

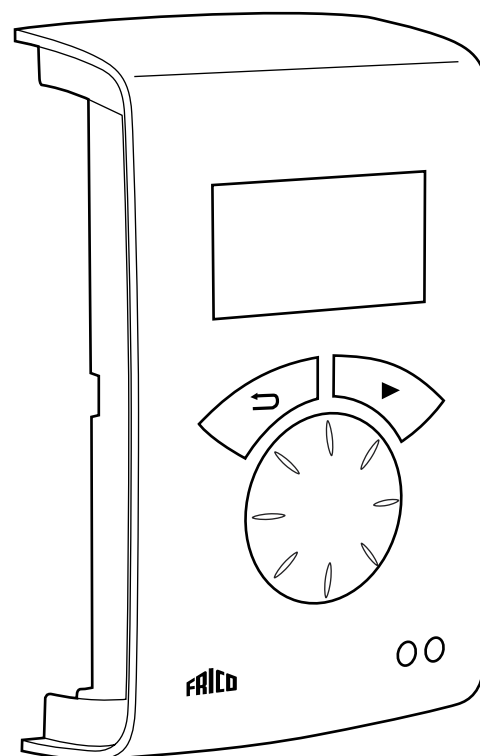
Original instructions

SIRe Competent Air Curtains

Water

With quick guide

SIReAC



SE ... 2

GB ... 19

DE ... 36

FR ... 54

For wiring diagram, please see p.71-73

For more languages, please see www.frico.se

Quick guide / Start up

Check that all constituent parts are present (see section Constituent parts).

Advice about location

PC board HUB SIReC1X is installed close to the unit. Control unit SIReUA1 has an integrated room temperature sensor and is installed so that it is easily accessible to the user. RJ12 modular cables, which are available in different lengths, are used to connect the PC board and the control unit. Longer cables are available as options. Maximum cable lengths see section Options.

To prevent unauthorised people from accessing the Control unit it can instead be placed in another area and an external room sensor, SIReRTX (option), can be installed in the entrance to sense the correct temperature. Maximum cable lengths see section Options.

Connect the system

Control board Base SIReB1(X) in/at the unit and control unit SIReUA1 are connected by PC board HUB SIReC1X with RJ12 modular cables. In SIReB1(X) the unit is also connected further with RJ12 modular cable if several units are to be connected in parallel.

If external room temperature sensor SIReRTX (option) is used it is connected using modular cable RJ11 on the PC Board HUB SIReC1X.

The actuator for water control and door switch SIReDC is connected to the terminal block on PC board HUB SIReC1X.

When required for fixed installation the supplied cable and plug are removed. Installation is carried out according to the applicable regulations.

Wiring diagram

The wiring diagram is in a separate section at the end of this manual.

When external PC board Base SIReB1X is used, wiring between the PC board base and the air curtain unit must be done. Please see separate manual for SIReB1X

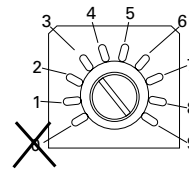
Enter ID

The control system can control one or more units in parallel (max 9). Each unit must have a unique ID number (1-9) which is set in the ID selector of the PC board.

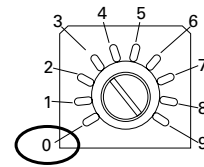
E.g.) Unit 1: ID=1, unit 2: ID=3

If the external control for some reason has not been installed the unit can still be run temporarily. The ID selector is then set to mode 0 in the image below. The function is half speed and heating on.

When the ID number must be changed the unit must be disconnected from power.



Each unit should have a unique ID on its SIReB1(X) card.



To run the unit temporarily without external control select mode 0.

Start up

System supplied with power. At the first start up, the start-up wizard is run and the basic settings are made. Fan and heating steps are tested through the test program. Then a status window is displayed.

Startguide

- 1
 - 2
 - 3
 - 4
 - 5
 - 6
 - 7
- Screen function test
- Start-up guide
- Fan step 1-5
- Heating step off-1
- Checking system

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Installer menu

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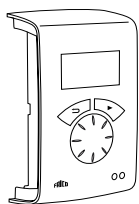
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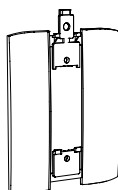
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Constituent parts

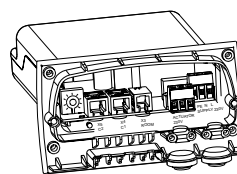
SIReAC



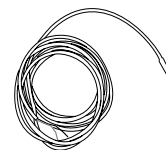
SIReUA1,
control unit
Competent and
Advanced



Wall unit
cover

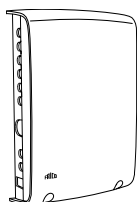


SIReB1,
integrated
PC board Base

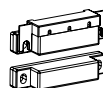


SIReIT,
internal
temperature
sensors

Integrated in the air curtain



SIReC1X,
PC Board HUB
Competent



SIReDC, magnetic
door contact



SIReCC,
modular cables

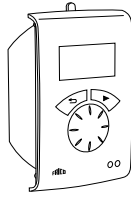
Dimensions constituent parts

Type	Description	HxWxD [mm]	L [m]
SIReUA1	Control unit Competent and Advanced	120x70x35	
SIReC1X	PC Board HUB Competent	202x139x50	
SIReDC	Magnetic door contact		
SIReB1	Integrated PC board Base		
SIReIT	Internal temperature sensor		1
SIReCC603	Modular cable RJ12		3
SIReCC605	Modular cable RJ12		5

Option



SIReRTX, external room temperature sensor



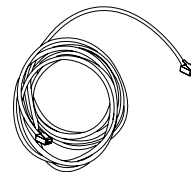
SIReUR, kit for recessed installation



SIReCJ4, joint piece



SIReCJ6, joint piece



SIReCC, modular cables

Type	RSK-no.	E-no.	Description	HxWxD [mm]	L [m]
SIReRTX	673 09 22	87 510 12	External room temperature sensor	70x33x23	
SIReUR*	673 09 21	87 510 11	Kit for recessed installation	114x70x50	
SIReCJ4			Joint piece for two pcs. RJ11 (4/4)		
SIReCJ6			Joint piece for two pcs. RJ12 (6/6)		
SIReCC603	673 09 23	87 510 13	Modular cable RJ12		3
SIReCC605	673 09 24	87 510 14	Modular cable RJ12		5
SIReCC610	673 09 25	87 510 15	Modular cable RJ12		10
SIReCC615	673 09 26	87 510 16	Modular cable RJ12		15
SIReCC403	673 09 27	87 510 17	Modular cable RJ11		3
SIReCC405	673 09 28	87 510 18	Modular cable RJ11		5
SIReCC410	673 09 29	87 510 19	Modular cable RJ11		10
SIReCC415	673 09 30	87 510 20	Modular cable RJ11		15

