



**desccon<sup>®</sup>**

PRODUCT ***WORLD***

NEXT WATER GENERATION. <sup>®</sup>

**desccon**

**descon<sup>®</sup>n**



descon® – Your partner for water technology.

The company was founded in 2010 by professionals for water treatment with years of practical experience, and has successfully established itself in the market. The **descon®** product range includes all key products for a professional water treatment in public and private pools. The majority of our products, such as measurement and control equipment, metering pumps, ozone systems, UV systems and speciality chemicals are specific developments of **descon®**.

**Made in Germany.**

Proven technologies as well as innovative and practical developments form the basis of our equipment range. Our devices are mostly developed and produced in Germany and the EU according to highest quality standards. Product quality of the highest standard, professional and competent service and sales as well as a high reliability as regards deliveries form the building blocks of our company philosophy.

# PORTFOLIO

INNOVATION | MADE IN GERMANY





**desccon**®

## desccon® - Water treatment for highest demands

The demands made on treatment systems for swimming pool water are high. Specific properties of filling water, its temperature and the load on the swimming pool can result in a large number of adverse reactions. Maintaining a proper pH value, monitoring the disinfectant content and optimal filtration and hydraulics are of great importance for hygienic pool water.

**desccon**® products are sold exclusively through selected, authorized and specially qualified plant manufacturers.



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# descon®<sup>®</sup>

## descon® trol XV S

Professional technology for a unique pool experience.

**descon®** measuring, control and metering system **descon®-trol XVS** with touch display for an easy and intuitive operation, with integrated peristaltic metering pumps **descon® dos synchron plus**, for a reliable and precise dosing.

Besides the standard parameters in metering technology, such as free chlorine, redox, pH and temperature, now also available with control for your filter system. The water treatment parameters can be customized. A device for all applications, for a perfect water quality.





MEASUREMENT + CONTROL



# XVS

INNOVATION | MADE IN GERMANY



# SYSTEM | INSTALLATION



OVERVIEW OF **descon**<sup>®</sup> SYSTEM COMPONENTS FOR A PERFECT WATER TREATMENT.

“Untreated water from pool”

Balance water tank

Measuring and control technology

Sample water extraction

Sample water return

Flocculant dosing

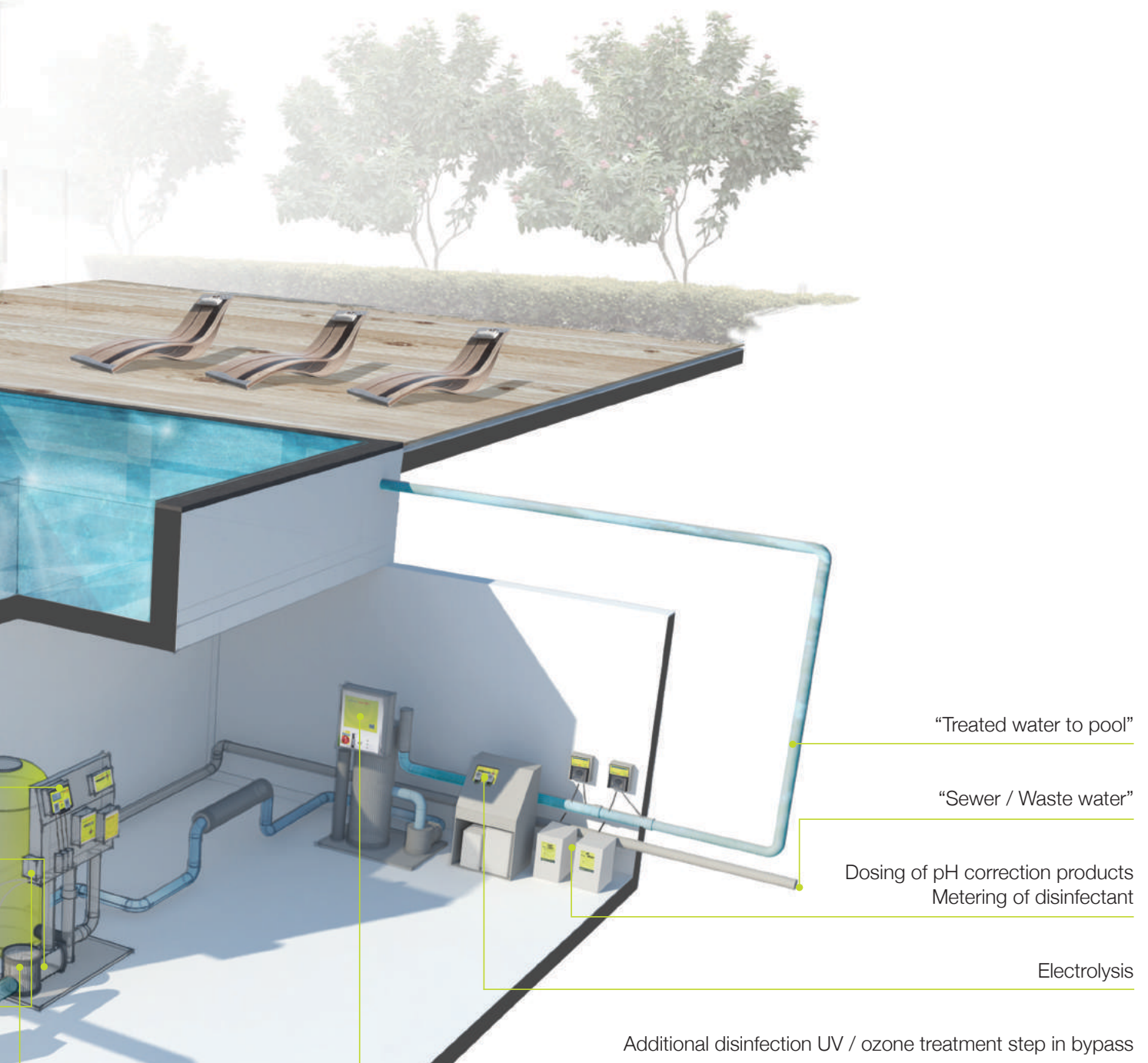
Filter pump

Filter tank with valve and control





# SYSTEM | INSTALLATION





**descon®**  
Liquid chemistry  
System components

## descon® trol XV | with touch control panel Version CHLORINE-FREE | pH | t | time-controlled Complete system, consisting of:

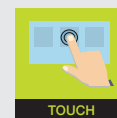
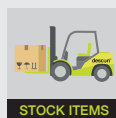
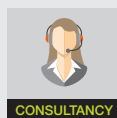
Measuring and control device **descon® trol XV** with touch control panel **CHLORINE-FREE | pH | t - Active oxygen dosing OxiActiv (hydrogen peroxide) time-controlled** – with 2 **descon® dos SCE** synchronous-motor metering pumps, max. metering capacity approx. 3 l/h. Standard equipment with pump hose kit DLS 3000 (0.9 l/h). Compact measuring cell 0310/R incl. sample water monitoring, sample water tap, fiber filter with integrated ball valve. Sensors | Measuring cable set for pH | t, wall holder for test liquids, calibration solutions, probe cleaners, sample water kit, metering valves, suction lances with reed contact, metering hoses and operating instructions.

Item no.: 11210XV

Data logger with SD card for **descon® trol XV** - recommended equipment.  
Item no. 15009XV

Factory-assembled on plastic wall mounting plate  
incl. small parts, accessories, factory test report.

Item no.: 11903XV



**descon®**  
Liquid chemistry  
System components

## descon® trol XV | with touch control panel Version CHLORINE-FREE | pH | t | controlled Complete system, consisting of:

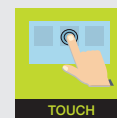
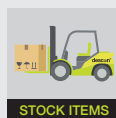
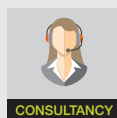
Measuring and control device **descon® trol XV** with touch control panel **CHLORINE-FREE | pH | t - Active oxygen dosing OxiActiv (hydrogen peroxide) controlled version by potentiostatic measurement method** – with 2 **descon® dos SCE** synchronous-motor metering pumps, max. metering capacity approx. 3 l/h. Standard equipment with pump hose kit DLS 3000 (0.9 l/h). Compact measuring cell 0410/B incl. sample water monitoring, sample water tap, fiber filter with integrated ball valve. Sensors | Measuring cable set for OxiActiv | pH | t, wall holder for test liquids, calibration solutions, probe cleaners, sample water kit, metering valves, suction lances with reed contact, metering hoses and operating instructions.

Item no.: 11215XV

Data logger with SD card for **descon® trol XV** - recommended equipment.  
Item no. 15009XV

Factory-assembled on plastic wall mounting plate  
incl. small parts, accessories, factory test report.

Item no.: 11901XV





# MEASUREMENT + CONTROL | TOUCH DISPLAY

## descon® trol XVS | with touch control panel

Version redox | pH | t

Complete system, consisting of:

Measuring and control device **descon® trol XVS** with touch control panel Redox | pH | t - **Chlorine dosing via redox** - with 2 **descon® dos SCE** synchronous-motor metering pumps, max. metering capacity approx. 3 l/h. Standard equipment with pump hose kit DLS 3000 (0.9 l/h). Compact measuring cell 0310/R incl. sample water monitoring, sample water tap, fiber filter with integrated ball valve. Sensors | Measuring cable set for ORP | pH | t, wall holder for test liquids, calibration solutions, probe cleaners, sample water kit, metering valves, suction lances with reed contact, metering hoses and operating instructions.

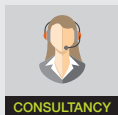
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Data logger with SD card for **descon® trol XV** - recommended equipment.

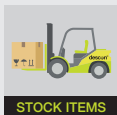
Item no. 15009XV

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report.

Item no.: 11900XV



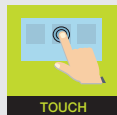
CONSULTANCY



STOCK ITEMS



WARRANTY



TOUCH



## descon® trol XVS | with touch control panel

Version free chlorine | pH | t

Complete system, consisting of:

Measuring and control device **descon® trol XVS** with touch control panel Free chlorine | pH | t - **Chlorine dosing by means of potentiostatic measurement method** - with 2 **descon® dos SCE** synchronous-motor metering pumps, max. metering capacity approx. 3 l/h. Standard equipment with pump hose kit DLS 3000 (0.9 l/h). Compact measuring cell 0410/B incl. sample water monitoring, sample water tap, fiber filter with integrated ball valve. Sensors | Measuring cable set for chlorine | pH | t, wall holder for test liquids, calibration solutions, probe cleaners, sample water kit, metering valves, suction lances with reed contact, metering hoses and operating instructions.

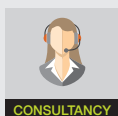
Item no.: 11310XV

Data logger with SD card for **descon® trol XV** - recommended equipment.

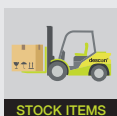
Item no. 15009XV

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report.

Item no.: 11901XV



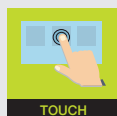
CONSULTANCY



STOCK ITEMS



WARRANTY



TOUCH





## descon® trol XV | with touch control panel

Version free chlorine | redox | pH | t  
Complete system, consisting of:

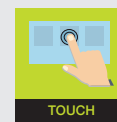
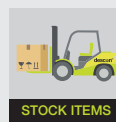
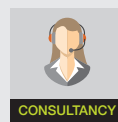
Measuring and control device **descon® trol XV** with touch control panel  
Free chlorine | redox | pH | t - **Chlorine dosing by means of potentiostatic measurement method** – with 2 **descon® dos SCE** synchronous-motor metering pumps, max. metering capacity approx. 3 l/h. Standard equipment with pump hose kit DLS 3000 (0.9 l/h). Compact measuring cell 0410/B incl. sample water monitoring, sample water tap, fiber filter with integrated ball valve. Sensors | Measuring cable set for chlorine | pH | t, wall holder for test liquids, calibration solutions, probe cleaners, sample water kit, metering valves, suction lances with reed contact, metering hoses and operating instructions.

Item no.: 11410XV

Data logger with SD card for **descon® trol XV** - recommended equipment.  
Item no. 15009XV

Factory-assembled on plastic wall mounting plate  
incl. small parts, accessories, factory test report.

Item no.: 11902XV



## Additional equipment

### descon® trol XV series

#### descon® mobil-trol one for descon® trol XV.

Module for connection to the Internet via remote access and App for control and visualization of hygiene parameters. Control - worldwide via the WEB. See chapter 'Visualization' for more information.

Item no. 12525

#### Modbus RTU interface for descon® trol XV for connection to descon® trol mobil-trol one.

Item no. 15007XV

#### Data logger with SD card for descon® trol XV.

Option for readout of water parameters on SD card over the course of time, enables an electronic processing and archiving (operation log). Import and export of data and software updates are possible in addition.

Item no. 15009XV

#### 5 x analog output (0-20/4-20mA) for descon® trol XV.

Item no. 15008XV

**Filter module** incl. filter time control, heating control and backwash for BESGO. Filter control | Manual, automatic with daily and weekly program for heating control | Manual, automatic incl. temperature sensor for backwash control | Manual (test), automatic program

Item no. 15201XV





# MEASUREMENT + CONTROL | TOUCH DISPLAY





# XV PRO

INNOVATION | MADE IN GERMANY





# descon®

## descon® trol XV PRO

**descon®** measuring and control device **descon®-trol XV PRO** – the professional line with touch display for an easy and intuitive operation. In addition to the standard parameters free chlorine, redox, pH and temperature, you can individually select other project-specific parameters, such as total chlorine measurement with display of combined chlorine, second free chlorine measurement or conductivity measurement.





## descon® trol XV PRO with touch control panel

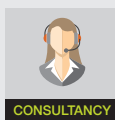
Measuring and control device **descon® trol XV PRO**  
Potentiostatic measurement method, with measuring cable set.

Version:

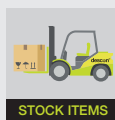
**descon® trol XV PRO**  
Hydrogen peroxide (CHLORINE-FREE) / pH / t,  
with plug connector and measuring cable.  
Potentiostatic - controlled version.  
Item no. 12600XV

**descon® trol XV PRO**  
Free chlorine / pH / t, with plug connector ad measuring cable.  
Item no. 12300XV

**descon® trol XV PRO**  
Free chlorine / redox / t, with plug connector ad measuring cable.  
Item no. 12400XV



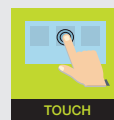
CONSULTANCY



STOCK ITEMS



WARRANTY



TOUCH



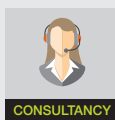
## descon® trol XV PRO | with touch control panel Measuring and control device CHLORINE-FREE with measuring section, consisting of:

Measuring and control device **descon® trol XV PRO** with touch control panel  
Potentiostatic measurement method - with compact measuring cell 0410/B incl.  
sample water monitoring, sample water tap, fiber filter with integrated ball valve,  
sensor kit, measuring cable set, wall holder for test liquids, calibration solutions,  
probe cleaner, sample water kit, operating instructions and quick start guide.

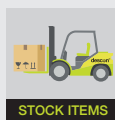
**descon® trol XV PRO** hydrogen peroxide (CHLORINE-FREE) | pH | t,  
with measuring section, potentiostatic - controlled version.  
Item no. 12610XV

Data logger with SD card for **descon® trol XV** - recommended equipment.  
Item no. 15009XV

Factory-assembled on plastic wall mounting plate, incl. small parts,  
accessories, factory test report.  
Item no. 11904XV



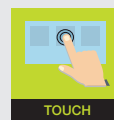
CONSULTANCY



STOCK ITEMS



WARRANTY



TOUCH

NEXT WATER GENERATION.®  
**descon®**  
Liquid chemistry  
System components



# MEASUREMENT + CONTROL | TOUCH DISPLAY

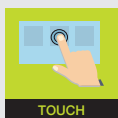
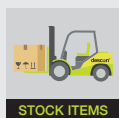
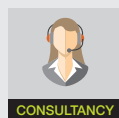
## descon® trol XV PRO | with touch control panel Measuring and control device CHLORINE | pH | t with measuring section, consisting of:

Measuring and control device **descon® trol XV PRO** with touch control panel  
Potentiostatic measurement method - with compact measuring cell 0410/B incl.  
sample water monitoring, sample water tap, fiber filter with integrated ball valve,  
sensor kit, measuring cable set, wall holder for test liquids, calibration solutions,  
probe cleaner, sample water kit, operating instructions and quick start guide.

**descon® trol XV PRO** - free chlorine | pH | t with measuring section  
Potentiostatic - controlled version.  
Item no. 12310XV

Data logger with SD card for **descon® trol XV** - recommended equipment.  
Item no. 15009XV

Factory-assembled on plastic wall mounting plate, incl. small parts,  
accessories, factory test report.  
Item no. 11904XV



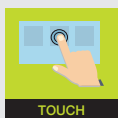
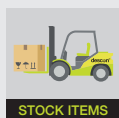
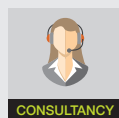
## descon® trol XV PRO | with touch control panel Measuring and control device CHLORINE | redox | pH | t with measuring section, consisting of:

Measuring and control device **descon® trol XV PRO** with touch control panel  
Potentiostatic measurement method - with compact measuring cell 0410/B incl.  
sample water monitoring, sample water tap, fiber filter with integrated ball valve,  
sensor kit, measuring cable set, wall holder for test liquids, calibration solutions,  
probe cleaner, sample water kit, operating instructions and quick start guide.

**descon® trol XV PRO** - free chlorine | redox | pH | t with measuring section  
Potentiostatic - controlled version.  
Item no. 12410XV

Data logger with SD card for **descon® trol XV** - recommended equipment.  
Item no. 15009XV

Factory-assembled on plastic wall mounting plate, incl. small parts,  
accessories, factory test report.  
Item no. 11905XV





## descon® trol XV PRO | with touch control panel Version CHLORINE-FREE | pH | t - complete system with 2 metering pumps **descon® dos mcs**, consisting of:

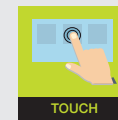
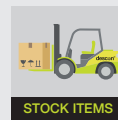
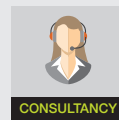
Measuring and control device **descon® trol XV PRO** with touch control panel  
Potentiostatic measurement method - with compact measuring cell 0410/B incl.  
sample water monitoring, sample water tap, fiber filter with integrated ball valve,  
sensor kit, measuring cable set, wall holder for test liquids, calibration solutions,  
probe cleaner, sample water kit. Two metering pumps **descon® dos mcs**, max.  
metering capacity approx. 10 l/h. Standard equipment with pump hose kit DLS  
4000 (4.0 l/h), metering valves, suction lance with reed contact, metering hoses,  
operating instructions and quick start guide.

**Item no. 12611XV**

**Data logger with SD card for descon® trol XV** - recommended equipment.  
**Item no. 15009XV**

Factory-assembled on plastic wall mounting plate, incl. small parts,  
accessories, factory test report.

**Item no. 11906XV**



**descon®**  
Liquid chemistry  
System components



## descon® trol XV PRO | with touch control panel Version CHLORINE | pH | t - complete system with 2 metering pumps **descon® dos mcs**, consisting of:

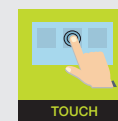
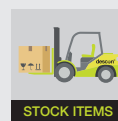
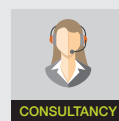
Measuring and control device **descon® trol XV PRO** with touch control panel  
Potentiostatic measurement method - with compact measuring cell 0410/B incl.  
sample water monitoring, sample water tap, fiber filter with integrated ball valve,  
sensor kit, measuring cable set, wall holder for test liquids, calibration solutions,  
probe cleaner, sample water kit. Two metering pumps **descon® dos mcs**, max.  
metering capacity approx. 10 l/h. Standard equipment with pump hose kit DLS  
4000 (4.0 l/h), metering valves, suction lance with reed contact, metering hoses,  
operating instructions and quick start guide.

**Item no. 12311XV**

**Data logger with SD card for descon® trol XV** - recommended equipment.  
**Item no. 15009XV**

Factory-assembled on plastic wall mounting plate, incl. small parts,  
accessories, factory test report.

**Item no. 11906XV**



**descon®**  
Liquid chemistry  
System components



# MEASUREMENT + CONTROL | TOUCH DISPLAY

**descon® trol XV PRO** | with touch control panel  
Version CHLORINE | redox | pH | t - complete system  
with 2 metering pumps **descon® dos mcs**,  
consisting of:

Measuring and control device **descon® trol XV PRO** with touch control panel  
Potentiostatic measurement method - with compact measuring cell 0410/B incl.  
sample water monitoring, sample water tap, fiber filter with integrated ball valve,  
sensor kit, measuring cable set, wall holder for test liquids, calibration solutions,  
probe cleaner, sample water kit. Two metering pumps **descon® dos mcs**, max.  
metering capacity approx. 10 l/h. Standard equipment with pump hose kit DLS  
4000 (4.0 l/h), metering valves, suction lance with reed contact, metering hoses,  
operating instructions and quick start guide.

