



# Control units

for sauna, wellness & spa

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Which control unit goes with your sauna?

[checklist](#)

More information?

[www.fasel-gmbh.de](http://www.fasel-gmbh.de)





# Bath modes at a glance



SAUNA

WALL	DESIGN	GLASS	TOUCH
FCU1000	-	-	-
FCU2000	FCU2000-Design	-	-
FCU3000	FCU3000-Design	FCU3000-Design-Glass	-
FCU4000	FCU4000-Design	FCU4000-Design-Glass	-
-	-	-	FLU 5000-Design-Touch



SAUNA AND SAUNA  
WITH HUMIDITY

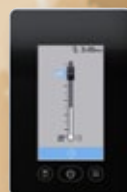
WALL	DESIGN	GLASS	TOUCH
FCU1200	-	-	-
FCU2200	FCU2200-Design	-	-
FCU3200	FCU3200-Design	FCU3200-Design-Glass	-
FCU4200	FCU4200-Design	FCU4200-Design-Glass	-
-	-	-	FLU 5200-Design-Touch



SAUNA, SAUNA WITH  
HUMIDITY AND INFRARED

WALL	DESIGN	GLASS	TOUCH
FCU3400	FCU3400-Design	FCU3400-Design-Glass	-
FCU4400	FCU4400-Design	FCU4400-Design-Glass	-
-	-	-	FLU 5400-Design-Touch

Which bath mode(s) do you want to operate with the control unit?



#### STEAM BATH

WALL	DESIGN	GLASS	TOUCH
FCU2000-Steam	FCU2000-Steam-Design	-	-
FCU3000-Steam	FCU3000-Steam-Design	FCU3000-Steam-Design-Glass	-
FCU4000-Steam	FCU4000-Steam-Design	FCU4000-Steam-Design-Glass	-
-	-	-	FLU 5000-Steam-Design-Touch



#### INFRARED

WALL	DESIGN
-	FCU2000-IR-Design
FCU3000-IR	FCU3000-IR-Design
FCU4000-IR	FCU4000-IR-Design
FCU4000-IR-6KW	-

# Series and their functions



Series / Features	Temperature control	Humidity control	Display	Programmes per bath mode	Display of set point temperature	Display of actual temperature	Display of set point humidity
<i>slimline</i> (Series 1000)	Single sensor system (1 x stove sensor)	time-controlled	Spec. LC display unlit	1	in steps	only graphical	in steps
<i>ecoline</i> (Series 2000)	Single sensor system (1 x stove sensor)	time-controlled	14-Segment LC-Display unlit	1	yes	only graphical	in steps
<i>familyline</i> (Series 3000)	Dual sensor system (1 x stove sensor + 1 x bench sensor)	time-controlled or optionally with a humidity sensor	14-Segment LC-Display lit	1	yes	yes	yes
<i>profiline</i> (Series 4000)	Dual sensor system (1 x stove sensor + 1 x bench sensor)	time-controlled or optionally with a humidity sensor	Graphic LC-Display lit	8	yes	yes	yes
<i>touchline</i> (Series 5000)	Dual sensor system (1 x stove sensor + 1 x bench sensor)	time-controlled or optionally with a humidity sensor	4,3" Touch-Display lit	1	yes	yes	yes

Which series fits the bath modes and functions which you want?



Display of actual humidity	Preset time	Weekly timer	Cabin light dimmable	Fan speed adjustable	Max. stove load	Max. steam generator load	Max. infrared heating unit load	Connection for extension power unit
no	no	no	no	no	3 x 3 kW	1 x 3 kW	no	no
no	max. 24 hours	no	no	no	3 x 3 kW	1 x 3 kW	no	yes
yes (with humidity sensor)	max. 24 hours	no	yes	yes	3 x 3 kW	1 x 3 kW	1 x 3 kW	yes
yes (with humidity sensor)	max. 24 hours	optionally 2 programmes per day (not VDE compliant)	yes	yes	3 x 3 kW	1 x 3 kW	1 x 3 kW	yes
yes (with humidity sensor)	max. 24 hours	no	yes	yes	3 x 3 kW	1 x 3 kW	1 x 3 kW	yes

# There are three housing alternatives available:

## The classic - WALL

The high-quality design of the housing is an eye-catcher in any wellness area. This version is characterised by its easy installation. With the additional option of cable entry from below, this design is also suitable for mounting on concrete or stone walls. This version is available in all series.