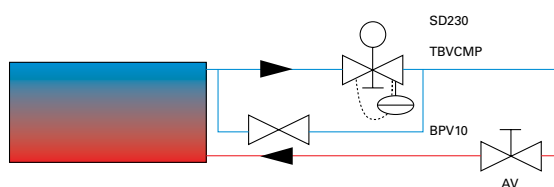
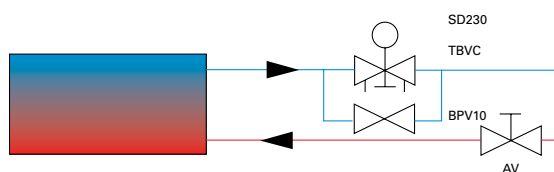
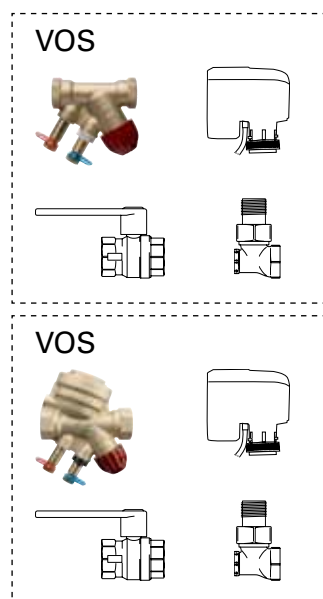
*) See separate manual.

Max. cable lengths

- Modular cable RJ12 between SIReUA1 and SIReC1X: max 50 m
- Modular cable RJ12 between SIReC1X and SIReB1(X): max 10 m
- Modular cable RJ12 between two SIReB1(X): max 50 m
- Modular cable RJ11 to room sensor SIReRTX: max 20 m

Total RJ12 cable length permitted in the system is a maximum of 300 m.

Water control - valve package



Water control - option



VAT, adjustment tool for valve package

Type	RSK-no.	Description	Flow	Connection
VOS15LF	673 09 35	On/off	Low	DN15
VOS15NF	673 09 36	On/off	Normal	DN15
VOS20	673 09 37	On/off	Normal	DN20
VOS25	673 09 38	On/off	Normal	DN25
VOSP15LF	673 09 43	Pressure independent	Low	DN15
VOSP15NF	673 09 44	Pressure independent	Normal	DN15
VOSP20	673 09 45	Pressure independent	Normal	DN20
VOSP25	673 09 46	Pressure independent	Normal	DN25
VAT	482 98 30	Adjustment tool for valve package		

Operating modes

Door that is opened and closed

The control function notes whether the door is open or closed as standard, this mode is default set and is called **Fixed flexible** (the setting is under **Installer menu > Settings fan > Door mode**).

Open door

Indicates ÖP on the installer status screen. The fan speed runs at high speed which is set under **Main menu > Fan speed > Max fan speed**.

Normally it is requested that heat is engaged when the door is opened. The setpoint value (Room temp. day) is then increased with the fixed setpoint value difference that can be changed under **Installer menu > Settings heating > Open door setp. diff.**, factory setting 3.0 K. The set point is set under **Main Menu > Temperature settings > Room temp. day**. If week program is used the night time set point value is set under **Main menu > Temp. settings > Room temperature night**. The room temperature is measured using the integrated room temperature sensor or the external room temperature sensor, SIReRTX (option).

Closed door

Indicated ST on the installer status screen. The fan speed runs at low speed which is set under **Main menu > Fan speed > Speed closed door**.

Heating is regulated to Room temp. Day which is set under **Main Menu > Temperature settings > Room temp. day**. If week program is used the night time set point value is regulated against the Room temperature is set under **Main menu > Temp. settings > Room temperature night**. The room temperature is regulated using the integrated room temperature sensor or the external room temperature sensor, SIReRTX (option).

When the door is closed - over run

When heat has been connected and the door

has been closed, high speed mode remains to cool the unit from any excess heat during the fixed time that is set under **Installer menu > Settings fan > Door over run > High speed over run** and at low speed during a fixed time under **Installer menu > Settings fan > Door over run > Low speed over run**, on the condition that it is sufficiently warm in the premises, otherwise the fans run until the desired temperature has been reached. When the door is closed, the set point value shifts from room temperature + fixed set point value difference for open door to Room temp. day/night.

Over run is factory set so that the over run times are controlled according to how often the door is opened (Auto mode under **Installer menu > Settings fan > Over run door > Over run mode**).

Doors that are always or often left open for longer periods

If a door is always, or often, left open it is possible to use a function called CURRENT STAGE instead. The fan and heating steps increase/decrease 6 or 9 steps (depending on the type of unit) and are only controlled by the room temperature.

Current stage is activated in two ways:

Doors that are always open

For a door that is always open, door mode **Locked open** can be selected under **Settings fan > Door mode**.

Doors that are often open for longer periods

For a door that is often open **Auto** can be selected under **Installer menu > Settings fan > Door mode**. In Auto mode, the control automatically switches between **Flexible** and **open** modes depending on how often the door has been open (when the door has been open for longer than 300 seconds the function changes from Flexible to Open).

Function description of current stage

The task of the Current stage function is to balance the room climate when a door is always open by using the right combination of fan and heating step.

In open mode, the room temperature is read every 60 seconds (the first 6 cycles, and then every 5 minutes and at each reading any Current stage adjustments are made, i.e. fan control and supplied out adjusted.

Winter

If winter mode is selected under **Main Menu > Summer / Winter**.

- If the room temperature is more than 3 degrees below the current settings, the current stage increases by 2 steps.
- If the room temperature is between 1 and 3 degrees below the current settings, the current stage increases by 1 step.
- If the room temperature is more than 2 degrees above the current setting, the current stage decreases by 1 step.

Summer

If summer mode is selected under **Main Menu > Summer / Winter**, heating is blocked.