**Item no. 12411XV**

Same as above, but with metering pump **descon® dos sm**  
with stepper motor and frequency control.

**Item no. 12411XVSM**

**Data logger with SD card** for **descon® trol XV** - recommended equipment.  
**Item no. 15009XV**

Factory-assembled on plastic wall mounting plate, incl. small parts,  
accessories, factory test report.

**Item no. 11907XV**

Same as above, but for model with **descon® dos sm**

**Item no. 11907XVSM**



## Additional equipment **descon-trol XV series**

**descon® mobil-trol one** for **descon® trol XV**.

Module for connection to the Internet via remote access and App for control and  
visualization of hygiene parameters. Control - worldwide via the WEB.

**Item no. 12525**

**Modbus RTU interface** for **descon® trol XV** for connection to  
**descon® trol mobil-trol one**. | **Item no. 15007XV**

**Data logger with SD card** for **descon® trol XV**.

Option for readout of water parameters on SD card over the course of time,  
enables an electronic processing and archiving (operation log). Import and  
export of data and software updates are possible in addition.

**Item no. 15009XV**

**5 x analog output (0-20/4-20mA)** for **descon® trol XV**. | **Item no. 15008XV**

**Filter module** incl. filter time control, heating and backwash control for BESGO.  
Filter control | Manual, automatic with daily and weekly program for heating con-  
trol | Manual, automatic incl. temperature sensor for backwash control | Manual  
(test), automatic program

**Item no. 15201XV**

**Additional measuring parameters via 5th measuring input**

Conductivity, or second free chlorine measurement, or total chlorine measure-  
ment with display of combined chlorine. It is also possible to measure ozone or  
chlorine dioxide instead of free chlorine.

Please request a customized quotation for your project.





# PRO SELECT

INNOVATION | MADE IN GERMANY





# descon®

## descon® trol R PRO SELECT

Professional technology for highest demands.

Developed for use in high-quality private swimming pools, commercial, hotel and communal pools. Measuring and control device for measurement of disinfectant, pH and temperature. Chlorine disinfection via redox or direct measurement of "free chlorine". Modern wall mounting case IP 65, with extra large LCD display 120 x 40mm, 4-line, backlit. Intuitive, simple operation via membrane keyboard, plain text display. Language selection, automatic probe cleaning ASR, real time clock, sample water monitoring, automatic switch-on delay, tank level control with status displays in clear text.





## descon® trol R pro select

Device with measuring cable and mains plug

**descon® trol R pro select, ORP / pH / t,**  
with plug connector and measuring cable

Item no. #12701

**descon® trol R pro select, free chlorine / pH / t,**  
with plug connector and measuring cable

Item no. #12702

**descon® trol R pro select, free chlorine / ORP / pH / t,**  
with plug connector and measuring cable

Item no. #12703



CONSULTANCY



STOCK ITEMS



WARRANTY



CLICK BUTTONS



## descon® trol R pro select

Measuring and control device with measuring section, consisting of:

Measuring and control device **descon® trol R pro select** with CLICK BUTTONS.

With compact measuring cell incl. sample water monitoring, sample water tap, fiber filter with integrated ball valve, sensor kit, measuring cable set, wall holder for test liquids, calibration solutions, probe cleaner, sample water kit, operating instructions and quick start guide.

**descon® trol R pro select, ORP/ pH / t with measuring section**  
Item no. #12705

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | Item no. #11900

**descon® trol R pro select, free chlorine / pH / t with measuring section**  
Item no. #12706

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | Item no. #11905

**descon® trol R pro select, free chlorine / ORP / pH / t with measuring section** | Item no. #12707

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | Item no. #11905

Product image on the left.



CONSULTANCY



STOCK ITEMS



WARRANTY



CLICK BUTTONS

NEXT WATER GENERATION.  
descon

descon®  
Liquid chemistry  
System components





# MEASUREMENT + CONTROL | CLICK BUTTONS

## descon® trol R pro select complete systems

Chlorine via redox control | pH | t with 2 metering pumps, connection kit and accessories:

Measuring and control device **descon® trol R pro select** with CLICK BUTTONS.

Measuring cell 0310/R (ROUND), sample water monitoring, sample water tap, fiber filter with integrated ball valve, sensor kit, measuring cable set, wall holder for test liquids, calibration solutions, probe cleaner, sample water kit. Two metering pumps with connection kit included. Operating instructions and quick start guide.

Model with 2 metering pumps **descon® dos ECO**, incl. accessories kit with suction line (excl. empty signal) **Item no. #12710**

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | **Item no. #11975**

Model with 2 metering pumps **descon® dos ECO**, incl. accessories kit with suction lance (with empty signal) | **Item no. #12711**

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | **Item no. #11975**



## descon® trol R pro select complete systems

Chlorine via redox control | pH | t with 2 metering pumps, connection kit and accessories:

Measuring and control device **descon® trol R pro select** with CLICK BUTTONS.

Measuring cell 0310/R (ROUND), sample water monitoring, sample water tap, fiber filter with integrated ball valve, sensor kit, measuring cable set, wall holder for test liquids, calibration solutions, probe cleaner, sample water kit. Two metering pumps with connection kit included. Operating instructions and quick start guide.

Model with 2 metering pumps **descon® dos mcs** (geared motor in GCL technology), incl. accessories kit with suction lance (with empty signal) **Item no. #12712**

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | **Item no. #11975**

Model with 2 metering pumps **descon® dos sm** (stepper motor), incl. accessories kit with suction lance (with empty signal) **Item no. #12713**

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | **Item no. #11975**





## descon® trol R pro select complete systems free chlorine | pH | t with 2 metering pumps, connection kit and accessories:

Measuring and control device **descon® trol R pro select** with CLICK BUTTONS.

Measuring cell 0410 (BLOCK), sample water monitoring, sample water tap, fiber filter with integrated ball valve, sensor kit, measuring cable set, wall holder for test liquids, calibration solutions, probe cleaner, sample water kit. Two metering pumps with connection kit included. Operating Instructions and quick start guide.

Model with 2 metering pumps **descon® dos ECO**, incl. accessories kit with suction line (excl. empty signal)  
**Item no. #12715**

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | **Item no. #11977**

Model with 2 metering pumps **descon® dos ECO**, incl. accessories kit with suction lance (with empty signal)  
**Item no. #12716**

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | **Item no. #11977**



CONSULTANCY



STOCK ITEMS



WARRANTY



CLICK BUTTONS



**descon®**  
Liquid chemistry  
System components



## descon® trol R pro select complete systems free chlorine | pH | t with 2 metering pumps, connection kit and accessories:

Measuring and control device **descon® trol R pro select** with CLICK BUTTONS.

Measuring cell 0410 (BLOCK), sample water monitoring, sample water tap, fiber filter with integrated ball valve, sensor kit, measuring cable set, wall holder for test liquids, calibration solutions, probe cleaner, sample water kit. Two metering pumps with connection kit included. Operating instructions and quick start guide.

Model with 2 metering pumps **descon® dos mcs** (geared motor in GCL technology), incl. accessories kit with suction lance (with empty signal) | **Item no. #12717**

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | **Item no. #11977**

Model with 2 metering pumps **descon® dos sm** (stepper motor), incl. accessories kit with suction lance (with empty signal)  
**Item no. #12718**

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | **Item no. #11977**



CONSULTANCY



STOCK ITEMS



WARRANTY



CLICK BUTTONS



**descon®**  
Liquid chemistry  
System components





## descon® trol R pro select complete systems

Free chlorine | ORP (auxiliary hygiene parameter) | pH | t with 2 metering pumps, connection kit and accessories:

Measuring and control device **descon® trol R pro select** with CLICK BUTTONS.

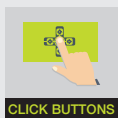
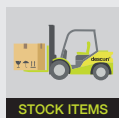
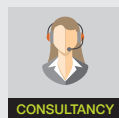
Measuring cell 0410 (BLOCK), sample water monitoring, sample water tap, fiber filter with integrated ball valve, sensor kit, measuring cable set, wall holder for test liquids, calibration solutions, probe cleaner, sample water kit. Two metering pumps with connection kit included. Operating instructions and quick start guide.

Model with 2 metering pumps **descon® dos ECO**, incl. accessories kit with suction line (excl. empty signal) **Item no. #12720**

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | **Item no. #11977**

Model with 2 metering pumps **descon® dos ECO**, incl. accessories kit with suction lance (with empty signal) **Item no. #12721**

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | **Item no. #11977**



## descon® trol R pro select complete systems

Free chlorine | ORP (auxiliary hygiene parameter) | pH | t with 2 metering pumps, connection kit and accessories:

Measuring and control device **descon® trol R pro select** with CLICK BUTTONS.

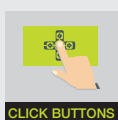
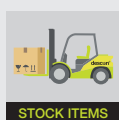
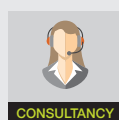
Measuring cell 0410 (BLOCK), sample water monitoring, sample water tap, fiber filter with integrated ball valve, sensor kit, measuring cable set, wall holder for test liquids, calibration solutions, probe cleaner, sample water kit. Two metering pumps with connection kit included. Operating instructions and quick start guide.

Model with 2 metering pumps **descon® dos mcs** (geared motor in GCL technology), incl. accessories kit with suction lance (with empty signal) | **Item no. #12722**

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | **Item no. #11977**

Model with 2 metering pumps **descon® dos sm** (stepper motor), incl. accessories kit with suction lance (with empty signal) | **Item no. #12723**

Factory-assembled on plastic wall mounting plate incl. small parts, accessories, factory test report. | **Item no. #11977**





descon®

## descon® trol XV M SINGLE-CHANNEL MEASURING DEVICE

**descon®** single-channel measuring and control devices for individual measurements in the drinking water and swimming pool water sector. When a specific measurement and control of a single parameter is required, the **descon® trol XV M** is the right solution. **descon® trol XV M** - the PROFESSIONAL LINE with touch display for an easy and intuitive operation.

Versions:  
free chlorine, total chlorine (TCL), hydrogen peroxide, chlorine dioxide,  
ozone, pH, redox, conductivity, chlorine gas and ozone gas



MEASUREMENT + CONTROL | TOUCH DISPLAY



SPECIAL  
INNOVATION | MADE IN GERMANY





## descon® trol XV M Single-channel measuring device with touch control panel

Professional technology for individual applications. **descon®** single channel measuring and control devices for individual measurements in the drinking and pool water sectors. **descon® trol XV M** – the PROFESSIONAL line with touch display for an easy and intuitive operation.

General equipment of the device series **descon® trol XV M**:

In wall mounting case with 1 measuring input, temperature input, DI input and alarm relay each, incl. PID controller with 2 control relays, 2. digital input and 1 analog output

<b>descon® trol XV M</b> DIS potentiostatic Switchable / parameter selection: free chlorine, total chlorine (TCL), hydrogen peroxide, chlorine dioxide and ozone	Item no.: 12100XVM
<b>descon® trol XV M</b> pH or ORP can be selected	Item no.: 12101XVM
<b>descon® trol XV M</b> conductivity	Item no.: 12102XVM
Inductive conductivity sensor	Item no.: 15028
Flow valve for inductive conductivity sensor	Item no.: 15029
Data logger with SD card	Item no.: 15009XVM
Interface Modbus RTU	Item no.: 15007XVM
Automatic probe cleaning ASR® only for XVM DIS (free chlorine, chlorine dioxide, ozone)	Item no.: 15009_1XVM
Second analog output, galvanically isolated	Item no.: 12133XVM

We offer you complete systems customized to your requirements.



## descon® trol XV M Gas single-channel measuring device Chlorine | Ozone with touch control panel

**descon®** single channel measuring and control device for individual measurement in the drinking water and swimming pool water sectors. **descon® trol XV M** - the PROFESSIONAL LINE with touch display for an easy and intuitive operation. General equipment of the device series **descon® trol XV M GAS**:

In wall mounting case with 1 measuring input, temperature input, DI input and alarm relay each, 2 digital inputs and 1 analog output.

### Special features:

- Chlorine and ozone
- Display unit: ppm
- Automatic sensor test
- Dual measurement

<b>descon® trol M</b> gas - chlorine   ozone	Item no.: 12110XVM
Chlorine gas sensor element: 0.00 .. 10.00 ppm chlorine	Item no. 15025
Ozone gas sensor element: 0.00 .. 1.00 ppm ozone	Item no.: 15026
Gas sensor holder with 10 m cable	Item no.: 15027
Data logger with SD card	Item no.: 15009XVM
Interface Modbus RTU	Item no.: 15007XVM



# MEASUREMENT + CONTROL | TOUCH DISPLAY





# SENSORS

INNOVATION | MADE IN GERMANY



NEXT WATER GENERATION.®

**descon**

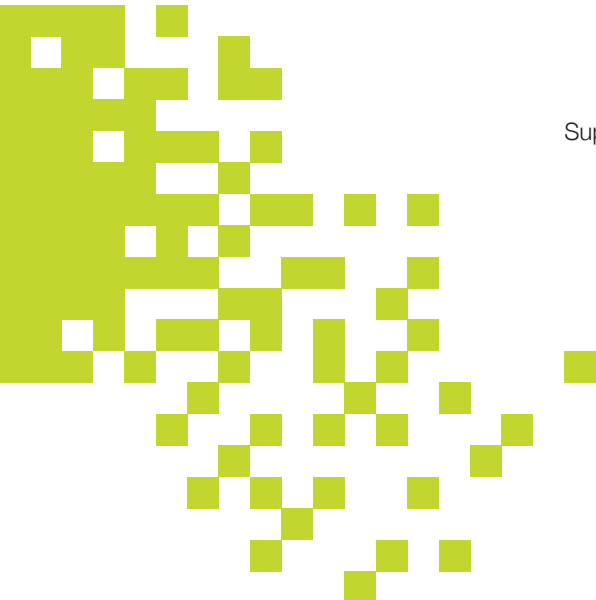


**descon**<sup>®</sup>

## SENSORS

**descon**<sup>®</sup> offers high-quality sensors – Made in Germany. Supplied in secure, stable individual packings in a sensor protection container with KCl solution. The sensors are produced based on strict quality and manufacturing standards. Each sensor undergoes an extensive final inspection; the test data is included with the product. The serial number is found on the sensor head.

In addition to standard sensors, we offer sensors for system-specific applications on request.





## descon® pH sensor for all device types with rotary threaded plug head

Measuring range:	0.00 to 14.00 pH
Length of shaft:	120 mm
Shaft material:	glass
Electrode material:	pH glass, ball
Reference system:	Ag/AgCl/ total KCl with salt stock
Diaphragm:	ceramics
Mech. connection:	S8 threaded plug head
Electrical connection:	2-pole screw connection

Item no.: 15010D



## descon® redox sensor (V) without reference system - wear-free with rotary threaded plug head

Shaft material:	glass
Length of shaft:	120 mm
Measuring electrode:	platinum tip
Measuring range:	-1500 +1500 mV
Mech. connection:	S8 threaded plug head
Electrical connection:	2-pole screw connection

Item no.: 15011DK



## descon® redox sensor (A) with reference system and turnable threaded plug head

Shaft material:	glass
Length of shaft:	120 mm
Measuring electrode:	platinum tip
Reference system:	Ag/AgCl/ total KCl with salt stock
Diaphragm material:	sintered ceramics
Temperature range:	-5 to 70 °C
Max. working pressure:	6 bar
Mech. connection:	S8 threaded plug head
Electrical connection:	2-pole screw connection

Item no.: 15012DK



## descon® chlorine sensor - potentiostatic - with turnable threaded plug head for measurement of free chlorine, chlorine dioxide or ozone

Shaft material:	glass
Length of shaft:	80 mm
Measuring electrode:	gold, ring
Reference system:	Ag/AgCl/ total KCl with salt stock
Diaphragm material:	sintered ceramics
Temperature range:	-5 to 70 °C
Max. working pressure:	6 bar
Mech. connection:	S8 threaded plug head
Electrical connection:	2-pole screw connection

Item no.: 15013D



## descon® OxiActiv sensor CHLORINE-FREE electrode - potentiostatic - with rotary threaded plug head

Shaft material:	glass
Length of shaft:	80 mm
Measuring electrode:	platinum, ring
Reference system:	Ag/AgCl/ total KCl with salt stock
Diaphragm material:	sintered ceramics
Temperature range:	-5 to 70 °C
Max. working pressure:	6 bar
Mech. connection:	S8 threaded plug head
Electrical connection:	2-pole screw connection

Item no.: 15014D



## descon® chlorine duplex sensor - potentiostatic - double gold combination electrode for measurement of free chlorine, chlorine dioxide or ozone

Shaft material:	glass
Length of shaft:	120 mm
Measuring electrode:	gold, upper ring
Counter electrode:	gold, lower ring
Reference system:	Ag/AgCl/ total KCl with salt stock
Diaphragm material:	sintered ceramics
Measuring range:	according to the used measuring amplifier
Temperature range:	-5 to 70 °C
Max. working pressure:	8 bar at 20°C (pressure compensation via diaphragm)
Mechanical connection:	S8 threaded plug head
Electrical connection:	M12 screw connection (male)

Item no.: 15015D





## descon® chlorine-free duplex sensor - potentiostatic - double platinum combination electrode for measurement of hydrogen peroxide

Shaft material:	glass
Length of shaft:	120 mm
Measuring electrode:	platinum, upper ring
Counter electrode:	platinum, bottom ring
Reference system:	Ag/AgCl/ total KCl with salt stock
Diaphragm material:	sintered ceramics
Measuring range:	according to the used measuring amplifier
Temperature range:	-5 to 70 °C
Max. working pressure:	8 bar at 20°C (pressure compensation via diaphragm)
Mechanical connection:	S8 threaded plug head
Electrical connection:	M12 screw connection (male)

**Item no.: 15015PW**



## descon® chlorine duplex sensor - potentiostatic platinum | graphite - used in salt waters, for measure- ment of free chlorine, chlorine dioxide and ozone

Shaft material:	glass
Length of shaft:	120 mm
Measuring electrode:	platinum, upper ring
Counter electrode:	graphite, bottom pin
Reference system:	Ag/AgCl/ total KCl with salt stock
Diaphragm material:	sintered ceramics
Measuring range:	according to the used measuring amplifier
Temperature range:	-5 to 70 °C
Max. working pressure:	8 bar at 20°C (pressure compensation via diaphragm)
Mechanical connection:	S8 threaded plug head
Electrical connection:	M12 screw connection (male)

**Item no.: 15015PG**



## Multifunction electronic combination electrode free chlorine DEP-POOL/PCS/PCS+ L = 165 mm Reference item for W+T (AAC4807)

Shaft material:	glass
Length of shaft:	165 mm
Electrode material:	platinum (tip and 3 mm ring)
Reference system:	Ag/AgCl/ total KCl with salt stock
Diaphragm material:	1 mm zirconium (non-turnable)
Mechanical connection:	PG 13.5 thread
Electrical connection:	3-pole flange connector (non-turnable)

**Item no.: 15121**



## Multifunction electronic combination electrode free chlorine PCS/PCS-ST L = 150 mm, with cable Reference item for W+T (AAA5608)

Shaft material:	glass
Length of shaft:	150 mm
Electrode material:	platinum (tip and 3 mm ring)
Reference system:	Ag/AgCl/ total KCl with salt stock
Diaphragm material:	1 mm zirconium
Mechanical connection:	PG 13.5 thread (turnable)
Electrical connection:	fixed cable 1.6 m

Item no.: 15120



## Accessories for sensors

Plastic grip-shaped stopper RED for measuring cable pH/ORP (10 piece pack), winter cap

Item no. 15020STO

Probe container with green lid, black screw connection and O-ring

Item no. 15024S

KCL - potassium chloride solution for electrodes, 1 liter

Item no. 15024



## Special features of the descon® pH sensor | Sensors for special applications:

### Special features descon® pH sensor:

- Rotary threaded plug head – no need to disconnect the measuring cable for calibration
- Internal buffer dyed red to allow a simple visual inspection / function
- Salt reserve (pressed ring-shaped) for reference system and long service life
- Safe and fast calibration

All **descon® sensors** are equipped with threaded plug head.