Dimensions: H 247 mm, W 285 mm, L 86 mm



## The slim solution - DESIGN

The innovative, slim ABS plastic housing goes with any sauna architecture. Areas with a high proportion of glass or where there is little space for installation play to the strengths of this version with its low space requirement. With its low height, the housing fits behind any door or in any niche. The base unit belonging to every flush-mounted operating unit can be installed up to 100 m away. This version is available in all series.

Dimensions: H 198 mm, W 124 mm, L 8 mm (installation depth 24 mm)



## The visual highlight - GLASS

The control panel consists of a one-piece glass plate which simply has to be seen. It can be flush-mounted and it accentuates any modern sauna architecture. Using the active areas to operate the unit is a sensual pleasure. This version is available both for *family line* and for *profile*.

Dimensions: H 197 mm, W 122 mm, L 4 mm (installation depth 24 mm)



## The future - TOUCH

Experience the future of sauna and wellness control systems! The large 4.3" touch display scores with its intuitive handling and clear, self-explanatory symbols. No need to change the display language during operation. With a minimal depth of 6.5 mm and the fully glazed surface, these controls are not only a technical marvel but also a visual highlight of *touch line*.

Dimensions: H 157 mm, W 104 mm, L 6,5 mm (installation depth 24 mm)





Which housing or mounting version  
do you like best?





# Overview of functions

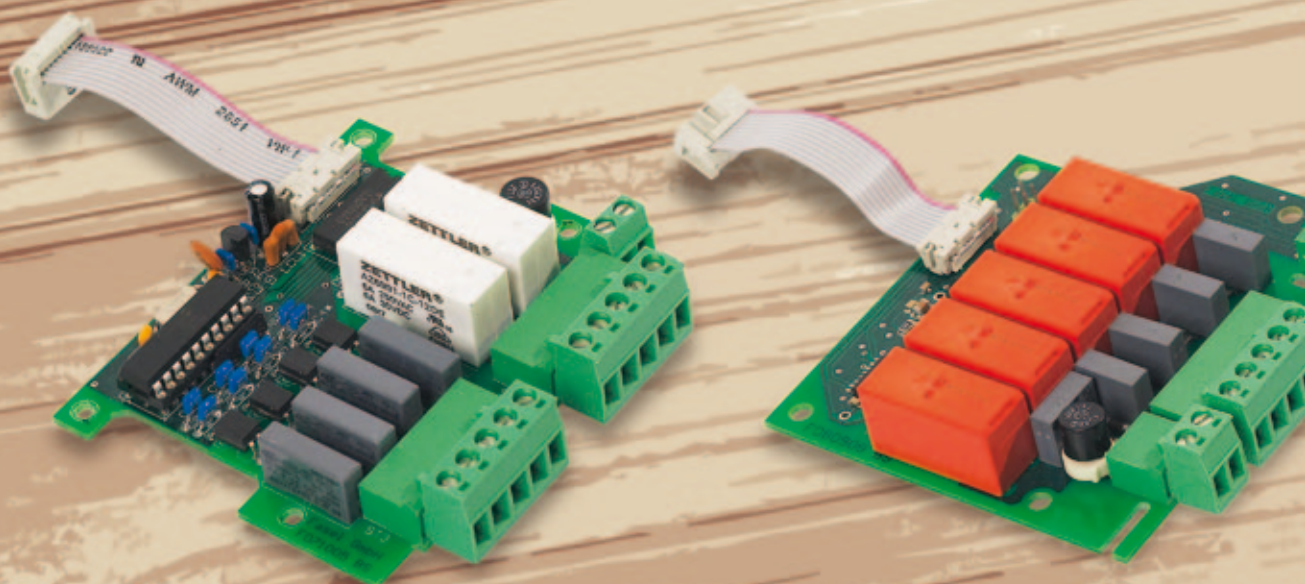
CONTROL UNITS		Single sensor system	Dual sensor system	Optional sensors	Humidity x = time-controlled o = with humidity sensor (optional)
	FOR SAUNAS	Stove sensor	Stove + bench sensor		
	FCU1000	x	-	-	-
	FCU2000	x	-	-	-
	FCU2000-Design	x	-	-	-
	FCU3000	-	x	-	-
	FCU3000-Design	-	x	-	-
	FCU3000-Design-Glass	-	x	-	-
	FCU4000	-	x	-	-
	FCU4000-Design	-	x	-	-
	FCU4000-Design-Glass	-	x	-	-
	FCU5000-Design-Touch	-	x	-	-
 	FOR SAUNAS AND SAUNAS WITH HUMIDITY	Stove sensor	Stove + bench sensor		
	FCU1200	x	-	-	x
	FCU2200	x	-	-	x
	FCU2200-Design	x	-	-	x
	FCU3200	-	x	-	x / o
	FCU3200-Design	-	x	-	x / o
	FCU3200-Design-Glass	-	x	-	x / o
	FCU4200	-	x	-	x / o
	FCU4200-Design	-	x	-	x / o
	FCU4200-Design-Glass	-	x	-	x / o
	FCU5200-Design-Touch	-	x	-	x / o
  	FOR SAUNAS, SAUNAS WITH HUMIDITY AND INFRARED	Stove sensor	Stove + bench sensor	Infrared surface	
	FCU3400	-	x	x	x / o
	FCU3400-Design	-	x	x	x / o
	FCU3400-Design-Glass	-	x	x	x / o
	FCU4400	-	x	x	x / o
	FCU4400-Design	-	x	x	x / o
	FCU4400-Design-Glass	-	x	x	x / o
	FCU5400-Design-Touch	-	x	x	x / o