- If the room temperature is more than 2 degrees below the current settings, the current stage increases by 1 step.
- If the room temperature is between 1 and 2 degrees below the current settings, the current stage decreases by 1 step.
- If the room temperature is more than 2 degrees greater than the Current settings, current stage increases by 1 step.
- If the room temperature is between 1 and 2 degrees above current settings, the current stage decreases by 1 step.

If fan control has been max. limited under **Main Menu > Fan control> High speed limit**, all current stages will be used but the fan will be limited to the current setting.

Table - Current stage for units with 5 fan controls

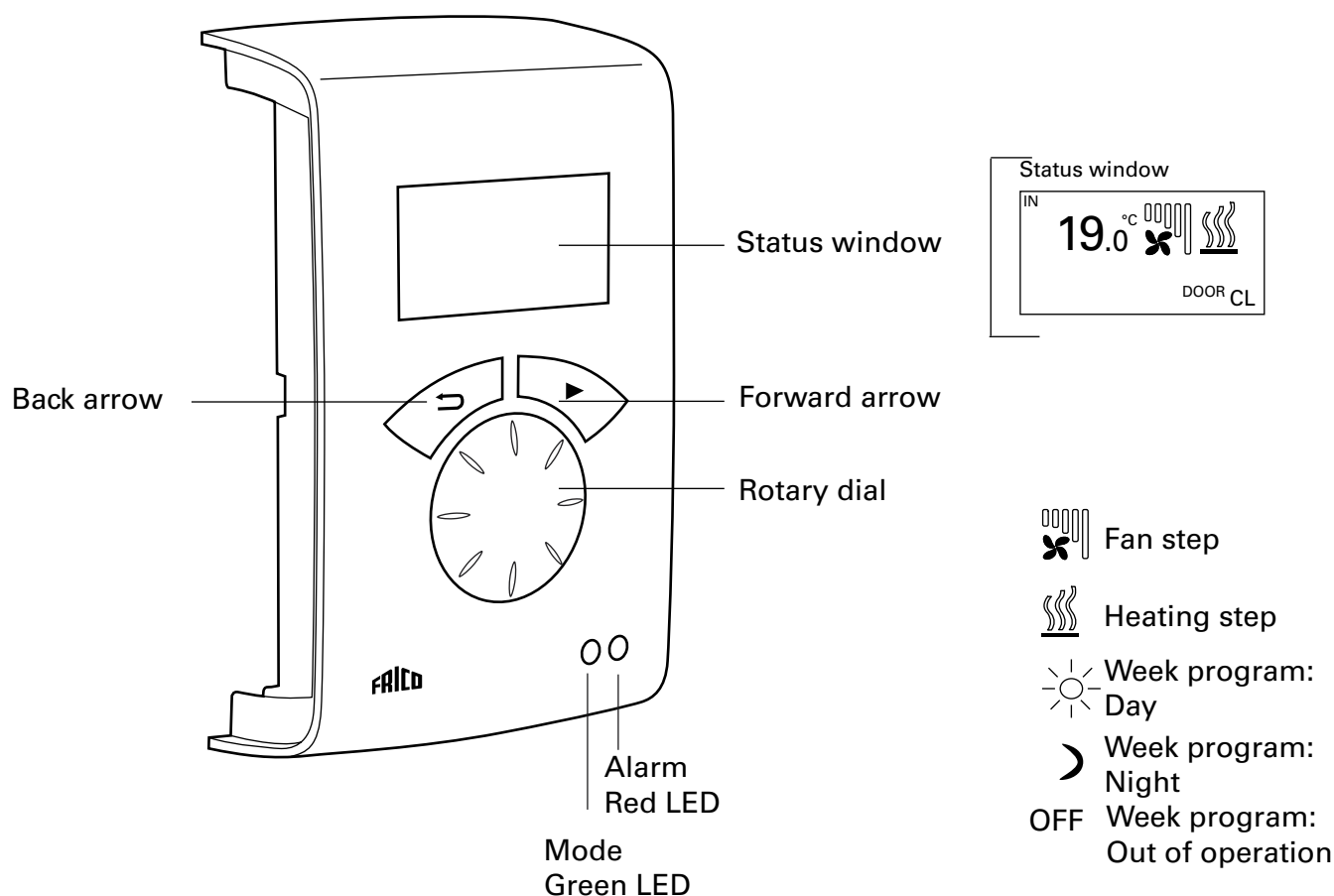
Current stage	Fan	Heating
0	0	OFF
1	1	OFF
2	2	OFF
3	2	ON
4	3	ON
5	3	ON
6	4	ON
7	5	ON
8	5	ON

Table - Current stage for units with 3 fan controls

Current stage	Fan	Heating
0	0	OFF
1	1	OFF
2	2	OFF
3	2	ON
4	3	ON
5	3	ON

Control unit SIReUA1

Overview



Explanations

Status window

The display shows the prevailing room temperature, fan and heating step, door status and day/night mode or Off when the week program is used.

Forward arrow

Confirm selection and proceed.

Rotary dial

Scroll between alternatives.

Back arrow

Go back.

After three minutes the control unit goes back to displaying the status window.

Status window

Press forward arrow ► to enter the main menu.

Main menu

Current settings

Displays set room temp, high speed limit, Speed closed door, Summer / Winter and week program status.

Main menu	Current settings
Current settings	Room temp. day 20°C
Temperature settings	Room temp. night 18°C
Fan control	High speed limit Step 5
	Speed closed door Step 1
	Summer / Winter Winter
	Week program No program

Temp. settings

Set the desired room temperatures to apply for day respectively night mode, when the door is closed (room temperature night is used for week program/night reduction). At open door these set point values automatically increase with a set point differential that can be set under **Installer menu > Heat settings> Open door setp. diff.** (Factory setting 3.0 K).

Main menu	Main menu>Temperature settings
Current settings	Room temp. day
Temperature settings	Room temp. night
Fan control	

Factory setting:

Room temp. day: 20 °C (5 – 35 °C)
Room temp. night: 18 °C (0 – 20 °C)

Fan control

Possibility of setting high speed mode and what speed should apply with a closed door (3 or 5 steps depending on the unit).

Main menu
Temperature settings
Fan control
Summer / Winter

Main menu>Fan control	Main menu>Fan control
High speed limit	High speed limit
Speed closed door	• Step 5
Main menu>Fan control	Main menu>Fan control
High speed limit	Speed closed door
Speed closed door	• Step 1

Factory setting:

High speed limit: 3 resp. 5 (1-3, resp. 1-5)
Speed closed door: 1 (Off-3, resp. Off-4)

Summer / Winter

To permit or block heating. Heating is permitted in winter mode. Summer mode is displayed with a crossed out heating symbol in the status window.