### descon® sensors REFIL

To ensure reliable measurements, descon offers targeted solutions for specific measurements of free chlorine and pH. Example: **descon® REFIL sensors** with liquid electrolyte – refillable sensors for problem waters. Please contact us.



descon®

## descon® MEASURING CELLS

**descon®** compact measuring cells are manufactured from high-quality Plexiglas® GS and are mounted on a PVC base plate. For all compact measuring cells, the sample water flow is visible at all times. The design allows an operation under pressure (sample water return into the system) and operation with a free drain.

All models are supplied with integrated filter and shut-off devices.

All chambers can be emptied and are easy to clean.





INNOVATION | MADE IN GERMANY

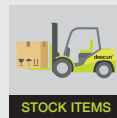
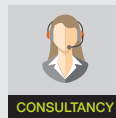




## descon® compact measuring cell 0310 | R (round) for 3 sensors incl. fiber filter.

2 chambers, can be emptied and cleaned individually, to hold the measuring electrodes for redox and pH, temperature and sample water monitoring. Can be used for return of sample water (pressure operation) and as free drain. When using the compact measuring unit descon 0310/R - only for measurement of pH or OxiActiv - one sensor holder is closed. Integrated fine filter with replaceable strainer, shut-off valve on the inlet side with hose connection 8/6 mm.

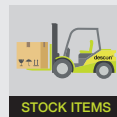
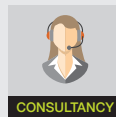
Item no.: 15000



## descon® compact measuring unit 0312/R (round) for 3 sensors incl. fiber filter.

2 chambers, can be emptied and cleaned individually, to hold the pH measuring electrodes and, if required, the redox electrode; sample water monitoring incl. holder for impedance converter. When delivered, the 2nd chamber is closed with a screw plug. Can be used for return of sample water (pressure operation) and as free drain. Integrated fine filter with replaceable strainer, shut-off valves on the inlet side with hose connection 8/6 mm.

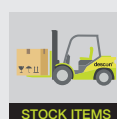
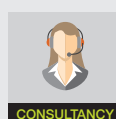
Item no.: 15100



## descon® compact measuring cell 0210 | B (block design) for 2 sensors incl. fiber filter.

2 chambers, can be emptied and cleaned individually, to take up the measuring electrodes for free chlorine; temperature and sample water monitoring. Can be used for return of sample water (pressure operation) and as free drain. Integrated fine filter with replaceable strainer, shut-off valve on the inlet side with hose connection 8/6 mm.

Item no.: 15001





## descon® compact measuring cell 0410 | B (block design) for 4 sensors incl. fiber filter.

3 chambers, can be emptied and cleaned individually, to take up the measuring electrodes for free chlorine, redox and pH; temperature and sample water monitoring. Can be used for return of sample water (pressure operation) and as free drain. Integrated fine filter with replaceable strainer, shut-off valve on the inlet side with hose connection 8/6 mm.

Item no.: 15002



## descon® compact measuring cell 0918 | STABI-FLOW (block design) for 4 sensors incl. flow rate adjustment with fiber filter.

3 chambers, can be emptied and cleaned individually, to take up the measuring electrodes for free chlorine, redox and pH; temperature and sample water monitoring. Can be used for return of sample water (pressure operation) and as free drain. Integrated fine filter with replaceable strainer, shut-off valve on the inlet side with hose connection 8/6 mm. Additional equipment with flow rate adjustment, version STABIFLOW.

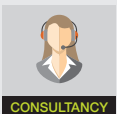
Item no.: 15112



## descon® compact measuring cell 0918 | TCL | STABIFLOW (block design) for 5 sensors incl. flow rate adjustment with fiber filter.

4 chambers, can be emptied and cleaned individually, to take up the measuring electrodes for free chlorine, total chlorine (TCL), redox and pH, temperature and sample water monitoring. Can be used for return of sample water (pressure operation) and as free drain. Integrated fine filter with replaceable strainer, shut-off valve on the inlet side with hose connection 8/6 mm. Additional equipment with flow rate adjustment, version STABIFLOW.

Item no.: 15112TCL





# DOSING

INNOVATION | **MADE IN GERMANY**





# descon®

## descon® METERING PUMPS

**descon®** universal, microprocessor-controlled peristaltic metering pump for an automatic addition of liquid dosing agents, for use in pool water treatment (chlorine, pH correction, flocculant and active oxygen products), also for smallest quantities (5 ml/h). Depending on the type of metering pump and hose kit, up to a max. output of 166 ml/min. **descon® dos vision** also as stand-alone measuring, control and metering system for pH.



## descon® dos vision

Measuring, control and metering station for pH with wear-free stepper motor, consisting of:

Measuring and control station **descon® dos vision** with wear-free stepper motor, max. metering capacity approx. 1 l/h. Compact measuring cell pH incl. sample water monitoring, sample water tap, fiber filter with integrated ball valve (the entire fitting is easy to clean), calibration solutions pH 7.0 and pH 4.0, probe cleaner, sample water kit, metering valves, suction lance with reed contact, metering hose, operating instructions.

**Item no.: #13010**

Factory-assembled on plastic wall mounting panel incl. small parts, accessories.

**Item no.: #11915**



CONSULTANCY



STOCK ITEMS

descon®  
Liquid chemistry  
System components



## Peristaltic metering pump descon® dos vision for dosing of flocculant with wear-free stepper motor with display

Microprocessor-controlled peristaltic metering pump for an automatic addition of liquid dosing agents, for use in pool water treatment, also suitable for smallest quantities. Especially suitable for addition of flocculant. Metering pump driven by stepper motor, max. metering capacity 16 ml/min. LCD display with 2x16 characters, 6 keys for an easy operation, LED for power, metering/setpoint, error. Potential-free control input or analog signal processing (for partial load operation / night setback), alarm display, potential-free relay contact as fault signal output, rapid priming key, on/off button, IP 65, incl. connection cable 2 m length.

**Item no.: 13002**

Flocculant dosing system **descon® dos vision**, incl. hose kit DLS 1000, suction lance with empty signal, metering valve and metering hose.

**Item no. 13500**

Flocculant dosing system **descon® dos vision**, incl. hose kit DLS 1000, suction lance with empty signal, metering valve and metering hose.

In addition with **flow control** and **wall mounting plate**.

**Item no. 13501**



CONSULTANCY



STOCK ITEMS

descon®  
Liquid chemistry  
System components





## Peristaltic metering pump descon® dos sm

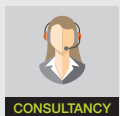
Version with wear-free stepper motor

Universal, microprocessor-controlled peristaltic metering pump for an automatic addition of liquid dosing agents, for use in pool water treatment (chlorine, pH correction, flocculant and active oxygen products), also smallest quantities. Max. delivery rate: 166 ml/min. Recommended max. dosing quantity/operation hours per day: 180 l / 24 h Recommended max. switch-on time at 0.5 bar counter pressure: 100%/h for 24 h at < 2/3 of max. number of revolutions or 50%/h > 2/3 of max. number of revolutions

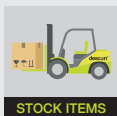
### Special features:

- Wear-free stepper motor up to 7.5 l/h or max. 2/3 of the nominal power
- Real round the clock operation / 100% duty cycle
- Hose connection 6/4 mm DN4
- Voltage 230 V, 50/60 Hz

Item no.: 13000



CONSULTANCY



STOCK ITEMS



## Peristaltic metering pump descon® dos mcs

Version with geared motor in GCL technology

Universal, microprocessor-controlled peristaltic metering pump for an automatic addition of liquid dosing agents, for use in pool water treatment (chlorine, pH correction, flocculant and active oxygen products), even suitable for smallest quantities, with adjustable time and pump output. Real control due to sophisticated and precise speed control with GCL technology.

Max. delivery rate: 150 ml/min.

Recommended max. dosing quantity/operation hours per day: 36 l / 12 h

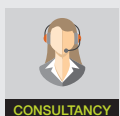
Recommended max. switch-on time at 0.5 bar counter pressure: 50%/h;

100%/h for 12 h with a setting < 1/3 max. number of revolutions; pump hose DLS 10.000 or smaller.

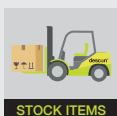
### Special features:

- Precise speed control (CLC technology)
- Hose connection 6/4 mm DN4
- Voltage 230 V, 50/60 Hz

Item no.: 13001



CONSULTANCY



STOCK ITEMS





## Peristaltic dosage pump descon® dos ECO

Version with geared motor

Universal, microcontroller-controlled peristaltic metering pump for an automatic addition of liquid dosing agents, for use in pool water treatment (chlorine, pH correction, flocculant and active oxygen products), with adjustable speed. Incl. hose kit DLS 4,000 with a max. metering capacity of 4.5 l/h (75 ml/min).

**Item no. 13003**

Metering system **descon® dos ECO**  
incl. hose kit DLS 4 000, suction line, metering valve and metering hose.

**Item no. 13510**



CONSULTANCY



STOCK ITEMS



## Spare parts for descon® dos

### peristaltic metering pumps

Roller rotor with thrust block bearing blue for all **descon® dos** peristaltic metering pumps.

**Item no. 13220**

Cover (round) for rotor for all **descon® dos** peristaltic metering pumps.

**Item no. 13222**

Transparent cover for rotor for all **descon® dos** peristaltic metering pumps.

**Item no. 13223**



CONSULTANCY



STOCK ITEMS



## Flow control

for **descon**<sup>®</sup> peristaltic metering pumps  
**descon**<sup>®</sup> dos sm | mcs | vision:

Wall mounting plate / drilling template for **descon**<sup>®</sup> peristaltic metering pumps for a visual check of the dosing function. Connection for metering hose 6/4 mm.

Item no.: 13225



CONSULTANCY



STOCK ITEMS

## Pump hose kits for

**descon**<sup>®</sup> dos  
sm | mcs | E | vision | ECO | SCE:

Version with high-quality Pharmed pump hoses in various dimensions. DLS = max. metering capacity per hour around approximately 1.5 bar.



CONSULTANCY



STOCK ITEMS

**DLS 10000** / PS 140 – 4.8x1.6 PH, hose d = 8.0 mm, 120 – 10000 ml/h,  
for **descon**<sup>®</sup>dos sm | mcs | **ECO** | **SCE** | **(red)**

Item no.: 13201

**DLS 4000** / PS 138 – 3.2x1.6 PH, hose d = 6.4 mm, 50 – 4000 ml/h,  
for **descon**<sup>®</sup>dos sm | mcs | **ECO** | **SCE** | **(green)**

Item no.: 13202

**DLS 3000** / PS 138 – 2.4x1.6 PH, hose d = 5.6 mm, 25 - 3000 ml/h,  
for **descon**<sup>®</sup>dos **E** | sm | mcs | **ECO** | **SCE** | **(yellow)**

Item no.: 13203

**DLS 1000** / PS 138 – 1.6x1.6 PH, hose d = 4.8 mm, 15 - 1000 ml/h,  
for **descon**<sup>®</sup>dos **vision** | sm | mcs | **ECO** | **SCE** | **(black)**

Item no.: 13204

**DLS 240** / PS 138 – 0.8x1.6 PH, hose d = 4.0 mm, 5 - 240 ml/h,  
for **descon**<sup>®</sup>dos sm | mcs | **ECO** | **SCE** | **(blue)**

Item no.: 13205

NEXT WATER  
GENERATION. ®

**descon**



# descon®

## descon® VISUALIZATION

**descon®** offers two systems for visualization and recording of hygiene parameters.

**descon® mobil-trol<sup>me</sup>** – App for control and visualization of hygiene parameters as well as water temperature, filtering times, level control, and much more...

**descon® logview** – Visualization and operation log for use in the public sector to display the current measured values of descon-trol measurement and control devices. It is possible to connect up to 31 measuring and control devices via the RS 485 bus, which can be read out.



# VISUAL

INNOVATION | MADE IN GERMANY





## descon® mobil-trol<sup>one</sup> App for control and visualization

### descon® mobil-trol<sup>one</sup>

App for control and visualization of hygiene parameters and

- water temperature
- filter times
- filling level control and much more...

### descon® mobil-trol<sup>one</sup> for descon® trol XV.

Module for connection to the Internet via remote access and App for control and visualization of hygiene parameters. Control - worldwide via the WEB.

Item no. 12525

Modbus RTU interface for descon® trol XV

for connection to descon® mobil-trol<sup>one</sup>.

Item no. 15007XV



CONSULTANCY



PRODUCTION



WARRANTY

## descon® mobil-trol<sup>one</sup> App for control and visualization

### ROUTER + VPN

#### WORLDWIDE ACCESS

For worldwide access to the mobi-trol<sup>one</sup> via PC, tablet or smartphone. The following installation requirements must be met for this device:

- Network connection
- Connection to home network
- Router + VPN tunnel

### WI-FI HOME NETWORK

#### VIA WI-FI

For local access to mobi-trol<sup>one</sup> via PC, tablet or smartphone. The following installation requirements must be met for this device:

- Network connection
- Connection to home network  
Router / Wi-Fi

### ACCESS POINT

#### VIA ACCESS POINT - WI-FI

For local access to mobi-trol<sup>one</sup> via PC, tablet or smartphone. The following installation requirements must be met for this device:

- Network connection / Access point
- Connection to home network  
Access point / Router/ Wi-Fi





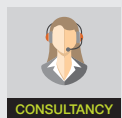
## descon® logview® Visualization | Operation log

Modern PC software for display of values currently measured by descon-trol measurement and control devices. It is possible to connect up to 31 measuring and control devices via the RS 485 bus, and read them out. The software is also used for a continuous recording of these values (electronic operating log). It is possible to enter the results of manual measurements and create special entries. Measured values can be visualized as clear trend curves. All data and curves can be easily printed.

The standardized RS 485 bus can be used by the **descon® logview** to read out measuring and control devices from other manufacturers as well. Therefore, this powerful software can also be used in case of upgrades of or extensions to existing facilities. We will be happy to provide information for your specific application on request.

### System requirements:

Standard PC with Windows operating system (VISTA and later) and USB port for software protection dongle (copy protection).



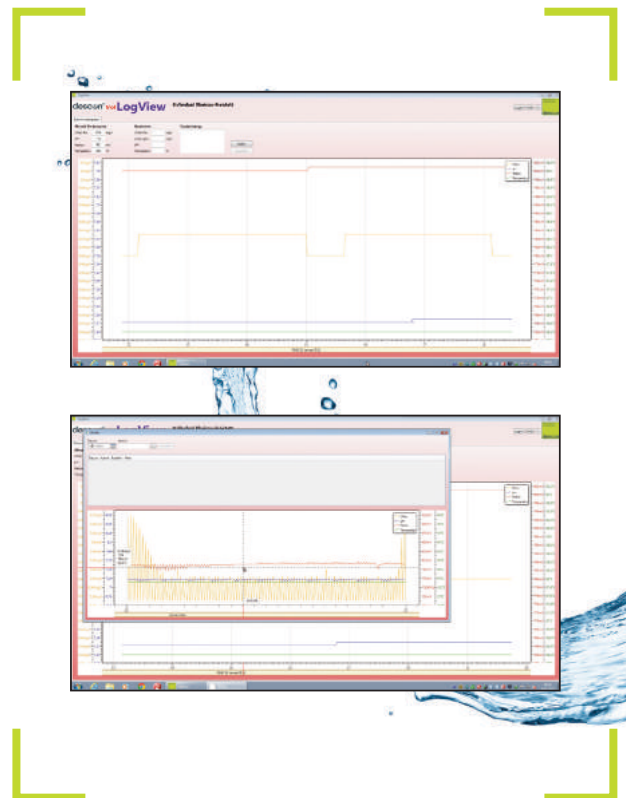
CONSULTANCY



PRODUCTION



WARRANTY



PC software <b>descon® logview</b> for <b>descon®trol S   R</b> series and <b>descon®trol R pro select</b>	Item no.: 15200
Interface RS 485 for <b>descon®trol S   R</b> and <b>descon®trol R pro select</b>	Item no.: 15007
Hardware / Interface kit USB / RS 485 with interface converter/ dongle.	Item no.: 15210
PC software <b>descon® logview XV</b> for <b>descon®trol XV S</b> series and <b>PRO</b>	Item no.: 15200XV
RS 485 interface for <b>descon®trol XV S</b> and <b>PRO</b> , plug-in type.	Item no.: 15007XV
Hardware / Interface kit USB / RS 485 with interface converter/ dongle.	Item no.: 15210





# UNIDES

INNOVATION | MADE IN GERMANY





# descon®

## CHLORINE SUPPLY

On-site generation of a chlorine disinfectant solution.

In the DIN 19643 norm, chlorine, calcium hypochlorite and sodium hypochlorite are listed as approved chemicals for disinfection. The most commonly used disinfectant world-wide is chlorine gas. However, it involves a high hazard potential.

**descon®** offers alternatives to chlorine gas and membrane electrolysis!  
**descon® unides, descon® unides concept, descon® unides smart, descon® calflow** and **descon® dome.**

Learn more on the following pages.

Areas of application are swimming pool water, drinking water, waste water and process water.



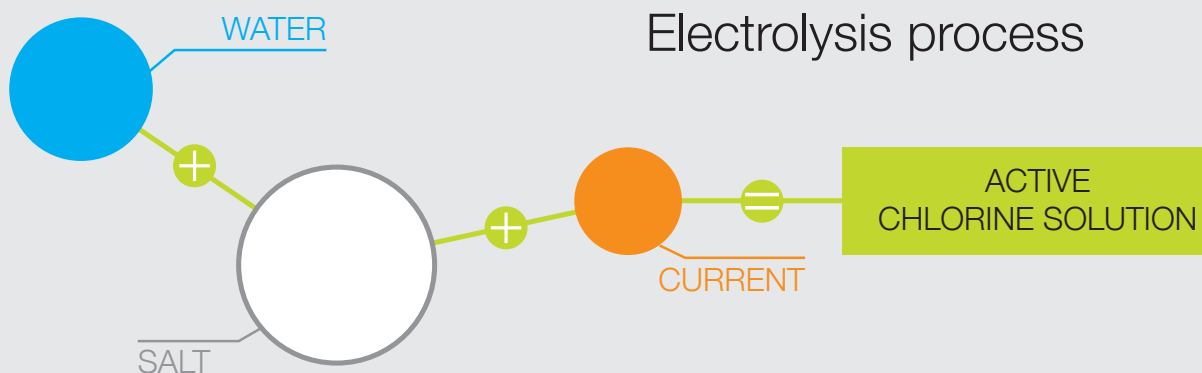


## descon® unides concept 60-200

How do electrolysis systems work?

The production is carried out in a compact production unit that includes all necessary components, such as a salt saturation tank, water softener, product tank, control and monitoring equipment. Plain system design to ensure an optimal performance at favourable costs. The chlorine storage tank is integrated in the system and has a capacity of 100 or 200 l.

All systems are designed as "Plug & Run" system.





## descon® unides concept 60

Production output: approx. 60 g chlorine per hour. Including water softener, salt saturation tank and product tank. In plastic frame, pre-assembled at the factory, ready for operation.

Dimensions: 660 x 780 x 1310 mm (WxDxH)

### Item no. 41001CA

The chlorine concentration of the generated disinfection solution is about 3.5 g/l. Due to the used process, the generated disinfection solution contains a portion of the used salt. When fully utilizing the hourly production output, the disinfection of a circulation rate of up to 100 m³/h is possible for an indoor pool, for example. When used in drinking water, it is possible to treat up to 150 m³/h of water, depending on the required chlorine addition. Please refer to the performance table for further information. On request, we will plan and design the system for you according to local conditions.



CONSULTANCY



PRODUCTION



PLUG + RUN



## descon® unides concept 100

Production output: approx. 100 g chlorine per hour. Including water softener, salt saturation tank and product tank. In plastic frame, preassembled at the factory, ready for operation.

Dimensions: 660 x 780 x 1310 mm (WxDxH)

### Item no. 41002CA

The chlorine concentration of the generated disinfection solution is about 3.5 g/l. Due to the used process, the generated disinfection solution contains a portion of the used salt. When fully utilizing the hourly production output, the disinfection of a circulation rate of up to 180 m³/h is possible for an indoor pool, for example. When used in drinking water, it is possible to treat up to 250 m³/h of water, depending on the required chlorine addition. Please refer to the performance table for further information. On request, we will plan and design the system for you according to local conditions.



CONSULTANCY



PRODUCTION



PLUG + RUN





## descon® unides concept 200

Production output: approx. 200 g chlorine per hour. Including water softener, salt saturation tank and product tank. In plastic frame, pre-assembled at the factory, ready for operation.

