to 10 DM

- When BT1 exceeds 10 degrees the antifreeze protection is inactive, if the outdoor unit is not selected or if there is a com-error toward the same

- Hot water is now blocked during tariff blocking. This because of blocking of HW exists as AUX

- The function regarding which sensor should be used for cooling/heating is now fixed. BT74 is selected directly if it is connected.

- Smart price and BBR only exists if the country is set to Finland, Sweden or Denmark

- Flow sensor BT25 selected on soft input is calculating DM now also with 2-pipes cooling

- Cooling: Min. adjustable range of delta T at 20°C and 40°C from 2K to 3K, menu 1.9.5

- HW demand deativates completly during phase detection. When the phase detection is done, there must be a new HW demand on BT6 before the compressor and/or addition will make hot water again.

- Default setting on the fuse size is now 16A, before it was 25A.

- Heating: Max flow temp. for system 2-8 can no longer be set higher than the max flow for system 1.

- Burner relay on shunt controlled addition is not activated if priority addition is chosen.

- The time is set by syncronising with a NTP server and thereby always correct if Uplink is connected

- RMU40 can now show alarm number highter than 255. Requires an update of the room unit to version >= 256.

- HW immersion heater is now allowed to be active even when the compressor is blocked in soft inputs.

- HW immersion heater can be activated even though 0 electrical step is selected

- Solar40: QN23 regulates correctly, it used to not regulate at all.

- In the service info EB104 is showing its own BT16. It used to show BT16 for EB105.

- Addition before QN10: QN10 switches to hot water correctly even if DM is below DM start addition

- Hot water topup is changed from start if BT6 < stopp - 2K to start if BT6 < (start + stopp)/2

- DM is no longer locked on high values (over 2000) if you set "start compressor" and "start difference addition" in menu 4.9.3 very low. DM can now go lower than -3276

- "Start difference addition" in menu 4.9.3 can now be set up to 2000DM, earlier 1000DM

- The number in status icons in the service info menu is now shown only if more than one compressor is docked toward each demand.

- The starting charging pump will take in consideration other charging pumps speed, that already are running toward the same demand and will lock the rps for two minutes.

- Improved management of operating mode sensor (BT74) for switching between heating/cooling

- Antifreeze protection of the outdoor unit has improved with hysteresis. Start when BT28 shows 2,0 °C and stop at 2,5 °C.

- Cooling 2-pipes: "Start of cooling" can be set lower than "stop of heating" in menu 4.9.2

- When the load monitor limitation is active it will show an information message and addition will step down. The addition used to step down without showing an information message.

- Load monitor: The accessory addition will step out before the internal additions starts to step out.

- Addition after QN10: If a sensor fault on BT25, DM is calculated on BT71+10. Is BT71 missing, DM is calculated on BT12 as before

- The shunt will now stop regulation when DM exceeds "start addition". Before it regulated until it reached 0 DM.

- If a compressor is external blocked but still runs, for example active defrost, operation on GP12 is allowed.

- Solves a problem that could cause the display to restart

NIBE

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Versions history
SMO 40

Version: 6421R9
Release date: 2015-03-03

ADDED

* OEM article numbers added

FIXES

* Serviceinfo menu "soft in/outputs" is now shown even if you have chosen "Smart price adaption" as output.

* Time factor for addition is not calculated every second if addition has been active and then set to max zero steps.

* In the event of restart or update at the same day as periodic increase occurs, periodic is no longer forward 14 days.

* SOLAR40: QN23 is now controlled correctly, earlier it did not control at all.

* Slave four is now showing its own evaporator sensor (BT16) in the service info, earlier it showed BT16 of slave five.

* QN10 now switches properly toward hotwater in periodic mode if DM is less than "DM start addiation". Only applies if "addition before QN10" is selected, QN10 used to remain in position toward heat.