Main menu	> Installer menu > Summer / winter
Fan control	Summer / winter
Summer / winter	• Winter
System on / off	

Factory setting:

Summer/Winter: Winter (Summer - heat off)

System on/off

Switch the whole unit off manually. In Off the display goes out; as soon as a button is pushed the display lights and shows System on/off. To activate the unit again select On.

The unit's safety functions are still active when the system is switched off, which means that the fan can continue to run for a moment after mode Off has been selected.

Main menu
Fan control
System on/off
Installer menu

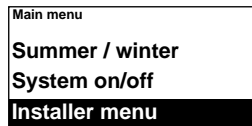
Installer menu

The installer menu is at the bottom of the main menu, this is password protected. See Installer menu in this manual.

Main menu	Main menu > Installer menu
Summer / winter	Enter password
System on/off	0 0 0 0
Installer menu	(See manual)

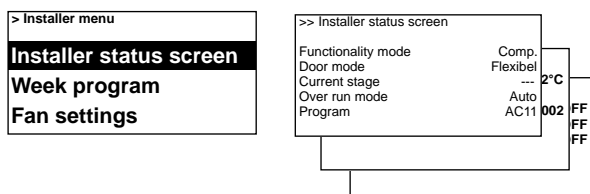
Installer menu

To enter the Installer menu, code 1932 is entered. Select the digits using the rotary dial and confirm using the forward arrow.



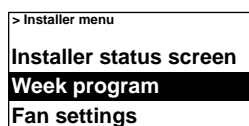
Installer status screen

Check the settings. The installer status screen consists of three pages with settings, scroll using the rotary dial.



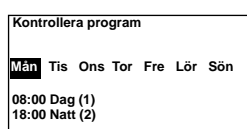
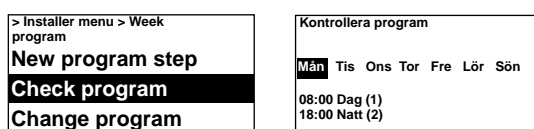
Week program

Make settings for week program.

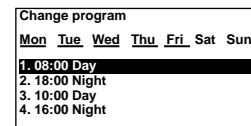


A basic program is pre-entered in SIRe.
 Mon-Fri Day from 08:00, Night from 18:00
 Sat Day from 10:00, Night from 16:00
 Sun Day from 11:00:00, Night from 14:00:00

To check which program is set for a particular day, select Check program and then switch between the days using the rotary dial.

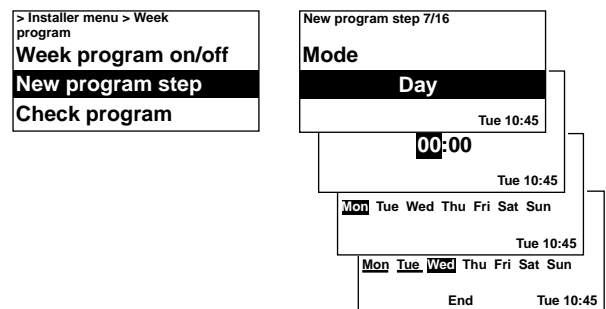


To check which days a certain program is active, select a week day by pressing the forward arrow, the program is marked and those days that the program is used will be underlined, switch between the programs for a particular day using the rotary wheel.



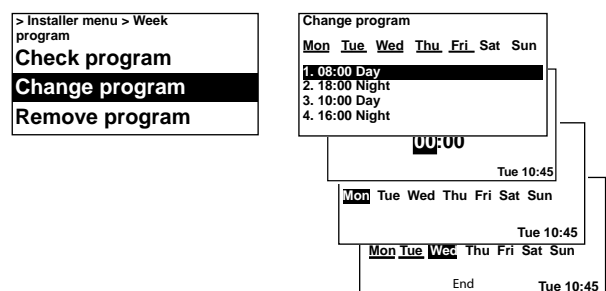
To add program step, select New program step. Confirm your selection with the forward arrow.

Select Day, Night or Off (if the unit should not be in operation), set the time for switch on and then for which days the program applies, then go to End to finish.



A new program step does not replace a set time for Day for example, but you can instead select to change a program step.

To change a program step, select Change program.



The program steps that should not apply are removed in Remove program. One or all program steps can be removed in the menu. To return to the factory set basic program, select Reset all.

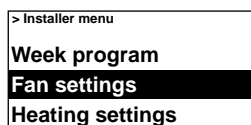


Week program is activated by selecting On, under Week program on/off. In On-mode, a sun, moon or Off in the Status window appears to indicate day, night respectively Off-function.



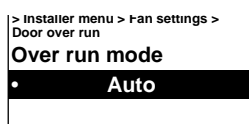
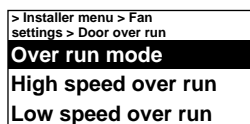
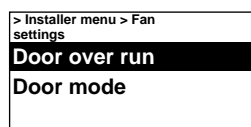
Settings fan

Make settings for fan mode.



Door over run

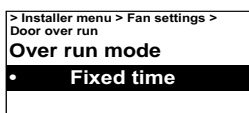
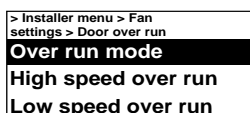
Settings for over run.



In over run mode Auto controls the over run time depending on how frequently the door is opened between openings, according to fixed preset values, according to the table.

Time between opening [s]	High speed over run [s]	Low speed over run [s]
$t < 60$	30	90
$60 < t < 300$	10	300
$t > 300$	0	180

Over run mode Fixed time is selected is one wants fixed over run times, the times can be changed during High speed over run and Low speed over run.

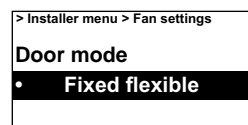
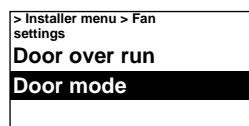


Factory setting:

Over run mode: Auto (Set time)
 High speed over run: 30 s (0 – 180 s)
 Low speed over run: 120 s (0 – 300 s)

Door mode

There are three different door modes to choose from; Auto, Fixed flexible and Fixed open.



