

# Component selection guide

## Poolmatix S

### Welcome

Thank you for choosing the Poolmatix pool automation system. This document will guide you through your selection of the the right system components for your specific pool project.



Version 1.0

### 4 simple steps



Select switchgear  
version



Select water  
treatment



Select  
accessories



Select  
services

## Step 1

# Select your switchgear version

The Poolmatix intelligent switchgear is designed to pool control water chemical treatment and all pool technology. It is available in several versions depending on your choice of water treatment type, Internet connectivity type, electrical installation and language.

### A) What pool components do I need to control?

Please first check that you will be able to connect all your pool technology to the Poolmatix S switchgear.

#### Main pump

The main pump connects to the 230V socket on the front panel of the switchgear.

The Poolmatix S switchboard can control a **single-phase motor up to 1.2 kW**. It can provide a two-stage motor speed control if the pump is equipped with a frequency converter and control inputs.

#### Counterflow motor

The counterflow motor connects to the terminals inside the switchgear.

The Poolmatix S single-phase version switchgear can control a **single-phase counterflow motor up to 2.2 kW**. The three-phase version of the Poolmatix S switchgear can control a **three-phase counterflow motor up to 3.2 kW**.

#### Pool heating

The heater connects to the terminals inside the switchgear.

##### Heat pump

The Poolmatix S switchgear can control a **heat pump up to a maximum input power of 3.0 kW**.

The heat pump must be equipped with a motor soft start. The heat pump can be controlled in several ways:

- by switching the main supply voltage of the heat pump
- auxiliary relay placed in the heat pump enclosure with 230 VAC coil
- communication interface (selected models)

##### Direct electric heater

The Poolmatix S switchgear can control a **single-phase direct electric heater up to a maximum power input of 3.0 kW**.

##### Heat exchanger

The Poolmatix S switchboard can control a circulation pump or solenoid of a heat exchanger, for example for solar or gas heating.

#### Lights

The light connects to the terminals inside the switchboard.

The Poolmatix S switchboard can control a **pool light up to 600 W**.

#### Water treatment

The Poolmatix system offers a range of water treatment unit. You will select the right units in later steps.

## Third party water treatment equipment

Third-party water treatment devices connect to the 230V socket on the front panel of the switchboard.

The Poolmatix S switchboard can control one third party water treatment device. An example of such a device could be a conventional (non-controllable) chlorinator.

## Other appliances

Other appliances connect to terminals inside the switchboard.

The Poolmatix S switchboard can control four additional 230 V loads. Examples are:

- UV lamp
- Automatic refill solenoid
- Additional lighting
- Motor relay for additional pool features
- Flood pump for the underground technology vault
- Active ventilation of the technology vault



## B) Select the switchgear version

### Single-phase or three-phase version

Please first determine whether you need a single-phase version or a three-phase version.

### Internet connection type

Please choose whether to use a connection via mobile data (LTE) or via Ethernet or WiFi. For a reliable connection we recommend a mobile connection.

### Language version

The Poolmatix S intelligent switchgear is supplied with a front panel in either German or English.

### Selection of the switchgear version

#### Single-phase versions

Language version / Connection type	LTE	Ethernet / WiFi
	Order number (GTIN / EAN13)	Order number (GTIN / EAN13)
German	8594211430203	8594211430210
English	8594211430227	8594211430234

#### Three-phase versions

Language version / Connection type	LTE	Ethernet / WiFi
	Order number (GTIN / EAN13)	Order number (GTIN / EAN13)
German	8594211430166	8594211430173
English	8594211430180	8594211430197

Note: Poolmatix S is supplied with Schuko power sockets as a standard.

The switchgear is supplied with two piping temperature sensors and one flow sensor.



## Step 2

## Select water treatment

**Note: Each Poolmatix installation requires at least one Poolmatix dosing module or a chlorinator with pH measurement as a minimum**

The basis of chemical water treatment for any type of pool is pH reduction by dosing of the pH minus agent.

In addition, the Poolmatix system allows several ways to disinfect pool water depending on the type of pool water and your preference.

### Salt water

#### Electrolytic water chlorination, ORP-based control

For this type of water treatment, choose the **SACD001-11 combined chlorinator and dosing module in a set with pH and ORP electrodes**. The maximum output of the salt chlorinator is 16g / hour.