Leaving nothing to be desired...

Optional menu guide "small" or "pro"	Adjustment to on-site circumstances through basic settings, service and configuration menus	Connection for extension power unit	24h realtime clock and pre-setting time	Weekly timer function	Cabin light dimmable	Fan for exhaust air adjustable	Special alternatives for gas stoves
-	-	-	-	-	-	-	-
X	X	X	X	-	-	-	X
X	X	X	X	-	-	-	X
X	X	X	X	-	X	X	X
X	X	X	X	-	X	X	X
X	X	X	X	-	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
-	X	X	X	-	X	X	-
-	-	-	-	-	-	-	-
X	X	X	X	-	-	-	X
X	X	X	X	-	-	-	X
X	X	X	X	-	X	X	X
X	X	X	X	-	X	X	X
X	X	X	X	-	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
-	X	X	X	X	X	X	-
X	X	X	X	-	X	X	X
X	X	X	X	-	X	X	X
X	X	X	X	-	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
-	X	X	X	X	X	X	-

# Overview of functions

CONTROL UNITS		Single sensor system	Dual sensor system	Optional sensors	Humidity x = time-controlled o = with humidity sensor (optional)
	FOR STEAM BATHS	Room sensor		Seat heater	
	FCU2000-Steam	X		-	-
	FCU2000-Steam-Design	X		-	-
	FCU3000-Steam	X		X	-
	FCU3000-Steam-Design	X		X	-
	FCU3000-Steam-Design-Glass	X		X	-
	FCU4000-Steam	X		X	-
	FCU4000-Steam-Design	X		X	-
	FCU4000-Steam-Design-Glass	X		X	-
	FCU5000-Steam-Design-Touch	X		X	-
	FOR INFRARED	Room sensor		Infrared surface	
	FCU2000-IR-Design	X		X	-
	FCU3000-IR	X		X	-
	FCU3000-IR-Design	X		X	-
	FCU4000-IR	X		X	-
	FCU4000-IR-Design	X		X	-
	FCU4000-IR-Design-6KW	X		X	-