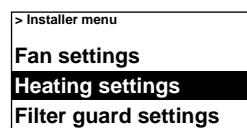
In Fixed flexible mode, the control function notes whether the door is open or closed. In Fixed open mode the door is considered always open and is only controlled based on the room temperature (see Current stage). In Auto mode, the control automatically switches between Flexible and open modes depending on how often the door has been open.

Factory setting:

Door mode: Fixed flexible (Fixed open/ Auto)

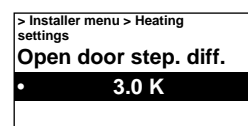
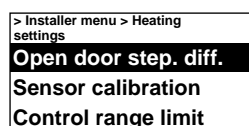
Settings heating

Make settings for heating-



Open door step. diff.

Set by how much the set point value (Room temp. day/night) is to increase when the door is open.



Factory setting:

Set point value difference open door: 3.0 K (0 K – -10 K)

Calibration sensors

If the sensor displays the wrong values these can be calibrated. Some display errors may occur, but this is primarily due to the location (cold/hot surfaces etc). The value + or – adds to or subtracts from the measured value (for example +2K gives an increase of the displayed value of 2 degrees).

> Installer menu > Heating settings
Open door step. diff.
Sensor calibration
Control range limit

> Installer menu > Heating settings > Sensor calibration
Room temp. sensor
Outdoor temp. sensor

> Installer menu > Heating settings > Sensor calibration
Room temp. sensor
• 0.0 K

Factory setting:

Room temperature sensor: 0.0 K (-10 K – 10 K)

Control range limit

The maximum room temperature that a user can select is limited to between 5 – 35 °C.

> Installer menu > Heating settings
Open door step. diff.
Sensor calibration
Control range limit

> Installer menu > Heating settings
Control range limit
• 35°C

Factory setting:

Control range limit temperature: 35 °C (5 – 35 °C)

Filter guard settings

Filter alarm alarms when the set fixed run time has been exceeded.

> Installer menu
Heating settings
Filter guard settings
External control

Filter timer setting

Under Filter timer setting, set the desired run time to between 50 and 9950 hours.

> Installer menu > Filter guard settings
Filter timer on/off
Filter timer setting
Last filter change

> Installer menu > Filter guard settings
Filter timer setting
• 750 h

Factory setting:

Filter timer setting 750 h (50 - 9950 h)

Filter timer on/off

Filter alarm is activated by selecting On, under Filter timer on/off.

> Installer menu > Filter guard settings
Filter timer on/off
Filter timer setting
Last filter change

Factory setting:

Filter timer on/off: Off (On)

Last filter change

To check the number of run time hours since the last filter replacement, select Last filter change.

The time is reset when the filter alarm is reset. If the time is to be reset before the alarm has gone, switch the filter timer on and off.

> Installer menu > Filter guard settings
Filter timer on/off
Filter timer setting
Last filter change

> Installer menu > Filter guard settings
Last filter change
0 h

External control (BMS)

BMS functions can be activated under External control.

Activate **External on/off** (5-30V AC/DC from BMS) or **0-10V fan control** by selecting On under the respective one. See diagram on next page and **Connecting external control**.

> Installer menu
Filter guard settings
External control
General settings

> Installer menu > External control
External on/off
0-10V fan control

> Installer menu > External control
External on/off
0-10V fan control

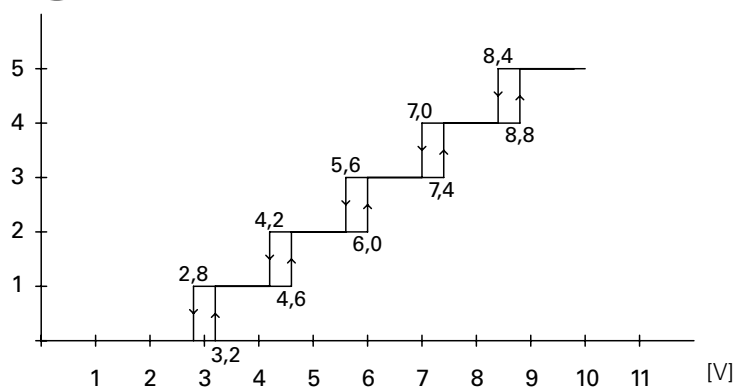


Diagram: Fan step at incoming 0-10V DC voltage level, 5 step

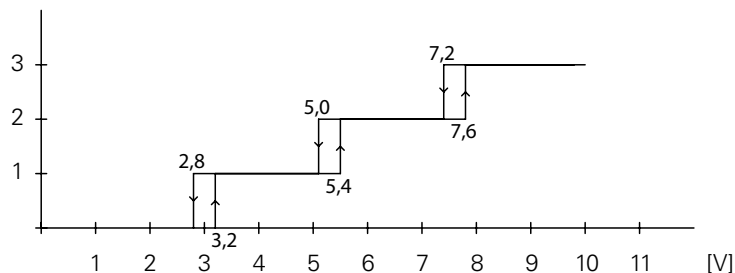
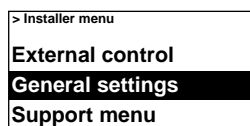


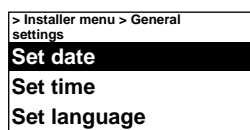
Diagram: Fan step for incoming 0-10V DC voltage level, 3-step.

General settings

Possibility of making general settings that are also in the Start-up wizard and execute user reset.

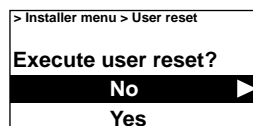
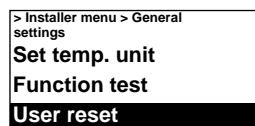


Change the date, time, language and temperature unit.



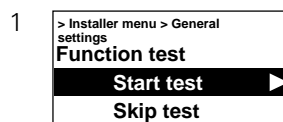
User reset

User reset (Room temp. day resp. night, high speed limit, speed closed door, door, Summer/Winter) to factory setting.

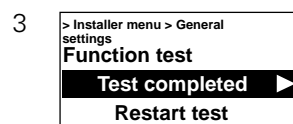
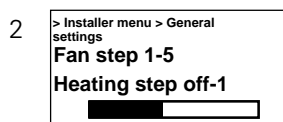


Function test

To test the fan and heating steps, run the function test.



Screen function test



Support menu

The Support menu is password protected and is used for support in contact with Frico or authorised service personnel.

Alarm and error codes

SIRe has different alarms and error codes for safe and problem free operation.