##### Description

SACD001-11 salt chlorinator max 16 g / hour, single dosing pump  
Set with pH electrode, ORP electrode, electrode holders, tube, injection valve and barrel weight

##### Art. number (GTIN / EAN13)

8594211430159

#### Electrolytic water chlorination, ORP-based control, dosing of additional agent

If you wish to dose an additional chemical (e.g. Algicide), select the **SACD001-21 combined chlorinator and dosing module in the set with pH and ORP electrodes** instead of the combined chlorinator and dosing module SACD001-11. The maximum output of the salt chlorinator is 16g / hour.

The dosing of the additional agent will be time-based. You can also use the secon dosing pump for ORP-based Sodium Hypochlorite dosing in cold periods.



##### Description

SACD001- 21 salt chlorinator max 16 g / hour, dual dosing pump  
Set with pH electrode, ORP electrode, electrode holders, tube, injection valves and barrel weights

##### Art. number (GTIN / EAN13)

8594211430296

## Fresh water

### Sodium Hypochlorite dosing, ORP-based control

For this type of water treatment, please select the **SASC002-21 dosing module in a set with pH and ORP electrodes**.



Description	Art. number (GTIN / EAN13)
SASC002-21 dual dosing module Set with pH electrode, ORP electrode, electrode holders, tube, injection valves and barrel weights	8594211430241

### Sodium Hypochlorite dosing, free chlorine-based control

For this type of water treatment, select the **SASC002-21 dosing module in a set without electrodes**. In addition, you will need a **free chlorine kit with pH and FCI electrodes and the IFCP001 universal electrode interface**.



Description	Art. number (GTIN / EAN13)
SASC002-21 dual dosing module Set with tube, injection valves and barrel weights (no electrodes)	8594211430258
Free chlorine set: pH and FCI electrode, flow cell, universal electrode interface IFCP001	8594211430265

### Other types of disinfection

The Poolmatix system also allows for timed dosing of other types of disinfection such as OXY and PolyHMG. If you are interested in this type of disinfection, please contact your Poolmatix system partner.

# Most common Poolmatix sets

We recommend that you choose from one of the preconfigured Poolmatix sets.

## I - Basic saltwater set, pH and ORP control

pH minus dosing, electrolytic water chlorination, control by ORP value



Description	
Poolmatix S switchgear, set with temperature sensors and flow sensor SACD001-11 salt chlorinator max 16 g / hour, single dosing pump, set with pH electrode, ORP electrode, electrode holders, tube, injection valve and barrel weight Poolmatix advanced service first 2 years	
Version	Art. number (GTIN / EAN13)
Single phase version, LTE connectivity, English	8594211430449
Single phase version, LTE connectivity, German	8594211430456
Single phase version, Ethernet connectivity, English	8594211430463
Single phase version, Ethernet connectivity, German	8594211430470
Three- phase version, LTE connectivity, English	8594211430487
Three-phase version, LTE connectivity, German	8594211430494
Three-phase version, Ethernet connectivity, English	8594211430500
Three-phase version, Ethernet connectivity, German	8594211430517



## II - Saltwater set with additional agent, pH and ORP control

pH minus dosing, electrolytic water chlorination, control by ORP value, dosing of additional agent



### Description

Poolmatix S switchgear, set with temperature sensors and flow sensor  
SACD001- 21 salt chlorinator max 16 g / hour, dual dosing pump, set with pH electrode, ORP electrode, electrode holders, tube, injection valves and barrel weights  
Poolmatix advanced service first 2 years

Version	Art. number (GTIN / EAN13)
Single phase version, LTE connectivity, English	8594211430524
Single phase version, LTE connectivity, German	8594211430531
Single phase version, Ethernet connectivity, English	8594211430548
Single phase version, Ethernet connectivity, German	8594211430555
Three- phase version, LTE connectivity, English	8594211430562
Three-phase version, LTE connectivity, German	8594211430579
Three-phase version, Ethernet connectivity, English	8594211430586
Three-phase version, Ethernet connectivity, German	8594211430593

### III - Basic freshwater set, pH and ORP control

pH minus dosing, Sodium Hypochlorite dosing, control by ORP value



#### Description

Poolmatix S switchgear, set with temperature sensors and flow sensor  
SSASC002-21 dual dosing module, set with pH electrode, ORP electrode, electrode holders, tube, injection valves and barrel weights  
Poolmatix advanced service first 2 years