## Benefit from our expertise...

Optional menu guide "small" or "pro"	Adjustment to on-site circumstances through basic settings, service and configuration menus	Connection for extension power unit	24h realtime clock and pre-setting time	Weekly timer function	Cabin light dimmable	Fan for exhaust air adjustable	Special alternatives for gas stoves
X	X	-	X	-	-	-	-
X	X	-	X	-	-	-	-
X	X	-	X	-	X	X	-
X	X	-	X	-	X	X	-
X	X	-	X	-	X	X	-
X	X	-	X	X	X	X	-
X	X	-	X	X	X	X	-
X	X	-	X	X	X	X	-
-	X	-	X	-	X	X	-
X	X	X	X	-	-	-	-
X	X	X	X	-	X	X	-
X	X	X	X	-	X	X	-
X	X	X	X	X	X	X	-
X	X	X	X	X	X	X	-
X	X	X	X	X	X	X	-



# Extensions and accessories



CONTROL UNITS		Humidity sensor	Bench sensor	Infrared surface sensor	Interior display (with / without buttons and optional radio hand transmitters)
	FOR SAUNAS				
	FCU1000	-	-	-	-
	FCU2000	-	-	-	-
	FCU2000-Design	-	-	-	-
	FCU3000	-	-	-	X
	FCU3000-Design	-	-	-	X
	FCU3000-Design-Glass	-	-	-	X
	FCU4000	-	-	-	X
	FCU4000-Design	-	-	-	X
	FCU4000-Design-Glass	-	-	-	X
	FCU5000-Design-Touch	-	-	-	X
 	FOR SAUNAS AND SAUNAS WITH HUMIDITY				
	FCU1200	-	-	-	-
	FCU2200	-	-	-	-
	FCU2200-Design	-	-	-	-
	FCU3200	X	-	-	X
	FCU3200-Design	X	-	-	X
	FCU3200-Design-Glass	X	-	-	X
	FCU4200	X	-	-	X
	FCU4200-Design	X	-	-	X
	FCU4200-Design-Glass	X	-	-	X
	FCU5200-Design-Touch	X	-	-	X
  	FOR SAUNAS, SAUNAS WITH HUMIDITY AND INFRARED				
	FCU3400	X	-	X	X
	FCU3400-Design	X	-	X	X
	FCU3400-Design-Glass	X	-	X	X
	FCU4400	X	-	X	X
	FCU4400-Design	X	-	X	X
	FCU4400-Design-Glass	X	-	X	X
	FCU5400-Design-Touch	X	-	X	X

# As individual as yourself...

Additional keyboard Remote control	Modules for 230 V and floating inputs and outputs	Coloured light modules for 230 V, LED and starry sky	Web Control for remote con- trol via web browser and home server (HTTP commands)	Extension power unit	Coloured light devices from other suppliers can also be controlled	
					RGB coloured light from Licht 2000	Multitask control from Licht 2000
-	-	-	-	-	-	-
-	X	X	-	X	-	-
-	X	X	-	X	-	-
X	X	X	X	X	X	X
X	X	X	X	X	X	X
-	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
-	X	X	X	X	X	X
-	X	X	X	X	X	X
-	-	-	-	-	-	-
-	X	X	-	X	-	-
-	X	X	-	X	-	-
X	X	X	X	X	X	X
X	X	X	X	X	X	X
-	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
-	X	X	X	X	X	X
-	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
-	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
-	X	X	X	X	X	X
-	X	X	X	X	X	X



# Extensions and accessories

CONTROL UNITS		Humidity sensor	Bench sensor	Infrared surface sensor	Interior display (with / without buttons and optional radio hand transmitters)
	FOR STEAM BATH				
	FCU2000-Steam	-	-	-	-
	FCU2000-Steam-Design	-	-	-	-
	FCU3000-Steam	-	X	-	X
	FCU3000-Steam-Design	-	X	-	X
	FCU3000-Steam-Design-Glass	-	X	-	X
	FCU4000-Steam	-	X	-	X
	FCU4000-Steam-Design	-	X	-	X
	FCU4000-Steam-Design-Glass	-	X	-	X
	FCU5000-Steam-Design-Touch	-	X	-	X
	FOR INFRARED				
	FCU2000-IR-Design	-	-	X	-
	FCU3000-IR	-	-	X	X
	FCU3000-IR-Design	-	-	X	X
	FCU4000-IR	-	-	X	X
	FCU4000-IR-Design	-	-	X	X
	FCU4000-IR-Design-6KW	-	-	X	X