If alarms or error codes have been indicated these must be reset in order to return to normal operation, for example activating the heating again. Fan mode is active even when, for example, the over heating alarm has been indicated.

Displaying alarm and error codes

In event of alarm or error the alarm/error code is shown in the status window. In event of alarm/error code the unit it applies to is displayed. See **Table - Alarms** and **Table – Error codes**.

Reset alarm

Note! Before resetting, check that the fault is rectified and there is nothing to prevent the unit from being recommissioned!

When the fault is rectified, the alarm is reset by pressing the forward arrow and selecting **Reset alarm** and then confirm. If several units give an alarm at the same time, the fact that there are several alarms is indicated, but only one is shown in the display. By resetting that alarm the next alarm can be read.

Overheat protection

Only applies to units with internal sensor. The over heating protection is intended to restrict the exhaust temperature to 40°C. At 40°C the valve actuator closes. If the unit cools below +35 °C, heating is automatically reengaged. If the temperature should instead continue to rise, e.g. in the event of a faulty valve or actuator, the fan starts to speed up at 46 °C to keep the temperature down. At the same time there is an over heating alarm **A2**. At internal temperatures of 50 °C the fan runs at maximum speed.

If the unit cools below 35 °, heating is automatically reengaged. The alarm remains in the control unit's display. If the unit overheats twice within an hour, the fan operates until the alarm is reset.

Power failure

Note that in case of power failure the time settings need to be checked, if the time is not set correctly week program will be affected.

Frost protection function

Only applies to units with internal sensor. The frost protection function is intended to prevent the water coil from freezing. If the internal temperature falls below +5 °C frost protection alarm **A3** is given, the valve actuator opens and the fan stops.

Note! In event of repeated alarms, overheating alarms and frost protection alarms, carry out a thorough check and if the fault cause cannot be found contact authorised service personnel or Frico.

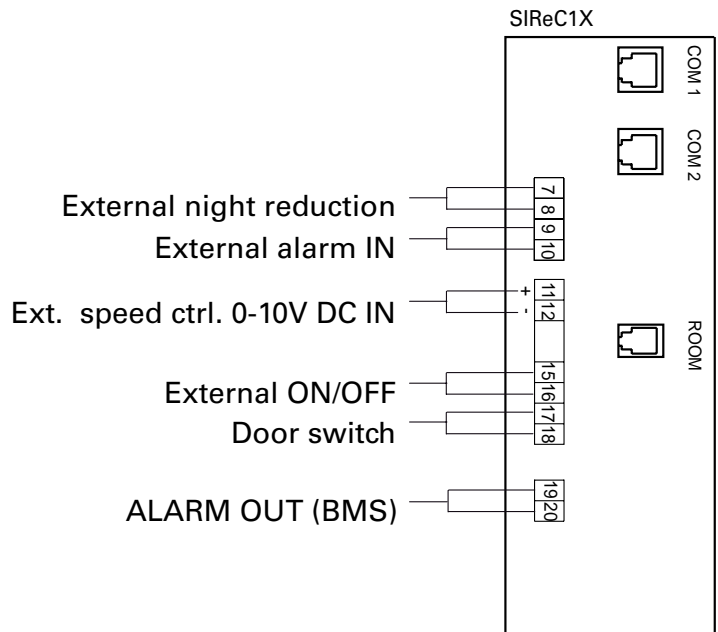
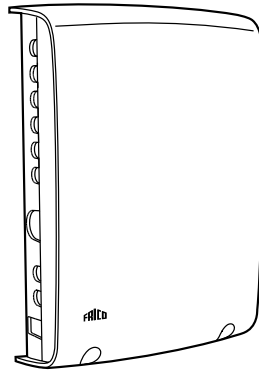
Table - Alarm

Alarm	Cause	Action
A1 Motor alarm	Thermal switch has deployed. One or several motors have overheated. (Only units with withdrawn thermal switches.)	Check that nothing is obstructing the unit's air intake and exhaust. When the overheated motor has cooled the thermal switch shuts again and the alarm can be reset. At repeated alarms, check the motors, replace damaged motors.
A2 Over heating alarm	The temperature in the unit has exceeded the alarm limit for overheating. (Only applies to units with internal unit temperature.)	Check that nothing is obstructing the unit's air intake and exhaust, the function of the actuator and valve, flow temperature and internal temperature sensor.
A3 Frost protection alarm	The temperature in the unit has fallen below the alarm limit for frost protection. (Only applies to units with internal unit temperature.) The water return temperature has fallen below the alarm limit (only when the return temperature sensor is used).	Make sure that the ambient temperature where the air curtain is installed exceeds +5°C. Check the flow temperature, the flow of hot water and the function of the actuator and valve. In event of an alarm there a risk that the battery is damaged, check carefully for leakage and replace the battery if damaged.
A4 Filter alarm	Fixed run time before the filter alarm has been reached.	Replace or clean the filter, adjust any alarm time based on how dirty the filter was and reset the alarm.
A5 Ext. alarm	External alarm input on SIReC1X has been activated.	Check the external alarm.

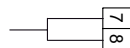
Table – Error codes

Error code	Cause	Action
E1 Communication	SIReB1(X) has no contact with SIReC1X.	Check connection between the boards. Replace any modular cables.
E2 ID Error	Two or more SIReB1(X) have the same ID number.	Cut the current and select different ID numbers for all SIReB1 (X) in the system.
E3 ID Error	One or several SIReB1(X) does not have a program.	Contact Frico for support.
E4 Room sensor error	Error in or missing external room sensor SIReRTX connected to SIReB1(X).	Always disconnect the power when connecting or disconnecting sensors. Check connection of the sensor.
E8 Internal sensor faults	Fault on or missing internal sensor in the unit (applies to units with internal sensor).	Check connection of the sensor. If there is no sensor, contact Frico for support.
E10 ID Error	Two or more SIReB1 (X) in the system have different programs.	Contact Frico for support.
E12 Room sensor error	Error in or missing external room sensor SIReRTX connected to SIReC1X.	Always disconnect the power when connecting or disconnecting sensors. Check connection of the sensor.
E20 Communication	Control unit SIReUA1 has no contact with SIReC1X.	Check the connection. Replace any modular cables.
E21 Room sensor error	Error in the internal room sensor in the control unit SIReUA1.	Check the connection between SIReUA1 and SIReC1X. Replace any modular cables. If the error is not rectified SIReUA1 must be replaced.