Dimensions: 900 x 600 x 1450 mm (WxDxH)

Item no. 41003CA

The chlorine concentration of the generated disinfection solution is about 3.5 g/l. Due to the used process, the generated disinfection solution contains a portion of the used salt. When fully utilizing the hourly production output, the disinfection of a circulation rate of up to 360 m³/h is possible for an indoor pool, for example. When used in drinking water, it is possible to treat up to 500 m³/h of water, depending on the required chlorine addition. Please refer to the performance table for further information. On request, we will plan and design the system for you according to local conditions.



CONSULTANCY



PRODUCTION



PLUG + RUN

## descon® unides Performance data unides concept 60 | 100 | 200

Model unides concept	60	100	200
Capacity g chlorine/h	60 g	100 g	200 g
Daily production capacity g chlorine max.	1300 g	2150 g	4300 g
Extraction during continuous operation max. g/h	55 g	90 g	180 g
Water consumption l/h, approx.	17 l	30 l	60 l
Salt consumption g/h, approx.	290 g	480 g	960 g
Hydrogen peroxide per operating hour l/h approx.	28 l	47 l	93 l
Concentration g chlorine/l approx.	3.5 g	3.5 g	3.5 g
Mains connection	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz
Connected load max. VA	480	800	1600
Product tank capacity l	100	200	200
Weight kg	75	105	105
Dimensions cm (WxDxH)	66x78x131	91x62x141	91x62x141
Item no.	Item no. 41001CA	Item no. 41002CA	Item no. 41003CA



## descon® unides tabs

Special tablets salt (high-purity)  
for electrolysis systems

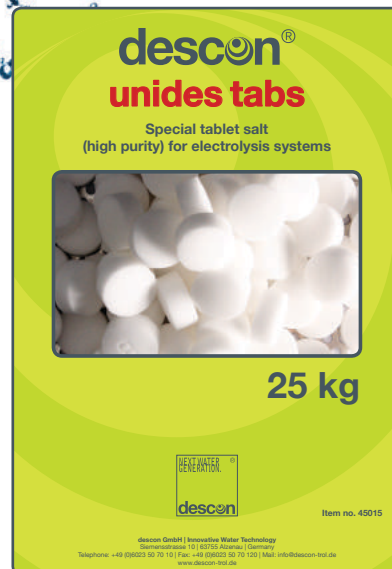
Hardness components and heavy metals in the operating salt can cause deposits on electrodes used in electrolysis systems, which can subsequently lead to a reduced system performance or even to a failure of the electrodes.

**descon® unides tabs** are made of high-purity salt (common salt/ NaCl) and contain no unwanted components such as hardeners or heavy metals.

### Extract of analysis:

Sodium chloride (NaCl)	min. 99.9 %
Calcium	max. 20 mg/ kg
Heavy metals (total)	max. 2 mg/ kg

Item no. 21070





## descon® unides smart 250 - 2000

### Design and operation of the electrolysis system

The required resources are salt, water and electricity. Hypochlorite solutions generated in this way are highly active and are largely free of chlorate. Large storage containers with the corresponding risk potential are not required.

Many years of experience in the construction and handling of this technology ensure maximum benefits and operational reliability. The **descon® unides smart** electrolysis system works "salt-neutral" on the basis of a protected technology (DBGM) that was developed by **descon®**. Designed as absolutely reliable, closed system for production of an adjustable active chlorine solution of approx. 5 g/l (approx. 0.5%) and an hourly output from 250 g up to 2000 g active chlorine/h, depending on model.

The systems work with undivided robust electrolysis cells, which are used to generate a sodium hypochlorite solution from a NaCl solution. Softened filtrate water is used for the production of the brine that in turn is used for operation. Pool water is treated with a built-in pool water desalination plant according to a special reverse osmosis process. The protected system technology compensates for the salt passage of the open cell.

The process largely avoids the accumulation of chlorides in pool water; the system can therefore be used with all materials used in pools without restrictions. The hydrogen-air mixture that develops during the production process is discharged via the roof with a monitored, automatic ventilation system. The entire system works with a slight negative pressure.



CONSULTANCY



PRODUCTION



PLUG + RUN



## descon® unides smart 250 - 2000

State-of-the-art disinfection / Product-specific benefits

- **On-site chlorine production using salt**  
Salt, electricity and soft water are used to safely generate a highly active disinfectant solution in a cost-effectively way.
- **Robust technology without membrane**  
Undivided cells have proven themselves for decades and are durable.
- **NO increase of chloride the content in pool water**  
A special process is used to withdraw salts as well as nitrate from the circulation water, depending on the system.
- **NO storage-related formation of chlorate in the dosing solution**  
The online production process and short storage periods largely prevent the formation of chlorate.
- **NO temperature-induced formation of chlorate**  
Increase of temperature max. 10 K
- **Long electrode life – marathon runner**
- **Safety**  
No contact with dangerous substances
- **NO membrane cell electrolysis**  
This means there are no expensive replacements required
- **NO cooling water required**
- **NO additional water softening plant required**
- **Low costs for maintenance, spare parts and servicing, low expenditure**
- **Fully automatic processes, remotely monitored**





## We offer alternatives to chlorine gas, chlorine granules and membrane cell electrolysis descon® unides smart 250 - 2000

Chlorine concentration: approx. 5 g/l  
Max. temperature rise of product: 10 k

### Dimensions | Assemblies:

The descon unides smart 250 and 500 are supplied as compact unit in a housing. The models unides smart 1000, 1500 and 2000 have a modular design and consist of 2 modules.

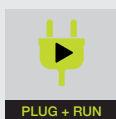
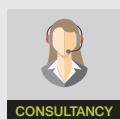
### Specific technical data, based on 1 kg Active chlorine production output:

Current consumption: approx. 5.0 kWh  
Water consumption production: 200 liters  
Consumption antiscaling: approx. 130 ml  
Consumption NaCl: 3.2 kg

Module 1: Electrolysis module  
Module 2: Desalination module

### SPS features:

Control of processes  
System visualization  
Remote maintenance (VPN)  
Error message / Logging





## descon® unides smart 250 - 2000

Scope of supply / Technical specifications:

Model	Capacity   chlorine/h	Daily output   kg/24 h	Module 1 LxWxH mm	Module 2 LxWxH mm	Item no.:
unides smart 250	250 g/h	6 kg	1750 x 800 x 1800	-	Item no. 41525
unides smart 500	500 g/h	12 kg	1750 x 800 x 1800	-	Item no. 41500
unides smart 1000	1000 g/h	24 kg	2300 x 800 x 2300	1000 x 800 x 2300	Item no. 41501
unides smart 1500	1500 g/h	36 kg	2300 x 800 x 2300	1000 x 800 x 2300	Item no. 41502
unides smart 2000	2000 g/h	48 kg	2300 x 800 x 2300	1000 x 800 x 2300	Item no. 41503





## descon® unides

The alternative to chlorine gas. Sodium hypochlorite produced with tubular cell electrolysis.

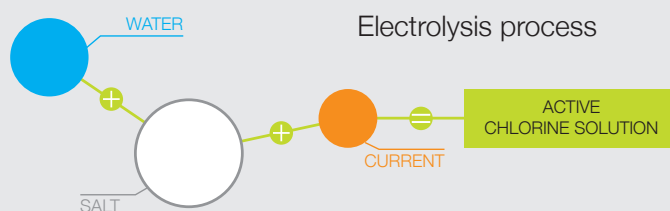
### descon® unides | model 250 – 2000 Design and operation of the electrolysis system

The required resources are salt, water and electricity. The hypochlorite solution produced in this way is highly active and largely free of chlorate. No large storage tanks with the corresponding risk potential required.

Many years of experience in the construction and handling of this technology ensure maximum benefits and operational reliability. Designed as closed system for production of an adjustable active chlorine solution of approx. 5 g/l (approx. 0.5%) and an hourly output from 250 g up to 2000 g active chlorine/h, depending on model.

The systems work with undivided robust electrolysis cells, which are used to generate a sodium hypochlorite solution from a NaCl solution. Softened mains water is used to produce the brine that in turn is used for operation.

The hydrogen-air mixture that develops during the production process is discharged with a monitored, automatic ventilation system via the roof. The entire system works with a slight negative pressure.





## descon® unides | descon® unides 250 - 2000

State-of-the-art disinfection | Advantages of the system | Technical data

### Advantages of the system

- **On-site chlorine production using salt**  
Salt, electricity and soft water are used to safely generate a highly active disinfectant solution in a cost-effective way.
- **Robust technology without membrane**  
Undivided cells have proven themselves for decades and are durable.
- **Long electrode life - marathon runner**
- **Safety**  
No contact with dangerous substances
- **NO membrane cell electrolysis** therefore no expensive exchange required.
- **NO cooling water required**
- **Low costs for maintenance, spare parts and Servicing, low expenditure**
- **Fully automatic processes, remotely monitored**

Model descon® unides	Chlorine/h	Daily output	Concentration	Solution in %
descon® unides 250	250 g/h	6 kg	5 g/l	0.5 %
descon® unides 500	500 g/h	12 kg	5 g/l	0.5 %
descon® unides 1000	1000 g/h	24 kg	5 g/l	0.5 %
descon® unides 1500	1500 g/h	36 kg	5 g/l	0.5 %
descon® unides 2000	2000 g/h	48 kg	5 g/l	0.5 %

### descon® unides | Dimensions

descon® unides 250	1750x800x1800
descon® unides 500	1750x800x1800
descon® unides 1000	2300x800x2300
descon® unides 1500	2300x800x2300
descon® unides 2000	2300x800x2300

### descon® unides | Consumption per 1 kg active chlorine

Current	approx. 5 kWh
Water	approx. 200 liters
Antiscaling	approx. 130 ml
NaCl	approx. 3.2 kg





# CALFLOW

INNOVATION | MADE IN GERMANY





# descon®

## CHLORINE SUPPLY

Dissolving and metering system for calcium hypochlorite.

Calcium hypochlorite is a widely used chlorine carrier material for chlorination of pool water. Advantages are a high available chlorine content and the good storage stability, while a poor solubility and a high share of insoluble components are disadvantageous. The insoluble components contained in calcium hypochlorite can result in a blockage of the metering equipment. To be able to make use of the advantages of calcium hypochlorite, special dissolving systems are required.

**descon®** offers 2 different system solutions.



**descon® calflow** >> The solution.  
Safe and effective disinfection of water.

**descon® cal flow** complete systems,  
premounted on plastic frame incl. control unit.

Capacity:	1000 g/h
Daily output	24 kg
Tablet supply:	approx. 20 kg
Spray nozzles:	2 Incl. safety and flushing system
Max. concentration of solution at 1 bar:	1.0 %
Connection:	230 V, 50 Hz
Dimensions:	600 x 450 x 1109 mm (WxDxH)
<b>Item no. 44025</b>	

**descon® SFU (safety-filling-unit),**  
dust-free filling with filling hopper for **descon® cal flow**  
**Item no. 44033**

Booster pump set, consisting of:

- 1 booster pump
- 2 2-way ball valves d 16/ DN 10
- 1 water jet pump DN 25
- 1 fiber filter
- 1 pressure reducer
- PE hose and hose adapters and small parts

**Item no. 44038**

## descon® calflow System design and functions

### descon® cal flow | System design

descon® cal flow is a combined dissolving and metering system with an integrated storage container for max. 25 kg calcium hypochlorite tablets. Chlorine tablets are dissolved with purified pool water according to a protected process. The solution is diluted and added to the treated water via an injector system.

### descon® cal flow | System functions

#### descon® SFU (SAFETY-FILLING-UNIT)

The storage tank is filled via the **descon® SFU (SAFETY-FILLING-UNIT)**, a specially developed and protected filling system. This system is placed on top of the supply container, thereby ensuring a dust-free filling of the system.

An inclined sieve is installed in the lower area of the storage tank. This sieve is sprayed with purified pool water from below to dissolve the tablets. The solution drips into the mixing container, is diluted to approx. 1%, pumped down by the injector and added to the treated water.

#### descon® SCS (SAFETY-CHANGING-SCREEN)

The sieve on which the tablets are placed can be easily replaced by a second sieve during operation. This allows you to remove deposits on the sieve outside of the system. The cleaned sieve is kept as reserve for the next change.

The storage container is equipped with a transparent front, which makes it easy to see when tablets need to be refilled.

The heavy dilution of the generated chlorine solution prevents the formation of deposits in the dosing solution, which could interfere with the dosing process. Should solid particles nevertheless get into the solution, they are separated in the sedimentation tank and can be rinsed out easily.



## descon® calflow

### Control of the system

The inlet for dissolving water to the system is controlled by a solenoid valve. When using a measuring and control system, the valve is controlled proportionally. This function eliminates the need for sensitive metering equipment in the chlorine-containing medium.

The metering capacity of the system is up to 1000 g chlorine/hour. Both the dust-free filling of the system with calcium hypochlorite tablets and the uninterrupted use of the system due to the interchangeable sieve are protected as utility models.

All functional parts of the system are freely accessible and allow a trouble-free maintenance.

## descon® calflow

### Technical data

descon® cal flow	Technical data
Capacity active chlorine	1000 g
Daily production	24 kg
Storage quantity tablet silo	25 kg
Solution	1%
Concentration	10 g/l
Mains connection	230VAC, 50Hz
Connected load	50W
Dimensions h x w x d mm mm	600 x 1200 x 450
Weight	35 kg

For systems with higher performance, price on request.

## descon® calflow

### Advantages of the system

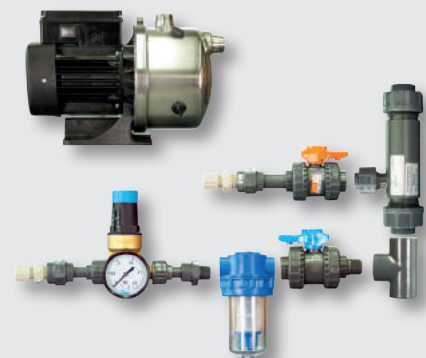
- descon® SFU (SAFETY-FILLING-UNIT)  
Dust-free filling with filling hopper
- descon® SCS (SAFETY-CHANGING-SCREEN)  
Easy, safe change of the sieve
- No other chemical solvents, such as acid
- 1000 g free chlorine/hour
- Robust construction
- Positive hazard assessment
- Lowest maintenance and running costs
- Clear system arrangement

## descon® calflow

### descon® booster pump set

descon® booster pump set (motive water set) consisting of:

Booster pump JP5, water jet pump (injector), fiber filter, pressure reducer, ball valves, hose connection set and PE hose 1/2".





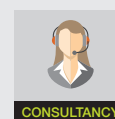
## descon® dome System design and functions

The chlorine granules are dissolved with process water in a reactor and led into a sedimentation tank. The solution is set to a value of pH 7.5. Metering pumps are used to extract the solution. While extracting the solution, a 2nd sedimentation tank is filled in the same way, so that a sufficient quantity of chlorine is always available. The generation of chlorine solution is uninterrupted, with redundant design. The empty unit is cleaned using a special procedure, i.e. the waste water of the cleaning process is neutralized and discharged dechlorinated. The cleaned dissolving unit switches to the "stand-by mode". The entire delivery and dosing section is automatically cleaned outside of operating hours once a day.

### Technical data:

Capacity:	up to 4 kg chlorine/h
Chlorine content of solution:	approx. 4 %
pH level of solution:	approx. pH 7.5
Stock of calcium hypochlorite granules:	90 kg (mind. 70 %)
Electrical connection:	230 V / 16 A / 50 Hz
Current consumption:	100 W
Water consumption:	90 l/kg chlorine
Conditioner:	0.8 l / kg chlorine
Ambient temperature:	max. 40 °
W x H x D:	1530 mm x 2200mm x 600mm
Operating weight:	approx. 450 kg

Item no.: 44000





## descon® dome

The alternative for supply of chlorine in public swimming pools

**descon® dome** is designed as chlorine supply system to replace chlorine gas equipment or membrane cell electrolysis systems. Expensive maintenance and repairs and the exchange of membrane cells are now a thing of the past.

The system uses calcium hypochlorite to produce a 4% active chlorine solution, with an hourly output of up to 4 kg. It is possible to expand this in a modular way in steps of 2 kg. The chlorine solution is produced on demand and without any interruption in batches of approx. 25 l. A stabilization of the acid capacity and a trouble-free storage of the chlorine carrier are an advantage when using calcium hypochlorite. The consumption of pH correction agent decreases significantly, because the chlorine product has a pH level of 7.5. Lime deposits and the accumulation of mud, which usually occur during the use of calcium hypochlorite, are excluded by the special system technology. The accumulated waste water is disposed of in an environmentally friendly way after neutralization of the residual chlorine content. The entire production of the chlorine solution is carried out in a closed housing, equipped with an activated charcoal filter system for the exhaust air and a collecting tray with leakage monitoring. The overall production system can be integrated in an existing metering system with just a few modifications, even while the pool is in use.

Granular chlorine is effortlessly filled in directly from 45 kg supply containers via a motorized lifter. The user does not have any contact with chlorine. With a medium-sized pool water treatment of 500 m<sup>3</sup>/h circulation capacity, the contents of a barrel last for approx. 5 days of operation.

The system is controlled by means of a touch screen and is suitable for communication with customary facility management systems. Top priority was given to operational safety during the development of the **descon® dome**. The entire operating procedure and sequence is controlled by means of high-quality sensor technology, and all process steps relevant to security are monitored twice.



# ADDITIONAL DISINFECTION



# descon®

## ADDITIONAL DISINFECTION

With the **descon® UV** and **descon® Ozone** systems you can optimize your water treatment.

Whether **descon® ultraV** units or **descon® ZON** systems, you opt for intelligent, high-quality and sophisticated products. Improve your water quality by using these technologies, which for example decompose combined chlorine and eliminate or inactivate bacteria and microorganisms and reduce the consumption of disinfectants.





ADDITIONAL DISINFECTION

# OZON+UV

INNOVATION | MADE IN GERMANY



NEXT WATER  
GENERATION.<sup>®</sup>  
**descon**



## descon® zon 150<sup>air</sup>

For pools with a volume of up to 150 m<sup>3</sup>

The **descon® OZONE** systems are suitable for indoor and outdoor pools, Jacuzzis and diving pools, and other applications in the water treatment sector. Sophisticated, low-maintenance systems for conditioning up to 150 m<sup>3</sup> water; the systems can be connected with minimum effort and expense. The water is extracted from a slip stream, after the filter, is treated in the **descon® OZONE** system and then returned into the main circulation flow.

### Design and technical data:

Reaction and degassing tank as well as water trap are made from high-quality stainless steel. Ozone generator, air dryer and the entire control unit are placed in a housing made from brushed stainless steel. All components including the booster pump are pre-assembled on a mounting plate at the factory, and are ready for operation. This ensures a fast installation on site.

Ozone output:	2 g/h
Supply voltage:	230 V, 50/60 Hz
Maximum water flow:	approx. 2.5 m <sup>3</sup> /h
Overall electrical connection:	approx. 980 W
Size (WxDxH) (mm)	55 x 49 x 135 cm
Weight:	Approx. 55 kg

Suitable for pools up to a volume of 150 m<sup>3</sup>.

Item no. 43002

Prices for larger systems on request.



CONSULTANCY



PRODUCTION



## descon<sup>®</sup>zon 150<sup>air</sup>

### Functionality of system and technical data

#### Mode of operation

The **descon<sup>®</sup> OZON** method makes use of the advantages of ozone without the technical complexity and expenses that are normally required. A slip stream of the treated water is extracted before or after dosing and is treated with ozone. The moisture contained in the drawn in air is extracted in an air dryer and gets into the ozone generator, where ozone ( $O_3$ ) is generated from oxygen by silent electric discharge. Excess ozone is bound to activated carbon after the gas phase. The water treated in this way is added to the main circulation flow. Possible residual quantities of dissolved ozone are reduced by dilution and/or reactive decomposition to such a degree that no free ozone is detectable in the pool water.

Due to the continuous treatment of a slip-stream of the filtered water with ozone, the effects of water treatment go far beyond the results of a treatment using chlorine only.

#### Air drying

The operating air should be as dry as possible to produce ozone. The dew point is used as measure/reference. In a perfectly dry air, the dew point is approx.  $-40\text{ }^\circ\text{C}$ , i.e. the entire water that is dissolved in the air under normal conditions (humidity) is separated. With an increasing temperature, the humidity share increases. With temperatures of  $30\text{ }^\circ\text{C}$  and a moist environment, the air is saturated, and the humidity is condensed when cooling down.

#### If working with moist ambient air during the ozone production, the following must be observed:

- The nominal capacity of the ozone system is reduced to approx. 50%.
- In addition to ozone, also nitrogen oxide and as a result the unwanted nitrate are produced.