Version: 6421R7
Release date: 2014-06-18

ADDED

* Cooling function

* DEMO: You can choose which outdoor unit you want to simulate

* Smart Price Adaption

* Blocking of HW through soft input in the docking menu, if input was closed over 24h at a time, a periodic increase will start when the blocking ends

* New info alarm, 901. Alarms when the placement of QN10 does not match with other settings that have been made. The alarm will also reset the placement of QN10 (with information to the user) so the system will be compatible.

* New pump regulator

* Warning text with yes/no-choices when you go into the forced control menu

* Two new settings for F2040 in menu 5.11.x.1:
  Seperate current limitation and setting for max current

* Page for AUX-settings are shown in the start guide if something is connected on the AUX-input

NIBE

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Listed below changes are official firmware versions.

Versions history
SMO 40

- Sensor alarm on BT25

- Pool2 added in the energy reckoning

- Factory settings of slaves from the indoor unit(SMO40).

- Alarms for DEMO:
  - Wrong program
  - Wrong serial number
  - Com error toward RMU40
  - Com error toward SMS40
  - Com error toward MODBUS40

- Support for F2020

- Com alarm toward pool2

- Climate system 5-8

- Target temperature control for HW-load. Delta or Target temp can be chosen in menu 5.1.1

- MODBUS40
  - If MODBUS40 has higher version than 7 menu 5.3.11 "modbus" with possibility to set desired address on Modbus40. -
   Shows the page setup of desired address on MODBUS40 in the start guide if the accessory is activated
  - Now supports communication to lower index. Demands version 10 on MODBUS40

- AUX-in/out now saved in "STORE.SET"

- Total operation time of the compressor is now showing:
  - Of which hot water
  - Of which POOL
  - Of which POOL2
  - Of which cooling

CHANGES MADE IN EXISTING FUNCTIONS

- The compressor can be activated at the same time as addition in tank

- If hot water was not activated and POOL installed, the marking in menu 4.9.1 was not accurate

- The second counter for the floor dryer did run too fast when you were in the menu for heating curve

- If an alarm occurs on EB10x at the same time as blocking of EB10x through AUX, you could not enter the alarm menu

- Blocking of GP12-accessory, are now also blocking the anti freeze protection for EB10x-GP12. Only applies if the complete accessory is blocked and applies on both EB10x-GP12.

- Multi system; compressor in heating operation faulty stopped in luxury mode

- The time indicator in time&date-menu will now be placed with hours as standard, instead of minutes which was the previous case

- Status for addition in tank will now be shown only if there is a value on the time factor. It used to be shown in the setting terms (addition before or after QN10).

- Translation updates in all languages

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Versions history
SMO 40

- DEMO-firmware:
  - A-settings in menu 5.11.x.1 are OK in DEMO_MODE
  - In demo mode BT1 and BT71 were set to zero in conjunction with +Adjust. Previous values are reim-
  pored.

- Only shows the amount of compressors that are/shall be activated toward a certain demand if there are slave/slaves installed

- EB10x-GP12-control: Min delta in HW changed from 2.0K to1.0K

- Updated compressor frequence curve for HW load with low effect

- Addition in tank can now be bloced through AUX and scheduling

- Default phase setting changed from L3 to --.

- Default setting for fuse size in menu 5.1.12 is changed from16 to 25A.

- The order and information are updated in service info menu

- Increased the accuracy on the current measurement

- Changed from EP8 to EP30 on all places where it occurs

- Changed text when displaying of addition in tank to the same as in menu 5.1.12

- Timer to end the start guide. It did not use to count down correctly:
  - When you closed the alu.door and the start guide is activated
  - When start up with closed alu.door and activated start guide

- F2040:
  - The function BlockFreq extended from 5Hz to 50Hz
  - F2040-8 always load HW with power curve high
  - Time between stop and start changed from five to three minutes
  - Working area can be adjusted down, setting for EB10x can be made within each slave setting
  - If the compressor speed ramps down because of overcurrent, 1Hz/regelation does not apply. Then the same ramp down as before applies, i.e. 20 and 6Hz/30sec depending on current meter
  - Compressor frequence change: every change of desired frequence is now set to 1Hz. The interval between changes are 60 sec. if heat and current speed is above the map frequencies. In other cases the interval are 5 sec.