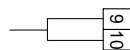
Connecting external control - including BMS functions



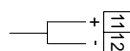
External night reduction on/off (potential-free switch)
Closes to activate the night reduction function. Always active.



External alarm IN (potential free contact)
Input for external alarm. Closing gives alarm.

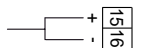


External speed control 0-10V DC
Controls the fan speed in steps (see diagram section External control (BMS)).
Set parameter: >> Installer menu > External control > 0-10V Fan control = On



External on/off 5-30V AC/DC

External signal activates the air curtain.
Set parameter: >> Installer menu > External control > External On/Off= On



Door switch (obligatory) (External potential-free switch)

SIReDC indicates door status.
Potential-free switch from door automatic or BMS can also be used.
Closed = door open
Open = door closed

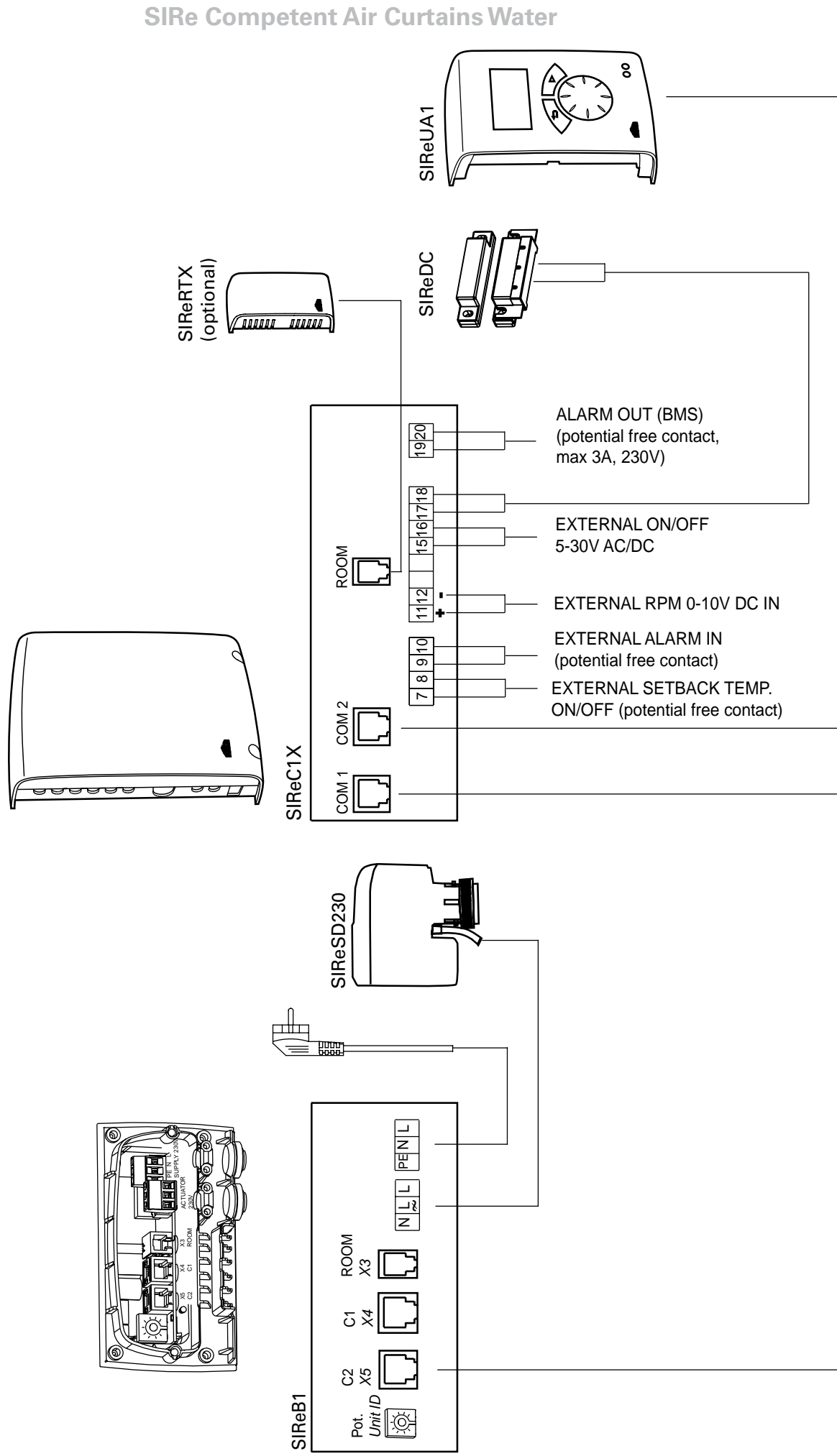


Alarm outgoing (BMS) (potential-free switch, max 3A, 230V)