# Your demand = Our challenge!

Additional keyboard Remote control	Modules for 230 V and floating inputs and outputs	Coloured light modules for 230 V, LED and starry sky	Web Control for remote con- trol via web browser and home server (HTTP commands)	Extension power unit	Coloured light devices from other suppliers can also be controlled	
					RGB coloured light from Licht 2000	Multitask control from Licht 2000
-	X	X	-	-	-	-
-	X	X	-	-	-	-
X	X	X	X	-	X	X
X	X	X	X	-	X	X
-	X	X	X	-	X	X
X	X	X	X	-	X	X
X	X	X	X	-	X	X
-	X	X	X	-	X	X
-	X	X	X	-	X	X
-	X	X	-	X	-	-
-	X	X	-	X	X	X
-	X	X	-	X	X	X
-	X	X	-	X	X	X
-	X	X	-	X	X	X
-	X	X	-	X	X	X



# Most frequently asked questions



## 1. What do I have to consider when planning the electrical installation?

**Answer:** The cable diameters must match the power consumption. See technical data [www.fasel-gmbh.de](http://www.fasel-gmbh.de). Talk to your electrical specialist during the planning phase.

## 2. What is the maximum length of cable for a design keyboard, interior display, etc.?

**Answer:** The maximum length is 100 metres when using a cable of type AWG26, CAT5.

## 3. Which electric stoves can be connected?

**Answer:** All electric stoves with 3 ph 400 V STAR connection and 9 KW power can be operated directly through the sauna control unit. A suitable extension power unit must be used for all electric stoves with loads higher than 9 KW.

## 4. Cabin light - what kind of lights can be dimmed?

**Answer:** All dimmable 230 V lights. Iron core or electronic transformers suitable for phase control must be used with lights designed for low voltages. Alternatively a dimmer can be connected with a control voltage of 0 V to 10 V.

## 5. Can the heating time be set to more than 6 hours?

**Answer:** Yes, the heating time can be approved or set to max. 20 hours. Current VDE guidelines have to be respected in the process.

## 6. Does the control unit have a child lock or are the basic settings PIN protected?

**Answer:** The control unit has a keylock through which individual keys or all keys can be locked. Basic settings in the service or configuration menus can only be adjusted or changed after entering a PIN number.

## 7. Can I save power with the control unit even during active operation?

**Answer:** There is an option to fit the control unit with energy-saving programmes or performance optimisation.



## 8. How do I achieve overheating protection / fire prevention when several sauna stoves are in operation in one sauna cabin?

**Answer:** By installing a stove sensor above every stove and connecting all safety temperature limiters (STB) in series. The important thing here is to install the stove sensor for which the temperature sensor is connected to the control unit, above the stove with the greatest heating power (only one temperature sensor can be connected).

## 9. Is it possible to operate the control unit through a smartphone, tablet or computer?

**Answer:** Yes. with our control units from the *familyline*, *profiline* and *touchline* series and using Web-Control, you can operate the control unit through your standard browser installed on your smartphone, tablet or PC.

## 10. Is there an option to connect the control units with the house control system?

**Answer 1:** You would like to switch on the sauna or steam bath control through your house control system (building management system) or receive a report, e.g. that the sauna is ready to use? Our options boards with potential-free inputs and outputs and a large selection of option programmes give you numerous options. Alternatively you can also obtain options boards with 230 V relays.

**Answer 2:** You have a home server and you would like to operate the sauna or steam bath controls from your control panel? Your wish can be fulfilled with our control units from the *familyline*, *profiline* or *touchline* series and Web-Control.

Do you have more questions? **Your contact will be happy to help you.**

You can find your contact on the back (see company stamp).

Your contact:

Company stamp

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