Version	Art. number (GTIN / EAN13)
Single phase version, LTE connectivity, English	8594211430609
Single phase version, LTE connectivity, German	8594211430616
Single phase version, Ethernet connectivity, English	8594211430623
Single phase version, Ethernet connectivity, German	8594211430630
Three- phase version, LTE connectivity, English	8594211430647
Three-phase version, LTE connectivity, German	8594211430654
Three-phase version, Ethernet connectivity, English	8594211430661
Three-phase version, Ethernet connectivity, German	8594211430678



## IV - Freshwater set, pH and free Cl control

pH minus dosing, Sodium Hypochlorite dosing, control by free Cl level, dosing of additional agent



### Description

Poolmatix S switchgear, set with temperature sensors and flow sensor

SASC002-21 dual dosing module, set with tube, injection valves and barrel weights (no electrodes)

Free chlorine set: pH and FCI electrode, flow cell, universal electrode interface IFCP001

Poolmatix advanced service first 2 years

### Version

### Art. number (GTIN / EAN13)

Single phase version, LTE connectivity, English  
Single phase version, LTE connectivity, German  
Single phase version, Ethernet connectivity, English  
Single phase version, Ethernet connectivity, German  
Three- phase version, LTE connectivity, English  
Three-phase version, LTE connectivity, German  
Three-phase version, Ethernet connectivity, English  
Three-phase version, Ethernet connectivity, German

8594211430685  
8594211430692  
8594211430708  
8594211430715  
8594211430722  
8594211430739  
8594211430746  
8594211430753

## Step 3

## Select accessories

Depending on the type of pool and the type of installation, please select suitable accessories.

### Interfaces for pool buttons

If you want to connect pool buttons to the system, please add this interface to the configuration. There is a choice of interfaces for pneumatic and for electric (piezoelectric) buttons.



Description	Art. number (GTIN / EAN13)
Interface for 2 pneumatic buttons	8594211430319
Interface for 2 electric (piezoelectric) buttons	8594211430302

### Balancing tank water level sensor

This sensor accurately measures the level in the pool balancing tank. It allows the detection of activity in the pool and automatic tank refill.



Description	Art. number (GTIN / EAN13)
Submersible level sensor including connection box, maximum water level height 1.5 m	8594211430326

### Outdoor temperature sensor

This is a useful accessory that allows you to display the outdoor temperature in the end-user application. It also allows the activation of the antifrost protection of the piping.



Description	Art. number (GTIN / EAN13)
Outdoor temperature sensor with protective shield	8594211430050

### Dosing of additional agent

If you wish to dose an additional chemical (e.g. Algicide), select another dosing module. The dosing of the additional agent will be time-based.



Description	Art. number (GTIN / EAN13)
SASC002-20 single dosing module Set with tube, injection valve and barrel weight	8594211430272

## Step 4

# Select services

### Poolmatix application and service support includes:

- Mobile application iXmanager for the pool control and monitoring.
- Technical application iXfield offering a range of useful services for the pool configuration, settings, control, diagnostics and smaintenance.
- Poolmatix cloud support, and data storage.
- Software updates of the Poolmatix control system and all applications
- Mobile connectivity



### Basic od advanced service?

#### Poolmatix basic service includes:

- Pool configuration in iXfield
- Pool settings in iXmanager and iXfield
- Pool control in iXmanager and iXfield
- Pool time schedules in iXfield
- 14-day pool data history and charts
- 30-day pool data history and charts
- Displaying pool errors in iXfmanager and iXfield
- Manual launch of service sequences

#### In addition to the above, Poolmatix advanced service includes:

- Pool error notifications
- Pool error troubleshooting wizard
- Possibility to contact service company from iXmanager
- 90-day pool data history and charts
- Scheduled launch of service sequences

### Select your service option

#### Poolmatix services for mobile connectivity

Select the Poolmatix service from this list if you use mobile data connectivity.

Description	Art. number (GTIN / EAN13)
Poolmatix basic service first 2 years Includes EU mobile data connectivity	8594211430333
Poolmatix basic service each subsequent year Includes EU mobile data connectivity	8594211430340
Poolmatix advanced service first 2 years Includes EU mobile data connectivity	8594211430357
Poolmatix advanced service each subsequent year Includes EU mobile data connectivity	8594211430364

#### Poolmatix services for Ethernet / WiFi connectivity

Select the Poolmatix service from this list if you use own data connectivity

Poolmatix basic service first 2 years	8594211430371
Poolmatix basic service each subsequent year	8594211430388
Poolmatix advanced service first 2 years	8594211430395
Poolmatix advanced service each subsequent year	8594211430401