Outgoing alarm indication.
Always active.
Closed = buzzer alarm
Open = no alarm

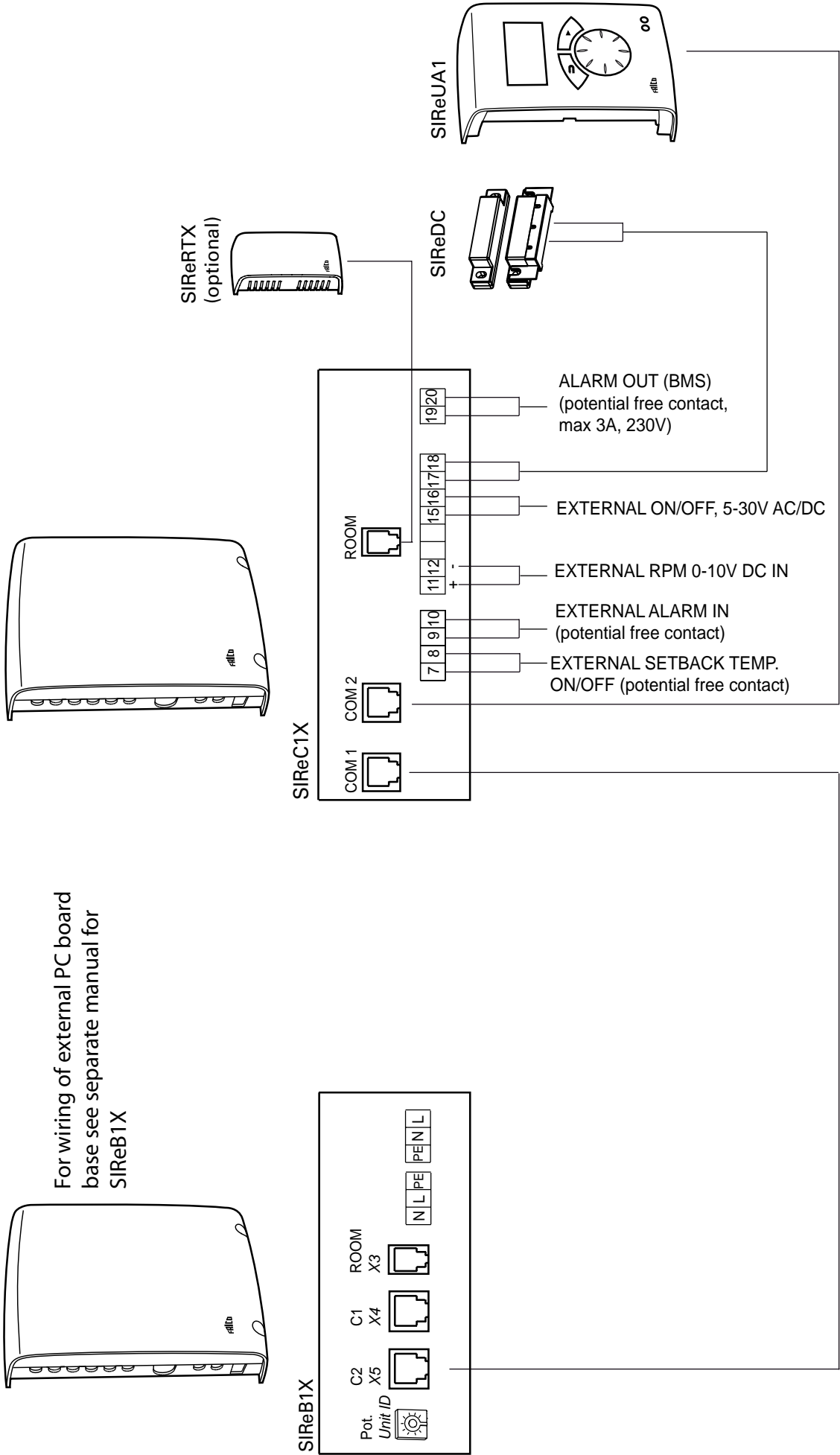


Wiring diagram - Competent
Internal PC Board Base

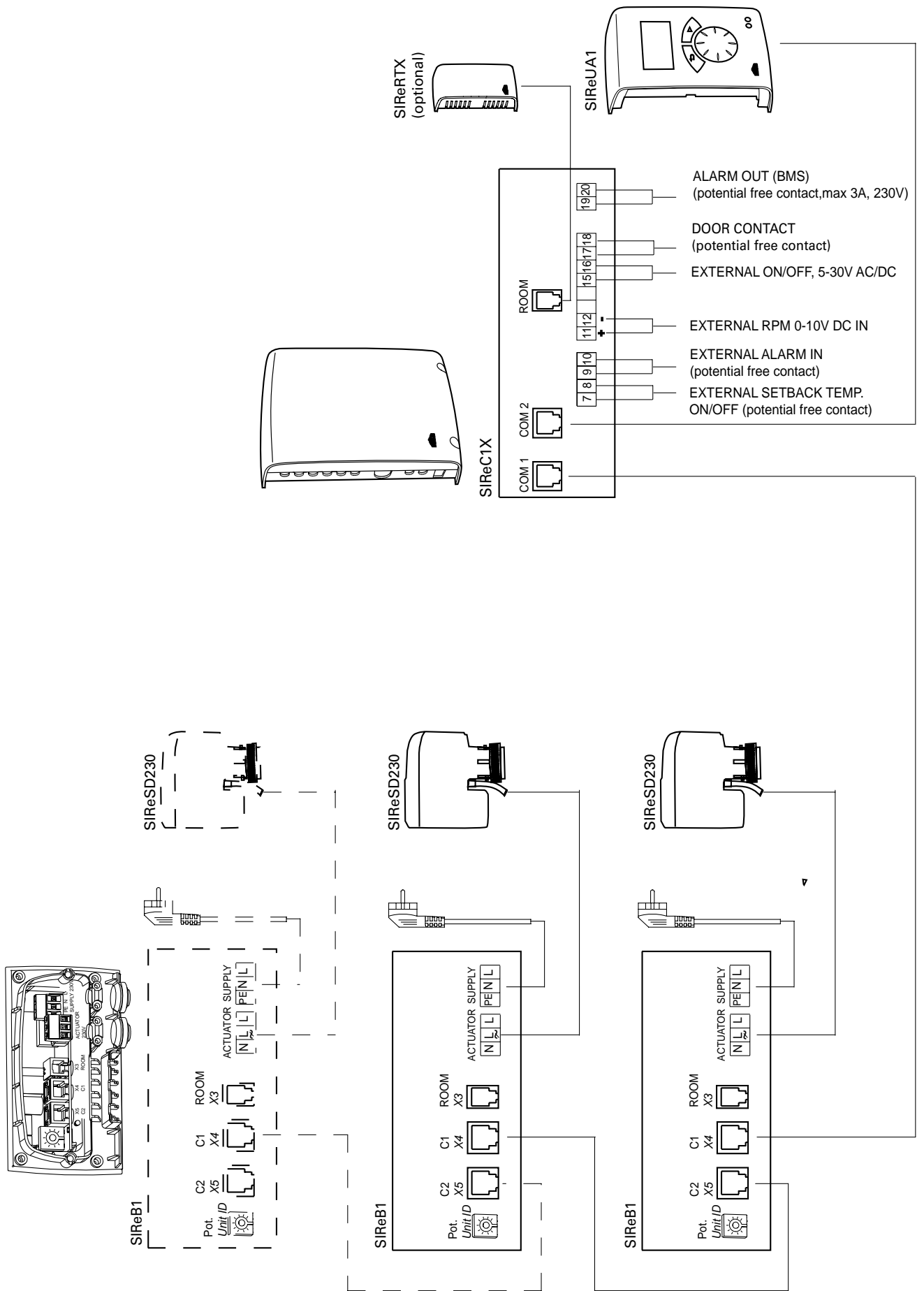


Wiring diagram - Competent
External PC Board Base

SIRe Competent Air Curtains Water



Wiring diagram - Competent- parallel connection



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