- Dead reckoning entered to apply two minutes after QN10 switched to heat from other need

- Dead reckoning of DM (cooling or heating) is based on the docked compressors, not the amount installed

- GP1/GP12 pump speed can not be set below 1%, earlier 0%

- SMS40:
  - Commandos corrected
  - Sensor fault is now answering "- -"

- Heat amount meter will count backwards if delta is negative, unless in cooling

- Improved accuracy for heat amount meter

NIBE

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Versions history
SMO 40

- Improved antifreeze protection for the heating system

- Auto adjustment is changed to prevent short operating hours:
  - The adjustment does also apply to comfort mode "Luxury", earlier only Economy and Normal
  - It used to check which comfort mode that was selected in menu 2.2 when reset. Now it is checking which comfort mode that is activated.

- Changed controlled sensor from BT63 to BT12 when addition and compressor are activated

- When step-out of compressor units at hot water operation, it only checks the least condensor difference of the compressors that have a request toward hot water if it needs to step-out

- If all EB10x are blocked when scheduling and external/internal immersion heater exists, it is allowed to run if there is a hot water demand

- The average value of EB10x-BT28 was used for reckoning of compressor frequence, now it is also used to set working area for each EB10x.

- If passive defrost on relevant EB10x at the same time, intermittent operation mode selected on EB10x-GP12 and no active addition before QN10, the EB10x-GP12 will stop immediately

- Active defrost toward pool does not occur if heating is allowed

- If period time for hot water is ended, the demand will only terminate if other need is existing and not blocked

- Sensor calibration:
  - Starts 90sec after start up
  - If failed sensor calibration info alarm 351, 352 and 353 will show depending on which sensors that could not be calibrated
  - Sensor calibration is used for all functionality, before only for the energy calculation

- Load monitor
  Addition:
  - During rampup compressor frequency is limited to actual frequency
  - Received current value from outdoor unit exceeds set max power - 2A
  - Received current value from outdoor unit exceeds set fuse size - 2A
  Changes:
  - Current on the compressor phase exceeds fuse size - 2A. (Used to be 1A)
  - If decrease of calculated compressor frequence shall happen because of the load monitor, this is changed to 6Hz /30sec if the limitation is done on MHI's current meter, otherwise with 20Hz as it used to be.

FIXES

- Wrong indication for pump status when calibration is interrupted by force control

- External hot water immersion heater in the accessory hot water comfort did not deactivated correctly

- F2040: When start-up and HW-need; this could take three minutes before QN10 switched to HW. It now occurs as soon as a HW-need.

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Versions history
SMO 40

- Calculated supply temperature is now calculated correctly direct at start-up. It used to take one minute with min. supply temperature

MENUES

- "Heat pump" in menu 5.5 Factory settings is now named"installed slaves"

- Updated Russian language and fonts

- Removed country flags in language menu 4.6

- When closed front and sensor fault on BT6/BT7, 0°C was shown in the water symbol. Now it shows --°.

- If no "alarm action" is selected you can not activate "aid mode" in the alarm menu. It says "aid mode activated" without possibility to select aid mode.

- It could occur that the compressor info showed that the compressor was running toward hot water even though it was producing heat if addition in tank was active, corrected.

- When holiday setting is activated, the setting for parallel shift is shown if at least one climate system is missing a controlled indoor room sensor

- Start guide: Addition settings moved to after the accessory settings

- Hot water-/Heating need was not displayed in the service info (menu 3.1) if operation mode only addition

- Only shows setting for the standby speed on EB10x-GP12 if pump operation mode is set to auto

Version: 5015R10
Release date: 2014-04-25

CHANGES MADE IN EXISTING FUNCTIONS

- Addition in tank are now activated on the accurate value during periodic increase. Used to start 0.1K during hot water-stop in periodic increase.