**descon<sup>®</sup>zon 150<sup>air</sup>** – with integrated air drying ensures optimum operating conditions and a considerably higher efficiency during the entire operation time when compared to systems without air drying.





## descon® ultra V

For pools with a volume of up to 120 m<sup>3</sup>

### descon®ultraV 80-ND

Disinfection system with low-pressure UV lamp 80 W, for pool volumes 50-75 m<sup>3</sup>. With high-quality stainless steel reaction chamber PN6 1.4404 (316), for vertical and horizontal mounting, with sight glass for a visual inspection. Designed for approx. 8000 hours of operation. Connection 2 x 1 ½" male. UV control system as separate unit for individual installation, 230 V, 50 Hz

Item no. 42010

### descon®ultraV 120-ND

Disinfection system with low-pressure UV lamp 120 W, for pool volumes 75-125 m<sup>3</sup>. With high-quality stainless steel burner chamber PN6 1.4404 (316), for vertical and horizontal mounting, with sight glass for a visual inspection. Designed for approx. 8000 hours of operation. Connection 2 x 1 ½" male. UV control system as separate unit for individual installation, 230 V, 50 Hz

Item no. 42011

Replacement UV tube (low pressure emitters) 80 W, approx. 8000 hours of operation

Item no. 45002

Replacement UV tube (low pressure emitters) 120 W, approx. 8000 hours of operation

Item no. 45001

Special quartz glass for UltraV 80/120 - low pressure

Item no. 45005BUV



CONSULTANCY



STOCK ITEMS



## descon® ultra V

### Functionality of system and technical data

The **descon®ultraV** disinfection systems are made of stainless steel and are installed in a slip-stream in the clean water pipe, after the filter. The system is characterized, among other things, by a maximum yield of the UV radiation due to the formation of turbulence, by taking advantage of the entire length of the lamps and a selectively applied reflection in the reactor tube. The service life of the UV lamps is approx. 8000 hours of operation. A subsequent installation into existing systems is possible without problems, low space requirements.

#### What is UV light?

Ultraviolet (UV) light is part of the electromagnetic spectrum between visible light and x-rays. The UV spectrum is divided into 4 areas. UVA / UVB / UVC and vacuum UV. In private swimming pools, low-pressure UV lamps with a wavelength of 254 nm are used.

**descon®ultraV** systems ensure a safe destruction or inactivation of microorganisms and bacteria in swimming pool water. The use of chemicals can be noticeably reduced, and the UV light removes the typical pool smell. At the same time, UV light provides an excellent protection against algae growth.

Model	Ultra V 80-ND	Ultra V 120-ND
For pools up to m <sup>3</sup>	80 m <sup>3</sup>	120 m <sup>3</sup>
Low pressure burner	80 W	120 W
Output power	25 W UVC (254nm)	40 W UVC (254nm)
Circulation capacity	16 m <sup>3</sup> /h	25 m <sup>3</sup> /h
Bypass capacity	7 m <sup>3</sup> /h	12 m <sup>3</sup> /h
Connection	2 x 1 1/2"	2 x 1 1/2"
Durability of the UV lamps	8000 h	8000 h
Optical control	YES	YES
Operating pressure max.	6 bar	6 bar
Connection	230 V, 50 / 60 Hz	230 V, 50 / 60 Hz
Connected load	0.08 kW/h	0.12 kW/h
Weight kg	6.5 kg	6.5 kg
Dimensions (DxH)	76 x 1020 mm	76 x 1020 mm
Item no.:	Item no. 42010	Item no. 42011



# PARTS

INNOVATION | MADE IN GERMANY





descon<sup>®</sup>

ACCESSORIES MEASURING,  
CONTROL, METERING TECHNOLOGY

The **descon<sup>®</sup>** product range offers high-quality, tried and tested, proven accessories for measurement, control and metering systems. We place special emphasis on manufacturing quality and functionality of the products.

The high requirements as regards private and public pool water treatment are taken into account. Sustainability is a key factor in the product development.





### Sensor cable

Standard black for redox and pH, version COAX-D-AE 1,20 m, 2-pole plug connector

Item no.: 15020



### Sensor cable

Standard for free chlorine and active oxygen, version TRIAX-P-AE 1.20 m, including reference cables, 2-pin plug connection

Item no.: 15021



### Sensor cable with connector M 12

For **descon**® Duplex sensor disinfection (chlorine / hydrogen peroxide)  
Item no.: 15022

For Sensor PT 100 / sample water monitoring  
Item no. 15022MWT



### Temperature sensor Pt 100 - STRK2010 with switching contact for sample water monitoring

For all **descon**® compact measuring cells

Item no.: 15030



### Reed contact float

RED, d = 19 mm, length 26 mm for measuring cells ROUND until year built 2017-12.

Item no. 15031

BLACK, d = 19.2 mm, length 26 mm for measuring cells BLOCK until year built 2017-12.

Item no. 15031S

RED / TRANSPARENT, d = 12 mm, length 30 mm for measuring cells from year built 2018-01.



### Conversion kit consisting of:

Plexiglas tube inner diameter: 14 mm; A-diameter: 20 mm; float RED

Diameter: 12 mm; length: 30 mm. For all descon measuring cells until year built 2017-12.

Item no. 15002SR



### Strainer pipe 0.5 mm

For fiber filter for compact measuring cell 0310/R, 0210/B and 0410/B and item no. 15037

Item no.: 15034



### Fiber filter set,

Filter housing transparent, nylon sieve element that can be cleaned/hose connection 8/6 mm incl. wall mounting.

Item no. 17041

Sieve element for filter housing nylon 50 µm.

Item no. 17041S



## Holder for test liquids

5 spaces for test liquids, cleaners

Item no.: 15039N



## Buffer solution

pH 7.0 - 50 ml

Item no.: 15040



## Buffer solution

pH 4.0 - 50 ml

Item no.: 15041



## Redox solution 475 mV

50 ml

Item no.: 15042



## Probe cleaner

Liquid, acidic - 50 ml

Item no.: 15059



## Precious metals cleaning paste

For sensors with precious metal ring

Item no.: 15060



## Sample water line

PE 8/6 mm

Standard green  
Used with sample water

Item no.: 15045



## Metering hose

PE 6/4 mm

Standard green  
Used with pH Minus, pH Plus and flocculation

Item no.: 15046

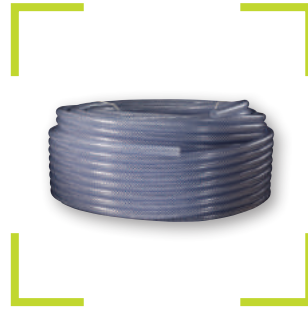




**Metering hose PTFE,  
6/4 mm**

Used with liquid chlorine  
and active oxygen

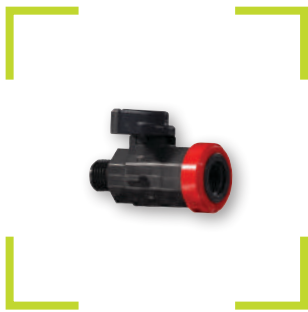
Item no.: 15047



**Metering hose PVC  
fabric-reinforced 12/6 mm**

Used with pH minus, pH  
plus and liquid chlorine

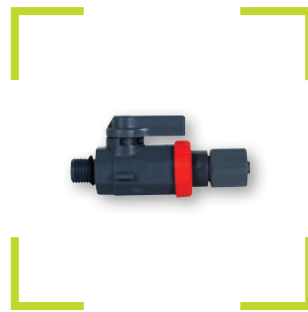
Item no.: 15048



**Ball valve PVC,  
DN 6 - 1/4"**

For sample water

Item no.: 15054



**Ball valve PVC,  
DN 6 - 1/4"**

For sample water,  
connection 8/6 mm PVC

Item no.: 15056



**Sample water  
extraction 1/2"**

With ball valve  
Connection 8/6 mm PVC  
immersion tube 65 mm

Item no.: 15055



**Suction lance**

Rigid, adjustable in height  
with empty signal for canister  
20-30 l, incl. screw lid MUE  
61, hose connection 6/4 mm  
Item no.: 15065

Hose connection 12/6 mm

Item no.: 15066



**Suction lance**

Rigid, adjustable in height  
with 2 x level (pre-empty/  
empty signal) for canister  
20-30 l, incl. screw lid  
MUE 61, hose connection  
6/4 mm

Item no.: 15065DN



**Suction line flexible**

Without connector, hose  
connection 6/4 mm, includ-  
ing screw cap MUE 61  
Item no. 15068S

With empty signal  
Item no. 15067



**Metering valve PVC**  
with connection DN4-6/4 mm  
Immersion tube depth:  
30 mm | **Item no.: 15069**

Immersion tube depth: 60 mm  
| **Item no.: 15069OR**

Immersion tube depth: 90 mm  
| **Item no.: 15070**



**Metering valve  
Combination connection  
PVC**

R 1/2" connection  
DN4-6/4 mm, DN8 - 8/6  
mm, 12/6 mm and for PVC  
pipe d = 16 mm

**Item no.: 15071**



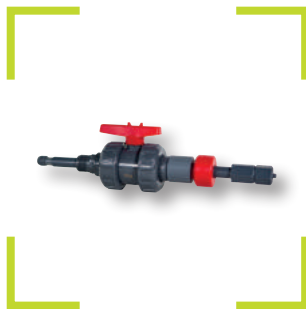
**Metering valve 80 PVC**

Can be cleaned with ball  
valve, R 1/2" immersion  
tube depth 80 mm with  
mechanical locking device,  
hose connection 6/4 mm

**Item no.: 15072S**

Hose connection 12/6 mm

**Item no.: 15072S8**



**Immersion tube**

For metering valve 15072S/  
S8, Total length 270 mm  
Immersion tube depth  
80 mm, hose connection  
6/4 mm

**Item no.: 15073S**

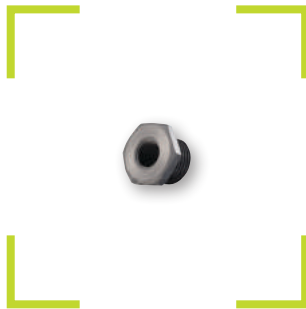
Hose connection 12/6 mm

**Item no.: 15073S8**



**Reducer PVC  
1/2" to 1/4"**

**Item no.: 15074**



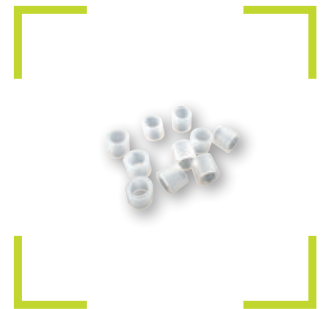
**Silicone hose**

6 x 1.5 mm for metering  
valves, cut original size.  
Set of 10 pieces in PE bag.

**Item no. 19000**

**Silicone hose**

6 x 1.5 mm for metering  
valves Length 50 cm  
**Item no. 19000 -05**



**Metering valve set**

With tapping clamp incl.  
metering valve, adapter as  
ready-to-install unit  
For PVC pipe 50 mm  
**Item no. 15105**

For PVC pipe 63 mm  
**Item no. 15106**



**Screw cap RED**

For compact measuring cell  
PG 13.5 with clamping ring  
and O-ring

**Item no. 15051**





## descon® PVC connecting parts

For **descon®** measuring, control and metering systems, only connecting parts and components made of high-quality PVC turned parts are used. This guarantees safe hose connections and durability, even in case of aggressive dosing media.

Suction/pressure valve DN 4 m. O-ring for metering pump Alldos/Grundfos e.g. MEGA/HF/HM	Item no.: 13402
Hose connection DN 4 for suction/pressure valves Alldos/Grundfos e.g. MEGA/HF / HM - PVC	Item no.: 13403
Hose connection made of PVC 6/4 mm to 1/4" male thread	Item no.: 15063S
Hose connection made of PVC 8/6 mm to 1/4" male thread	Item no.: 15053
Hose connection made of PVC 12/6 mm to 1/4" male thread	Item no.: 15063
Hose connection made of PVC 8/6 mm angle to 1/4" male thread	Item no.: 15052
Connection fitting R 1/4" male thread, straight for sample water, connection 8/6 mm	Item no.: 15057
Connection fitting R 1/4" male thread, angle for sample water, connection 8/6 mm	Item no.: 15058
Connector in PVC for metering line connection 6/4 mm	Item no.: 15099S
Connector in PVC for metering line connection 8/6 mm	Item no.: 15099S8
Connector in PVC for metering line connection 12/6 mm	Item no.: 15099A
Connector in PVC for metering line side 1 = connection 6/4 mm, side 2 = connection 12/6 mm	Item no.: 15099



## pH-T tester Device for testing and simulation PH-T with digital display Chlorine simulator

### Primary use:

Testing of pH and redox electrodes, testing of pH and redox measuring inputs and cables.

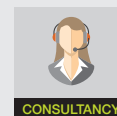
### Special features:

High-impedance test, voltage measurement in mV, default tensions in mV or pH, battery operation

Item no.: 15075

Chlorine simulator

Item no.: 15075CS



CONSULTANCY



PRODUCTION



## Sample water pump Bracket

Sample water pump, self-priming in plastic casing with fiber filter, model 1, delivery rate: 4 m<sup>3</sup>/h at 6 m WC, 230 V, 50 Hz  
Item no.: 15080

Bracket for sample water pump made of PVC 400x220x95 mm incl. fastening  
Item no.: 15081



CONSULTANCY



STOCK ITEMS



## Sample water recirculation system MRA 71

Sample water return system MRA 71  
For return of the sample water in private and communal pools. Tank made of black PE, contents 75 l, with inlet, ventilation connection, built-in submerged pump, including float switch and non-return valve. Capacity max. 10 m<sup>3</sup>/h with 9 m WC, 230 V, 50 Hz

Item no.: 15085



CONSULTANCY



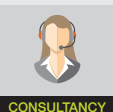
PRODUCTION



## descon® safety tray 40 l with carrying handle made of PE

Dimensions: 40 x 40 x 33 cm  
For supply units with a content of 25/30 l

transparent  
Item no.: 15090T

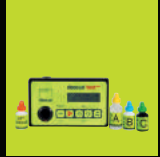


CONSULTANCY



STOCK ITEMS





# descon®

## ANALYSERS

The **descon®test plus** from **descon®** is an LED photometer for ongoing control measurements in the swimming pool and drinking water sectors. In addition to the disinfectants free chlorine, total chlorine, chlorine dioxide and ozone, it is possible to measure pH, acid capacity and other important parameters. Easy to understand user interface, easy handling of the instrument and the reagents facilitate daily measurements.

**descon®test plus** with electronic measurement of pH level in addition.



# ANALYSIS

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## descon® test plus Photometer for water analysis

Digital LED photometer for all areas of water analysis. LCD clear text display with user interface, complete with reagents, measuring tubes and necessary accessories in carrying case. The device is equipped with 2 LEDs, which allows measurements in different colour spectrums. In addition, the descon test PLUS offers an electrical measurement of the pH level according to DIN 19643. The overall design ensures an easy and secure handling.

### Basic equipment in carrying case:

- |   |  |   |                                  |
|---|--|---|----------------------------------|
| 1 | Digital photometer<br><b>descon® test plus</b> | 1 | reagent chlorine DPD C           |
| 2 | measuring tubes                                | 1 | reagent pH indicator             |
| 1 | plug   | 1 | light protection tube            |
| 1 | tamper   | 4 | batteries (Mignon)               |
| 1 | reagent chlorine DPD A                         | 1 | plastic case with<br>foam insert |
| 1 | reagent chlorine DPD B                         |   |                                  |

**descon® test plus** digital photometer, battery-supplied, incl. carrying case, reagents, measuring tubes and accessories - basic equipment.  
**Item no. 31102**

Power supply for **descon® test plus**  
**Item no. 31106N**





## descon® test plus

### Measuring parameters

Parameter	Measuring range
Free chlorine	0 – 5 mg/l
Total chlorine	0 – 5 mg/l
pH	6.0 – 8.3 pH
pH sensor electric	0 – 14 pH
Acid capacity KS4.3	0 – 5 mmol
Ozone	0 – 1 mg/l
Chlorine dioxide	0 – 2 mg/l
OxiActiv / Hydrogen peroxide	0 – 60 mg/l
Aluminium	0 – 0.5 mg/l
Chloride	0 – 250 mg/l
Total hardness	0 – 500 mg/l
Bromine	0 – 10 mg/l



## descon® test plus

### Optional equipment | electronic measurement of pH

descon® test plus with electronic pH measurement | Corresponds to the requirements of DIN 19643 / November 2012.

#### Extract of the standard:

This fixed electrode must also be checked daily by means of an electrometric pH measurement (portable measuring instrument). Deviations between the continuous display unit and the control device must not exceed  $\pm 0.2$  pH units while maintaining the values stated in section 5.3, table 2 below. The electrometric pH measurement must be adjusted as two-point calibration according to manufacturer's instructions as regards frequency and sequence. It is mandatory to observe storage conditions for buffer solutions and their durability and purity.

#### Electronic pH measuring set consisting of:

- 1 x special pH probe with recessed membrane glass,
- 1 x sensor cable for pH with BNC and S7 plug rotating, length: 300 mm for descon® test plus - version 2.0
- 1 x pH board incl. SW update (factory-installed in the device)

Item no.pH measuring kit: #31106





Reagent chlorine DPD A  
for approx. 60 analysis

Item no.: 33102



Reagent chlorine DPD B  
for approx. 60 analysis

Item no.: 33103



Reagent chlorine DPD C  
for approx. 60 analysis

Item no.: 33104



Reagent pH  
for approx. 140 analysis

Item no.: 33105



Reagent iron  
for approx. 60 analysis

Item no.: 33108



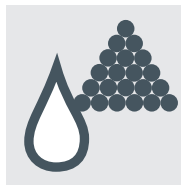
Reagent acid capacity  
for approx. 70 analysis

Item no.: 33121



Reagent aluminum  
for 10 analysis (TAB 1+2)

Item no.: 33120



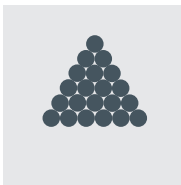
Reagent ammonium  
for approx. 100 analysis

Item no.: 33106



Reagent chloride  
for approx. 20 analysis

Item no.: 33107



Reagent copper  
for approx. 100 analysis

Item no.: 33114



Reagent cyanuric acid  
for 10 analysis

Item no.: 33111



Reagent ozone (D)  
for approx. 60 analysis

Item no.: 33123



Reagent phosphate  
for 10 analysis

Item no.: 33115



Reagent manganese  
for 10 analysis (1+2 TAB)

Item no.: 33117



Reagent total hardness  
for 10 analysis

Item no.: 33125



## Duroval – EasyTest

1 drop rapid test for an easy measurement

To determine the carbonate hardness  
1 drop = 1 degree of carbonate hardness /  
colour change: blue > red

**Item no. 33128**



To determine the total hardness  
1 drop = 1 degree carbonate hardness /  
colour change: red > green

**Item no. 33129**



## Duroval – Test kit

To determine the hardness in very soft/  
softened water samples by titration -  
Duroval B

**Item no. 33124**



Test kit to determine the carbonate hardness  
(acid capacity KS4.3) in natural and technical  
water samples by titration - Duroval C

**Item no. 33126**

Titration solution for Duroval B Total hardness

**Item no. 33124-T**

Titration solution for Duroval C Carbonate  
hardness

**Item no. 33126-T**

Indicator solution for Duroval B and C

**Item no. 33124-I**



## Measuring tube round for photometer **descon® test**

**Item no.: 35000**



## Plug for measuring tube Photometer **descon® test**

**Item no.: 35001**



## Stamper for tablets

**Item no.: 35003**



## Light protection tube for photometer **descon® test**

**Item no.: 35002**



## Pool testers Chlorine / pH

20 tablets each for free chlorine  
(DPD1) / pH analysis

**PU = 15 pcs | Item no.: 34007**



## Refill pack Chlorine / pH

with 30 tablets each for free chlorine  
(DPD1) / pH

**PU = 10 pcs | Item no.: 34007N**



## Pool testers Hydrogen peroxide / pH

20 tablets each  
for analysis of hydrogen peroxide / pH

**PU = 15 pcs | Item no.: 34006**



## Refill pack Hydrogen peroxide / pH

with 30 tablets each  
for hydrogen peroxide/ pH

**PU = 10 pcs | Item no.: 34006N**



# PUBLIC

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# descon®

## FILTER TECHNOLOGY - PUBLIC

For the commercial and public sectors, **descon®** offers high-quality filter tanks made from GRP. **descon® norm** filter tanks are available with diameters from 610 – 2000 mm. The range is completed by additional components for the filter system.

Please do not hesitate to request a project-related offer.  
Please contact our project department.







## Filter tank descon® norm | Filter tanks made from glass fiber reinforced polyester (GRP) with nozzle plate, cylinder for a filling height of 1200 mm, operating pressure 2.00 bar.

Quick filter tank, suitable for backwash, works using the downstream process. Make: **descon® professional-line norm**. Exclusively manufactured from corrosion-free, high-quality polyester resins (isophthalic acid resins), standing, closed cylindrical design equivalent to DIN 19605/19643, completely homogeneous overall design exclusively made of GRP, rot-proof. Base ring made of glass fiber reinforced polyester, adapted to the tank size.

Colour: **descon®** green

Cylindrical part, tank bottom, transitions, connections and block flanges made in a particularly robust manual lamination process. Inner fine lining made of food-safe special resin, highly resistant to abrasion, resistant to chemicals of all process combinations according to DIN 19643, except for ozone.

### Tank fittings

Firmly laminated GRP nozzle plate, secured with center-mounted PVC pipe support.

### Nozzle plate assembly

Min. 60 filter nozzles installed per square meter, for purge air connection: air cushion nozzles, material PP, Ø 58 mm, height 38 mm, with 30 fine slots each,  $a = 0.25 \text{ mm} = 1.50 \text{ cm}^2$ , shaft:  $L = 100 \text{ mm}$ , Ø 16 mm =  $2.00 \text{ cm}^2$ . Mounting from above with expansion plugs.

GRP / plastic formed part and fitting as sludge hopper with PVC connection for internal raw water piping. Size and diameter according to size of corresponding tank.

### Quality assurance

Technical design according to DIN 19605.  
Mathematical proof, static of container to AD Merkblatt 2000 N 1 (technical rule), pressure vessels.  
Made of glass fiber-reinforced thermosetting plastics (GRP).

- According to DIN V 2505, calculation of flange connections
- According to AD 2000 Merkblatt B 4, dished covers
- According to AD 2000 Merkblatt B, screws
- Pressure Equipment Directive 97/23/EC
- KSW-tested

### Additional equipment

Rating of operating pressure:  
2.0 bar when testing an overpressure of 2.6 bar

Temperature resistance up to 40°C

Inspection window (sight glass)  
View size 55 x 345 mm or 55 x 245 mm  
GRP formed part, block flange inserted in cylinder.  
Allows an excellent observation of the filter bed extension during the backwash process according to DIN 19643, 19605, including all necessary accessories.



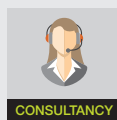


## descon® norm

**descon® norm**, filter tanks made from high-quality glass fiber reinforced polyester (GRP) with protective inner sealing, manufactured using a proven manual lamination process, with built-in nozzle plate, internal piping, filling port and lateral maintenance port, incl. plastic protective caps for screw heads. For technical details and application recommendations, see the following table, or refer to the general information about descon norm filter tanks. 1 inspection window (sight glass), view dimensions 55 x 245 mm is included in the standard scope of supply / price. Additional windows, also with larger dimensions, can be installed at an additional fee. Filter tanks for higher operating pressures, ozone resistance - price on request.

For operating pressure:  
 Test pressure:  
 Tank colour:  
 Filter base / lids / protective caps:  
 Operating temperature:

max. 2.0 bar  
 2.6 bar  
**descon®** green  
 black  
 max. 40° C





**descon® norm** | Select your filter tank/tanks according to the required volume flow. We will be happy to provide individual advice.

Tank d = mm	Tank height (mm)	Filter area m <sup>2</sup>	Volume flow rate m <sup>3</sup> /h at 30 m/h	Volume flow rate m <sup>3</sup> /h at 50 m/h	Filling port DN	Maintenance port DN	Revision port DN	Item no.
610	2100	0.29	8.4	14	210	210	x	<b>Item no.: 52000</b>
765	2350	0.46	13.8	23	210	210	x	<b>Item no.: 52001</b>
920	2325	0.65	19.5	32.5	210	210	x	<b>Item no.: 52002</b>
1080	2450	0.92	27.6	46	430	430	x	<b>Item no.: 52003</b>
1250	2530	1.23	36.9	61.5	430	430	x	<b>Item no.: 52004</b>
1450	2710	1.66	49.8	83	500	500	150	<b>Item no.: 52005</b>
1800	2850	2.55	76.2	127	500	500	150	<b>Item no.: 52006</b>
2000*	2200	3.14	94.2	157	500	430	50	<b>Item no.: 52007</b>

\* This model consists of 2 parts.

## Accessories for filter series **descon® norm** Ventilation valve for 'norm' series

Ventilation valve type A for filter tanks NORM made from stainless steel V4A 3/4" female thread, and 1/2" male thread with large aerator d 32, manual ventilation d 20 for connection to test panel, with PVC cover and protection plate. For norm 610 - 920 mm

**Item no.: 55027**

Ventilation valve type B for filter tanks NORM made of stainless steel V4A 3/4" female thread and 1/2" male thread, with large aerator d 32, manual ventilation d 20 for connection to test panel, PVC cover, protection plate and PVC screw connection. For 'norm' 1080 - 2000 mm

**Item no.: 55028**

## Backwash valves for 'norm' series 6-way backwash valve / manual 3"

Threaded connection all-round, excluding piping material, suitable for filter 'norm' 610 / 765 / 920 / 1080 and 1250 mm

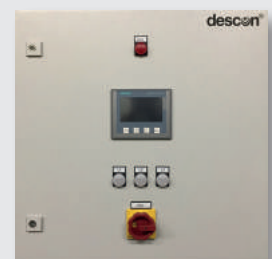
**Item no. 55035**

## **descon® norm** command PUBLIC

Control in switch cabinet with Siemens S7 SPS and 4" touch display. Programmed for level control, automatic filter flushing, control of metering pH, disinfection, flocculation, heating, fault message with archive, channel cleaning and flow measurement.

**descon® command PUBLIC** control – individually extendable. Price on request.

**Item no. 53025**





## Backwash valves for 'norm' series BESGO automatic backwash valves

BESGO automatic backwash valves made of PVC-U with hydraulic control for water or air. With adhesive nipple (can be glued outside), inner parts in stainless steel (V4A 1.4571), gasket Viton / PTFE - ozone-resistant, incl. solenoid valve with emergency manual override. Backwash valve incl. 3/2 230 volt solenoid valve, pressure loss: per 20 m<sup>3</sup>/h = 3 m WC pressure loss.

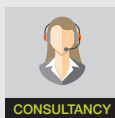
### BESGO automatic backwash valve, 5-way valve

DN 80 / 90 mm, center-to-center distance 300 mm,  
for norm 610 and 765 mm  
**Item no. 55052**

DN 100 / 110 mm, center-to-center distance 360 mm,  
for norm 920 mm  
**Item no. 55053**

DN 125 / 140 mm, center-to-center distance 450 mm,  
for norm 1080 and 1250 mm  
**Item no. 55054**

For more BESGO valves and accessories, refer to Filter Technology and Valves

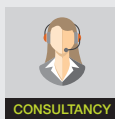


## Front control unit for 'norm' series

Front control unit (control panel) with 5 EBRO butterfly valves with hand lever, including flanges, flange sleeves, screwing material, elbows, T-pieces and pipes cut to length, not glued.

For filtration positions:  
**FILTRATION / BACKWASH / RINSE / WASTE / CLOSED**

Version	DN	Diameter	Item no.:
610/765 mm	80/50	90/63 mm	<b>Item no.: 55096</b>
920 mm	100/80	110/90 mm	<b>Item no.: 55090</b>
1080 mm	125/110	140/110 mm	<b>Item no.: 55091</b>
1250 mm	125/125	140/140 mm	<b>Item no.: 55092</b>
1450 mm	150/125	160/140 mm	<b>Item no.: 55093</b>
1800 mm	200/150	225/160 mm	<b>Item no.: 55094</b>
2000 mm	200/200	225/225 mm	<b>Item no.: 55095</b>





## Test panel for 'norm' series

Test panel made of PVC with testing / sampling valves 1/2", suitable for flame treatment, for untreated and treated water, incl. 2 gauges for measuring range 0.5-4 bar, incl. storage space for samples, incl. piping parts for connection to filter tank.

Item no.: 55025

Differential pressure gauge panel made of PE blue, with differential pressure gauge, diameter 160 mm with double display, fitted in panel made of PE blue, direct display of the filter resistance, with drain pan and two sampling taps, suitable for flame treatment, incl. fastening support / transition, galvanized, 3/4" female thread, to be fixed on side by the customer. Measuring range 0 – 2.5 bar.

Item no. 55026



CONSULTANCY



PRODUCTION



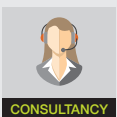
## Filter pumps for 'norm' series

The filter pumps are to be selected according to the particular project. Technical data and pump performance curves are available.

The following pumps series of the SPECK program range are available, amongst others:

**Badu premium**  
**Badu public**

Please contact our project department.



CONSULTANCY



PRODUCTION

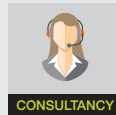




## Flow transmitter (flow sensor)

Flow transmitter type 8025, material PVDF, sealing material FKM, sensor P2 (paddle wheel with Hall short/long), housing IP 65, voltage 110 - 230 V, frequency 50/60 Hz, output current signal 4 - 20mA with relay, pressure range 0 - 10 bar.

DN 40, with T-Fitting S020, short sensor version	Item no. 55185
DN 50, with T-Fitting S020, short sensor version	Item no. 55186
DN 65, with clamp saddle, long sensor version	Item no. 55187
DN 80, with clamp saddle, long sensor version	Item no. 55188
DN 100, with clamp saddle, long sensor version	Item no. 55189
DN 110, with clamp saddle, long sensor version	Item no. 55190
DN 125, with clamp saddle, long sensor version	Item no. 55191
DN 150, with clamp saddle, long sensor version	Item no. 55192



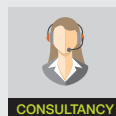
## Inspection glass/sight glass for 'norm' series

Sight-glass flush inside for filter tank 'norm'. GRP formed part, designed as block flange, inserted in cylinder at the works. Allows an excellent observation of the filter bed extension during the backwash process according to DIN 19643, 19605, including gaskets, nuts, and washers.

Inspection window, transparent part: 245 x 55 mm  
Item no.: 55009

Inspection window, transparent part: 345 x 55 mm  
Item no.: 55010

**1 inspection window 245 x 55 mm included in delivery of 'norm' filter tank.**





## Quartz sand, carbon and marble gravel

Quartz sand 0.4 - 0.8 mm, 25 kg bag

**Item no. 55100**

Quartz sand 0.75 - 1.25 mm, 25 kg bag

**Item no. 55101**

Quartz sand 1.0 - 2.0 mm, 25 kg bag

**Item no. 55102**

**descon® granular activated carbon SBK814**, 1.4-2.5 mm in 25 kg paper/PE bags

**descon® granular activated carbon SBK814** is a highly active granular carbon, which, due to its excellent mechanical properties and its very high adsorption capacity, is perfectly suited for all areas of water treatment. The granular activated carbon is made from selected coconut shells and thermally activated with steam under strictly defined conditions. Activated carbons based on coconut shells are characterized by a high purity of the end product, a particularly high hardness and high activity. | Granulation: 1.4 - 2.5 mm

**Item no. 55103**

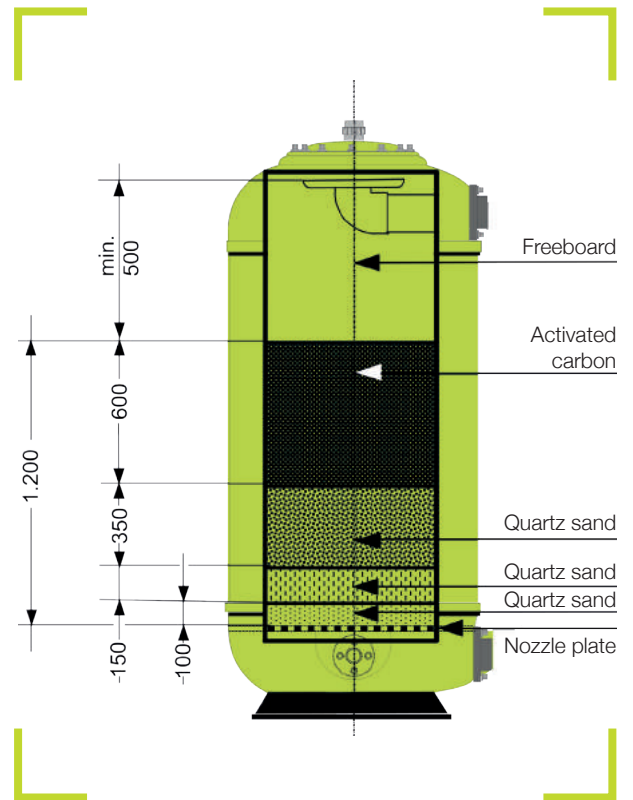
Hydro-anthracite H granulation 1.4 - 2.5 mm

In 50 liter bags

**Item no. 55104**

Marble gravel granulation 6 - 9 mm 25 kg bags

**Item no. 55106**



## descon® home system NORM

### Filling table

Filter model home	Diameter mm	MF = Multi-layer filter	Quartz sand 0.40-0.80 mm Item no.: 55100	Quartz sand 0.75-1.25 mm Item no.: 55101	Quartz sand 1.00-2.00 mm Item no.: 55102	Granular activated carbon SBK814* 1.4 - 2.5 mm Item no. 55103	Hydro ** anthracite H 1.40-2.50 mm Item no.: 55104
<b>norm</b>	610	MF	150 kg	75 kg	50 kg	105 kg	105 kg
<b>norm</b>	765	MF	250 kg	100 kg	75 kg	210 kg	210 kg
<b>norm</b>	920	MF	350 kg	150 kg	100 kg	280 kg	280 kg
<b>norm</b>	1080	MF	500 kg	175 kg	150 kg	385 kg	385 kg
<b>norm</b>	1250	MF	650 kg	275 kg	175 kg	525 kg	525 kg
<b>norm</b>	1450	MF	800 kg	350 kg	225 kg	630 kg	630 kg
<b>norm</b>	1800	MF	1300 kg	600 kg	350 kg	1050 kg	1050 kg
<b>norm</b>	2000	MF	1625 kg	675 kg	450 kg	1152 kg	1152 kg

\* We recommend our product descon granular activated carbon SBK814 for decomposition of combined chlorine.

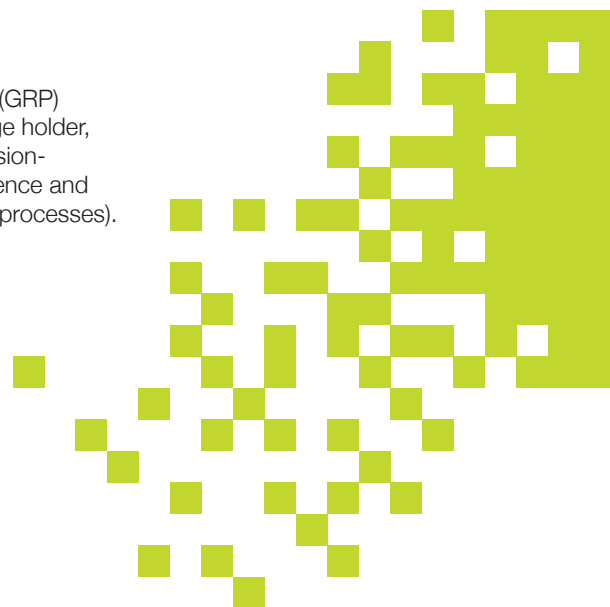
\*\* Alternative in case of minor loads.



## FILTER TECHNOLOGY - PRIVATE

**desccon® home** filter tanks made from high-quality glass fiber reinforced polyester (GRP) with inner protective sealing, manual and automatic tank ventilation, pressure gauge holder, pressure gauge, tank emptying device, internal piping and filter star made of corrosion-resistant plastics. Tested quality and maximum safety thanks to decades of experience and recognised production expertise in the processing of polyester (manual lamination processes).

Conforms to EN 16713-1:2016 / Part 1 Filtration systems.  
This refers to pressure testing, turbidity reduction and retention performance.  
All filters according to KSW guideline / KSW test.





FILTER TECHNOLOGY | PRIVATE



INNOVATION | MADE IN GERMANY





## descon® home System BASIC

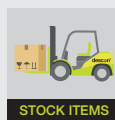
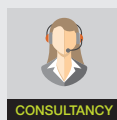
**descon® home basic** filter tank made from high-quality glass fiber reinforced polyester (GRP) with inner protective sealing, manual and automatic tank ventilation, gauge holder, pressure gauge, tank emptying device, internal piping and filter star made of corrosion-resistant plastics, as well as large filling/maintenance port, incl. plastic protective caps for screw heads.

Operating pressure: max. 2.0 bar\*  
 Test pressure: 2.6 bar  
 Tank colour: **descon®** green  
 Filter base / lids / protective caps: black  
 Operating temperature: max. 40° C

Price for filter tanks for higher operating pressures on request.

Conforms to EN 16713-1:2016 / Part 1 Filtration systems.  
 This refers to pressure testing, turbidity reduction and retention performance.

All filters according to KSW guideline / KSW test.



**descon® home** System BASIC | For more technical details and recommendations for use, refer to the table below.

Tank d = mm	Tank height (mm)	Filter area m <sup>2</sup>	For pools up to m <sup>3</sup>	Volume flow m <sup>3</sup> /h	Filling port DN	Maintenance port DN	Item no.
500	630	0.20	50	10	210	x	<b>Item no.: 51000</b>
610	735	0.29	75	15	210	x	<b>Item no.: 51001</b>
765	760	0.46	115	23	210	x	<b>Item no.: 51002</b>
920	940	0.65	165	33	210	x	<b>Item no.: 51003</b>

A Plexiglas cover is available for the BASIC series at an additional fee. It allows a view on the filter bed.

## descon® home System BASIC Filling table

Filter model home	Diameter mm	SF = sand filter	Quartz sand 0.40-0.80 mm Item no.: 55100
<b>basic</b>	500	SF	100 kg
<b>basic</b>	610	SF	175 kg
<b>basic</b>	765	SF	300 kg
<b>basic</b>	920	SF	500 kg



## descon® home - System BASIC PLUS

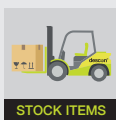
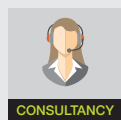
**descon® home basic plus** filter tank made from high-quality glass fiber reinforced polyester (GRP) with inner protective sealing, manual and automatic tank ventilation, gauge holder, pressure gauge, tank emptying device, internal piping and filter star made of corrosion-resistant plastics, as well as large filling/maintenance port, incl. plastic protective caps for screw heads.

Operating pressure: max. 2.0 bar\*  
 Test pressure: 2.6 bar  
 Tank colour: **descon®** green  
 Filter base / lids / protective caps: black  
 Operating temperature: max. 40° C

Price for filter tanks for higher operating pressures on request.

Conforms to EN 16713-1:2016 / Part 1 Filtration systems.  
 This refers to pressure testing, turbidity reduction and retention performance.  
 All filters according to KSW guideline / KSW test.

**With extra large filling / maintenance port!**



**descon® home System BASIC PLUS** | For more technical details and recommendations for use, refer to the table below.

Tank d = mm	Tank height (mm)	Filter area m <sup>2</sup>	For pools up to m <sup>3</sup>	Volume flow m <sup>3</sup> /h	Filling port DN	Maintenance port DN	Item no.
500	630	0.20	50	10	290	x	<b>Item no.: 51010</b>
610	735	0.29	75	15	290	x	<b>Item no.: 51011</b>

A Plexiglas cover is available for the BASIC PLUS series at an additional fee. It allows a view on the filter bed.

## descon® home System BASIC PLUS Filling table

Filter model home	Diameter mm	SF = sand filter	Quartz sand 0.40-0.80 mm Item no.: 55100
<b>basic plus</b>	500	SF	100 kg
<b>basic plus</b>	610	SF	175 kg



## descon® home System PREMIUM High-bed / multi-layer filter with filter star

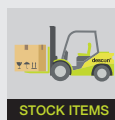
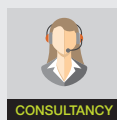
descon® home premium filter tank made from high-quality glass fiber reinforced polyester (GRP) with inner protective sealing, manual and automatic tank ventilation, gauge holder, pressure gauge, tank emptying device, internal piping and filter star made of corrosion-resistant plastics, as well as large filling/maintenance port, incl. plastic protective caps for screw heads.