- Addition was not activated when there was a hot water demand, if addition before QN10 was selected

- EB10x-GP12 did not control correctly when passive defrost and operation mode "auto" in EB10x-GP12 was selected

- When the following occured: Operation mode "only addition", alarm "high condensor in/out" and comfort mode "normal", the addition was deactivated.

- Addition in tank was not activated correctly toward hot water in comfort mode "luxury" when the compressor was activated and DM was below "start addition"

- Minimum time from stop to start for F2040 is changed from 3 to 5 minutes

- Correction in the quick start function of the F2040. The counter "time to start" could not stop when quick start was activated.

- If a compressor is stopped on high condensor in/out during periodic increase, it cannot start toward hot water again during the same periodic increase. Other compressors that can run toward hot water but not yet had time to start, are blocked in the same way.

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NIBE

Latest revision of this document: 2025-05-07
Listed below changes are official firmware versions.

Versions history
SMO 40

Version: 5015R6
Release date: 2014-01-31

CHANGES MADE IN EXISTING FUNCTIONS

- If passive defrost is active on slave at the same time as intermittent mode on the relevant GP12 and no active addition before QN10, the pump will stop immediately.

- High BT3: Conditions changed to 4K temperature difference (original 5K) not to interfer with the condition to end the HW-need.

- Incorrect excersie of components in the start menu.

- Addition could remain active after/in association with periodic increase, and lie toward wrong demand. It was neccessary that DM increased considerably with QN10 set toward hot water. This fault demanded to change DM manually.

- Introduction error that caused rare restarts of the display, this is now corrected.

- Over flow- error in the energy measurement that can have caused strange display values.

- QN10 could be faulty set in a few seconds after the alarm "high condensor" was activated and the compressor stopped but before the addition was activate.

- The Anti-freeze on the outdoor unit could force EB10x-GP12 to stay in the Anti-freeze exercising if no priority and low temperature on EB10x-BT28.

- The need calculation of the addition in the accessory HW-comfort corrected. Was not activated as it should in periodic increase if it was an alarm high condensor.

- Slave storage of alarm high condensor, that could be faulty copied from a slave with higher ID to a slave with lower.

- The need calculation of addition in tank corrected. The addition could stay as active as long as the alarm high condensor was active, independent of the setting on the stop temperature on the how water charge.

- Active start guide: Addition could be activated in the start guide without circulation pumps running.

ADDED

- If a slave has a communication alarm listing of compressor starts will be blocked.

- Safety function so you could not set the addition need on a faulty priority.

- Because F2015 is not sending all the data (max flow, max return, calculated effect and min flow) in communication to SMO40, SMO40 will now add these for F2015.

- When hot water need and calculation need of the addition will now take in consideration if the compressor realy is docked to hot water, not only if they are available for operation.

ALARM

- If communication error with slaves:
  . Addition failed towards hot water.
  - Priority continued in pool even though no addition towards pool was available.

NIBE

Latest revision of this document: 2025-05-07
Listed below changes are official firmware versions.

Versions history
SMO 40

MENUES

- Hotwater/heating-icon for demand was not visible in service info when operating "only addition".

- SMS40 will first answer on return temp with BT71 and BT3 secondarily when you are sending "?temp". It used to answer with "--" instead of BT3.

Version: 5015R4
Release date: 2013-11-14

CHANGES

- At five installed heat pumps, all GP12 are controlled

- External return sensor, BT71, is shown in service info.

- Communication alarm cannot occur towards accessory EB10X-GP12.

- Not locked in HW-mode when heating deamand is complete and there is no HW-demand but the temperature is below HW-start.

- Translations updated

Version: 5015R2
Release date: 2013-10-30

First version