Operating pressure:	max. 2.0 bar*
Test pressure:	2.6 bar
Tank colour:	<b>descon®</b> green
Filter base / lids / protective caps:	black
Operating temperature:	max. 40° C

Price for filter tanks for higher operating pressures on request.

Conforms to EN 16713-1:2016 / Part 1 Filtration systems.  
This refers to pressure testing, turbidity reduction and retention performance.

All filters according to KSW guideline / KSW test.





**descon® home System PREMIUM** | For more technical details and recommendations for use, refer to the table below.

Tank d = mm	Tank height (mm)	Filter area m <sup>2</sup>	For pools up to m <sup>3</sup>	Volume flow m <sup>3</sup> /h	Filling port DN	Maintenance port DN	Item no.
500*	950	0.20	50	10	210	w/o	Item no.: 51019
610**	1080	0.29	75	15	210	177	Item no.: 51020
765	1150	0.46	115	23	210	177	Item no.: 51021
920	1150	0.65	165	33	210	177	Item no.: 51022

\* Due to production-related factors, without lateral maintenance port

\*\* Also available with connection DN 50/63 mm (item no. 51020S)

A Plexiglas cover is available for the PREMIUM series at an additional fee. It allows a view on the filter bed.



## descon® home System PREMIUM

### Filling table

Filter model home	Diameter mm	SF = sand filter	Quartz sand 0.40-0.80 mm Item no.: 55100	Quartz sand 0.75-1.25 mm Item no.: 55101	Quartz sand 1.00-2.00 mm Item no.: 55102
<b>premium</b>	500	SF	150 kg	-	-
<b>premium</b>	610	SF	175 kg	25 kg	25 kg
<b>premium</b>	765	SF	300 kg	25 kg	25 kg
<b>premium</b>	920	SF	425 kg	50 kg	50 kg





## descon® home System EXCLUSIV High-bed / multi-layer filter with filter star

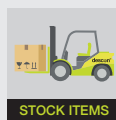
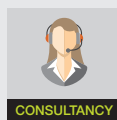
**descon® home exclusiv** filter tank made from high-quality glass fiber reinforced polyester (GRP) with inner protective sealing, manual and automatic tank ventilation, gauge holder, pressure gauge, tank emptying device, internal piping and filter star made of corrosion-resistant plastics, as well as large filling/maintenance port, incl. plastic protective caps for screw heads.

Operating pressure:	max. 2.0 bar*
Test pressure:	2.6 bar
Tank colour:	<b>descon®</b> green
Filter base / lids / protective caps:	black
Operating temperature:	max. 40° C

Price for filter tanks for higher operating pressures on request.

Conforms to EN 16713-1:2016 / Part 1 Filtration systems.  
This refers to pressure testing, turbidity reduction and retention performance.

All filters according to KSW guideline / KSW test.





**descon® home System EXCLUSIV** | For more technical details and recommendations for use, refer to the table below.

Tank d = mm	Tank height (mm)	Filter area m <sup>2</sup>	For pools up to m <sup>3</sup>	Volume flow m <sup>3</sup> /h	Filling port DN	Maintenance port DN	Revision port DN	Item no.
500	1500	0.20	50	10	210	210	x	<b>Item no.: 51029</b>
610	1500	0.29	75	15	210	210	x	<b>Item no.: 51030</b>
765	1500	0.46	115	23	210	210	x	<b>Item no.: 51031</b>
920	1920	0.65	165	33	210	210	x	<b>Item no.: 51032</b>
1080	1920	0.92	230	46	430	430	x	<b>Item no.: 51033</b>
1250	2000	1.23	310	62	430	430	x	<b>Item no.: 51034</b>
1450	2200	1.66	415	83	500	500	177	<b>Item no.: 51035</b>
1800	2200	2.55	640	128	500	500	177	<b>Item no.: 51036</b>

## descon® home System EXCLUSIV Sand layer filter

### Filling table

Filter model home	Diameter mm	SF = sand filter	Quartz sand 0.40-0.80 mm Item no.: 55100	Quartz sand 0.75-1.25 mm Item no.: 55101	Quartz sand 1.00-2.00 mm Item no.: 55102	
<b>exclusiv</b>	500	SF	200 kg	25 kg	25 kg	
<b>exclusiv</b>	610	SF	300 kg	50 kg	50 kg	
<b>exclusiv</b>	765	SF	350 kg	100 kg	100 kg	
<b>exclusiv</b>	920	SF	850 kg	100 kg	100 kg	
<b>exclusiv</b>	1080	SF	1200 kg	150 kg	150 kg	
<b>exclusiv</b>	1250	SF	1800 kg	200 kg	200 kg	
<b>exclusiv</b>	1450	SF	2250 kg	250 kg	250 kg	
<b>exclusiv</b>	1850	SF	3600 kg	450 kg	450 kg	

## descon® home System EXCLUSIV Multi-layer filter

### Filling table

Filter model home	Diameter mm	MF = Multi-layer filter	Quartz sand 0.40-0.80 mm Item no.: 55100	Quartz sand 0.75-1.25 mm Item no.: 55101	Quartz sand 1.00-2.00 mm Item no.: 55102	Granular activated carbon SBK814 1.4 - 2.5 mm Item no. 55103
<b>exclusiv</b>	500	MF	150 kg	25 kg	25 kg	25 kg
<b>exclusiv</b>	610	MF	200 kg	50 kg	50 kg	25 kg
<b>exclusiv</b>	765	MF	250 kg	100 kg	100 kg	50 kg
<b>exclusiv</b>	920	MF	700 kg	100 kg	100 kg	50 kg
<b>exclusiv</b>	1080	MF	950 kg	150 kg	150 kg	75 kg
<b>exclusiv</b>	1250	MF	1500 kg	200 kg	200 kg	100 kg
<b>exclusiv</b>	1450	MF	1900 kg	250 kg	250 kg	125 kg
<b>exclusiv</b>	1850	MF	3100 kg	450 kg	450 kg	175 kg

Special heights, placement of electrical outlets, higher pressure resistance, ozone resistance - price on request



# PUMPS

INNOVATION | MADE IN GERMANY

## FILTER PUMPS

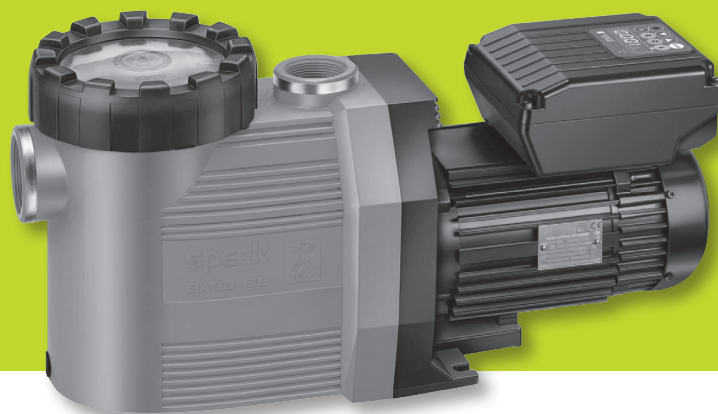
Our range includes BADU swimming pool filter pumps for use in private and public areas. With the product lines swimming pool private > premium, private > allround and public, we have opted for quality. The broad range and the variety of models cover diverse requirements. We do not present the different BADU filter pumps in our catalogue. However, we supply all filter pumps from the Speck range. Please refer to our current price lists or inform yourself at [www.badu.de](http://www.badu.de).

At your request, we also provide the original BADU catalogues. We will be happy to help with technical information and details and we support you with the design of your projects.





desccon<sup>®</sup>





## FILTER CONTROLS

Digital filter control / backwash control series descon command and backwash, with backlit LCD display in modern microprocessor technology in wall mounting case. Easy, user-friendly menu navigation with plain text display. ECO motor control for an easy control, for variable output ranges, adapts to different operating conditions. This means a high potential for reducing energy costs and additional conveniences.





# CONTROL

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## descon® command

Digital multifunction filter control descon command with illuminated LCD display in proven microprocessor technology in wall mounting case. Easy and user-friendly menu navigation with plain text display, display backlight.

### Features and functions:

Filter operation manual/automatic, filter time program, automatic heating, temperature display, service display for filtration and heating run time, language selection: German, English, French, Russian, incl. temperature sensor. Immersion pipe not included in delivery - please order separately (item no. 55115)).

Protection class: IP 65  
Supply voltage: 230 V / 50/60 Hz

Item no.: 53010



CONSULTANCY



STOCK ITEMS



## descon® command

### Model command plus bw

Features and functions same as for command (53010), but additionally with:

Solar control, level control for swimming pool or skimmer level, backwash feature for 6-way motor-driven valve or BESGO (backwash and rinse), flow control, connection measuring and control equipment, operation hours counter and service display, individual parameter settings for relays, remote ON/OFF, forced STOP for roller covers, control of attractions via time switch. We will be happy to provide information about individual settings.

Supply voltage: 230 V, 50-60 Hz  
Protection class: IP 65

Item no. 53012



CONSULTANCY



STOCK ITEMS



# FILTER TECHNOLOGY | FILTER CONTROLS

## descon® command

Model command plus bw ECO

Features and functions same as for command plus bw (53012), but additionally with:  
control of pump speed P1 / P2 / P3 for MANUAL/AUTO, filter time program, backwash, solar operation, roller cover operation and night setback. Adapted and tested for the following Speck pump models: Profi Eco VS, EcoTouch-Pro, EasyFit Eco VS, Badu 90 Eco VS and Badu Bronze Eco VS.

We will be happy to provide information about individual settings.  
Supply voltage: 230 V, 50-60 Hz  
Protection class: IP 65

Item no. 53013



## Options and accessories

Description of product	Item no. 53010	Item no. 53012	Item no. 53013	Item no. 53020 Item no. 53024	Item no. 53021 Item no. 53022	Item no.:
Ultrasonic sensor incl. 3 m cable for control of balancing tank	-	•	•	•	•	Item no.: 55110
Level compact, level sensor incl. 5 m cable for skimmer level control	-	•	•	•	•	Item no.: 55108
Temperature sensor Water PT1000	-	•	•	•	•	Item no.: 55111
Temperature sensor SOLAR PT 1000, cable 10 m	-	•	•	•	•	Item no.: 55112
Temperature sensor SOLAR PT 1000, cable 20 m	-	•	•	•	•	Item no.: 55113
Immersion tube for command control systems made of stainless steel, d= 6 mm, 1/2" male thread	•	•	•	•	•	Item no.: 55115



## descon® backwash Automatic backwash

Digital backwash control descon BACKWASH with backlit alphanumeric display in proven microprocessor technology in wall mounting case. Easy and user-friendly menu navigation with clear text display. The control is mounted right on the 6-way central valve of the filter system.

**descon® BACKWASH** can simply be replaced for the hand lever on the 6-way central valve. Function only available in connection with **descon® command plus BACKWASH | descon® command plus BACKWASH ECO**.

(Item no. 53012 | 53013). To be ordered separately.

Standard equipment and functions:

Programming of backwash times, display of backwash intervals and service display.

Supply voltage: 230 V / 50/60 Hz

Protection class: IP 65

Item no.: 53020 | Model for 6-way valve 1 ½" and 2"

Item no.: 53024 | Model for 6-way valve 3"



CONSULTANCY



STOCK ITEMS



## descon® backwash plus Automatic backwash and filter control

Features and functions same as for **descon® backwash (53020 | 53024)**, but with a filter control in addition.

Filter operation manual / automatic, filter time program, automatic heating, temperature display, interval display, display of backwash intervals, operating hours counter filter pump and heating, filter pump rundown incl. error message, flow control, connection for measuring, control and metering equipment, service display, incl. temperature sensor.

The immersion tube is not included in the delivery - please order separately.

Item no. 55115

### Options:

Solar control, level control for swimming pool or skimmer level.

The service instructions must be observed when connecting additional options.

Supply voltage: 230 V / 50/60 Hz

Protection class: IP 65

Item no.: 53021 | Model for 6-way valve 1 ½" and 2"

Item no.: 53022 | Model for 6-way valve 3"



CONSULTANCY



STOCK ITEMS



# FILTER TECHNOLOGY | FILTER CONTROLS

## Performance Overview descon® command series

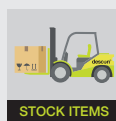
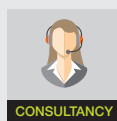


Function   Equipment	Item no. 53010	Item no. 53012	Item no. 53013	Item no. 53020 Item no. 53024	Item no. 53001 Item no. 53022
<b>Filter operation MANUAL / AUTO</b>	•	•	•	-	•
<b>Filter time program</b>	•	•	•	-	•
<b>Heating control</b>	•	•	•	-	•
<b>Temperature sensor Water</b>	•	•	•	-	•
<b>Temperature display / control</b>	•	•	•	-	•
<b>Language selection</b>	•	•	•	•	•
<b>SOLAR function</b>	-	Option	Option	-	Option
<b>Level swimming pool / Skimmer level</b>	-	Option	Option	-	Option
<b>6-way automatic backwash valve</b>	-	Option	Option	•	•
<b>BESGO valve / Backwash and rinse</b>	-	Option	Option	-	-
<b>Operating hours counter / Service display</b>	•	•	•	-	•
<b>Flow control</b>	-	•	•	-	•
<b>Connection measuring &amp; control equipment</b>	-	•	•	-	•
<b>Individual parameter setting</b>	-	•	•	•	•
<b>Motor control P1/P2/P3</b>	-	-	•	-	- In preparation
<b>Control of attractions via time switch</b>	-	•	•	-	-
<b>Remote ON / OFF</b>	-	•	•	-	-
<b>Forced roller cover STOP</b>	-	•	•	-	-
<b>Forced speed with roller covers closed</b>	-	-	•	-	-
<b>Supply voltage</b>	230V, 50-60Hz	230V, 50-60Hz	230V, 50-60Hz	230V, 50-60Hz	230V, 50-60Hz
<b>Protection class</b>	IP 65	IP 65	IP 65	IP 65	IP 65



## Backwash valves for a manual backwash

6-way valve kit

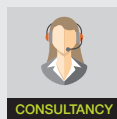


6-way backwash valve / manual 1 1/2", incl. valve piping loose	Item no. 55031
6-way backwash valve / manual 2", incl. valve piping loose	Item no. 55032
6-way backwash valve / manual 3", threaded connection (all round), excl. piping part	Item no. 55035



## BESGO Automatic backwash valves

BESGO automatic backwash valves made of PVC-U with hydraulic control for water or air. DN 40 - 125 with adhesive nipple (can be glued outside), inner parts in stainless steel (V4A 1.4571), gasket Viton / PTFE - ozone-resistant, incl. solenoid valve with emergency manual override. Backwash valve incl. 3/2 230 volt solenoid valve, pressure loss: 20 m³/h = 3 mWC pressure loss.



<b>BESGO</b> automatic backwash valves, 5-way valve, DN 40 / 50 mm., center distance 125 mm. Amongst others, for <b>descon</b> ® home <b>BASIC</b> 500 / 610 mm and <b>PREMIUM</b> 610 mm.	Item no. 55050
<b>BESGO</b> automatic backwash valves, 5-way valve, DN 50 / 63 mm, center distance 190 mm. Amongst others, for <b>descon</b> ® home <b>PERMIUM</b> 765 / 910 mm and <b>EXCLUSIV</b> 610 / 765 and 920 mm.	Item no. 55051
<b>BESGO BESGO</b> automatic backwash valves, 5-way valve DN 65 / 75 mm, center distance 250 mm.	Item no. 55055
<b>BESGO</b> automatic backwash valves, 5-way valve, DN 80 / 90 mm, center distance 300 mm.	Item no. 55052
<b>BESGO</b> automatic backwash valves, 5-way valve, DN 100 / 110 mm, center distance 360 mm.	Item no. 55053
<b>BESGO</b> automatic backwash valves, 5-way valve, DN 125 / 140 mm, center distance 450 mm.	
Model for water pressure	Item no. 55054W
Model for air pressure	Item no. 55054L



## BESGO

### Automatic multi-way valves

#### BESGO

3-way valve made of PVC-U for alternative applications and rinsing



CONSULTANCY



PRODUCTION



**BESGO** 3-way valve, DN 40 / 50 mm

Item no. 55065

**BESGO** 3-way valve, DN 50 / 63 mm

Item no. 55066

**BESGO** automatic backwash valve, 3-way valve, DN 65 / 75 mm

Item no. 55070

**BESGO** 3-way valve, DN 80 / 90 mm

Item no. 55067

**BESGO** 3-way valve, DN 100 / 110 mm

Item no. 55068

**BESGO** 3-way valve, DN 125 / 140 mm

Model for water pressure

Item no. 55069W

Model for air pressure

Item no. 55069L

## BESGO

### 2-way valves

Applications:

- for an automatic ventilation of filters
- for an automatic channel switching (channel cleaning)



CONSULTANCY



PRODUCTION



**BESGO** 2-way valve, DN 40 / 50 mm

Item no. 55075

**BESGO** 2-way valve, DN 50 / 63 mm

Item no. 55076

**BESGO** 2-way valve, DN 65 / 75 mm

Item no. 55077





## Immersion tube

For command controls

Made of stainless steel, d = 6 mm, 1/2", PG 9

Item no.: 55115



CONSULTANCY



STOCK ITEMS



## Temperature sensor

Water and Solar

Temperature sensor "Water" PT 1000,  
cable 2 m, black, for all command devices

Item no.: 55111

Temperature sensor "SOLAR" PT 1000  
cable 10 m, black, for command plus

Item no.: 55112

Temperature sensor "SOLAR" PT 1000  
cable 20 m, black, for command plus

Item no.: 55113



## niveau compact

Level sensor with 5 m cable

(for skimmer control), solenoid valve by customer

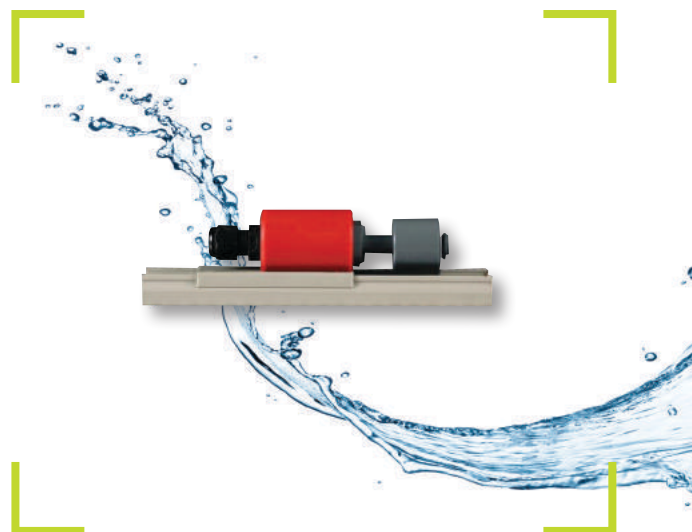
Item no.: 55108



CONSULTANCY



STOCK ITEMS





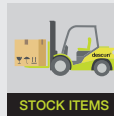
## Ultrasonic sensor incl. 3 m cable

For command plus and backwash plus

Item no.: 55110



CONSULTANCY



STOCK ITEMS



## Three-phase contactor and motor protection

Three-phase contactor and motor protection in  
CIK wall mounting case 1.6 - 2.4 A

Item no.: 53050

Three-phase contactor and motor protection in  
CIK wall mounting case 2.4, 4.0 A

Item no.: 53051

Three-phase contactor and motor protection in  
CIK wall mounting case 4.0, 6.0 A

Item no.: 53052

Three-phase contactor and motor protection in  
CIK wall mounting case 6.0, 9.0 A

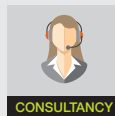
Item no.: 53053



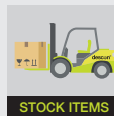
## Installation unit 3/8" Besgo

For control of the water pressure, consisting of:  
pressure gauge 0 - 10 bar, non-return valve, fine filter, cut-off valve

Item no.: 55080



CONSULTANCY



STOCK ITEMS



## Connection kit

### Compressor 3/4" female thread

Connection kit 1 to compressor 3/4" female thread for

1 Besgo valve consisting of:

1 ball valve, 2 male connectors, 10 m PE hose

**Item no.: 55081**

Connection kit 2 to compressor 3/4" female thread for

2 Besgo valves consisting of:

1 ball valve, 3 male connectors, 1 T-union, 10 m PE hose 6/4 mm

**Item no.: 55082**

Connection kit 3 to compressor 3/4" female thread for

3 Besgo valves consisting of:

1 ball valve, 4 male connectors, 2 T-unions, 10 m PE hose 6/4 mm

**Item no.: 55083**



## Compressor

### Einhell make

Oil-free, 1.1 kW, 230V, tank capacity 24 l, max. operating pressure 8 bar, 22 kg, sound level 92 dB, with pressure reducer, 2 pressure gauges and water drain valve

**Item no.: 55084**



CONSULTANCY



PRODUCTION



## Compressor

### Createx

Compressor Createx 230 V, without tank, with EU plug, 3.5 to 4.5 bar, 3.5 kg for low-noise operation (40 dB).

**Item no. 55085C**

Compressor Createx 230 V, tank capacity 24 l, with EU plug 3.5 to 4.5 bar for low-noise operation (40 dB).

**Item no. 55086C**



CONSULTANCY



PRODUCTION





# WATERCARE

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# descon®

## WATERCARE

The demands made on treatment systems for swimming pool water are high. Specific properties of the fill water, the temperature of this water and the load on the pool can cause a variety of adverse reactions up to massive problems. Maintaining a proper pH value and disinfectant content is of great importance to ensure an hygienically safe and impeccable pool water and an undisturbed bathing pleasure.

### Definitely the best solution:

**descon® watercare complete | eco** are compact systems for private swimming pools and Jacuzzis. The systems are characterized by perfectly matched components and a high quality. The entire system is pre-assembled at the works as compact unit in space-saving design, and ready for operation on site in no time.

For swimming pools up to 115 m<sup>3</sup>.







## descon® watercare complete

System components



Measuring, control and metering technology  
**descon® trol XVS**



Filter control  
**descon® command plus bw / eco**



Automatic backwash  
**descon® backwash**  
Optionally  
**BESGO valve**



Additional disinfection  
**descon® ultraV**



Flocculant dosing  
**descon® dos vision**



Filter pump

## descon® watercare complete

A simply brilliant water quality.

**descon® watercare complete** are made of high-quality, proven components from the **descon®** program, and are customized to your requirements. The high-bed filter **home exklusiv** and the measuring, control and metering system **descon® trol XVS** are the basis for an excellent water treatment.

The modular plug-and-play system

- Measuring, control and metering technology **descon® trol**
- Filter control **descon® command plus**
- Automatic backwash **descon® backwash | Besgo valve**
- Additional UV disinfection **descon® ultraV**
- Flocculant dosing **descon® dos vision**
- Filter pump
- Filter **home exklusiv**



**descon® watercare complete** systems are built to your individual requirements.





## descon® watercare ECO

System components



Measuring, control and metering technology  
**descon® trol XVS**

### descon® watercare ECO

A simply brilliant water quality.

**descon® watercare eco** are made of high-quality, proven components from the **descon®** program, and are customized to your requirements. The **home premium** filter and the measuring, control and metering system **descon® trol XVS** are the basis for an excellent water treatment.



Filter control  
**descon® command plus bw / eco**

The modular plug-and-play system

- Measuring, control and metering technology **descon® trol**
- Filter control **descon® command plus**
- Automatic backwash **BESGO | Backwash**
- Flocculant dosing **descon® dos vision**
- Filter pump
- Filter **home premium**



Automatic backwash  
**BESGO**  
Optionally  
**descon® backwash**



Flocculant dosing  
**descon® dos vision**



Filter pump



**descon® watercare eco** systems are built to your individual requirements.



# descon®

## LIQUID CHEMISTRY

**descon®** offers a comprehensive range of water treatment chemicals.

Liquid products for disinfection, pH correction and flocculation are standard products for water treatment in public and private swimming pools. **descon®** products are manufactured from high quality raw materials by German manufacturers under strict quality criteria; precondition for an optimal water treatment at reasonable costs.

All products are supplied in stable, UV protected 25 kg disposable containers, to be added directly from the supply container.



LIQUID | CHEMISTRY



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# CHEMICALS



NEXT WATER.  
GENERATION.®  
**descon**



**descon® LiquiChlor** - Liquid disinfection concentrate containing chlorine with inorganic additives to increase the storage stability.

**Application areas:** Disinfection of swimming pool water to DIN 19643. Disinfection of drinking and industrial water, disinfection of tanks, pipes and vessels in the food industry.

**Metering:** With automatically controlled metering system for water treatment, depending on the desired setpoint. In case of manual use, dilutions are to be prepared in accordance with relevant regulations and the respective load.

**Please observe:** Increased temperatures in the application area can result in the formation of bubbles in the suction line of metering systems; for this reason suitable pumps are to be provided.

25 kg supply container | Item no.: 21000



**descon® pH Minus** |  
Liquid pH reducer for water treatment.  
Used directly from the supply container.  
Free of hydrochloric acid, non-outgassing.

**Application areas:** Pool water, drinking water and process water

**Metering:** With automatically controlled, acid-resistant metering system, depending on water hardness, temperature and the desired pH level of the treated water.

25 kg supply container | Item no.: 21020



**descon® pH Minus concentrate**  
Liquid pH reducer for water treatment.  
Used directly from the supply container.  
Free of hydrochloric acid, non-outgassing.

**Application areas:** Pool water, drinking water and process water

**Metering:** With automatically controlled, acid-resistant metering system, depending on water hardness, temperature and the desired pH level of the treated water.

25 kg supply container | Item no.: 21021



## descon® pH Plus

Liquid pH increaser for water treatment.  
Used directly from the supply container.

**Application areas:** Pool water, drinking water and process water

**Metering:** With automatically controlled, alkali-resistant metering system, depending on water hardness, temperature and the desired pH level of the treated water.

Please observe: Frost-proof up to -20° Celsius.

25 kg supply container | Item no.: 21025



## descon® OxiActiv | Oxygen-separating concentrated active-substance for pool water treatment with biocide additive for algae prevention.

**Application areas:** Chlorine-free water treatment in combination with approved active ingredients for algae prevention.

**Metering:** The concentration of active ingredient in the treated water should be 15-30 mg/l and depends on load, weather and fresh water addition. Measurement with **descon® Pooltester active oxygen**.

**Please observe:** In indoor swimming pools, it is possible to use lower active ingredient concentrations compared to outdoor swimming pools and fountains.

**Recommended contents of active ingredients:** Indoor pools 15 - 20 mg/l, outdoor pool 20 - 30 mg/l, fountains 15 - 50 mg/l, depending on type of facility and treatment system. The sale of this product to general persons (end users) is prohibited by law. May be sold only to commercial companies or municipalities who provide and end user certificate with each order.

25 kg supply container | Item no.: 21010



## descon® OxiActiv light 12% | Oxygen-separating concentrated active-substance for pool water treatment with biocide additive to prevent algae growth.

**Application areas:** Chlorine-free water care in private swimming pools in combination with approved active ingredients for algae prevention.

**Metering:** The concentration of active ingredient in the treated water should be 15-30 mg/l and depends on load, weather and fresh water addition. Measurement with **descon® Pooltester active oxygen**.

**Please observe:** In indoor swimming pools, it is possible to use lower active ingredient concentrations compared to outdoor swimming pools and fountains.

**Recommended contents of active ingredients:** Indoor pools 15 - 20 mg/l, outdoor pool 20 - 30 mg/l, fountains 15 - 50 mg/l, depending on type of facility and treatment system.

25 kg supply container | Item no.: 21012





## descon® LiquiFloc

Flocculant based on PAC

to be added directly from the supply container.

**Application areas:** Flocculant for swimming pool water treatment for use in single-layer and multi-layer filter systems.

**Metering:** In case of normal loads, add 0.3-0.5 ml/m<sup>3</sup>, in case of heavy loads, add up to 0.8 ml/m<sup>3</sup> circulation capacity.

**Please observe:** When selecting the metering system, ensure that the product is added in short pulse sequences. It is recommended to place the injection point in an area with high turbulence to ensure a good mixing, for example 1 - 2 meters in front of the circulation pump.

Use only soft water for pre-dilution.

25 kg supply container | Item no.: 21030



## descon® SuperFloc

PAC flocculant concentrate for

use directly from the supply container.

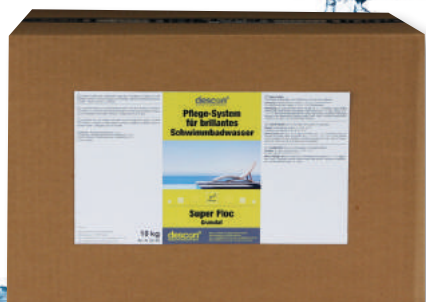
**Application areas:** Flocculant for pool and drinking water in all single-layer and multi-layer filter systems.

**Metering:** Pool water with normal loads: 0.1 - 0.3 ml/m<sup>3</sup> circulation capacity, in case of heavy loads, increase to 0.4 - 0.7 ml/m<sup>3</sup>.

**Please observe:** When selecting the metering system, ensure that the product is added in short pulse sequences. It is recommended to place the injection point in an area with high turbulence to ensure a good mixing, for example 1 - 2 meters in front of the circulation pump.

Use only soft water for pre-dilution.

25 kg supply container | Item no.: 21035



## descon® SuperFloc granules

Granules 5 x 2 kg based on PAC.

**Application areas:** Flocculant for swimming pool water treatment for use in single-layer and multi-layer filter systems.

**Metering:** In case of normal loads, add 0.3-0.5 ml/m<sup>3</sup>, in case of heavy loads, add up to 0.8 ml/m<sup>3</sup> circulation capacity.

**Please observe:** When selecting the metering system, ensure that the product is added in short pulse sequences. It is recommended to place the injection point in an area with high turbulence to ensure a good mixing, for example 1 - 2 meters in front of the circulation pump.

2 kg SUPER Floc are dissolved in 35 liters of water.

Item no.: 23155



## descon® HC-Chlor, granules

**descon® HC-Chlor granules**, inorganic, min. 70 % active ingredient, suitable for shock and continuous treatment, to DIN 19643. Observe the hardness of the fill water - use in waters up to approx. 12 degrees dH. Size of supply container specifically for chlorination system **descon® dome**, or alternatively for dry chlorine metering systems of other manufacturers.

45 kg container, goods from Japan | Item no. 23025  
40 kg container "PQ" goods from Japan | Item no. 23025



## descon® Easiflo Briquette

Dry chlorine briquette 7 g, inorganic min. 70% active substance content, for use in public swimming pools. Slow dissolving, easy and safe to handle. Share of insoluble components < 3%, contains no stabilizers (cyanuric acid), long shelf life. Particularly suitable when using a **descon® CAL FLOW** dry chlorine metering station.  
Active substance basis: calcium hypochlorite min 70% (USA).

25 kg supply container | Item no.: 23027

10 kg supply container | Item no.: 23028



## descon® Conditioner

Conditioner to regulate the pH level and dissolve calcareous residues in **descon® dome** chlorination systems.

To be used according to operating instructions for the system.

25 kg supply container | Item no.: 21045





INNOVATION | MADE IN GERMANY





# descon®

## WATER CARE - MANUAL

**descon®** pool care system for an unspoilt bathing pleasure.

Our comprehensive range of swimming pool maintenance products offers individual preparations for different treatment methods, designed to supplement each other. Proven quality, reliability, ease of handling and economical use are characteristic of **descon®** water care products.



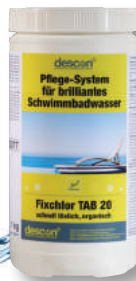


## descon® Fixchlor Granules

**descon® Fixchlor granules**, fast dissolving, organic min. 54% active ingredient, suitable for shock and continuous treatment.

1 kg | Item no.: 23000  
5 kg | Item no.: 23002

10 kg supply container in 2 x 5 kg duo-pack.



## descon® Fixchlor TAB 20

**descon® Fixchlor TAB 20**, fast dissolving, organic min. 50 % active ingredient, suitable for shock and continuous treatment.

1 kg | Item no.: 23010  
5 kg | Item no.: 23012

10 kg supplied as 2 x 5 kg duo-pack.



## descon® HC-Chlor Granules

**descon® HC-Chlor granules**, inorganic, min. 70 % active ingredient, suitable for shock and continuous treatment, to DIN 19643. Observe the hardness of the fill water - use in waters up to approx. 12 degrees dH.

1 kg      Item no.: 23020  
5 kg      Item no.: 23022

10 kg supply container in 2 x 5 kg duo-pack.



## descon® HC-Chlor TAB 20

**descon® HC-Chlor TAB 20**, inorganic, min. 70% of active ingredient, suitable for shock and continuous treatment, to DIN 19643. Observe the hardness of the fill water  
- use in waters up to approx. 12 degrees dH.

1 kg | Item no.: 23030  
5 kg | Item no.: 23032

10 kg supplied as 2 x 5 kg duo-pack.



## descon® MAXI-Chlor TAB 200 descon® MAXI-Chlor TAB 20

**descon® MAXI-Chlor TAB 200**, organic, mind. 90 % active ingredient, for long-term continuous disinfection (completely soluble), suitable for all degrees of water hardness, individually sealed.

1 kg | Item no.: 23040  
5 kg | Item no.: 23041

1 kg MINI TAB 20 | Item no.: 23043



## descon Quattro TAB 200 descon Quattro MINI TAB 20

**descon® Quattro TAB 200/20** - Disinfection, algae prevention, pH stability and flocculation, organic, min. 87% of active ingredient, for long-term continuous disinfection (dissolves completely), suitable for all degrees of water hardness.

1 kg Quattro TAB 200 | Item no.: 23050  
5 kg Quattro TAB 200 | Item no.: 23051

1 kg Quattro MINI TAB 20 | Item no.: 23053



## descon® Quattro-Block

**descon® Quattro-Block** - Disinfection, algae prevention, pH stability and flocculation, organic, min. 87% of active ingredient, for long-term continuous disinfection (completely soluble), suitable for all degrees of water hardness.  
0.6 kg | Item no.: 23055

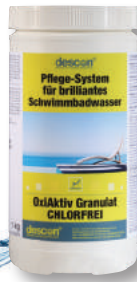


## descon® Oxi-Schock Granules

**descon® Oxi-Schock**- Granules that offer a fast remedy in case of collapsed water, very high oxidation power. Owing to a rapid decomposition, not excessive chlorine values.

1 kg | Item no.: 23060

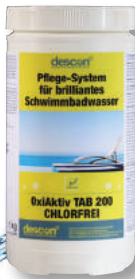




## descon® OxiActiv Granules CHLORINE-FREE

**descon® OxiActiv Granules** - CHLORINE-FREE, for disinfection of swimming pool water based on active oxygen, dissolve fast and completely.

1 kg | Item no.: 23070  
5 kg | Item no.: 23071  
10 kg | Item no.: 23072



## descon® OxiActiv TAB 200 CHLORINE-FREE

**descon® OxiActiv TAB 200** - CHLORINE-FREE, for disinfection of swimming pool water based on active oxygen, dissolve fast and completely.

1 kg | Item no.: 23080  
5 kg | Item no.: 23081





## descon® EasyBlue

Care system for crystal-clear swimming pool water | EasyBlue | Long-term care | CHLORINE-FREE

### Properties / addition:

Long-term water care system in liquid form for outdoor swimming pools and indoor swimming pools. Easy to use, provides reliable protection against algae and bacteria. The care system EasyBlue consists of 2 components.

EasyBlue component FIRST (at the beginning and for wintering)  
EasyBlue component FINISH (for maintenance)

### Delivery form:

Set with 2 x 1 liter EasyBlue FIRST / FINISH  
Set with 2 x 2.5 liter EasyBlue FIRST / FINISH

### Metering (components FIRST & FINISH):

1.0l is sufficient for 20 - 25 m<sup>3</sup> | 2.5l are sufficient for 50 - 62.5 m<sup>3</sup>

### Application:

#### Step 1:

Clean the pool and carry out a shock chlorination. We recommend **descon® Oxi-Schock granules or HC-Chlor granules** (approx. 3 mg/l; 100 - 150 g / 10 m<sup>3</sup>). Have the filter system run for 48 hours uninterrupted, maintain the chlorine concentration, re-dose if necessary.

#### Step 2:

Add EasyBlue FIRST - 1 liter is sufficient for 20 - 25 m<sup>3</sup>.

#### Step 3:

After 4 - 6 weeks (depending on the weather): Check the pH level and carry out a shock chlorination (dosage see above).

#### Step 4:

Then add EasyBlue FINISH - 1 liter is sufficient for 20 - 25 m<sup>3</sup>.  
After 10 - 12 weeks, start with the same procedure. Check the pH level regularly and adjust. Ideal value 7.0 - 7.4 pH.

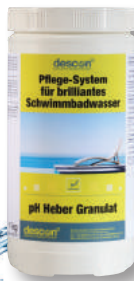
Set with 2 x 1 l	Item no.: 23200
Set with 2 x 2.5 l	Item no.: 23201
FIRST 1 l	Item no.: 23205
FIRST 2.5 l	Item no.: 23210
FINISH 2.5 l	Item no.: 23211



## descon® pH reducer Granules

descon® pH reducer, acid granules for reducing the pH level.

1.5 kg	Item no.: 23100
5 kg	Item no.: 23101
7.5 kg	Item no.: 23103



## descon® pH raiser Granules

descon® pH raiser, fast dissolving, free-flowing granules to increase the pH.

1 kg	Item no.: 23110
5 kg	Item no.: 23111



## descon® Algen EX

descon® Algen EX, highly effective, foam-free algicide with long-term depot effect for algae prevention.

1 l	Item no.: 23120
3 l kg	Item no.: 23121
5 l kg	Item no.: 23122
10 l kg	Item no.: 23123



## descon® Winter-Fit

descon® WinterFit, foam-free winterizing agent to prevent the growth of algae and lime precipitation.

1 l	Item no.: 23140
3 l kg	Item no.: 23141



## descon® Floc Liquid

descon® Floc liquid, to be added manually directly to the pool.

1 l | Item no.: 23150



## descon® SuperFloc cartridges descon® SuperFloc GEL cubes

descon® SuperFloc cartridges, pack of 8. For permanent flocculation in sand filter systems. To be added in the surface skimmer. SuperFloc is adjusted to release the flocculant slowly over a few days, resulting in a significantly better filtration effect of the filter bed.

Pack of 1 | Item no.: 23152

descon® SuperFloc GEL cubes 2 x 170 g. Gel cubes for a long-lasting, effective flocculation effect. Sufficient for approx. 40 m<sup>3</sup> water content. Effective for approx. 2 - 4 weeks, depending on water temperature and contamination.

Pack of 1 | Item no.: 23153



## descon® Cleaner S Acidic / power cleaner

descon® Cleaner S - acidic power cleaner  
Highly effective acid cleaner to remove limestone deposits.  
Also removes algae and rust stains.

1 l | Item no.: 23160



## descon® Cleaner S GEL Acidic / power cleaner

descon® Cleaner S GEL - acidic power cleaner  
Highly effective acid cleaner to remove limestone deposits.

1 l | Item no.: 23162





## descon® Cleaner A

Alkaline

**descon® Cleaner A** - alkaline.

Highly effective alkaline cleaner to remove fatty deposits.

1 l | Item no.: 23164



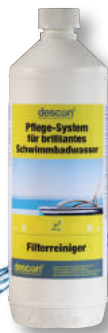
## descon® Cleaner A GEL

Alkaline, viscous

**descon® Cleaner A - GEL** alkaline, viscous.

Highly effective viscous, alkaline cleaner to remove fatty deposits. Long reaction time!

1 l | Item no.: 23166



## descon® Stainless steel cleaner

**descon® Stainless steel cleaner.** Special liquid cleaner for stainless steel and chrome fittings.

1 l | Item no.: 23168



## descon® Filter cleaner

**descon® Filter cleaner.** Special liquid cleaner to remove lime and organic deposits and other impurities from filter tanks.

1 l | Item no.: 23170



## descon® Roller cover cleaner

**descon® Roller cover cleaner** - special liquid cleaner.  
Effortless removal of limescale deposits from pool covers and other surfaces.

1 l | Item no.: 23172



## descon® Kalk EX liquid

**descon® Kalk EX** prevents lime precipitation in water with a hardness up to approx. 40° dH.  
Lime deposits in swimming pools, filters and heat exchangers are prevented.

1 l | Item no.: 23180



## descon® pH-Stabil

**descon® pH-Stabil** - Granules to increase the acid capacity (alkalinity) in the pool. Increases the carbonate hardness (alkalinity) of pool water. Pool water should have a carbonate hardness of minimum 5 degrees dH.

1 kg     Item no.: 23185  
3 kg     Item no.: 23186  
25 kg    Item no.: 23187  
25 kg    Item no.: 23188 (bags)



## descon® Metall Ex

**descon® Metall EX - liquid.**  
Removes metal and calcium deposits from pool floors and pool walls.  
Can also be used in filled swimming pools.

1 l | Item no.: 23190









[www.descon-trol.de](http://www.descon-trol.de)





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